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# *Municipal Solid Waste Landfill*

*Macon County, North Carolina*
*Permit No. 57-03*

**Water Quality Monitoring Program**
**1st Semi-Annual 2005 Report**

*July 2005* — [redacted] D 1040

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Solid Waste Section

REIC

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In preparing this report, the professional services of REI Consultants, Inc. have been performed, findings obtained, and conclusions reached in accordance with present State and Federal regulations, and generally accepted review principles and practices. Questions regarding any of the information presented in this report should be directed to REIC headquarters at (304) 255-2500.

Respectfully submitted,

7-14-05

Michael P. Hofe, PE (NC #028029)
Manager
Environmental Monitoring & Investigative Assessment Department

# Table of Contents


| | | Page No. |
|---|---|---|
| 1.0 | EXECUTIVE SUMMARY | 1 |
| 2.0 | INTRODUCTION | 4 |
| 3.0 | HYDROLOGIC EVALUATION | 5 |
| 4.0 | SAMPLING AND LABORATORY ANALYSIS | 7 |
| 5.0 | STATISTICAL ANALYSIS | 8 |
| 6.0 | CONCLUSIONS & RECOMMENDATIONS | 10 |
| 7.0 | FIGURES | |
| 8.0 | TABLES | |

APPENDICES

A. *Groundwater Flow Rate*

B. *Field Sample Logs*

C. *Laboratory Reports and Chain-of-Custody*

D. *Historical Laboratory Results*

E. *Statistical Analysis*

## 1.0 EXECUTIVE SUMMARY

REI Consultants, Inc. (REIC) has prepared the 1st Semi-Annual Water Quality Monitoring Report for 2005 for the Macon County Municipal Solid Waste (MSW) Landfill, Permit No. 57-03, an active municipal solid waste disposal facility located in Macon County, North Carolina. Water quality monitoring at the facility is performed on a semi-annual basis and consists of sampling groundwater monitoring wells and surface water locations in the vicinity of the landfill. This report has been prepared in accordance with NCAC 13B Section .1632(j).

The 1st semi-annual monitoring event was performed on April 19, 2005. Groundwater samples were collected from fifteen (15) monitoring wells; in addition, samples were collected from four (4) surface water locations. All samples were analyzed for North Carolina Appendix I parameters. Volatile organic compounds (VOCs) were detected above laboratory practical quantitation limits (PQLs) in wells MW-1A and MW-1B; VOCs were not detected in any other sample. A summary of the VOCs detected above PQLs is given in the following table:

| **Parameter** | **Monitoring Well** |
|---|---|
| Benzene | MW-1A, MW-1B |
| 1,1-Dichloroethane | MW-1A, MW-1B |
| Vinyl Chloride | MW-1A, MW-1B |

Of the VOC detections in wells MW-1A and MW-1B, only benzene and vinyl chloride were detected above North Carolina groundwater quality standards.

Statistical analysis of analytical results for metals yielded the following elevations:

| Parameter | Monitoring Well |
|---|---|
| Barium | MW-22 |
| Beryllium | MW-22 |
| Chromium | MW-22 |
| Cobalt | MW-22 |
| Lead | MW-19, MW-22 |
| Nickel | MW-22 |
| Vanadium | MW-22 |

The samples from wells MW-19 and MW-22 exhibited very high suspended solids, and dissolved metals were not detected. Therefore, it is the professional opinion of REIC that the total metals elevations are due to incorporation of local geologic material into the sample via suspended solids. The following metals were detected above North Carolina groundwater standards:

| Parameter | Monitoring Well |
|---|---|
| Chromium | MW-22 |
| Lead | MW-15, MW-19, MW-22 |

Again, samples from the above wells exhibited very high suspended solids, and dissolved metals were not detected. Therefore, the above exceedances are likely due to naturally occurring metals incorporated into the samples via suspended solids.

Static groundwater elevations were measured in each monitoring well prior to sampling. These measurements were converted to groundwater elevations, which were used to develop generalized potentiometric contours in the vicinity of the MSW Landfill. From this data, groundwater appears to be flowing to the west, northwest,

and north in the vicinity of the waste areas. An average groundwater flow rate across the landfill has been estimated at 11 feet/year.

## 2.0 INTRODUCTION

REI Consultants, Inc. (REIC) has prepared the 1st Semi-Annual Water Quality Monitoring Report for 2005 for the Macon County MSW Landfill, Permit No. 57-03, an active municipal solid waste disposal facility located approximately a mile and half north of the town of Franklin in Macon County, North Carolina. The facility consists of a completed waste area, no longer active, in the southwest area of the property, and an active cell situated northeast of the closed area. A baling facility and recycling area are located east of the active portion of the landfill. Lake Emory (the Little Tennessee River) is situated to the northwest and north of the site.

