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SWEPSONVILLE LANDFILL - closed
ALAMANCE COUNTY, NC

RESULTS OF WATER QUALITY SAMPLING
OCTOBER 1995

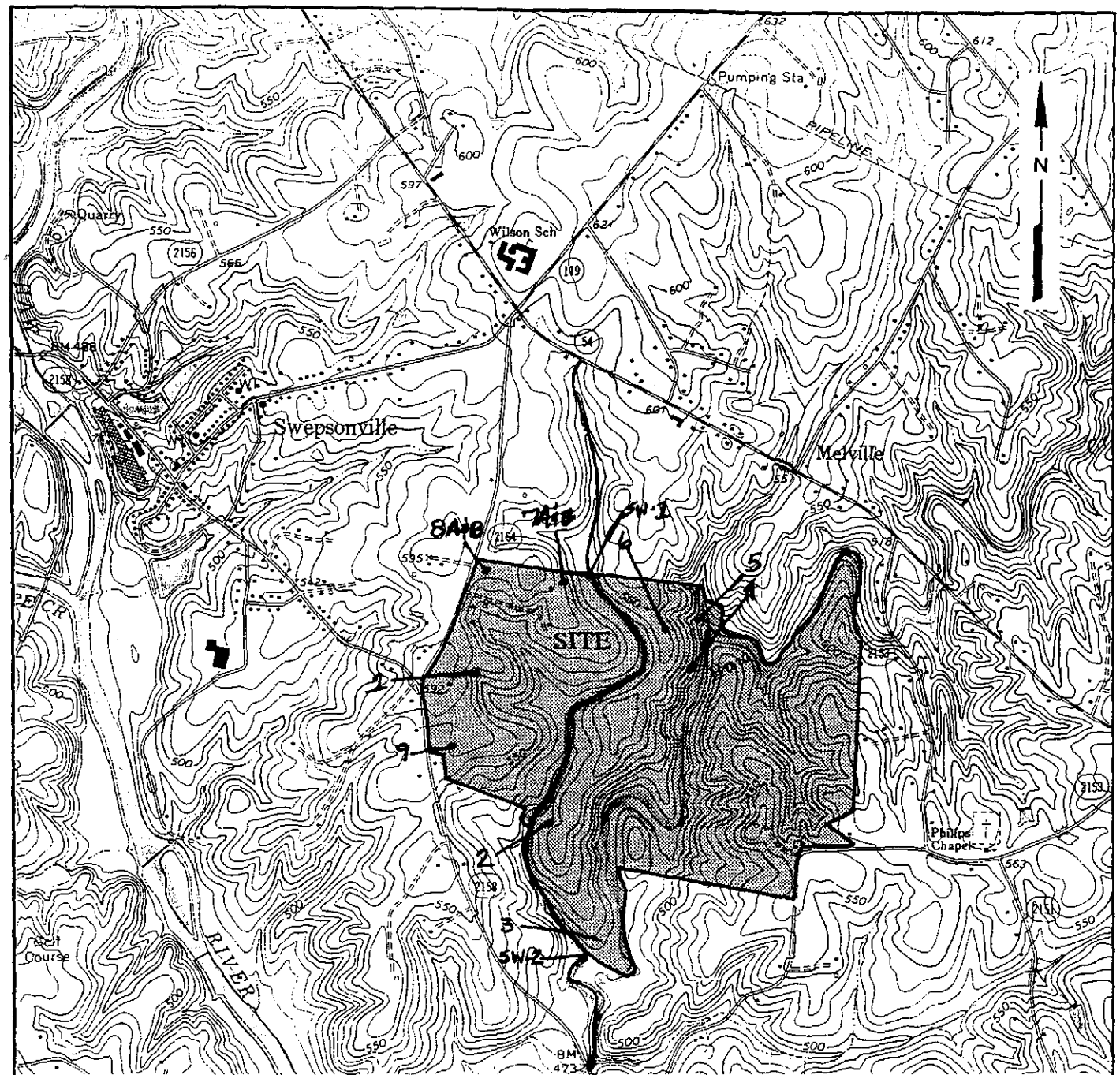
PREPARED FOR
ALAMANCE COUNTY

JANUARY 4, 1996

JAN 1996
Received
Solid Waste
Section

BPA Environmental & Engineering, Inc.

(910) 272-9713 2641-G Randleman Road, Greensboro, NC 27406



MEBANE QUADRANGLE
NORTH CAROLINA
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SWEPSONVILLE LANDFILL
ALAMANCE COUNTY, NORTH CAROLINA

BPA Environmental & Engineering, Inc.

SITE LOCATION MAP

FIGURE 1

SWEPSONVILLE LANDFILL
ALAMANCE COUNTY, NC

RESULTS OF WATER QUALITY SAMPLING
OCTOBER 1995

PREPARED FOR
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I hereby certify this 4th day of January 1996, that this report was prepared by me or under my direct supervision.

Kenneth B. Vanhoy
Geologist

NORTH CAROLINA LICENSED SEAL 681 GEOLOGIST E. W. SCARLETT, JR.

E. W. Scarlett, Jr., P.G.
Principal

Technical review performed by:

John M. Stewart, P.G.
Geologist

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ALAMANCE COUNTY
SWEPSONVILLE LANDFILL
RESULTS OF WATER QUALITY SAMPLING
OCTOBER 1995

1.0 EXECUTIVE SUMMARY

Eleven monitoring wells and two stream locations at the Alamance County Swepsonville Landfill were sampled on October 10-11, 1995. All sampling was conducted according to North Carolina Solid Waste Management Guidelines. The samples were submitted to a North Carolina certified laboratory for testing using the Federal Appendix I list of constituents for detection monitoring plus mercury.

Results from the eleven monitoring well samples show that the concentrations of four organic volatile constituents (tetrachloroethene and trichloroethene in MW-2 and MW-4, 1,1-dichloroethene in MW-2 and cis-1,2-dichloroethene in MW-4) exceeded the 15A NCAC 2L Standards for Class GA groundwater on the date the samples were collected. Chloroethane and 1,1-dichloroethene were detected in well MW-4 and 1,1-dichloroethene, cis-1,2-dichloroethene and 1,1,1-trichloroethane were detected in well MW-2 at concentrations that did not exceed the 15A NCAC 2L Standards for Class GA groundwater. Low level concentrations of seven inorganic constituents (barium, cadmium, chromium, copper, lead, mercury and zinc) were detected, but did not exceed the 2L Standards for Class GA groundwater on the date the samples were collected. Low level concentrations of three inorganic constituents (beryllium, cobalt and vanadium) were detected, but no 15A NCAC 2L Standard has been established for these constituents.

Results from the two surface water samples collected from the creek that flows along the east/southeast boundary of the landfill disposal area show no concentrations of organic volatile or inorganic constituents in either of the samples.

2.0 INTRODUCTION

BPA Environmental & Engineering, Inc. was contracted by Alamance County, North Carolina to sample the ground and surface water at eleven monitoring wells and two surface water locations at the Swepsonville Landfill. The site location is shown on Figure 1.

3.0 SCOPE OF WORK

This sampling task included sampling eleven monitoring wells and two locations on a nearby stream for Federal Appendix I organic and inorganic constituents plus mercury as listed in 40 CFR, Part 258.

4.0 METHODS EMPLOYED

4.1 Monitoring Well Sampling

Groundwater sampling took place on October 10-11, 1995. The wells were purged by either removing a minimum of three (3) well volumes or purging the wells to dryness prior to obtaining water samples. The water samples were collected using properly decontaminated teflon bailers. All water samples were field checked for temperature, specific conductance, and pH. These data are summarized in Table 1. Field data sheets are included as Appendix A. Samples were placed in laboratory cleaned and supplied containers, packed on ice, and placed under chain-of-custody. Samples were shipped to the laboratory by a next day delivery service. All analyses were conducted by IEA, Inc., a North Carolina certified laboratory located in Cary, North Carolina. The monitoring well locations are shown on Figure 2.

4.2 Stream Sampling

Surface water sampling took place on October 10-11, 1995. Samples SW-1 and SW-2 were collected from a stream that flows along the east/southeast side of the Swepsonville Landfill.

All stream samples were analyzed for the same parameters as the groundwater samples. The stream sample locations are shown on Figure 2.

5.0 RESULTS

The results of the laboratory analysis are summarized in Tables 2 and 3, and the complete laboratory reports are included as Appendix B.

5.1 Groundwater

The groundwater sample analyses revealed concentrations of four constituents that are above 2L Groundwater Standards. A summary of these analytical results is provided below.

- 1,1-Dichloroethene was detected in MW-2 at 16.0 ppb. The 2L Standard is 7.0 ppb.
- Cis-1,2-Dichloroethene was detected in MW-4 at 230.0 ppb. The 2L Standard is 70.0 ppb.
- Tetrachloroethene was detected in MW-2 at 13.0 ppb and MW-4 at 91.0 ppb. The 2L Standard is 0.7 ppb.
- Trichloroethene was detected in MW-2 at 19.0 ppb and MW-4 at 48.0 ppb. The 2L Standard is 2.8 ppb.

The following constituents were detected in concentrations below the 2L Standard.

- Chloroethane was detected in MW-4 at 15.0 ppb. The interim 2L Standard is 2800.0 ppb.

- 1,1-Dichloroethene was detected in MW-2 at 65.0 ppb and in MW-4 at 38.0 ppb. The 2L Standard is 700.0 ppb.

- Cis-1,2-Dichloroethene was detected in MW-2 at 13.0 ppb. The 2L Standard is 70.0 ppb.

- 1,1,1-Trichloroethane was detected in MW-2 at 7.0 ppb. The 2L Standard is 200.0 ppb.

- Barium was detected in MW-2 at 0.331 ppm, MW-3 at 0.300 ppm, MW-7B at 0.326 ppm, and MW-8B at 1.090 ppm. The 2L Standard is 2.0 ppm.

- Cadmium was detected in MW-8A at 0.001 ppm. The 2L Standard is 0.005 ppm.

- Chromium was detected in MW-2 at 0.025 ppm, MW-3 at 0.038 ppm, MW-5 at 0.033 ppm, MW-6 at 0.019 ppm, MW-7B at 0.020 ppm, and MW-8B at 0.016 ppm. The 2L Standard in 0.05 ppm.

- Copper was detected in MW-3 at 0.058 ppm, MW-5 at 0.038 ppm, and MW-7B at 0.037 ppm. The 2L Standard is 1.0 ppm.

- Lead was detected in MW-1 at 0.014 ppm, MW-3 at 0.006 ppm, MW-4 at 0.007 ppm, MW-5 at 0.009 ppm, MW-6 at 0.004 ppm, MW-7A at 0.006 ppm, MW-7B at 0.007 ppm, MW-8B at 0.014 ppm, and MW-9 at 0.004 ppm. The 2L Standard is 0.015 ppm.

- Mercury was detected in MW-4 at 0.0003 ppm. The 2L Standard is 0.0011 ppm.

- Zinc was detected in MW-1 at 0.063 ppm, MW-2 at 0.070 ppm, MW-3 at 0.076 ppm, MW-4 at 0.024 ppm, MW-5 at 0.047 ppm, MW-6 at 0.066 ppm, MW-7B at 0.116 ppm, MW-8B at 0.491 ppm, and MW-9 at 0.025 ppm. The 2L Standard is 2.1 ppm.

No 2L Standards have been set for the following naturally occurring constituents that were found in detectable concentrations. The practical quantitation limits of the analyses do not serve as standards for naturally occurring constituents.

- Beryllium was detected in MW-8B at 0.005 ppm.

- Cobalt was detected in MW-8B at 0.052 ppm.

- Vanadium was detected in MW-2 at 0.088 ppm, MW-3 at 0.104 ppm, MW-4 at 0.056 ppm, MW-5 at 0.086 ppm, MW-7B at 0.110 ppm, and MW-8B at 0.120 ppm.

5.2 Surface Water

There were no inorganic or volatile organic constituents detected in either of the surface water samples.

6.0 REFERENCES

North Carolina Administrative Code, Title 15A, Department of Environment, Health and Natural Resources, Division of Environmental Management, Subchapter 2L, Classifications and Water Quality Standards Applicable to the Groundwaters of North Carolina, Sections .0100, .0200, and .0300 (November 8, 1993); from the Environmental Management Commission, Raleigh, North Carolina.

North Carolina Administrative Code, Title 15A, Department of Environment, Health and Natural Resources, Division of Environmental Management, Subchapter 2B, Classifications and Water Quality Standards Applicable to the Surface Waters of North Carolina, Section .0200 (April 1, 1991); from the Environmental Management Commission, Raleigh, North Carolina.

North Carolina Administrative Code, Title 15A, Department of Environment, Health and Natural Resources, Division of Solid Waste Management, Subchapter 13B, Solid Waste Management, Section .1600 (January 4, 1994).