The groundwater monitoring well network at the MSW Landfill consists of wells MW-1A, MW-1B, MW-2, MW-3A, MW-5, MW-10, MW-14, MW-15, MW-17, MW-18, MW-19, MW-19A, MW-20, MW-21, MW-22, and MW-22A (see Figure, Section 7.0, for locations). Monitoring wells MW-10, MW-17, and MW-18 are located hydraulically upgradient of the waste areas, and therefore are designated as the background wells for the facility. Monitoring wells MW-1A, MW-1B, MW-2, MW-3A, MW-5, MW-14, MW-15, MW-19, MW-19A, MW-20, MW-21, MW-22, and MW-22A are located downgradient of the waste areas, and are monitored as compliance wells. The facility is currently in detection monitoring; all wells are sampled semi-annually for North Carolina Appendix I parameters.

In addition to the above monitoring wells, samples are collected from four (4) surface water locations, designated SW-1, SW-2, SW-3, and SW-4. Sample SW-1 is collected from Lake Emory downriver from the effluent of the Town of Franklin Wastewater Treatment Plant, which is located adjacent to the southwest end of the landfill. SW-2 is located approximately 1450 feet downriver of SW-1. Samples SW-3 (upstream) and SW-4 (downstream) are collected from a perennial tributary stream to Lake Emory that runs north along the east side of the landfill facility (see Figure for locations).

Surface water samples are analyzed semi-annually for Appendix I parameters. In addition to the groundwater and surface water samples, a sample is collected semi-annually from the MSW Landfill leachate pond; this sample is analyzed for Appendix I parameters and nitrate, sulfate, phosphorus, BOD, and COD.

For the 1st semi-annual 2005 monitoring event, field sampling was performed on April 19, 2005. Samples were collected from all of the above locations with the exception of well MW-5, which was dry.

## 3.0 HYDROLOGIC EVALUATION

Static water levels were measured from the top of casing (TOC) prior to purging in all wells during the sampling event. These water level measurements, in conjunction with surveyed TOC elevation data, were used to calculate static groundwater elevations in each well. Groundwater elevation data from the 1st semi-annual monitoring event was contoured to represent the potentiometric surface of the upper-most (water table) aquifer in the vicinity of the landfill. Elevation data and the influence of topographical features were utilized to estimate contours. A copy of the resulting potentiometric map is included in this report (see Figure).

The majority of the monitoring wells at the facility are screened in the soil/saprolite layer overlying the resident bedrock. Two wells, MW-1A and MW-3A, are reportedly installed in bedrock. The two wells in the pair MW19/MW19-A are both screened in saprolite; MW-19A is screened deeper. In well pair MW-22/MW22-A, well MW-22 is screened in shallow saprolite and well MW-22A monitors the transition zone at the saprolite/bedrock interface.

Generally, groundwater flows across the closed portion of the facility to the west and northwest, and across the active area to the northwest and north. Groundwater flows

from upland areas toward Lake Emory. The background wells MW-10, MW-17, and MW-18 are situated hydrologically upgradient of the landfill, and all compliance wells are located hydrologically downgradient of the waste areas.

Previous investigators conducted both in-situ aquifer slug tests and laboratory permeability tests in order to estimate typical hydraulic conductivities at the site. Elevation data from the potentiometric map was utilized to estimate hydraulic gradients in the vicinity of the facility. This information has been applied in a form of Darcy's Law to calculate the groundwater seepage velocity across the site, which was estimated to be 11 ft/year. Groundwater flow rate calculations are included in Appendix A.

## 4.0 SAMPLING AND LABORATORY ANALYSIS

Monitoring wells at the MSW Landfill were purged and sampled using laboratory decontaminated Teflon® single check valve bailers. Field testing of pH, temperature, conductivity, and turbidity were measured to ensure adequate purging. Samples were collected in pre-cleaned and appropriately preserved containers, transported in iced coolers, and delivered to the laboratory in good condition. All wells were sampled during the 1st semi-annual sampling event with the exception of well MW-5, which was dry. Several groundwater samples were noted as exhibiting very high turbidity. Field sampling logs are included in Appendix B. A summary of field sample data is included in Section 8.0, Table 1.

All samples were analyzed by REIC's North Carolina certified laboratory. The laboratory quality assurance program included all appropriate, method specific quality controls (QC). All laboratory data met the required QC criteria and stringent REIC acceptance review prior to inclusion in this report. VOCs were detected in wells MW-1A and MW-1B; benzene and vinyl chloride exceeded North Carolina groundwater standards in both wells. No VOCs were detected in any other sample. The following metals were detected above North Carolina groundwater standards:

| **Parameter** | **Monitoring Well** |
|---|---|
| Chromium | MW-22 |
| Lead | MW-15, MW-19, MW-22 |

A summary of laboratory results in included in Section 8.0, Table 2. Laboratory reports and chain-of-custody records are included in Appendix C.

## 5.0 STATISTICAL ANALYSIS

A statistical analysis was conducted for the 1st semi-annual 2005 sampling event. Monitoring constituents were evaluated under the guidelines of "Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Addendum to Interim Final Guidance" (U.S. EPA Office of Solid Waste, July 1992). Downgradient well constituent concentrations were compared to upper prediction limits derived from historical data pooled from the three upgradient wells. The pooled upgradient data provides a characterization of spatial variability. Prediction intervals were constructed as follows. For constituents where more than 15 but less than 50 percent of the data were below PQLs, parametric prediction intervals modified by Cohen's Adjustment were utilized. Tables from "Statistical Methods for Groundwater Monitoring", (Robert D. Gibbons, 1994) were utilized to calculate parametric limits (see Appendix D). Data utilized for parametric limits was tested for normality using the Shapiro-Wilk test, and logarithmic transformations were used when appropriate. For constituents where 50 percent or more of the data were below PQLs, a non-parametric prediction limit was constructed using the maximum historical background measurement. Organic constituents were designated as significantly elevated when they were quantified at or above PQLs.

A summary of the VOCs detected above PQLs is as follows:

| **Parameter** | **Monitoring Well** |
|---|---|
| Benzene | MW-1A, MW-1B |
| 1,1-Dichloroethane | MW-1A, MW-1B |
| Vinyl Chloride | MW-1A, MW-1B |

Statistical analysis of analytical results for metals yielded the following elevations:

| **Parameter** | **Monitoring Well** |
|---|---|
| Barium | MW-22 |
| Beryllium | MW-22 |
| Chromium | MW-22 |
| Cobalt | MW-22 |
| Lead | MW- 19, MW-22 |
| Nickel | MW-22 |
| Vanadium | MW-22 |

The samples from wells MW-19 and MW-22 exhibited very high suspended solids, and dissolved metals were not detected. Therefore, it is the professional opinion of REIC that the total metals elevations are due to incorporation of local geologic material into the sample via suspended solids, and that the above elevations are not due to landfill impact to groundwater, but rather to naturally occurring metals present in the aquifer. Statistical data is included in Appendix D.

## 6.0 CONCLUSIONS AND RECOMMENDATIONS

- The 1st semi-annual 2005 water quality monitoring event at the Macon County MSW Landfill has been performed in accordance with State and Federal Guidelines.

- The direction of groundwater flow in the vicinity of the waste areas is generally to the west, northwest, and north from upland areas toward Lake Emory.

- The average rate of groundwater flow in the vicinity of the landfill is estimated at 11 feet/year.

- Benzene, 1,1-dichloroethane, and vinyl chloride were detected in wells MW-1A and MW-1B. VOCs were not detected in any other samples.

- Benzene and vinyl chloride exceeded North Carolina groundwater standards in wells MW-1A and MW-1B.

- The following metals were statistically elevated: barium, beryllium, chromium, cobalt, lead, nickel, and vanadium in well MW-22; and lead in MW-19. No metals were statistically elevated in any other sample.

- The following metals exceeded North Carolina groundwater standards: lead in wells MW-15, MW-19, and MW-22; and chromium in well MW-22.

- It is the professional opinion of REIC that the total metals elevations are due to incorporation of local geologic material into the sample via suspended solids, and that the above elevations are not due to landfill impact to groundwater, but rather to naturally occurring metals present in the aquifer.

# *7.0 Figure*

# *Appendix A*

*Groundwater Flow Rate*

Flow Path

| X | Y | Distance (ft) |
|---|---|---|
| 2603.6 | -668.4 | |
| 2611.9 | -635.4 | 34.0 |
| 2620.1 | -607.4 | 29.2 |
| 2639.9 | -566.1 | 45.8 |
| 2674.6 | -500.1 | 74.6 |
| 2724.1 | -419.2 | 94.8 |
| 2796.8 | -305.3 | 135.1 |
| 2866.1 | -221.1 | 109.1 |
| 2975.1 | -94.0 | 167.4 |
| 3067.5 | 6.7 | 136.7 |
| 3143.4 | 77.7 | 103.9 |
| 3183.1 | 110.7 | 51.6 |

| | | |
|---|---|---|
| Horizontal Distance | 982.3 | ft |
| Vertical Difference | 60 | ft |

| | | |
|---|---|---|
| Hydraulic gradient, I | 0.061 | ft/ft |
| K | 4.9E-05 | cm/sec |
| $n_{eff}$ | 0.27 | |
| $V = KI/n_{eff}$ | 11 | ft/yr |