TABLE 1
GROUND AND SURFACE WATER FIELD SAMPLING DATA
SWEPSONVILLE LANDFILL
OCTOBER 10-11, 1995

Field Parameter	Sample No.							
	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7A	MW-7B
Temperature	68.9°F	69.5°F	64.7°F	71.4°F	61.3°F	61.9°F	65.0°F	69.6°F
Specific Conductance	238 μMHOs	308 μMHOs	171 μMHOs	723 μMHOs	164 μMHOs	255 μMHOs	158 μMHOs	187 μMHOs
pH	7.34	6.33	6.88	6.38	6.97	6.82	7.01	6.49

Field Parameter	Sample No.				
	MW-8A	MW-8B	MW-9	SW-1	SW-2
Temperature	60.6°F	62.1°F	60.1°F	63.2°F	65.4°F
Specific Conductance	76.5 μMHOs	87.5 μMHOs	112 μMHOs	336 μMHOs	143 μMHOs
pH	6.24	6.63	7.23	7.09	7.26

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TABLE 2
APPENDIX I INORGANIC ANALYSES PLUS MERCURY
SWEPSONVILLE LANDFILL
OCTOBER 10–11, 1995

Compound	Sample No.													15A NCAC 2L Standards for Class GA Ground Water	15A NCAC 2B Standards for Class B, C Surface Waters	Practical Quantitation Limit (PQL)
	MW–1	MW–2	MW–3	MW–4	MW–5	MW–6	MW–7A	MW–7B	MW–8A	MW–8B	MW–9	SW–1	SW–2			
Antimony, Total	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*		0.03
Arsenic, Total	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.05	0.05	0.01
Barium, Total	ND	0.331	0.300	ND	ND	ND	ND	0.326	ND	1.090	ND	ND	ND	2.0		0.5
Beryllium, Total	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	*	0.0065	0.002
Cadmium, Total	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	0.005	0.002	0.001
Chromium, Total	ND	0.025	0.038	ND	0.033	0.019	ND	0.020	ND	0.016	ND	ND	ND	0.05	0.05	0.01
Cobalt, Total	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.052	ND	ND	ND	*		0.01
Copper, Total	ND	ND	0.058	ND	0.038	ND	ND	0.037	ND	ND	ND	ND	ND	1.0		0.2
Lead, Total	0.014	ND	0.006	0.007	0.009	0.004	0.006	0.007	ND	0.014	0.004	ND	ND	0.015	0.025	0.01
Mercury, Total	ND	ND	ND	0.0003	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0011	0.000012	0.0005
Nickel, Total	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.1	0.088	0.05
Selenium, Total	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.05	0.005	0.02
Silver, Total	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.018		0.01
Thallium, Total	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*		0.01
Vanadium, Total	ND	0.088	0.104	0.056	0.086	ND	ND	0.110	ND	0.120	ND	ND	ND	*		0.04
Zinc, Total	0.063	0.070	0.076	0.024	0.047	0.066	ND	0.116	ND	0.491	0.025	ND	ND	2.1		0.05

Notes:
- All results expressed in parts per million (ppm)
- ND – Not detected (<PQL)
- * – No NC 15A NCAC 2L Standard has been established for these constituents
- Shaded blocks denote concentrations or measured parameters that do not meet NC 15A NCAC 2L Standards for Class GA Groundwater (MW data) or NC 15A NCAC 2B Standards for Class B surface waters (SW data)

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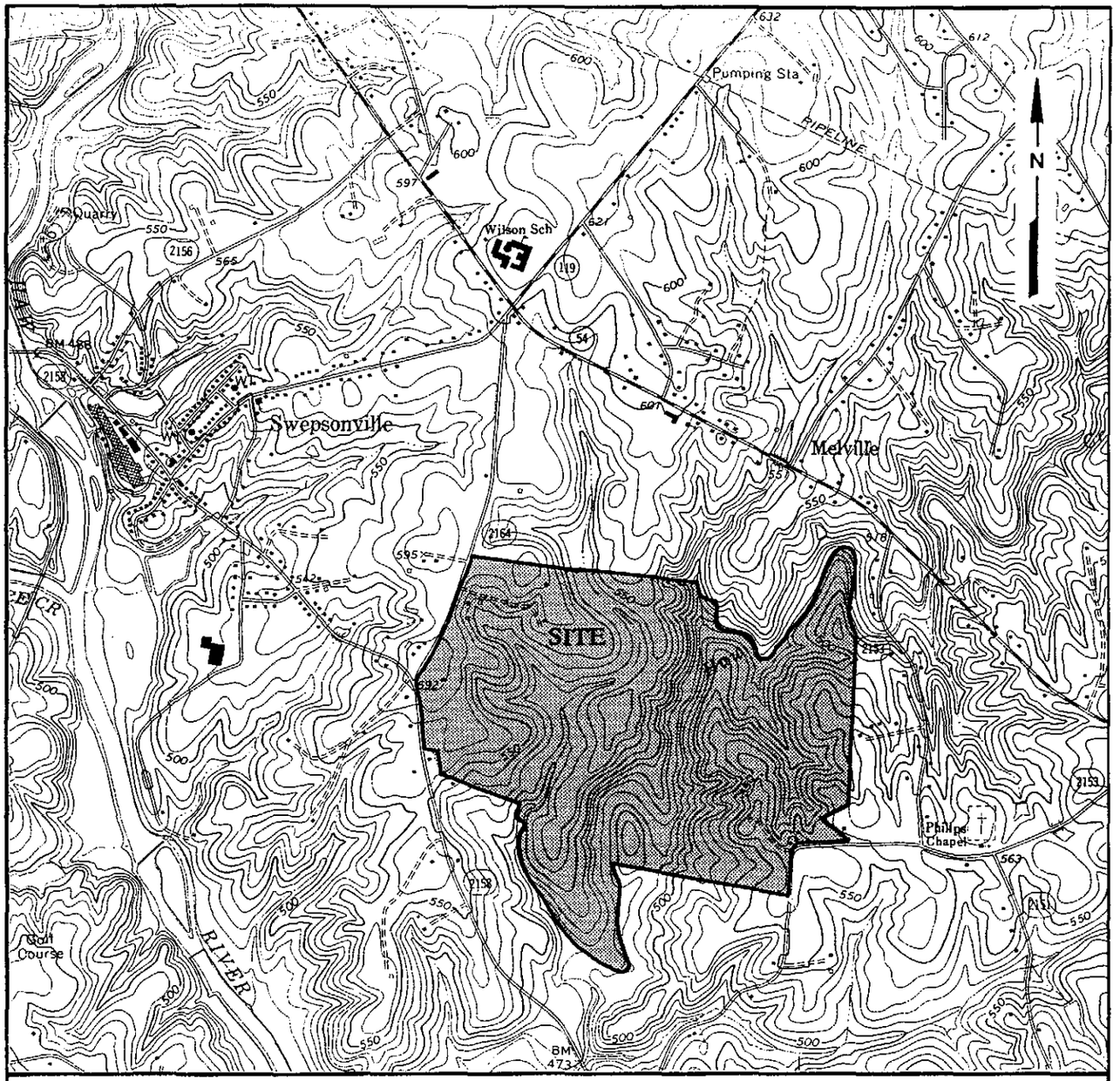

MEBANE QUADRANGLE
NORTH CAROLINA
USGS 7.5 MINUTE TOPOGRAPHIC SERIES
1969

1000 0 2000 3000
SCALE IN FEET

SWEPSONVILLE LANDFILL
ALAMANCE COUNTY, NORTH CAROLINA

BPA Environmental & Engineering, Inc.

SITE LOCATION MAP

FIGURE 1

BPA ENVIRONMENTAL & ENGINEERING, INC.

GROUND WATER SAMPLING FIELD DATA

Location Swepsonville Landfill

Date October 11, 1995

Source/Well MW-1

Time 7:40 am

Sampled by James Roberts

Weather Sunny, upper 60s

GROUNDWATER ELEVATION

1) Depth to water from measuring point 24.98 ft.

2) Depth to well bottom from measuring point 33.65 ft.

3) Height of water column 8.67 ft.

4) Measuring point description Top of PVC Casing

WELL PURGING AND SAMPLE COLLECTION

1) Volume of water in well
   a) 2" well . . . . (v = 0.163 x h)
   b) 4" well . . . . (v = 0.651 x h) 1.41 gal.

2) Volume of water removed prior to sampling 2.0 gal.

3) Was well pumped DRY? (circle one) YES NO

FIELD ANALYSIS

1) Temperature 68.9°F

2) Specific Conductance 238 μmhos

3) pH 7.34

4) Physical Appearance and Odor Tan, no odor

BPA ENVIRONMENTAL & ENGINEERING, INC.

GROUND WATER SAMPLING FIELD DATA

Location Swepsonville Landfill

Date October 10, 1995

Source/Well MW-2

Time 12:55 pm

Sampled by James Roberts

Weather Sunny, 70s

GROUNDWATER ELEVATION

1) Depth to water from measuring point 26.49 ft.

2) Depth to well bottom from measuring point 29.30 ft.

3) Height of water column 2.81 ft.

4) Measuring point description Top of PVC Casing

WELL PURGING AND SAMPLE COLLECTION

1) Volume of water in well
   a) 2" well . . . . (v = 0.163 x h)
   b) 4" well . . . . (v = 0.651 x h) .45 gal.

2) Volume of water removed prior to sampling .25 gal.

3) Was well pumped DRY? (circle one) YES NO

FIELD ANALYSIS

1) Temperature 69.5°F

2) Specific Conductance 308 μmhos

3) pH 6.33

4) Physical Appearance and Odor Tan, no odor

BPA ENVIRONMENTAL & ENGINEERING, INC.

GROUND WATER SAMPLING FIELD DATA

Location Swepsonville Landfill

Date October 10, 1995

Source/Well MW-3

Time 11:45 am

Sampled by James Roberts

Weather Sunny, 70s

GROUNDWATER ELEVATION

1) Depth to water from measuring point 8.29 ft.

2) Depth to well bottom from measuring point 23.90 ft.

3) Height of water column 15.61 ft.

4) Measuring point description Top of PVC Casing

WELL PURGING AND SAMPLE COLLECTION

1) Volume of water in well
   a) 2" well . . . . (v = 0.163 x h)
   b) 4" well . . . . (v = 0.651 x h) 2.54 gal.

2) Volume of water removed prior to sampling 12.0 gal.

3) Was well pumped DRY? (circle one) YES NO

FIELD ANALYSIS

1) Temperature 64.7°F

2) Specific Conductance 171 μmhos

3) pH 6.88

4) Physical Appearance and Odor Brown, no odor

BPA ENVIRONMENTAL & ENGINEERING, INC.

GROUND WATER SAMPLING FIELD DATA

Location Swepsonville Landfill

Date October 10, 1995

Source/Well MW-4

Time 4:55 pm

Sampled by James Roberts

Weather Partly sunny

GROUNDWATER ELEVATION

1) Depth to water from measuring point 35.37 ft.

2) Depth to well bottom from measuring point 49.90 ft.

3) Height of water column 14.53 ft.

4) Measuring point description Top of PVC Casing

WELL PURGING AND SAMPLE COLLECTION

1) Volume of water in well
   a) 2" well . . . . (v = 0.163 x h)
   b) 4" well . . . . (v = 0.651 x h) 2.36 gal.

2) Volume of water removed prior to sampling 7.5 gal.

3) Was well pumped DRY? (circle one) YES NO

FIELD ANALYSIS

1) Temperature 71.4°F

2) Specific Conductance 723 μmhos

3) pH 6.38

4) Physical Appearance and Odor Clearish, no odor

BPA ENVIRONMENTAL & ENGINEERING, INC.

GROUND WATER SAMPLING FIELD DATA

Location Swepsonville Landfill

Date October 11, 1995

Source/Well MW-5

Time 8:30 am

Sampled by James Roberts

Weather Foggy, lower 60s

GROUNDWATER ELEVATION

1) Depth to water from measuring point 15.09 ft.

2) Depth to well bottom from measuring point 19.40 ft.

3) Height of water column 4.31 ft.

4) Measuring point description Top of PVC Casing

WELL PURGING AND SAMPLE COLLECTION

1) Volume of water in well
   a) 2" well . . . . (v = 0.163 x h)
   b) 4" well . . . . (v = 0.651 x h) .70 gal.

2) Volume of water removed prior to sampling .5 gal.

3) Was well pumped DRY? (circle one) YES NO

FIELD ANALYSIS

1) Temperature 61.3°F

2) Specific Conductance 164 μmhos

3) pH 6.97

4) Physical Appearance and Odor Brown, no odor

BPA ENVIRONMENTAL & ENGINEERING, INC.

GROUND WATER SAMPLING FIELD DATA

Location Swepsonville Landfill

Date October 11, 1995

Source/Well MW-6

Time 9:25 am

Sampled by James Roberts

Weather Partly Sunny, mid 60s

GROUNDWATER ELEVATION

1) Depth to water from measuring point 21.30 ft.

2) Depth to well bottom from measuring point 52.66 ft.

3) Height of water column 31.36 ft.

4) Measuring point description Top of PVC Casing

WELL PURGING AND SAMPLE COLLECTION

1) Volume of water in well
   a) 2" well . . . . (v = 0.163 x h)
   b) 4" well . . . . (v = 0.651 x h) 5.11 gal.

2) Volume of water removed prior to sampling 15.5 gal.

3) Was well pumped DRY? (circle one) YES NO

FIELD ANALYSIS

1) Temperature 61.9°F

2) Specific Conductance 255 μmhos

3) pH 6.82

4) Physical Appearance and Odor Clearish, no odor

BPA ENVIRONMENTAL & ENGINEERING, INC.

GROUND WATER SAMPLING FIELD DATA

Location Swepsonville Landfill

Date October 10, 1995

Source/Well MW-7A

Time 2:30 pm

Sampled by James Roberts

Weather Sunny, 70s

GROUNDWATER ELEVATION

1) Depth to water from measuring point 26.81 ft.

2) Depth to well bottom from measuring point 63.31 ft.

3) Height of water column 36.5 ft.

4) Measuring point description Top of PVC Casing

WELL PURGING AND SAMPLE COLLECTION

1) Volume of water in well
   a) 2" well . . . . (v = 0.163 x h)
   b) 4" well . . . . (v = 0.651 x h) 5.94 gal.

2) Volume of water removed prior to sampling 18 gal.

3) Was well pumped DRY? (circle one) YES NO

FIELD ANALYSIS

1) Temperature 65.0°F

2) Specific Conductance 158 μmhos

3) pH 7.01

4) Physical Appearance and Odor Clear, no odor

BPA ENVIRONMENTAL & ENGINEERING, INC.

GROUND WATER SAMPLING FIELD DATA

Location Swepsonville Landfill

Date October 10, 1995

Source/Well MW-7B

Time 2:15 pm

Sampled by James Roberts

Weather Sunny, 70s

GROUNDWATER ELEVATION

1) Depth to water from measuring point 26.19 ft.

2) Depth to well bottom from measuring point 32.55 ft.

3) Height of water column 6.36 ft.

4) Measuring point description Top of PVC Casing

WELL PURGING AND SAMPLE COLLECTION

1) Volume of water in well
   a) 2" well . . . . (v = 0.163 x h)
   b) 4" well . . . . (v = 0.651 x h) 1.03 gal.

2) Volume of water removed prior to sampling 1.5 gal.

3) Was well pumped DRY? (circle one) YES NO

FIELD ANALYSIS

1) Temperature 69.6°F

2) Specific Conductance 187 μmhos

3) pH 6.49

4) Physical Appearance and Odor Brown, no odor

BPA ENVIRONMENTAL & ENGINEERING, INC.

GROUND WATER SAMPLING FIELD DATA

Location Swepsonville Landfill

Date October 11, 1995

Source/Well MW-8A

Time 10:40 am

Sampled by James Roberts

Weather Partly Sunny, upper 60s

GROUNDWATER ELEVATION

1) Depth to water from measuring point 24.16 ft.

2) Depth to well bottom from measuring point 63.31 ft.

3) Height of water column 39.15 ft.

4) Measuring point description Top of PVC Casing

WELL PURGING AND SAMPLE COLLECTION

1) Volume of water in well
   a) 2" well . . . . (v = 0.163 x h)
   b) 4" well . . . . (v = 0.651 x h) 6.38 gal.

2) Volume of water removed prior to sampling 20.0 gal.

3) Was well pumped DRY? (circle one) YES (NO)

FIELD ANALYSIS

1) Temperature 60.6°F

2) Specific Conductance 76.5 μmhos

3) pH 6.24

4) Physical Appearance and Odor Clear, no odor

BPA ENVIRONMENTAL & ENGINEERING, INC.

GROUND WATER SAMPLING FIELD DATA

Location Swepsonville Landfill

Date October 11, 1995

Source/Well MW-8B

Time 10:50 am

Sampled by James Roberts

Weather Partly Sunny, upper 60s

GROUNDWATER ELEVATION

1) Depth to water from measuring point 23.57 ft.

2) Depth to well bottom from measuring point 25.80 ft.

3) Height of water column 2.23 ft.

4) Measuring point description Top of PVC Casing

WELL PURGING AND SAMPLE COLLECTION

1) Volume of water in well
   a) 2" well . . . . (v = 0.163 x h)
   b) 4" well . . . . (v = 0.651 x h) .36 gal.

2) Volume of water removed prior to sampling .5 gal.

3) Was well pumped DRY? (circle one) YES NO

FIELD ANALYSIS

1) Temperature 62.1°F

2) Specific Conductance 87.5 μmhos

3) pH 6.63

4) Physical Appearance and Odor Brown, no odor

BPA ENVIRONMENTAL & ENGINEERING, INC.

GROUND WATER SAMPLING FIELD DATA

Location Swepsonville Landfill

Date October 11, 1995

Source/Well MW-9

Time 7:15 am

Sampled by James Roberts

Weather Partly sunny, upper 60s

GROUNDWATER ELEVATION

1) Depth to water from measuring point 17.0 ft.

2) Depth to well bottom from measuring point 27.25 ft.

3) Height of water column 10.25 ft.

4) Measuring point description Top of PVC Casing

WELL PURGING AND SAMPLE COLLECTION

1) Volume of water in well
   a) 2" well . . . . (v = 0.163 x h)
   b) 4" well . . . . (v = 0.651 x h) 1.67 gal.

2) Volume of water removed prior to sampling 5.5 gal.

3) Was well pumped DRY? (circle one) YES NO

FIELD ANALYSIS

1) Temperature 60.1°F

2) Specific Conductance 112 μmhos

3) pH 7.23

4) Physical Appearance and Odor Tan, no odor

BPA ENVIRONMENTAL & ENGINEERING, INC.

GROUND WATER SAMPLING FIELD DATA

Location Swepsonville Landfill

Date October 11, 1995

Source/Well SW-1

Time 9:40 am

Sampled by James Roberts

Weather

FIELD ANALYSIS

1)	Temperature	63.2°F
2)	Specific Conductance	366 μmhos
3)	pH	7.09
4)	Physical Appearance and Odor	Clearish

BPA ENVIRONMENTAL & ENGINEERING, INC.

GROUND WATER SAMPLING FIELD DATA

Location Swepsonville Landfill

Date October 10, 1995

Source/Well SW-2

Time 11:25 am

Sampled by James Roberts

Weather

FIELD ANALYSIS

1) Temperature 65.4°F

2) Specific Conductance 143 μmhos

3) pH 7.26

4) Physical Appearance and Odor Cloudy

IEA, Inc.
P.O. Box 12846
Research Triangle Park,
NC 27709

919.677 0090
919.677 8702 Fax

IEA
An Aquarion Company

OCT 1995
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October 27, 1995

Wes Scarlett
BPA Environmental & Engineering, Inc.
2641-G Randleman Road
Greensboro, NC 27406

IEA Project No.: 631874/9510306
IEA Reference No.: W9510132
Client Project I.D.: 170.010

Dear Mr. Scarlett,

Transmitted herewith are the results of analyses on fourteen samples submitted to our laboratory.

The samples were received intact.

Analyses were performed according to approved methodologies and meet the requirements of the IEA Quality Assurance Program except where noted. Please see the enclosed reports for your results and a copy of the Chain of Custody documentation.

Thank you for selecting IEA for your sample analysis. Please do not hesitate to call me at 1-919-677-0090 or 1-800-444-9919 should you have any questions regarding this report. We look forward to serving you in the future.

Very truly yours,

IEA, Inc.

R. Lopez for
Edward C. Braunsdorf
Project Manager

IEA
An Aquarion Company

IEA-NORTH CAROLINA CERTIFICATIONS

Certifying State	Program Type	Lab ID #
Alabama	DW	40210
California	DW, WW, HW Radiolog.	I-1035,1768, I-1047 I-1018 (Rad)
Connecticut	DW, WW	PH-0135
Florida	DW WW (CompQAP)	87350 E87439 QAP#930007G
Georgia	DW	None
Kansas	DW, HW, WW	E-158 (DW, WW) E-1189 (HW)
Kentucky	DW	90049
Massachusetts	DW, WW	M-NC039
New Jersey	DW, WW Radiolog.	67719 67681
New York	Radiolog.	11422
North Carolina	DW WW Radiolog.	DW 37720 WW 84 Rad 37720
Ohio	Voluntary Action Program	CL00021
South Carolina	DW WW HW	99021
Tennessee	DW UST App List	02914
Utah	Radiolog. RCRA	E-206 E-226
Virginia	DW	00179
West Virginia	DW	9908C
Wisconsin	WW	998051010

DW=Drinking Water WW=Wastewater HW=Hazardous Waste Radiolog.=Radiological

Rev4.07/95

Industrial & Environmental Analysts, Inc. (IEA)
Level 2 Metals Results Report

IEA Project #: 631_874
IEA Sample #: 9510306 01
Client Name: BPA ENVIRONMENTAL & ENG., INC
Client Proj. I.D.: 170.010
Sample I.D.: MW-1

Matrix: WATER
Date Received: 11-OCT-95
Date Sampled: 11-OCT-95

Parameter	Method	Quant Limit	Result (ug/l)	Date Prepared	Date Analyzed	Analyst	IEA Run
ANTIMONY	SW-846 6010	30.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
ARSENIC	SW-846 6010	10.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
BARIUM	SW-846 6010	200.	BQL	16-OCT-95	17-OCT-95	FXW	R1379
BERYLLIUM	SW-846 6010	2.00	BQL	16-OCT-95	17-OCT-95	FXW	R1379
CADMIUM	SW-846 6010	1.00	BQL	16-OCT-95	17-OCT-95	FXW	R1379
CHROMIUM	SW-846 6010	10.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
COBALT	SW-846 6010	10.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
COPPER	SW-846 6010	200.	BQL	16-OCT-95	17-OCT-95	FXW	R1379
LEAD	SW-846 6010	10.0	13.7	16-OCT-95	17-OCT-95	FXW	R1379
MERCURY	SW-846 7470	1.00	BQL	16-OCT-95	17-OCT-95	MLH	R1456
NICKEL	SW-846 6010	50.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
SELENIUM	SW-846 6010	20.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
SILVER	SW-846 6010	10.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
THALLIUM	SW-846 6010	10.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
VANADIUM	SW-846 6010	40.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
ZINC	SW-846 6010	50.0	63.0	16-OCT-95	17-OCT-95	FXW	R1379

Comments:

Industrial & Environmental Analysts, Inc. (IEA)
Level 2 Metals Results Report

IEA Project #: 631_874
IEA Sample #: 9510306Ø2
Client Name: BPA ENVIRONMENTAL & ENG., INC
Client Proj. I.D.: 17Ø.Ø1Ø
Sample I.D.: MW-2

Matrix: WATER
Date Received: 11-OCT-95
Date Sampled: 1Ø-OCT-95

Parameter	Method	Quant Limit	Result (ug/l)	Date Prepared	Date Analyzed	Analyst	IEA Run
ANTIMONY	SW-846 6Ø1Ø	3Ø.Ø	BQL	16-OCT-95	17-OCT-95	FXW	R1379
ARSENIC	SW-846 6Ø1Ø	1Ø.Ø	BQL	16-OCT-95	17-OCT-95	FXW	R1379
BARIUM	SW-846 6Ø1Ø	5ØØ.	331.	16-OCT-95	17-OCT-95	FXW	R1379
BERYLLIUM	SW-846 6Ø1Ø	2.ØØ	BQL	16-OCT-95	17-OCT-95	FXW	R1379
CADMIUM	SW-846 6Ø1Ø	1.ØØ	BQL	16-OCT-95	17-OCT-95	FXW	R1379
CHROMIUM	SW-846 6Ø1Ø	1Ø.Ø	25.3	16-OCT-95	17-OCT-95	FXW	R1379
COBALT	SW-846 6Ø1Ø	1Ø.Ø	BQL	16-OCT-95	17-OCT-95	FXW	R1379
COPPER	SW-846 6Ø1Ø	2ØØ.	BQL	16-OCT-95	17-OCT-95	FXW	R1379
LEAD	SW-846 6Ø1Ø	1Ø.Ø	BQL	16-OCT-95	17-OCT-95	FXW	R1379
MERCURY	SW-846 747Ø	1.ØØ	BQL	16-OCT-95	17-OCT-95	MLH	R1456
NICKEL	SW-846 6Ø1Ø	5Ø.Ø	BQL	16-OCT-95	17-OCT-95	FXW	R1379
SELENIUM	SW-846 6Ø1Ø	2Ø.Ø	BQL	16-OCT-95	17-OCT-95	FXW	R1379
SILVER	SW-846 6Ø1Ø	1Ø.Ø	BQL	16-OCT-95	17-OCT-95	FXW	R1379
THALLIUM	SW-846 6Ø1Ø	1Ø.Ø	BQL	16-OCT-95	17-OCT-95	FXW	R1379
VANADIUM	SW-846 6Ø1Ø	4Ø.Ø	87.7	16-OCT-95	17-OCT-95	FXW	R1379
ZINC	SW-846 6Ø1Ø	5Ø.Ø	69.9	16-OCT-95	17-OCT-95	FXW	R1379

Comments:

Industrial & Environmental Analysts, Inc. (IEA)
Level 2 Metals Results Report

IEA Project #: 631_874
IEA Sample #: 9510306 03
Client Name: BPA ENVIRONMENTAL & ENG., INC
Client Proj. I.D.: 170.010
Sample I.D.: MW-3

Matrix: WATER
Date Received: 11-OCT-95
Date Sampled: 10-OCT-95

Parameter	Method	Quant Limit	Result (ug/l)	Date Prepared	Date Analyzed	Analyst	IEA Run
ANTIMONY	SW-846 6010	30.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
ARSENIC	SW-846 6010	10.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
BARIUM	SW-846 6010	500.	300.	16-OCT-95	17-OCT-95	FXW	R1379
BERYLLIUM	SW-846 6010	2.00	BQL	16-OCT-95	17-OCT-95	FXW	R1379
CADMIUM	SW-846 6010	1.00	BQL	16-OCT-95	17-OCT-95	FXW	R1379
CHROMIUM	SW-846 6010	10.0	37.7	16-OCT-95	17-OCT-95	FXW	R1379
COBALT	SW-846 6010	10.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
COPPER	SW-846 6010	200.	58.4	16-OCT-95	17-OCT-95	FXW	R1379
LEAD	SW-846 6010	10.0	6.11	16-OCT-95	17-OCT-95	FXW	R1379
MERCURY	SW-846 7470	1.00	BQL	16-OCT-95	17-OCT-95	MLH	R1456
NICKEL	SW-846 6010	50.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
SELENIUM	SW-846 6010	20.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
SILVER	SW-846 6010	10.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
THALLIUM	SW-846 6010	10.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
VANADIUM	SW-846 6010	40.0	104.	16-OCT-95	17-OCT-95	FXW	R1379
ZINC	SW-846 6010	50.0	76.3	16-OCT-95	17-OCT-95	FXW	R1379