# *Appendix B*

*Field Sample Logs*

# REI CONSULTANTS GROUNDWATER SAMPLING LOG

**Project Name:** MSW Landfill **Project :** 1st Semi 2005 **Well #:** MW-1A

**Contact Person:** Chris Stahl **Phone #:** (828) 349-2185

## WELL CONDITION DATA

| | Y | N | | Y | N |
|---|---|---|---|---|---|
| Protective Casing Present | X | | Physical Damage | | X |
| Protective Casing Locked | | X | Concrete/Grout Pad Present | X | |
| Cap on Well Riser | X | | 2" PVC Casing | X | |

**Comments:**

## PURGING DATA

**Date/Time:** 04-19-05 1057 **Weather Conditions:** Sunny 65°F

| | | | | |
|---|---|---|---|---|
| Static Depth (Depth to Water) | 4.98 | (Ft) | Volume | 15.12 (Liters) |
| Well Depth | 31.10 | (Ft) | 3 Volumes | 45.37 (Liters) |
| Water Column Height | 26.12 | (Ft) | Volume Purged | 46 (Liters) |

## EVACUATION/STABILIZATION TEST DATA

| Time | pH (SU) | Temperature Corrected Conductivity (umhos/cm) | Temperature (°C) | Turbidity (NTU) | Volume Purged (Liters) |
|---|---|---|---|---|---|
| 1100 | 5.71 | 167.0 | 14.3 | 2.96 | 1 |
| 1102 | 5.46 | 167.5 | 13.7 | 2.49 | 8 |
| 1104 | 5.52 | 167.3 | 13.8 | 3.75 | 16 |
| 1106 | 5.55 | 166.8 | 13.7 | 2.83 | 24 |
| 1107 | 5.53 | 166.3 | 13.8 | 1.78 | 32 |
| 1109 | 5.56 | 166.1 | 13.8 | 2.93 | 40 |
| 1110 | | Finished Purging | | | 46 |

## SAMPLING DATA

**Date:** 04-19-05 **Time:** 1113

**Method:** Teflon Bailer **Sampling Depth:** 4.98'

**pH:** 5.44 **Conductivity:** 166.4 (umhos/cm)

**Temperature:** 14.1 (°C) **Turbidity:** 3.16 (NTU)

**Odor and Physical Appearance of Sample:** Clear - no odor

**Comments:**

**Sampled By:** R. Farley/A. McBride/M. Lester

**Sampler's Signature:** R Farley **Date:** 04-19-05

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# REI CONSULTANTS GROUNDWATER SAMPLING LOG

**Project Name:** MSW Landfill **Project :** 1st Semi 2005 **Well #:** MW-1B

**Contact Person:** Chris Stahl **Phone #:** (828) 349-2185

## WELL CONDITION DATA

| | Y | N | | Y | N |
|---|---|---|---|---|---|
| Protective Casing Present | X | | Physical Damage | | X |
| Protective Casing Locked | X | | Concrete/Grout Pad Present | X | |
| Cap on Well Riser | X | | 2" PVC Casing | X | |

**Comments:**

## PURGING DATA

**Date/Time:** 04-10-05 1115 **Weather Conditions:** Sunny 68°F

| | | | | |
|---|---|---|---|---|
| Static Depth (Depth to Water) | 4.98 | (Ft) | Volume | 7.22 (Liters) |
| Well Depth | 17.45 | (Ft) | 3 Volumes | 21.66 (Liters) |
| Water Column Height | 12.47 | (Ft) | Volume Purged | 22 (Liters) |

## EVACUATION/STABILIZATION TEST DATA

| Time | pH (SU) | Temperature Corrected Conductivity (umhos/cm) | Temperature (°C) | Turbidity (NTU) | Volume Purged (Liters) |
|---|---|---|---|---|---|
| 1118 | 5.45 | 152.5 | 13.9 | 1.40 | 1 |
| 1119 | 5.47 | 154.4 | 12.9 | 4.36 | 4 |
| 1120 | 5.48 | 153.7 | 12.5 | 5.31 | 8 |
| 1121 | 5.49 | 152.3 | 12.8 | 5.85 | 12 |
| 1123 | 5.46 | 151.4 | 12.8 | 7.13 | 16 |
| 1124 | 5.46 | 150.8 | 12.9 | 7.35 | 20 |
| 1125 | | Finished Purging | | | 22 |

## SAMPLING DATA

**Date:** 04-19-05 **Time:** 1127

**Method:** Teflon Bailer **Sampling Depth:** 4.98'

**pH:** 5.44 **Conductivity:** 150.1 (umhos/cm)

**Temperature:** 13.2 (°C) **Turbidity:** 7.09 (NTU)

**Odor and Physical Appearance of Sample:** Clear - no odor

**Comments:**

**Sampled By:** R. Farley/A. McBride/M. Lester

**Sampler's Signature:** R Farley **Date:** 04-19-05

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# REI CONSULTANTS GROUNDWATER SAMPLING LOG

**Project Name:** MSW Landfill **Project :** 1st Semi 2005 **Well #:** MW-2

**Contact Person:** Chris Stahl **Phone #:** (828) 349-2185

## WELL CONDITION DATA

| | Y | N | | Y | N |
|---|---|---|---|---|---|
| Protective Casing Present | X | | Physical Damage | | X |
| Protective Casing Locked | X | | Concrete/Grout Pad Present | X | |
| Cap on Well Riser | X | | 2" PVC Casing | X | |

**Comments:**

## PURGING DATA

**Date/Time:** 04-19-05 1137 **Weather Conditions:** Sunny 70°F

| | | | | |
|---|---|---|---|---|
| Static Depth (Depth to Water) | 11.90 | (Ft) | Volume | 4.77 (Liters) |
| Well Depth | 20.15 | (Ft) | 3 Volumes | 14.33 (Liters) |
| Water Column Height | 8.25 | (Ft) | Volume Purged | 15 (Liters) |

## EVACUATION/STABILIZATION TEST DATA

| Time | pH (SU) | Temperature Corrected Conductivity (umhos/cm) | Temperature (°C) | Turbidity (NTU) | Volume Purged (Liters) |
|---|---|---|---|---|---|
| 1142 | 6.04 | 241 | 14.6 | 6.08 | 1 |
| 1143 | 6.08 | 364 | 13.6 | 105.4 | 3 |
| 1145 | 6.09 | 414 | 13.4 | 111.7 | 5 |
| 1146 | 6.13 | 436 | 13.2 | 161.1 | 7 |
| 1147 | 6.14 | 453 | 13.2 | 179.2 | 9 |
| 1148 | 6.14 | 458 | 13.2 | 164.3 | 11 |
| 1149 | | Finished Purging | | | 15 |

## SAMPLING DATA

**Date:** 04-19-05 **Time:** 1153

**Method:** Teflon Bailer **Sampling Depth:** 12.70'

**pH:** 6.16 **Conductivity:** 464 (umhos/cm)

**Temperature:** 13.6 (°C) **Turbidity:** 50.7 (NTU)

**Odor and Physical Appearance of Sample:** Cloudy - slight odor

**Comments:**

**Sampled By:** R. Farley/A. McBride/M. Lester

**Sampler's Signature:** R Farley **Date:** 04-19-05

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# REI CONSULTANTS GROUNDWATER SAMPLING LOG

**Project Name:** MSW Landfill **Project :** 1st Semi 2005 **Well #:** MW-3A

**Contact Person:** Chris Stahl **Phone #:** (828) 349-2185

## WELL CONDITION DATA

| | Y | N | | Y | N |
|---|---|---|---|---|---|
| Protective Casing Present | X | | Physical Damage | | X |
| Protective Casing Locked | X | | Concrete/Grout Pad Present | X | |
| Cap on Well Riser | X | | 2" PVC Casing | X | |

**Comments:**

## PURGING DATA

**Date/Time:** 04-19-05 1600 **Weather Conditions:** Sunny 75°F

| | | | | |
|---|---|---|---|---|
| Static Depth (Depth to Water) | 59.22 | (Ft) | Volume | 4.86 (Liters) |
| Well Depth | 67.62 | (Ft) | 3 Volumes | 14.59 (Liters) |
| Water Column Height | 8.40 | (Ft) | Volume Purged | 15 (Liters) |

## EVACUATION/STABILIZATION TEST DATA

| Time | pH (SU) | Temperature Corrected Conductivity (umhos/cm) | Temperature (°C) | Turbidity (NTU) | Volume Purged (Liters) |
|---|---|---|---|---|---|
| 1603 | 5.47 | 26.8 | 17.4 | 4.37 | 1 |
| 1604 | 5.41 | 25.8 | 15.9 | 5.36 | 3 |
| 1605 | 5.43 | 25.9 | 15.5 | 5.51 | 5 |
| 1606 | 5.42 | 26.5 | 15.5 | 7.29 | 7 |
| 1607 | 5.42 | 27.2 | 15.5 | 5.72 | 9 |
| 1608 | 5.41 | 27.4 | 15.4 | 5.12 | 11 |
| 1609 | | Finished Purging | | | 15 |