Comments:

Industrial & Environmental Analysts, Inc. (IEA)
Level 2 Metals Results Report

IEA Project #: 631_874
IEA Sample #: 951030604
Client Name: BPA ENVIRONMENTAL & ENG., INC
Client Proj. I.D.: 170.010
Sample I.D.: MW-4

Matrix: WATER
Date Received: 11-OCT-95
Date Sampled: 10-OCT-95

Parameter	Method	Quant Limit	Result (ug/l)	Date Prepared	Date Analyzed	Analyst	IEA Run
ANTIMONY	SW-846 6010	30.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
ARSENIC	SW-846 6010	10.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
BARIUM	SW-846 6010	500.	BQL	16-OCT-95	17-OCT-95	FXW	R1379
BERYLLIUM	SW-846 6010	2.00	BQL	16-OCT-95	17-OCT-95	FXW	R1379
CADMIUM	SW-846 6010	1.00	BQL	16-OCT-95	17-OCT-95	FXW	R1379
CHROMIUM	SW-846 6010	10.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
COBALT	SW-846 6010	50.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
COPPER	SW-846 6010	200.	BQL	16-OCT-95	17-OCT-95	FXW	R1379
LEAD	SW-846 6010	10.0	7.45	16-OCT-95	17-OCT-95	FXW	R1379
MERCURY	SW-846 7470	1.00	0.271	16-OCT-95	17-OCT-95	MLH	R1456
NICKEL	SW-846 6010	50.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
SELENIUM	SW-846 6010	20.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
SILVER	SW-846 6010	10.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
THALLIUM	SW-846 6010	10.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
VANADIUM	SW-846 6010	40.0	56.0	16-OCT-95	17-OCT-95	FXW	R1379
ZINC	SW-846 6010	50.0	24.4	16-OCT-95	17-OCT-95	FXW	R1379

Comments:

Industrial & Environmental Analysts, Inc. (IEA)
Level 2 Metals Results Report

IEA Project #: 631_874
IEA Sample #: 951030605 Matrix: WATER
Client Name: BPA ENVIRONMENTAL & ENG., INC Date Received: 11-OCT-95
Client Proj. I.D.: 170.010 Date Sampled: 11-OCT-95
Sample I.D.: MW-5

Parameter	Method	Quant Limit	Result (ug/l)	Date Prepared	Date Analyzed	Analyst	IEA Run
ANTIMONY	SW-846 6010	30.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
ARSENIC	SW-846 6010	10.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
BARIUM	SW-846 6010	500.	BQL	16-OCT-95	17-OCT-95	FXW	R1379
BERYLLIUM	SW-846 6010	2.00	BQL	16-OCT-95	17-OCT-95	FXW	R1379
CADMIUM	SW-846 6010	1.00	BQL	16-OCT-95	17-OCT-95	FXW	R1379
CHROMIUM	SW-846 6010	10.0	32.5	16-OCT-95	17-OCT-95	FXW	R1379
COBALT	SW-846 6010	10.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
COPPER	SW-846 6010	200.	38.1	16-OCT-95	17-OCT-95	FXW	R1379
LEAD	SW-846 6010	10.0	9.29	16-OCT-95	17-OCT-95	FXW	R1379
MERCURY	SW-846 7470	1.00	BQL	16-OCT-95	17-OCT-95	MLH	R1456
NICKEL	SW-846 6010	50.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
SELENIUM	SW-846 6010	20.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
SILVER	SW-846 6010	10.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
THALLIUM	SW-846 6010	10.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
VANADIUM	SW-846 6010	40.0	86.1	16-OCT-95	17-OCT-95	FXW	R1379
ZINC	SW-846 6010	50.0	47.2	16-OCT-95	17-OCT-95	FXW	R1379

Comments:

Industrial & Environmental Analysts, Inc. (IEA)
Level 2 Metals Results Report

IEA Project #: 631_874
IEA Sample #: 9510306 06
Client Name: BPA ENVIRONMENTAL & ENG., INC
Client Proj. I.D.: 170.010
Sample I.D.: MW-6

Matrix: WATER
Date Received: 11-OCT-95
Date Sampled: 11-OCT-95

Parameter	Method	Quant Limit	Result (ug/l)	Date Prepared	Date Analyzed	Analyst	IEA Run
ANTIMONY	SW-846 6010	30.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
ARSENIC	SW-846 6010	10.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
BARIUM	SW-846 6010	500.	BQL	16-OCT-95	17-OCT-95	FXW	R1379
BERYLLIUM	SW-846 6010	2.00	BQL	16-OCT-95	17-OCT-95	FXW	R1379
CADMIUM	SW-846 6010	1.00	BQL	16-OCT-95	17-OCT-95	FXW	R1379
CHROMIUM	SW-846 6010	10.0	18.7	16-OCT-95	17-OCT-95	FXW	R1379
COBALT	SW-846 6010	10.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
COPPER	SW-846 6010	200.	BQL	16-OCT-95	17-OCT-95	FXW	R1379
LEAD	SW-846 6010	10.0	3.91	16-OCT-95	17-OCT-95	FXW	R1379
MERCURY	SW-846 7470	1.00	BQL	16-OCT-95	17-OCT-95	MLH	R1456
NICKEL	SW-846 6010	50.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
SELENIUM	SW-846 6010	20.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
SILVER	SW-846 6010	10.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
THALLIUM	SW-846 6010	10.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
VANADIUM	SW-846 6010	40.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
ZINC	SW-846 6010	50.0	66.0	16-OCT-95	17-OCT-95	FXW	R1379

Comments:

Industrial & Environmental Analysts, Inc. (IEA)
Level 2 Metals Results Report

IEA Project #: 631_874
IEA Sample #: 951030607
Client Name: BPA ENVIRONMENTAL & ENG., INC
Client Proj. I.D.: 170.010
Sample I.D.: MW-7A

Matrix: WATER
Date Received: 11-OCT-95
Date Sampled: 10-OCT-95

Parameter	Method	Quant Limit	Result (ug/l)	Date Prepared	Date Analyzed	Analyst	IEA Run
ANTIMONY	SW-846 6010	30.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
ARSENIC	SW-846 6010	10.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
BARIUM	SW-846 6010	500.	BQL	16-OCT-95	17-OCT-95	FXW	R1379
BERYLLIUM	SW-846 6010	2.00	BQL	16-OCT-95	17-OCT-95	FXW	R1379
CADMIUM	SW-846 6010	1.00	BQL	16-OCT-95	17-OCT-95	FXW	R1379
CHROMIUM	SW-846 6010	10.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
COBALT	SW-846 6010	50.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
COPPER	SW-846 6010	200.	BQL	16-OCT-95	17-OCT-95	FXW	R1379
LEAD	SW-846 6010	10.0	5.86	16-OCT-95	17-OCT-95	FXW	R1379
MERCURY	SW-846 7470	1.00	BQL	16-OCT-95	17-OCT-95	MLH	R1456
NICKEL	SW-846 6010	50.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
SELENIUM	SW-846 6010	20.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
SILVER	SW-846 6010	10.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
THALLIUM	SW-846 6010	10.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
VANADIUM	SW-846 6010	40.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
ZINC	SW-846 6010	50.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379

Comments:

Industrial & Environmental Analysts, Inc. (IEA)
Level 2 Metals Results Report

IEA Project #: 631_874
IEA Sample #: 9510306Ø8
Client Name: BPA ENVIRONMENTAL & ENG., INC
Client Proj. I.D.: 17Ø.ØØ1Ø
Sample I.D.: MW-7B

Matrix: WATER
Date Received: 11-OCT-95
Date Sampled: 1Ø-OCT-95

Parameter	Method	Quant Limit	Result (ug/l)	Date Prepared	Date Analyzed	Analyst	IEA Run
ANTIMONY	SW-846 6Ø1Ø	3Ø.Ø	BQL	16-OCT-95	17-OCT-95	FXW	R1379
ARSENIC	SW-846 6Ø1Ø	1Ø.Ø	BQL	16-OCT-95	17-OCT-95	FXW	R1379
BARIUM	SW-846 6Ø1Ø	5ØØ.	326.	16-OCT-95	17-OCT-95	FXW	R1379
BERYLLIUM	SW-846 6Ø1Ø	2.ØØ	BQL	16-OCT-95	17-OCT-95	FXW	R1379
CADMIUM	SW-846 6Ø1Ø	1.ØØ	BQL	16-OCT-95	17-OCT-95	FXW	R1379
CHROMIUM	SW-846 6Ø1Ø	1Ø.Ø	2Ø.Ø	16-OCT-95	17-OCT-95	FXW	R1379
COBALT	SW-846 6Ø1Ø	1Ø.Ø	BQL	16-OCT-95	17-OCT-95	FXW	R1379
COPPER	SW-846 6Ø1Ø	2ØØ.	37.1	16-OCT-95	17-OCT-95	FXW	R1379
LEAD	SW-846 6Ø1Ø	1Ø.Ø	7.12	16-OCT-95	17-OCT-95	FXW	R1379
MERCURY	SW-846 747Ø	1.ØØ	BQL	16-OCT-95	17-OCT-95	MLH	R1456
NICKEL	SW-846 6Ø1Ø	5Ø.Ø	BQL	16-OCT-95	17-OCT-95	FXW	R1379
SELENIUM	SW-846 6Ø1Ø	2Ø.Ø	BQL	16-OCT-95	17-OCT-95	FXW	R1379
SILVER	SW-846 6Ø1Ø	1Ø.Ø	BQL	16-OCT-95	17-OCT-95	FXW	R1379
THALLIUM	SW-846 6Ø1Ø	1Ø.Ø	BQL	16-OCT-95	17-OCT-95	FXW	R1379
VANADIUM	SW-846 6Ø1Ø	4Ø.Ø	11Ø.	16-OCT-95	17-OCT-95	FXW	R1379
ZINC	SW-846 6Ø1Ø	5Ø.Ø	116.	16-OCT-95	17-OCT-95	FXW	R1379

Comments:

Industrial & Environmental Analysts, Inc. (IEA)
Level 2 Metals Results Report

IEA Project #: 631_874
IEA Sample #: 9510306009 Matrix: WATER
Client Name: BPA ENVIRONMENTAL & ENG., INC Date Received: 11-OCT-95
Client Proj. I.D.: 170.010 Date Sampled: 11-OCT-95
Sample I.D.: MW-8A

Parameter	Method	Quant Limit	Result (ug/l)	Date Prepared	Date Analyzed	Analyst	IEA Run
ANTIMONY	SW-846 6010	30.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
ARSENIC	SW-846 6010	10.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
BARIUM	SW-846 6010	500.	BQL	16-OCT-95	17-OCT-95	FXW	R1379
BERYLLIUM	SW-846 6010	2.00	BQL	16-OCT-95	17-OCT-95	FXW	R1379
CADMIUM	SW-846 6010	1.00	1.16	16-OCT-95	17-OCT-95	FXW	R1379
CHROMIUM	SW-846 6010	10.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
COBALT	SW-846 6010	10.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
COPPER	SW-846 6010	200.	BQL	16-OCT-95	17-OCT-95	FXW	R1379
LEAD	SW-846 6010	10.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
MERCURY	SW-846 7470	1.00	BQL	16-OCT-95	17-OCT-95	MLH	R1456
NICKEL	SW-846 6010	50.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
SELENIUM	SW-846 6010	20.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
SILVER	SW-846 6010	10.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
THALLIUM	SW-846 6010	10.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
VANADIUM	SW-846 6010	40.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
ZINC	SW-846 6010	50.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379

Comments:

Industrial & Environmental Analysts, Inc. (IEA)
Level 2 Metals Results Report

IEA Project #: 631_874
IEA Sample #: 9510306 10
Client Name: BPA ENVIRONMENTAL & ENG., INC
Client Proj. I.D.: 170.010
Sample I.D.: MW-8B

Matrix: WATER
Date Received: 11-OCT-95
Date Sampled: 11-OCT-95

Parameter	Method	Quant Limit	Result (ug/l)	Date Prepared	Date Analyzed	Analyst	IEA Run
ANTIMONY	SW-846 6010	30.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
ARSENIC	SW-846 6010	10.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
BARIUM	SW-846 6010	500.	1090	16-OCT-95	17-OCT-95	FXW	R1379
BERYLLIUM	SW-846 6010	2.00	5.03	16-OCT-95	17-OCT-95	FXW	R1379
CADMIUM	SW-846 6010	1.00	BQL	16-OCT-95	17-OCT-95	FXW	R1379
CHROMIUM	SW-846 6010	10.0	16.3	16-OCT-95	17-OCT-95	FXW	R1379
COBALT	SW-846 6010	10.0	52.3	16-OCT-95	17-OCT-95	FXW	R1379
COPPER	SW-846 6010	200.	BQL	16-OCT-95	17-OCT-95	FXW	R1379
LEAD	SW-846 6010	10.0	14.2	16-OCT-95	17-OCT-95	FXW	R1379
MERCURY	SW-846 7470	1.00	BQL	16-OCT-95	17-OCT-95	MLH	R1456
NICKEL	SW-846 6010	50.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
SELENIUM	SW-846 6010	20.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
SILVER	SW-846 6010	10.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
THALLIUM	SW-846 6010	10.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
VANADIUM	SW-846 6010	40.0	120.	16-OCT-95	17-OCT-95	FXW	R1379
ZINC	SW-846 6010	50.0	491.	16-OCT-95	17-OCT-95	FXW	R1379

Comments:

Industrial & Environmental Analysts, Inc. (IEA)
Level 2 Metals Results Report

IEA Project #: 631_874
IEA Sample #: 9510306 11
Client Name: BPA ENVIRONMENTAL & ENG., INC
Client Proj. I.D.: 170.010
Sample I.D.: MW-9

Matrix: WATER
Date Received: 11-OCT-95
Date Sampled: 11-OCT-95

Parameter	Method	Quant Limit	Result (ug/l)	Date Prepared	Date Analyzed	Analyst	IEA Run
ANTIMONY	SW-846 6010	30.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
ARSENIC	SW-846 6010	10.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
BARIUM	SW-846 6010	500.	BQL	16-OCT-95	17-OCT-95	FXW	R1379
BERYLLIUM	SW-846 6010	2.00	BQL	16-OCT-95	17-OCT-95	FXW	R1379
CADMIUM	SW-846 6010	1.00	BQL	16-OCT-95	17-OCT-95	FXW	R1379
CHROMIUM	SW-846 6010	10.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
COBALT	SW-846 6010	10.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
COPPER	SW-846 6010	200.	BQL	16-OCT-95	17-OCT-95	FXW	R1379
LEAD	SW-846 6010	10.0	3.63	16-OCT-95	17-OCT-95	FXW	R1379
MERCURY	SW-846 7470	1.00	BQL	16-OCT-95	17-OCT-95	MLH	R1456
NICKEL	SW-846 6010	50.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
SELENIUM	SW-846 6010	20.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
SILVER	SW-846 6010	10.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
THALLIUM	SW-846 6010	10.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
VANADIUM	SW-846 6010	40.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
ZINC	SW-846 6010	50.0	25.0	16-OCT-95	17-OCT-95	FXW	R1379

Comments:

Industrial & Environmental Analysts, Inc. (IEA)
Level 2 Metals Results Report

IEA Project #: 631_874
IEA Sample #: 951030612
Client Name: BPA ENVIRONMENTAL & ENG., INC
Client Proj. I.D.: 170.010
Sample I.D.: SW-1

Matrix: WATER
Date Received: 11-OCT-95
Date Sampled: 11-OCT-95

Parameter	Method	Quant Limit	Result (ug/l)	Date Prepared	Date Analyzed	Analyst	IEA Run
ANTIMONY	SW-846 6010	30.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
ARSENIC	SW-846 6010	10.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
BARIUM	SW-846 6010	500.	BQL	16-OCT-95	17-OCT-95	FXW	R1379
BERYLLIUM	SW-846 6010	2.00	BQL	16-OCT-95	17-OCT-95	FXW	R1379
CADMIUM	SW-846 6010	1.00	BQL	16-OCT-95	17-OCT-95	FXW	R1379
CHROMIUM	SW-846 6010	10.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
COBALT	SW-846 6010	10.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
COPPER	SW-846 6010	200.	BQL	16-OCT-95	17-OCT-95	FXW	R1379
LEAD	SW-846 6010	10.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
MERCURY	SW-846 7470	1.00	BQL	16-OCT-95	17-OCT-95	MLH	R1456
NICKEL	SW-846 6010	50.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
SELENIUM	SW-846 6010	20.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
SILVER	SW-846 6010	10.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
THALLIUM	SW-846 6010	10.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
VANADIUM	SW-846 6010	40.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
ZINC	SW-846 6010	50.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379

Comments:

Industrial & Environmental Analysts, Inc. (IEA)
Level 2 Metals Results Report

IEA Project #: 631_874
IEA Sample #: 951030613
Client Name: BPA ENVIRONMENTAL & ENG., INC
Client Proj. I.D.: 170.010
Sample I.D.: SW-2

Matrix: WATER
Date Received: 11-OCT-95
Date Sampled: 10-OCT-95

Parameter	Method	Quant Limit	Result (ug/l)	Date Prepared	Date Analyzed	Analyst	IEA Run
ANTIMONY	SW-846 6010	30.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
ARSENIC	SW-846 6010	10.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
BARIUM	SW-846 6010	500.	BQL	16-OCT-95	17-OCT-95	FXW	R1379
BERYLLIUM	SW-846 6010	2.00	BQL	16-OCT-95	17-OCT-95	FXW	R1379
CADMIUM	SW-846 6010	1.00	BQL	16-OCT-95	17-OCT-95	FXW	R1379
CHROMIUM	SW-846 6010	10.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
COBALT	SW-846 6010	10.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
COPPER	SW-846 6010	200.	BQL	16-OCT-95	17-OCT-95	FXW	R1379
LEAD	SW-846 6010	10.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
MERCURY	SW-846 7470	1.00	BQL	16-OCT-95	17-OCT-95	MLH	R1456
NICKEL	SW-846 6010	50.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
SELENIUM	SW-846 6010	20.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
SILVER	SW-846 6010	10.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
THALLIUM	SW-846 6010	10.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
VANADIUM	SW-846 6010	40.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
ZINC	SW-846 6010	50.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379

Comments:

Industrial & Environmental Analysts, Inc. (IEA)
Level 2 Metals Results Report
PREPARATION BLANKS

IEA Project #: 631_874
Matrix: WATER
Client Name: BPA ENVIRONMENTAL & ENG., INC
Client Proj. I.D.: 170.010
Sample Number: PBW 10169503H

Parameter	Method	Quant Limit	Result (ug/l)	Date Prepared	Date Analyzed	Analyst	IEA Run
MERCURY	SW-846 7470	1.00	BQL	16-OCT-95	17-OCT-95	MLH	R1456

Corresponding Samples:
951030601, 951030602, 951030603, 951030604, 951030605, 951030606, 951030607, 951030608, 951030609, 951030610, 951030611, 951030612, 951030613

Comments:

Industrial & Environmental Analysts, Inc. (IEA)
Level 2 Metals Results Report
PREPARATION BLANKS

IEA Project #: 631_874
Matrix: WATER
Client Name: BPA ENVIRONMENTAL & ENG., INC
Client Proj. I.D.: 170.010
Sample Number: PBW 10169505P

Parameter	Method	Quant Limit	Result (ug/l)	Date Prepared	Date Analyzed	Analyst	IEA Run
ANTIMONY	SW-846 6010	30.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
ARSENIC	SW-846 6010	10.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
BARIUM	SW-846 6010	500.	BQL	16-OCT-95	17-OCT-95	FXW	R1379
BERYLLIUM	SW-846 6010	2.00	BQL	16-OCT-95	17-OCT-95	FXW	R1379
CADMIUM	SW-846 6010	1.00	BQL	16-OCT-95	17-OCT-95	FXW	R1379
CHROMIUM	SW-846 6010	10.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
COBALT	SW-846 6010	10.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
COPPER	SW-846 6010	200.	BQL	16-OCT-95	17-OCT-95	FXW	R1379
LEAD	SW-846 6010	10.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
NICKEL	SW-846 6010	50.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
SELENIUM	SW-846 6010	20.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
SILVER	SW-846 6010	10.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
THALLIUM	SW-846 6010	10.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
VANADIUM	SW-846 6010	40.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379
ZINC	SW-846 6010	50.0	BQL	16-OCT-95	17-OCT-95	FXW	R1379

Corresponding Samples:
951030601, 951030602, 951030603, 951030604, 951030605, 951030606, 951030607, 951030608, 951030609, 951030610, 951030611, 951030612, 951030613, 951030614

Comments:

Industrial & Environmental Analysts, Inc. (IEA)
Level 2 Metals Results Report
DUPLICATE ANALYSIS

IEA Project #: 631_874
IEA Sample #: 951030601
Matrix: WATER

Parameter	Method	Duplicate Analysis Sample (ug/l)	Duplicate (ug/l)	RPD %	Date Analyzed	Samp Run	Dup Run
MERCURY	SW-846 7470	BQL	BQL		17-OCT-95	R1456	R1456

$$RPD = \frac{S-D}{(S+D)/2} \times 100$$

Control Limits: + - 20

Corresponding Samples:
951030601, 951030602, 951030603, 951030604, 951030605, 951030606,
951030607, 951030608, 951030609, 951030610, 951030611, 951030612,
951030613

Comments:

Industrial & Environmental Analysts, Inc. (IEA)
Level 2 Metals Results Report
DUPLICATE ANALYSIS

IEA Project #: 631_874
IEA Sample #: 951030606
Matrix: WATER

Parameter	Method	Duplicate Analysis Sample (ug/l)	Duplicate (ug/l)	RPD %	Date Analyzed	Samp Run	Dup Run
ANTIMONY	SW-846 6010	BQL	BQL		17-OCT-95	R1379	R1379
ARSENIC	SW-846 6010	BQL	BQL		17-OCT-95	R1379	R1379
BARIUM	SW-846 6010	BQL	BQL		17-OCT-95	R1379	R1379
BERYLLIUM	SW-846 6010	BQL	BQL		17-OCT-95	R1379	R1379
CADMIUM	SW-846 6010	BQL	BQL		17-OCT-95	R1379	R1379
CHROMIUM	SW-846 6010	18.7	BQL		17-OCT-95	R1379	R1379
COBALT	SW-846 6010	BQL	BQL		17-OCT-95	R1379	R1379
COPPER	SW-846 6010	BQL	BQL		17-OCT-95	R1379	R1379
LEAD	SW-846 6010	BQL	BQL		17-OCT-95	R1379	R1379
NICKEL	SW-846 6010	BQL	BQL		17-OCT-95	R1379	R1379
SELENIUM	SW-846 6010	BQL	BQL		17-OCT-95	R1379	R1379
SILVER	SW-846 6010	BQL	BQL		17-OCT-95	R1379	R1379
THALLIUM	SW-846 6010	BQL	BQL		17-OCT-95	R1379	R1379
VANADIUM	SW-846 6010	BQL	BQL		17-OCT-95	R1379	R1379
ZINC	SW-846 6010	66.0	BQL		17-OCT-95	R1379	R1379

$$RPD = \frac{S-D}{(S+D)/2} \times 100$$

Control Limits: + - 20

Corresponding Samples:
951030601, 951030602, 951030603, 951030604, 951030605, 951030606, 951030607, 951030608, 951030609, 951030610, 951030611, 951030612, 951030613, 951030614

Comments:

Industrial & Environmental Analysts, Inc. (IEA)
Level 2 Metals Results Report
SPIKE RESULTS

IEA Project #: 631_874
IEA Sample #: 951030601
Matrix: WATER

Spike Results (ug/l)

Parameter	Method	SA	SR	SSR	%RCY	Date Analyzed	Samp Run	Spike Run
MERCURY	SW-846 7470	1.00	BQL	0.910	91.0	17-OCT-95	R1456	R1456

R = ((SSR - SR) / SA) * 100

Corresponding Samples:
951030601, 951030602, 951030603, 951030604, 951030605, 951030606, 951030607, 951030608, 951030609, 951030610, 951030611, 951030612, 951030613

Comments:

Industrial & Environmental Analysts, Inc. (IEA)
Level 2 Metals Results Report
SPIKE RESULTS

IEA Project #: 631_874
IEA Sample #: 951030609
Matrix: WATER

Spike Results (ug/l)

Parameter	Method	SA	SR	SSR	%RCY	Date Analyzed	Samp Run	Spike Run
ANTIMONY	SW-846 6010	500.	BQL	507.	101.	17-OCT-95	R1379	R1379
ARSENIC	SW-846 6010	2000	BQL	2030	102.	17-OCT-95	R1379	R1379
BARIUM	SW-846 6010	2000	BQL	2020	101.	17-OCT-95	R1379	R1379
BERYLLIUM	SW-846 6010	50.0	BQL	50.9	102.	17-OCT-95	R1379	R1379
CADMIUM	SW-846 6010	50.0	BQL	49.8	99.7	17-OCT-95	R1379	R1379
CHROMIUM	SW-846 6010	200.	BQL	203.	101.	17-OCT-95	R1379	R1379
COBALT	SW-846 6010	500.	BQL	501.	100.	17-OCT-95	R1379	R1379
COPPER	SW-846 6010	250.	BQL	256.	103.	17-OCT-95	R1379	R1379
LEAD	SW-846 6010	500.	BQL	513.	103.	17-OCT-95	R1379	R1379
NICKEL	SW-846 6010	500.	BQL	509.	102.	17-OCT-95	R1379	R1379
SELENIUM	SW-846 6010	2000	BQL	2040	102.	17-OCT-95	R1379	R1379
SILVER	SW-846 6010	50.0	BQL	51.3	102.	17-OCT-95	R1379	R1379
THALLIUM	SW-846 6010	2000	BQL	2040	102.	17-OCT-95	R1379	R1379
VANADIUM	SW-846 6010	500.	BQL	504.	101.	17-OCT-95	R1379	R1379
ZINC	SW-846 6010	500.	BQL	514.	103.	17-OCT-95	R1379	R1379