## SAMPLING DATA

**Date:** 04-19-05 **Time:** 1613

**Method:** Teflon Bailer **Sampling Depth:** 59.22'

**pH:** 5.44 **Conductivity:** 27.2 (umhos/cm)

**Temperature:** 15.7 (°C) **Turbidity:** 5.79 (NTU)

**Odor and Physical Appearance of Sample:** Clear - no odor

**Comments:**

**Sampled By:** R. Farley/A. McBride/M. Lester

**Sampler's Signature:** R Farley **Date:** 04-19-05

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# REI CONSULTANTS GROUNDWATER SAMPLING LOG

**Project Name:** MSW Landfill **Project :** 1st Semi 2005 **Well #:** MW-5

**Contact Person:** Chris Stahl **Phone #:** (828) 349-2185

## WELL CONDITION DATA

| | Y | N | | Y | N |
|---|---|---|---|---|---|
| Protective Casing Present | X | | Physical Damage | | X |
| Protective Casing Locked | | X | Concrete/Grout Pad Present | X | |
| Cap on Well Riser | X | | 2" PVC Casing | X | |

**Comments:**

## PURGING DATA

**Date/Time:** 04-19-05 1555 **Weather Conditions:** Sunny 75°F

| | | | | |
|---|---|---|---|---|
| Static Depth (Depth to Water) | 54.20 | (Ft) | Volume | 0.57 (Liters) |
| Well Depth | 55.20 | (Ft) | 3 Volumes | 1.73 (Liters) |
| Water Column Height | 1.00 | (Ft) | Volume Purged | 0 (Liters) |

## EVACUATION/STABILIZATION TEST DATA

| Time | pH (SU) | Temperature Corrected Conductivity (umhos/cm) | Temperature (°C) | Turbidity (NTU) | Volume Purged (Liters) |
|---|---|---|---|---|---|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

## SAMPLING DATA

**Date:** **Time:**

**Method:** **Sampling Depth:**

**pH:** **Conductivity:** (umhos/cm)

**Temperature:** (°C) **Turbidity:** (NTU)

**Odor and Physical Appearance of Sample:**

**Comments:** Did not sample

**Sampled By:** R. Farley/A. McBride/M. Lester

**Sampler's Signature:** R Farley **Date:** 04-19-05

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# REI CONSULTANTS GROUNDWATER SAMPLING LOG

**Project Name:** MSW Landfill **Project :** 1st Semi 2005 **Well #:** MW-10

**Contact Person:** Chris Stahl **Phone #:** (828) 349-2185

## WELL CONDITION DATA

| | Y | N | | Y | N |
|---|---|---|---|---|---|
| Protective Casing Present | X | | Physical Damage | | X |
| Protective Casing Locked | X | | Concrete/Grout Pad Present | X | |
| Cap on Well Riser | X | | 2" PVC Casing | X | |

**Comments:**

## PURGING DATA

**Date/Time:** 04-19-05 1520 **Weather Conditions:** Sunny 80°F

| | | | | |
|---|---|---|---|---|
| Static Depth (Depth to Water) | 56.02 | (Ft) | Volume | 6.70 (Liters) |
| Well Depth | 67.60 | (Ft) | 3 Volumes | 20.11 (Liters) |
| Water Column Height | 11.58 | (Ft) | Volume Purged | 10 (Liters) |

## EVACUATION/STABILIZATION TEST DATA

| Time | pH (SU) | Temperature Corrected Conductivity (umhos/cm) | Temperature (°C) | Turbidity (NTU) | Volume Purged (Liters) |
|---|---|---|---|---|---|
| 1525 | 5.37 | 135.5 | 15.6 | 59.4 | 1 |
| 1526 | 5.30 | 155.9 | 14.7 | >200 | 3 |
| 1527 | 5.31 | 136.9 | 14.5 | >200 | 6 |
| 1528 | 5.40 | 137.9 | 14.5 | >200 | 9 |
| | | | | | |
| | | | | | |
| 1528 | | Purged Dry | | | 10 |

## SAMPLING DATA

**Date:** 04-19-05 **Time:** 1538

**Method:** Teflon Bailer **Sampling Depth:** 63.67'

**pH:** 5.35 **Conductivity:** 138.6 (umhos/cm)

**Temperature:** 15.3 (°C) **Turbidity:** 33.5 (NTU)

**Odor and Physical Appearance of Sample:** Cloudy - no odor

**Comments:**

**Sampled By:** R. Farley/A. McBride/M. Lester

**Sampler's Signature:** R Farley **Date:** 04-19-05

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# REI CONSULTANTS GROUNDWATER SAMPLING LOG

**Project Name:** MSW Landfill **Project :** 1st Semi 2005 **Well #:** MW-14

**Contact Person:** Chris Stahl **Phone #:** (828) 349-2185

## WELL CONDITION DATA

| | Y | N | | Y | N |
|---|---|---|---|---|---|
| Protective Casing Present | X | | Physical Damage | | X |
| Protective Casing Locked | X | | Concrete/Grout Pad Present | X | |
| Cap on Well Riser | X | | 2" PVC Casing | X | |