R = ((SSR - SR) / SA) * 100

Corresponding Samples:
951030601, 951030602, 951030603, 951030604, 951030605, 951030606,
951030607, 951030608, 951030609, 951030610, 951030611, 951030612,
951030613, 951030614

Comments:

Industrial & Environmental Analysts, Inc. (IEA)
GC/MS PURGEABLES SW-846 METHOD 8260
Appendix I Target List

IEA Project Number:	631-874	Date Received:	10/11/95
IEA Sample Number:	9510306-01	Date Sampled:	10/11/95
Client Name:	BPA ENVIRONMENTAL & ENG., INC	Date Analyzed:	10/18/95
Client Project I.D.:	170.010	Analysis By:	Moore
Sample Identification:	MW-1	Dilution Factor:	1.0
Matrix:	Water		

Number	Compound	Quantitation Limit (ug/L)	Results Concentration (ug/L)
1	Acetone	100	BQL
2	Acrylonitrile	200	BQL
3	Benzene	5	BQL
4	Bromochloromethane	5	BQL
5	Bromodichloromethane	5	BQL
6	Bromoform	5	BQL
7	Bromomethane	10	BQL
8	2-Butanone	100	BQL
9	Carbon Disulfide	100	BQL
10	Carbon Tetrachloride	10	BQL
11	Chlorobenzene	5	BQL
12	Chlorodibromomethane	5	BQL
13	Chloroethane	10	BQL
14	Chloroform	5	BQL
15	Chloromethane	10	BQL
16	1,2-Dibromo-3-Chloropropane	25	BQL
17	1,2-Dibromoethane	5	BQL
18	Dibromomethane	10	BQL
19	1,2-Dichlorobenzene	5	BQL
20	1,4-Dichlorobenzene	5	BQL
21	trans-1,4-Dichloro-2-Butene	100	BQL
22	1,1-Dichloroethane	5	BQL
23	1,2-Dichloroethane	5	BQL
24	1,1-Dichloroethene	5	BQL
25	cis-1,2-Dichloroethene	5	BQL
26	trans-1,2-Dichloroethene	5	BQL
27	1,2-Dichloropropane	5	BQL
28	cis-1,3-Dichloropropene	10	BQL
29	trans-1,3-Dichloropropene	10	BQL
30	Ethylbenzene	5	BQL
31	2-Hexanone	50	BQL
32	Iodomethane	10	BQL
33	Methylene Chloride	10	BQL
34	4-Methyl-2-Pentanone	100	BQL
35	Styrene	10	BQL
36	1,1,1,2-Tetrachloroethane	5	BQL
37	1,1,2,2-Tetrachloroethane	5	BQL

Industrial & Environmental Analysts, Inc. (IEA)
GC/MS PURGEABLES SW-846 METHOD 8260
Appendix I Target List

IEA Project Number:	631-874	Date Received:	10/11/95
IEA Sample Number:	9510306-01	Date Sampled:	10/11/95
Client Name:	BPA ENVIRONMENTAL & ENG., INC	Date Analyzed:	10/18/95
Client Project I.D.:	170.010	Analysis By:	Moore
Sample Identification:	MW-1	Dilution Factor:	1.0
Matrix:	Water		

Number	Compound	Quantitation Limit (ug/L)	Results Concentration (ug/L)
38	Tetrachloroethene	5	BQL
39	Toluene	5	BQL
40	1,1,1-Trichloroethane	5	BQL
41	1,1,2-Trichloroethane	5	BQL
42	Trichloroethene	5	BQL
43	Trichlorofluoromethane	5	BQL
44	1,2,3-Trichloropropane	15	BQL
45	Vinyl Acetate	50	BQL
46	Vinyl Chloride	10	BQL
47	Xylenes (Total)	5	BQL

Comments:
Sample specific quantitation limits may be calculated by multiplying the quantitation limit by the dilution factor and/or moisture correction factor where reported.
BQL = Below Quantitation Limit

Industrial & Environmental Analysts, Inc. (IEA)
GC/MS PURGEABLES SW-846 METHOD 8260
Appendix I Target List

IEA Project Number:	631-874	Date Received:	10/11/95
IEA Sample Number:	9510306-02	Date Sampled:	10/10/95
Client Name:	BPA ENVIRONMENTAL & ENG., INC	Date Analyzed:	10/18/95
Client Project I.D.:	170.010	Analysis By:	Crewes
Sample Identification:	MW-2	Dilution Factor:	1.0
Matrix:	Water		

Number	Compound	Quantitation Limit (ug/L)	Results Concentration (ug/L)
1	Acetone	100	BQL
2	Acrylonitrile	200	BQL
3	Benzene	5	BQL
4	Bromochloromethane	5	BQL
5	Bromodichloromethane	5	BQL
6	Bromoform	5	BQL
7	Bromomethane	10	BQL
8	2-Butanone	100	BQL
9	Carbon Disulfide	100	BQL
10	Carbon Tetrachloride	10	BQL
11	Chlorobenzene	5	BQL
12	Chlorodibromomethane	5	BQL
13	Chloroethane	10	BQL
14	Chloroform	5	BQL
15	Chloromethane	10	BQL
16	1,2-Dibromo-3-Chloropropane	25	BQL
17	1,2-Dibromoethane	5	BQL
18	Dibromomethane	10	BQL
19	1,2-Dichlorobenzene	5	BQL
20	1,4-Dichlorobenzene	5	BQL
21	trans-1,4-Dichloro-2-Butene	100	BQL
22	1,1-Dichloroethane	5	65
23	1,2-Dichloroethane	5	BQL
24	1,1-Dichloroethene	5	16
25	cis-1,2-Dichloroethene	5	13
26	trans-1,2-Dichloroethene	5	BQL
27	1,2-Dichloropropane	5	BQL
28	cis-1,3-Dichloropropene	10	BQL
29	trans-1,3-Dichloropropene	10	BQL
30	Ethylbenzene	5	BQL
31	2-Hexanone	50	BQL
32	Iodomethane	10	BQL
33	Methylene Chloride	10	BQL
34	4-Methyl-2-Pentanone	100	BQL
35	Styrene	10	BQL
36	1,1,1,2-Tetrachloroethane	5	BQL
37	1,1,2,2-Tetrachloroethane	5	BQL

Industrial & Environmental Analysts, Inc. (IEA)
GC/MS PURGEABLES SW-846 METHOD 8260
Appendix I Target List

IEA Project Number:	631-874	Date Received:	10/11/95
IEA Sample Number:	9510306-02	Date Sampled:	10/10/95
Client Name:	BPA ENVIRONMENTAL & ENG., INC	Date Analyzed:	10/18/95
Client Project I.D.:	170.010	Analysis By:	Crewes
Sample Identification:	MW-2	Dilution Factor:	1.0
Matrix:	Water		

Number	Compound	Quantitation Limit (ug/L)	Results Concentration (ug/L)
38	Tetrachloroethene	5	13
39	Toluene	5	BQL
40	1,1,1-Trichloroethane	5	7
41	1,1,2-Trichloroethane	5	BQL
42	Trichloroethene	5	19
43	Trichlorofluoromethane	5	BQL
44	1,2,3-Trichloropropane	15	BQL
45	Vinyl Acetate	50	BQL
46	Vinyl Chloride	10	BQL
47	Xylenes (Total)	5	BQL

Comments:
Sample specific quantitation limits may be calculated by multiplying the quantitation limit by the dilution factor and/or moisture correction factor where reported.
BQL = Below Quantitation Limit

Industrial & Environmental Analysts, Inc. (IEA)
GC/MS PURGEABLES SW-846 METHOD 8260
Appendix I Target List

IEA Project Number:	631-874	Date Received:	10/11/95
IEA Sample Number:	9510306-03	Date Sampled:	10/10/95
Client Name:	BPA ENVIRONMENTAL & ENG., INC	Date Analyzed:	10/18/95
Client Project I.D.:	170.010	Analysis By:	Moore
Sample Identification:	MW-3	Dilution Factor:	1.0
Matrix:	Water		

Number	Compound	Quantitation Limit (ug/L)	Results Concentration (ug/L)
1	Acetone	100	BQL
2	Acrylonitrile	200	BQL
3	Benzene	5	BQL
4	Bromochloromethane	5	BQL
5	Bromodichloromethane	5	BQL
6	Bromoform	5	BQL
7	Bromomethane	10	BQL
8	2-Butanone	100	BQL
9	Carbon Disulfide	100	BQL
10	Carbon Tetrachloride	10	BQL
11	Chlorobenzene	5	BQL
12	Chlorodibromomethane	5	BQL
13	Chloroethane	10	BQL
14	Chloroform	5	BQL
15	Chloromethane	10	BQL
16	1,2-Dibromo-3-Chloropropane	25	BQL
17	1,2-Dibromoethane	5	BQL
18	Dibromomethane	10	BQL
19	1,2-Dichlorobenzene	5	BQL
20	1,4-Dichlorobenzene	5	BQL
21	trans-1,4-Dichloro-2-Butene	100	BQL
22	1,1-Dichloroethane	5	BQL
23	1,2-Dichloroethane	5	BQL
24	1,1-Dichloroethene	5	BQL
25	cis-1,2-Dichloroethene	5	BQL
26	trans-1,2-Dichloroethene	5	BQL
27	1,2-Dichloropropane	5	BQL
28	cis-1,3-Dichloropropene	10	BQL
29	trans-1,3-Dichloropropene	10	BQL
30	Ethylbenzene	5	BQL
31	2-Hexanone	50	BQL
32	Iodomethane	10	BQL
33	Methylene Chloride	10	BQL
34	4-Methyl-2-Pentanone	100	BQL
35	Styrene	10	BQL
36	1,1,1,2-Tetrachloroethane	5	BQL
37	1,1,2,2-Tetrachloroethane	5	BQL

Industrial & Environmental Analysts, Inc. (IEA)
GC/MS PURGEABLES SW-846 METHOD 8260
Appendix I Target List

IEA Project Number:	631-874	Date Received:	10/11/95
IEA Sample Number:	9510306-03	Date Sampled:	10/10/95
Client Name:	BPA ENVIRONMENTAL & ENG., INC	Date Analyzed:	10/18/95
Client Project I.D.:	170.010	Analysis By:	Moore
Sample Identification:	MW-3	Dilution Factor:	1.0
Matrix:	Water		

Number	Compound	Quantitation Limit (ug/L)	Results Concentration (ug/L)
38	Tetrachloroethene	5	BQL
39	Toluene	5	BQL
40	1,1,1-Trichloroethane	5	BQL
41	1,1,2-Trichloroethane	5	BQL
42	Trichloroethene	5	BQL
43	Trichlorofluoromethane	5	BQL
44	1,2,3-Trichloropropane	15	BQL
45	Vinyl Acetate	50	BQL
46	Vinyl Chloride	10	BQL
47	Xylenes (Total)	5	BQL

Comments:
Sample specific quantitation limits may be calculated by multiplying the quantitation limit by the dilution factor and/or moisture correction factor where reported.
BQL = Below Quantitation Limit

Industrial & Environmental Analysts, Inc. (IEA)
GC/MS PURGEABLES SW-846 METHOD 8260
Appendix I Target List

IEA Project Number:	631-874	Date Received:	10/11/95
IEA Sample Number:	9510306-04	Date Sampled:	10/10/95
Client Name:	BPA ENVIRONMENTAL & ENG., INC	Date Analyzed:	10/19/95
Client Project I.D.:	170.010	Analysis By:	Moore
Sample Identification:	MW-4	Dilution Factor:	2.0
Matrix:	Water		

Number	Compound	Quantitation Limit (ug/L)	Results Concentration (ug/L)
1	Acetone	100	BQL
2	Acrylonitrile	200	BQL
3	Benzene	5	BQL
4	Bromochloromethane	5	BQL
5	Bromodichloromethane	5	BQL
6	Bromoform	5	BQL
7	Bromomethane	10	BQL
8	2-Butanone	100	BQL
9	Carbon Disulfide	100	BQL
10	Carbon Tetrachloride	10	BQL
11	Chlorobenzene	5	BQL
12	Chlorodibromomethane	5	BQL
13	Chloroethane	10	15
14	Chloroform	5	BQL
15	Chloromethane	10	BQL
16	1,2-Dibromo-3-Chloropropane	25	BQL
17	1,2-Dibromoethane	5	BQL
18	Dibromomethane	10	BQL
19	1,2-Dichlorobenzene	5	BQL
20	1,4-Dichlorobenzene	5	BQL
21	trans-1,4-Dichloro-2-Butene	100	BQL
22	1,1-Dichloroethane	5	38
23	1,2-Dichloroethane	5	BQL
24	1,1-Dichloroethene	5	BQL
25	cis-1,2-Dichloroethene	5	230
26	trans-1,2-Dichloroethene	5	BQL
27	1,2-Dichloropropane	5	BQL
28	cis-1,3-Dichloropropene	10	BQL
29	trans-1,3-Dichloropropene	10	BQL
30	Ethylbenzene	5	BQL
31	2-Hexanone	50	BQL
32	Iodomethane	10	BQL
33	Methylene Chloride	10	BQL
34	4-Methyl-2-Pentanone	100	BQL
35	Styrene	10	BQL
36	1,1,1,2-Tetrachloroethane	5	BQL
37	1,1,2,2-Tetrachloroethane	5	BQL

Industrial & Environmental Analysts, Inc. (IEA)
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Appendix I Target List

IEA Project Number:	631-874	Date Received:	10/11/95
IEA Sample Number:	9510306-04	Date Sampled:	10/10/95
Client Name:	BPA ENVIRONMENTAL & ENG., INC	Date Analyzed:	10/19/95
Client Project I.D.:	170.010	Analysis By:	Moore
Sample Identification:	MW-4	Dilution Factor:	2.0
Matrix:	Water		

Number	Compound	Quantitation Limit (ug/L)	Results Concentration (ug/L)
38	Tetrachloroethene	5	91
39	Toluene	5	BQL
40	1,1,1-Trichloroethane	5	BQL
41	1,1,2-Trichloroethane	5	BQL
42	Trichloroethene	5	48
43	Trichlorofluoromethane	5	BQL
44	1,2,3-Trichloropropane	15	BQL
45	Vinyl Acetate	50	BQL
46	Vinyl Chloride	10	BQL
47	Xylenes (Total)	5	BQL

Comments:
Sample specific quantitation limits may be calculated by multiplying the quantitation limit by the dilution factor and/or moisture correction factor where reported.
BQL = Below Quantitation Limit
Quantitation limit elevated due to sample dilution prior to analysis.
Sample diluted due to high concentration of target compounds present.