**Comments:**

## PURGING DATA

**Date/Time:** 04-19-05 1216 **Weather Conditions:** Sunny 80°F

| | | | | |
|---|---|---|---|---|
| Static Depth (Depth to Water) | 34.40 | (Ft) | Volume | 4.73 (Liters) |
| Well Depth | 42.57 | (Ft) | 3 Volumes | 14.19 (Liters) |
| Water Column Height | 8.17 | (Ft) | Volume Purged | 6 (Liters) |

## EVACUATION/STABILIZATION TEST DATA

| Time | pH (SU) | Temperature Corrected Conductivity (umhos/cm) | Temperature (°C) | Turbidity (NTU) | Volume Purged (Liters) |
|---|---|---|---|---|---|
| 1221 | 5.55 | 20.5 | 16.2 | 174.3 | 1 |
| 1223 | 5.12 | 20.1 | 14.9 | >200 | 3 |
| 1225 | 5.10 | 20.5 | 14.9 | >200 | 6 |
| | | | | | |
| | | | | | |
| | | | | | |
| 1225 | | | | | 6 |

## SAMPLING DATA

**Date:** 04-19-05 **Time:** 1236

**Method:** Teflon Bailer **Sampling Depth:** 38.27'

**pH:** 5.22 **Conductivity:** 18.3 (umhos/cm)

**Temperature:** 15.6 (°C) **Turbidity:** 115.4 (NTU)

**Odor and Physical Appearance of Sample:** Cloudy - no odor

**Comments:**

**Sampled By:** R. Farley/A. McBride/M. Lester

**Sampler's Signature:** R Farley **Date:** 04-19-05

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# REI CONSULTANTS GROUNDWATER SAMPLING LOG

**Project Name:** MSW Landfill **Project :** 1st Semi 2005 **Well #:** MW-15

**Contact Person:** Chris Stahl **Phone #:** (828) 349-2185

## WELL CONDITION DATA

| | Y | N | | Y | N |
|---|---|---|---|---|---|
| Protective Casing Present | X | | Physical Damage | | X |
| Protective Casing Locked | X | | Concrete/Grout Pad Present | X | |
| Cap on Well Riser | X | | 2" PVC Casing | X | |

**Comments:**

## PURGING DATA

**Date/Time:** 04-19-05 1259 **Weather Conditions:** Sunny 80°F

| | | | | |
|---|---|---|---|---|
| Static Depth (Depth to Water) | 13.35 | (Ft) | Volume | 2.67 (Liters) |
| Well Depth | 17.97 | (Ft) | 3 Volumes | 8.02 (Liters) |
| Water Column Height | 4.62 | (Ft) | Volume Purged | 9 (Liters) |

## EVACUATION/STABILIZATION TEST DATA

| Time | pH (SU) | Temperature Corrected Conductivity (umhos/cm) | Temperature (°C) | Turbidity (NTU) | Volume Purged (Liters) |
|---|---|---|---|---|---|
| 1301 | 4.90 | 33.6 | 16.6 | 60.4 | 1 |
| 1302 | 4.54 | 52.9 | 13.6 | >200 | 3 |
| 1303 | 4.47 | 59.8 | 13.6 | >200 | 5 |
| 1304 | 4.45 | 63.9 | 13.4 | >200 | 7 |
| 1306 | 4.46 | 70.2 | 13.5 | >200 | 9 |
| | | | | | |
| 1306 | | Finished Purging | | | 9 |

## SAMPLING DATA

**Date:** 04-19-05 **Time:** 1310

**Method:** Teflon Bailer **Sampling Depth:** 13.70'

**pH:** 4.47 **Conductivity:** 65.6 (umhos/cm)

**Temperature:** 14.1 (°C) **Turbidity:** >200 (NTU)

**Odor and Physical Appearance of Sample:** Cloudy - no odor

**Comments:**

**Sampled By:** R. Farley/A. McBride/M. Lester

**Sampler's Signature:** R Farley **Date:** 04-19-05

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# REI CONSULTANTS GROUNDWATER SAMPLING LOG

**Project Name:** MSW Landfill **Project :** 1st Semi 2005 **Well #:** MW-17

**Contact Person:** Chris Stahl **Phone #:** (828) 349-2185

## WELL CONDITION DATA

| | Y | N | | Y | N |
|---|---|---|---|---|---|
| Protective Casing Present | X | | Physical Damage | | X |
| Protective Casing Locked | X | | Concrete/Grout Pad Present | X | |
| Cap on Well Riser | X | | 2" PVC Casing | X | |

**Comments:**

## PURGING DATA

**Date/Time:** 04-19-05 1415 **Weather Conditions:** Sunny 80°F

| | | | | |
|---|---|---|---|---|
| Static Depth (Depth to Water) | 67.07 | (Ft) | Volume | 9.39 (Liters) |
| Well Depth | 83.30 | (Ft) | 3 Volumes | 28.19 (Liters) |
| Water Column Height | 16.23 | (Ft) | Volume Purged | 29 (Liters) |