Industrial & Environmental Analysts, Inc. (IEA)
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Appendix I Target List

IEA Project Number:	631-874	Date Received:	10/11/95
IEA Sample Number:	9510306-05	Date Sampled:	10/11/95
Client Name:	BPA ENVIRONMENTAL & ENG., INC	Date Analyzed:	10/18/95
Client Project I.D.:	170.010	Analysis By:	Moore
Sample Identification:	MW-5	Dilution Factor:	1.0
Matrix:	Water		

Number	Compound	Quantitation Limit (ug/L)	Results Concentration (ug/L)
1	Acetone	100	BQL
2	Acrylonitrile	200	BQL
3	Benzene	5	BQL
4	Bromochloromethane	5	BQL
5	Bromodichloromethane	5	BQL
6	Bromoform	5	BQL
7	Bromomethane	10	BQL
8	2-Butanone	100	BQL
9	Carbon Disulfide	100	BQL
10	Carbon Tetrachloride	10	BQL
11	Chlorobenzene	5	BQL
12	Chlorodibromomethane	5	BQL
13	Chloroethane	10	BQL
14	Chloroform	5	BQL
15	Chloromethane	10	BQL
16	1,2-Dibromo-3-Chloropropane	25	BQL
17	1,2-Dibromoethane	5	BQL
18	Dibromomethane	10	BQL
19	1,2-Dichlorobenzene	5	BQL
20	1,4-Dichlorobenzene	5	BQL
21	trans-1,4-Dichloro-2-Butene	100	BQL
22	1,1-Dichloroethane	5	BQL
23	1,2-Dichloroethane	5	BQL
24	1,1-Dichloroethene	5	BQL
25	cis-1,2-Dichloroethene	5	BQL
26	trans-1,2-Dichloroethene	5	BQL
27	1,2-Dichloropropane	5	BQL
28	cis-1,3-Dichloropropene	10	BQL
29	trans-1,3-Dichloropropene	10	BQL
30	Ethylbenzene	5	BQL
31	2-Hexanone	50	BQL
32	Iodomethane	10	BQL
33	Methylene Chloride	10	BQL
34	4-Methyl-2-Pentanone	100	BQL
35	Styrene	10	BQL
36	1,1,1,2-Tetrachloroethane	5	BQL
37	1,1,2,2-Tetrachloroethane	5	BQL

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Appendix I Target List

IEA Project Number:	631-874	Date Received:	10/11/95
IEA Sample Number:	9510306-05	Date Sampled:	10/11/95
Client Name:	BPA ENVIRONMENTAL & ENG., INC	Date Analyzed:	10/18/95
Client Project I.D.:	170.010	Analysis By:	Moore
Sample Identification:	MW-5	Dilution Factor:	1.0
Matrix:	Water		

Number	Compound	Quantitation Limit (ug/L)	Results Concentration (ug/L)
38	Tetrachloroethene	5	BQL
39	Toluene	5	BQL
40	1,1,1-Trichloroethane	5	BQL
41	1,1,2-Trichloroethane	5	BQL
42	Trichloroethene	5	BQL
43	Trichlorofluoromethane	5	BQL
44	1,2,3-Trichloropropane	15	BQL
45	Vinyl Acetate	50	BQL
46	Vinyl Chloride	10	BQL
47	Xylenes (Total)	5	BQL

Comments:
Sample specific quantitation limits may be calculated by multiplying the quantitation limit by the dilution factor and/or moisture correction factor where reported.
BQL = Below Quantitation Limit

Industrial & Environmental Analysts, Inc. (IEA)
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IEA Project Number:	631-874	Date Received:	10/11/95
IEA Sample Number:	9510306-06	Date Sampled:	10/11/95
Client Name:	BPA ENVIRONMENTAL & ENG., INC	Date Analyzed:	10/18/95
Client Project I.D.:	170.010	Analysis By:	Moore
Sample Identification:	MW-6	Dilution Factor:	1.0
Matrix:	Water		

Number	Compound	Quantitation Limit (ug/L)	Results Concentration (ug/L)
1	Acetone	100	BQL
2	Acrylonitrile	200	BQL
3	Benzene	5	BQL
4	Bromochloromethane	5	BQL
5	Bromodichloromethane	5	BQL
6	Bromoform	5	BQL
7	Bromomethane	10	BQL
8	2-Butanone	100	BQL
9	Carbon Disulfide	100	BQL
10	Carbon Tetrachloride	10	BQL
11	Chlorobenzene	5	BQL
12	Chlorodibromomethane	5	BQL
13	Chloroethane	10	BQL
14	Chloroform	5	BQL
15	Chloromethane	10	BQL
16	1,2-Dibromo-3-Chloropropane	25	BQL
17	1,2-Dibromoethane	5	BQL
18	Dibromomethane	10	BQL
19	1,2-Dichlorobenzene	5	BQL
20	1,4-Dichlorobenzene	5	BQL
21	trans-1,4-Dichloro-2-Butene	100	BQL
22	1,1-Dichloroethane	5	BQL
23	1,2-Dichloroethane	5	BQL
24	1,1-Dichloroethene	5	BQL
25	cis-1,2-Dichloroethene	5	BQL
26	trans-1,2-Dichloroethene	5	BQL
27	1,2-Dichloropropane	5	BQL
28	cis-1,3-Dichloropropene	10	BQL
29	trans-1,3-Dichloropropene	10	BQL
30	Ethylbenzene	5	BQL
31	2-Hexanone	50	BQL
32	Iodomethane	10	BQL
33	Methylene Chloride	10	BQL
34	4-Methyl-2-Pentanone	100	BQL
35	Styrene	10	BQL
36	1,1,1,2-Tetrachloroethane	5	BQL
37	1,1,2,2-Tetrachloroethane	5	BQL

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IEA Project Number:	631-874	Date Received:	10/11/95
IEA Sample Number:	9510306-06	Date Sampled:	10/11/95
Client Name:	BPA ENVIRONMENTAL & ENG., INC	Date Analyzed:	10/18/95
Client Project I.D.:	170.010	Analysis By:	Moore
Sample Identification:	MW-6	Dilution Factor:	1.0
Matrix:	Water		

Number	Compound	Quantitation Limit (ug/L)	Results Concentration (ug/L)
38	Tetrachloroethene	5	BQL
39	Toluene	5	BQL
40	1,1,1-Trichloroethane	5	BQL
41	1,1,2-Trichloroethane	5	BQL
42	Trichloroethene	5	BQL
43	Trichlorofluoromethane	5	BQL
44	1,2,3-Trichloropropane	15	BQL
45	Vinyl Acetate	50	BQL
46	Vinyl Chloride	10	BQL
47	Xylenes (Total)	5	BQL

Comments:
Sample specific quantitation limits may be calculated by multiplying the quantitation limit by the dilution factor and/or moisture correction factor where reported.
BQL = Below Quantitation Limit

Industrial & Environmental Analysts, Inc. (IEA)
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Appendix I Target List

IEA Project Number:	631-874	Date Received:	10/11/95
IEA Sample Number:	9510306-07	Date Sampled:	10/10/95
Client Name:	BPA ENVIRONMENTAL & ENG., INC	Date Analyzed:	10/18/95
Client Project I.D.:	170.010	Analysis By:	Moore
Sample Identification:	MW-7A	Dilution Factor:	1.0
Matrix:	Water		

Number	Compound	Quantitation Limit (ug/L)	Results Concentration (ug/L)
1	Acetone	100	BQL
2	Acrylonitrile	200	BQL
3	Benzene	5	BQL
4	Bromochloromethane	5	BQL
5	Bromodichloromethane	5	BQL
6	Bromoform	5	BQL
7	Bromomethane	10	BQL
8	2-Butanone	100	BQL
9	Carbon Disulfide	100	BQL
10	Carbon Tetrachloride	10	BQL
11	Chlorobenzene	5	BQL
12	Chlorodibromomethane	5	BQL
13	Chloroethane	10	BQL
14	Chloroform	5	BQL
15	Chloromethane	10	BQL
16	1,2-Dibromo-3-Chloropropane	25	BQL
17	1,2-Dibromoethane	5	BQL
18	Dibromomethane	10	BQL
19	1,2-Dichlorobenzene	5	BQL
20	1,4-Dichlorobenzene	5	BQL
21	trans-1,4-Dichloro-2-Butene	100	BQL
22	1,1-Dichloroethane	5	BQL
23	1,2-Dichloroethane	5	BQL
24	1,1-Dichloroethene	5	BQL
25	cis-1,2-Dichloroethene	5	BQL
26	trans-1,2-Dichloroethene	5	BQL
27	1,2-Dichloropropane	5	BQL
28	cis-1,3-Dichloropropene	10	BQL
29	trans-1,3-Dichloropropene	10	BQL
30	Ethylbenzene	5	BQL
31	2-Hexanone	50	BQL
32	Iodomethane	10	BQL
33	Methylene Chloride	10	BQL
34	4-Methyl-2-Pentanone	100	BQL
35	Styrene	10	BQL
36	1,1,1,2-Tetrachloroethane	5	BQL
37	1,1,2,2-Tetrachloroethane	5	BQL

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IEA Project Number:	631-874	Date Received:	10/11/95
IEA Sample Number:	9510306-07	Date Sampled:	10/10/95
Client Name:	BPA ENVIRONMENTAL & ENG., INC	Date Analyzed:	10/18/95
Client Project I.D.:	170.010	Analysis By:	Moore
Sample Identification:	MW-7A	Dilution Factor:	1.0
Matrix:	Water		

Number	Compound	Quantitation Limit (ug/L)	Results Concentration (ug/L)
38	Tetrachloroethene	5	BQL
39	Toluene	5	BQL
40	1,1,1-Trichloroethane	5	BQL
41	1,1,2-Trichloroethane	5	BQL
42	Trichloroethene	5	BQL
43	Trichlorofluoromethane	5	BQL
44	1,2,3-Trichloropropane	15	BQL
45	Vinyl Acetate	50	BQL
46	Vinyl Chloride	10	BQL
47	Xylenes (Total)	5	BQL

Comments:
Sample specific quantitation limits may be calculated by multiplying the quantitation limit by the dilution factor and/or moisture correction factor where reported.
BQL = Below Quantitation Limit

Industrial & Environmental Analysts, Inc. (IEA)
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IEA Project Number:	631-874	Date Received:	10/11/95
IEA Sample Number:	9510306-08	Date Sampled:	10/10/95
Client Name:	BPA ENVIRONMENTAL & ENG., INC	Date Analyzed:	10/18/95
Client Project I.D.:	170.010	Analysis By:	Moore
Sample Identification:	MW-7B	Dilution Factor:	1.0
Matrix:	Water		

Number	Compound	Quantitation Limit (ug/L)	Results Concentration (ug/L)
1	Acetone	100	BQL
2	Acrylonitrile	200	BQL
3	Benzene	5	BQL
4	Bromochloromethane	5	BQL
5	Bromodichloromethane	5	BQL
6	Bromoform	5	BQL
7	Bromomethane	10	BQL
8	2-Butanone	100	BQL
9	Carbon Disulfide	100	BQL
10	Carbon Tetrachloride	10	BQL
11	Chlorobenzene	5	BQL
12	Chlorodibromomethane	5	BQL
13	Chloroethane	10	BQL
14	Chloroform	5	BQL
15	Chloromethane	10	BQL
16	1,2-Dibromo-3-Chloropropane	25	BQL
17	1,2-Dibromoethane	5	BQL
18	Dibromomethane	10	BQL
19	1,2-Dichlorobenzene	5	BQL
20	1,4-Dichlorobenzene	5	BQL
21	trans-1,4-Dichloro-2-Butene	100	BQL
22	1,1-Dichloroethane	5	BQL
23	1,2-Dichloroethane	5	BQL
24	1,1-Dichloroethene	5	BQL
25	cis-1,2-Dichloroethene	5	BQL
26	trans-1,2-Dichloroethene	5	BQL
27	1,2-Dichloropropane	5	BQL
28	cis-1,3-Dichloropropene	10	BQL
29	trans-1,3-Dichloropropene	10	BQL
30	Ethylbenzene	5	BQL
31	2-Hexanone	50	BQL
32	Iodomethane	10	BQL
33	Methylene Chloride	10	BQL
34	4-Methyl-2-Pentanone	100	BQL
35	Styrene	10	BQL
36	1,1,1,2-Tetrachloroethane	5	BQL
37	1,1,2,2-Tetrachloroethane	5	BQL

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IEA Project Number:	631-874	Date Received:	10/11/95
IEA Sample Number:	9510306-08	Date Sampled:	10/10/95
Client Name:	BPA ENVIRONMENTAL & ENG., INC	Date Analyzed:	10/18/95
Client Project I.D.:	170.010	Analysis By:	Moore
Sample Identification:	MW-7B	Dilution Factor:	1.0
Matrix:	Water		

Number	Compound	Quantitation Limit (ug/L)	Results Concentration (ug/L)
38	Tetrachloroethene	5	BQL
39	Toluene	5	BQL
40	1,1,1-Trichloroethane	5	BQL
41	1,1,2-Trichloroethane	5	BQL
42	Trichloroethene	5	BQL
43	Trichlorofluoromethane	5	BQL
44	1,2,3-Trichloropropane	15	BQL
45	Vinyl Acetate	50	BQL
46	Vinyl Chloride	10	BQL
47	Xylenes (Total)	5	BQL

Comments:
Sample specific quantitation limits may be calculated by multiplying the quantitation limit by the dilution factor and/or moisture correction factor where reported.
BQL = Below Quantitation Limit

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IEA Project Number:	631-874	Date Received:	10/11/95
IEA Sample Number:	9510306-09	Date Sampled:	10/11/95
Client Name:	BPA ENVIRONMENTAL & ENG., INC	Date Analyzed:	10/18/95
Client Project I.D.:	170.010	Analysis By:	Moore
Sample Identification:	MW-8A	Dilution Factor:	1.0
Matrix:	Water		

Number	Compound	Quantitation Limit (ug/L)	Results Concentration (ug/L)
1	Acetone	100	BQL
2	Acrylonitrile	200	BQL
3	Benzene	5	BQL
4	Bromochloromethane	5	BQL
5	Bromodichloromethane	5	BQL
6	Bromoform	5	BQL
7	Bromomethane	10	BQL
8	2-Butanone	100	BQL
9	Carbon Disulfide	100	BQL
10	Carbon Tetrachloride	10	BQL
11	Chlorobenzene	5	BQL
12	Chlorodibromomethane	5	BQL
13	Chloroethane	10	BQL
14	Chloroform	5	BQL
15	Chloromethane	10	BQL
16	1,2-Dibromo-3-Chloropropane	25	BQL
17	1,2-Dibromoethane	5	BQL
18	Dibromomethane	10	BQL
19	1,2-Dichlorobenzene	5	BQL
20	1,4-Dichlorobenzene	5	BQL
21	trans-1,4-Dichloro-2-Butene	100	BQL
22	1,1-Dichloroethane	5	BQL
23	1,2-Dichloroethane	5	BQL
24	1,1-Dichloroethene	5	BQL
25	cis-1,2-Dichloroethene	5	BQL
26	trans-1,2-Dichloroethene	5	BQL
27	1,2-Dichloropropane	5	BQL
28	cis-1,3-Dichloropropene	10	BQL
29	trans-1,3-Dichloropropene	10	BQL
30	Ethylbenzene	5	BQL
31	2-Hexanone	50	BQL
32	Iodomethane	10	BQL
33	Methylene Chloride	10	BQL
34	4-Methyl-2-Pentanone	100	BQL
35	Styrene	10	BQL
36	1,1,1,2-Tetrachloroethane	5	BQL
37	1,1,2,2-Tetrachloroethane	5	BQL

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IEA Project Number:	631-874	Date Received:	10/11/95
IEA Sample Number:	9510306-09	Date Sampled:	10/11/95
Client Name:	BPA ENVIRONMENTAL & ENG., INC	Date Analyzed:	10/18/95
Client Project I.D.:	170.010	Analysis By:	Moore
Sample Identification:	MW-8A	Dilution Factor:	1.0
Matrix:	Water		

Number	Compound	Quantitation Limit (ug/L)	Results Concentration (ug/L)
38	Tetrachloroethene	5	BQL
39	Toluene	5	BQL
40	1,1,1-Trichloroethane	5	BQL
41	1,1,2-Trichloroethane	5	BQL
42	Trichloroethene	5	BQL
43	Trichlorofluoromethane	5	BQL
44	1,2,3-Trichloropropane	15	BQL
45	Vinyl Acetate	50	BQL
46	Vinyl Chloride	10	BQL
47	Xylenes (Total)	5	BQL

Comments:
Sample specific quantitation limits may be calculated by multiplying the quantitation limit by the dilution factor and/or moisture correction factor where reported.
BQL = Below Quantitation Limit

COMPOUND	Sample No.													15A NCAC 2L Standards for Class GA Ground Water	15A NCAC 2B Standards for Class B, C Surface Water	Practical Quantitation Limit (PQL)
	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7A	MW-7B	MW-8A	MW-8B	MW-9	SW-1	SW-2			
Acetone	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	700.0		100
Acrylonitrile	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	*		200
Benzene	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	1.0		5
Bromochloromethane	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	*		5
Bromodichloromethane	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	0.6[1]		5
Bromoform	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	0.19		5
Carbon Disulfide	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	700[1]		100
Carbon Tetrachloride	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	0.3		10
Chlorobenzene	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	50.0		5
Chloroethane	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	2800[1]		10
Chloroform	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	0.19		5
Dibromochloromethane	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	*		5
1,2-Dibromo-3-Chloropropane	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	0.025		25
1,2-Dibromoethane	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	0.0004		5
1,2-Dichlorobenzene	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	620.0		5
1,4-Dichlorobenzene	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	75.0		5
trans-1,4-Dichloro-2-butene	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	*		100
1,1-Dichloroethane	BQL	11	BQL	32	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	700.0		5
1,2-Dichloroethane	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	0.38		5
1,1-Dichloroethene	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	7.0		5
[redacted]	BQL	BQL	BQL	[redacted]	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	70.0		5
trans-1,2-Dichloroethene	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	*		5
1,2-Dichloropropane	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	0.56		5
cis-1,3-Dichloropropene	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	0.2[1]		10
trans-1,3-Dichloropropene	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	0.2[1]		10
Ethylbenzene	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	29.0		5
2-Hexanone	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	*		50
Bromomethane	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	*		10
Chloromethane	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	*		10
Dibromomethane	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	*		10
Dichloromethane	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	5.0		10
2 - Butanone (MEK)	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	170.0		100
Methyl iodide	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	*		10
4-Methyl-2-pentanone	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	*		100
Styrene	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	100.0		10
1,1,1,2-Tetrachloroethane	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	*		5
1,1,2,2-Tetrachloroethane	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	*		5
[redacted]	BQL	BQL	BQL	[redacted]	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	0.7		5
Toluene	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	1000.00	11.0	5
1,1,1-Trichloroethane	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	200.0		5
1,1,2-Trichloroethane	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	*		5
[redacted]	BQL	BQL	BQL	[redacted]	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	2.8		5
Trichlorofluoromethane	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	2100.0		5
1,2,3-Trichloropropane	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	*		15
Vinyl acetate	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	*		50
Vinyl chloride	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	0.015		10
Xylenes, Total	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	530.0		5

Notes:

- All results in parts per billion (ppb)
- BQL – Below practical quantitation limit
- Shaded blocks denote concentrations that do not meet 15A NCAC 2L Standards for Class GA Groundwater (MW data) or 15A NCAC 2B Standards for Class B surface waters (SW data)
- * – For constituents that are not naturally occuring and are not listed in the 15A NCAC 2L Standards, the practical quantitation limit is the Standard
- [1] The 15A NCAC 2L Standard presented is an interim maximum allowable concentration

TABLE 3
APPENDIX I VOLATILES BY
SW-846 METHOD 8260
SWEPSONVILLE LANDFILL
APRIL 11-19, 1996

COMPOUND	Sample No.													15A NCAC 2L Standards for Class GA Ground Water	15A NCAC 2B Standards for Class B, C Surface Water	Practical Quantitation Limit (PQL)
	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7A	MW-7B	MW-8A	MW-8B	MW-9	SW-1	SW-2			
Acetone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	700.0		100
Acrylonitrile	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*		200
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.0		5
Bromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*		5
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.6[1]		5
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.19		5
Carbon Disulfide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	700[1]		100
Carbon Tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.3		10
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	50.0		5
Chloroethane	ND	ND	ND	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	2800[1]		10
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.19		5
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*		5
1,2-Dibromo-3-Chloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.025		25
1,2-Dibromoethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0004		5
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	620.0		5
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	75.0		5
trans-1,4-Dichloro-2-butene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*		100
1,1-Dichloroethane	ND	65	ND	38	ND	ND	ND	ND	ND	ND	ND	ND	ND	700.0		5
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.38		5
1,1-Dichloroethene	ND	48	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.0		5
cis-1,2-Dichloroethene	ND	13	ND	120	ND	ND	ND	ND	ND	ND	ND	ND	ND	70.0		5
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*		5
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.56		5
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.2[1]		10
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.2[1]		10
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	29.0		5
2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*		50
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*		10
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*		10
Dibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*		10
Dichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0		10
2 - Butanone (MEK)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	170.0		100
Methyl iodide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*		10
4-Methyl-2-pentanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*		100
Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	100.0		10
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*		5
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*		5
Tetrachloroethene	ND	13	ND	91	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.7		5
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1000.00	11.0	5
1,1,1-Trichloroethane	ND	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	200.0		5
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*		5
Tricholorethene	ND	19	ND	48	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.8		5
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2100.0		5
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*		15
Vinyl acetate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*		50
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.015		10
Xylenes, Total	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	530.0		5

Notes:

- All results expressed in parts per billion (ppb)
- ND – Not detected (<PQL)
- Shaded blocks denote concentrations or measured parameters that do not meet NC 15A NCAC 2L Standards for Class GA Groundwater (MW data) or NC 15A NCAC 2B Standards for Class B surface waters (SW data)
- * – For constituents that are not naturally occuring and are not listed in the 2L Standards, the PQL is the Standard
- [1] NC 15A NCAC 2L Standard presented is an interim maximum allowable concentration

TABLE 3
APPENDIX I VOLATILES BY
SW-846 METHOD 8260
SWEPSONVILLE LANDFILL
OCTOBER 10-11, 1995

COMPOUND	Sample No.													15A NCAC 2L Standards for Class GA Ground Water	15A NCAC 2B Standards for Class B, C Surface Water	Practical Quantitation Limit (PQL)
	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7A	MW-7B	MW-8A	MW-8B	MW-9	SW-1	SW-2			
Acetone	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	700.0		100
Acrylonitrile	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	*		200
Benzene	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	1.0		5
Bromochloromethane	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	*		5
Bromodichloromethane	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	0.6[1]		5
Bromoform	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	0.19		5
Carbon Disulfide	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	700[1]		100
Carbon Tetrachloride	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	0.3		10
Chlorobenzene	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	50.0		5
Chloroethane	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	2800[1]		10
Chloroform	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	0.19		5
Dibromochloromethane	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	*		5
1,2-Dibromo-3-Chloropropane	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	0.025		25
1,2-Dibromoethane	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	0.0004		5
1,2-Dichlorobenzene	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	620.0		5
1,4-Dichlorobenzene	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	75.0		5
trans-1,4-Dichloro-2-butene	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	*		100
1,1-Dichloroethane	BQL	31.0	BQL	29.0	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	700.0		5
1,2-Dichloroethane	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	0.38		5
[redacted]	BQL	[redacted]	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	7.0		5
[redacted]	BQL	8.4[redacted]	BQL	[redacted]	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	70.0		5
trans-1,2-Dichloroethene	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	*		5
1,2-Dichloropropane	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	0.56		5
cis-1,3-Dichloropropene	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	0.2[1]		10
trans-1,3-Dichloropropene	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	0.2[1]		10
Ethylbenzene	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	29.0		5
2-Hexanone	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	*		50
Bromomethane	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	*		10
Chloromethane	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	*		10
Dibromomethane	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	*		10
Dichloromethane	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	5.0		10
2 - Butanone (MEK)	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	170.0		100
Methyl iodide	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	*		10
4-Methyl-2-pentanone	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	*		100
Styrene	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	100.0		10
1,1,1,2-Tetrachloroethane	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	*		5
1,1,2,2-Tetrachloroethane	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	*		5
[redacted]	BQL	[redacted]	BQL	[redacted]	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	0.7		5
Toluene	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	1000.00	11.0	5
1,1,1-Trichloroethane	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	200.0		5
1,1,2-Trichloroethane	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	*		5
[redacted]e	BQL	[redacted]	BQL	[redacted]	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	2.8		5
Trichlorofluoromethane	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	2100.0		5
1,2,3-Trichloropropane	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	*		15
Vinyl acetate	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	*		50
Vinyl chloride	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	0.015		10
Xylenes, Total	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	530.0		5

Notes:

- All results in parts per billion (ppb)
- BQL -- Below practical quantitation limit
- Shaded blocks denote concentrations that do not meet 15A NCAC 2L Standards for Class GA Groundwater (MW data) or 15A NCAC 2B Standards for Class B surface waters (SW data)
- * -- For constituents that are not naturally occuring and are not listed in the 15A NCAC 2L Standards, the practical quantitation limit is the Standard
- [1] The 15A NCAC 2L Standard presented is an interim maximum allowable concentration

TABLE 3
APPENDIX I VOLATILES BY
SW-846 METHOD 8260