## EVACUATION/STABILIZATION TEST DATA

| Time | pH (SU) | Temperature Corrected Conductivity (umhos/cm) | Temperature (°C) | Turbidity (NTU) | Volume Purged (Liters) |
|---|---|---|---|---|---|
| 1424 | 4.81 | 76.9 | 17.0 | 3.16 | 1 |
| 1425 | 4.82 | 92.4 | 15.1 | >200 | 5 |
| 1429 | 4.77 | 95.4 | 14.8 | >200 | 10 |
| 1431 | 4.76 | 88.9 | 14.5 | >200 | 15 |
| 1433 | 4.76 | 83.4 | 14.5 | >200 | 20 |
| 1435 | 4.77 | 75.0 | 14.4 | >200 | 25 |
| 1437 | | Finished Purging | | | 29 |

## SAMPLING DATA

**Date:** 04-19-05 **Time:** 1440

**Method:** Teflon Bailer **Sampling Depth:** 71.06'

**pH:** 4.75/Dupe 4.78 **Conductivity:** 70.8/Dupe 69.9 (umhos/cm)

**Temperature:** 16.1/Dupe 16.5 (°C) **Turbidity:** >200/Dupe >200 (NTU)

**Odor and Physical Appearance of Sample:** Cloudy, no odor

**Comments:**

**Sampled By:** R. Farley/A. McBride/M. Lester

**Sampler's Signature:** R Farley **Date:** 04-19-05

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# REI CONSULTANTS GROUNDWATER SAMPLING LOG

**Project Name:** MSW Landfill **Project :** 1st Semi 2005 **Well #:** MW-18

**Contact Person:** Chris Stahl **Phone #:** (828) 349-2185

## WELL CONDITION DATA

| | Y | N | | Y | N |
|---|---|---|---|---|---|
| Protective Casing Present | X | | Physical Damage | | X |
| Protective Casing Locked | X | | Concrete/Grout Pad Present | X | |
| Cap on Well Riser | X | | 2" PVC Casing | X | |

**Comments:**

## PURGING DATA

**Date/Time:** 04-19-05 1455 **Weather Conditions:** Sunny 80°F

| | | | | |
|---|---|---|---|---|
| Static Depth (Depth to Water) | 50.99 | (Ft) | Volume | 6.42 (Liters) |
| Well Depth | 62.08 | (Ft) | 3 Volumes | 19.26 (Liters) |
| Water Column Height | 11.09 | (Ft) | Volume Purged | 20 (Liters) |

## EVACUATION/STABILIZATION TEST DATA

| Time | pH (SU) | Temperature Corrected Conductivity (umhos/cm) | Temperature (°C) | Turbidity (NTU) | Volume Purged (Liters) |
|---|---|---|---|---|---|
| 1501 | 5.99 | 75.2 | 16.0 | 2.96 | 1 |
| 1502 | 5.98 | 82.2 | 15.2 | >200 | 4 |
| 1504 | 6.10 | 77.9 | 14.8 | >200 | 8 |
| 1506 | 6.12 | 75.8 | 14.8 | >200 | 12 |
| 1508 | 5.98 | 66.8 | 14.7 | >200 | 16 |
| 1510 | 5.93 | 63.7 | 14.6 | >200 | 20 |
| 1510 | | Finished Purging | | | 20 |

## SAMPLING DATA

**Date:** 04-19-05 **Time:** 1513

**Method:** Teflon Bailer **Sampling Depth:** 55.24'

**pH:** 5.89 **Conductivity:** 62.5 (umhos/cm)

**Temperature:** 15.2 (°C) **Turbidity:** >200 (NTU)

**Odor and Physical Appearance of Sample:** Cloudy, no odor

**Comments:**

**Sampled By:** R. Farley/A. McBride/M. Lester

**Sampler's Signature:** R Farley **Date:** 04-19-05

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# REI CONSULTANTS GROUNDWATER SAMPLING LOG

**Project Name:** MSW Landfill **Project :** 1st Semi 2005 **Well #:** MW-19

**Contact Person:** Chris Stahl **Phone #:** (828) 349-2185

## WELL CONDITION DATA

| | Y | N | | Y | N |
|---|---|---|---|---|---|
| Protective Casing Present | X | | Physical Damage | | X |
| Protective Casing Locked | X | | Concrete/Grout Pad Present | X | |
| Cap on Well Riser | X | | 2" PVC Casing | X | |

**Comments:**

## PURGING DATA

**Date/Time:** 04-19-05 0746 **Weather Conditions:** Sunny 50°F

| | | | | |
|---|---|---|---|---|
| Static Depth (Depth to Water) | 20.10 | (Ft) | Volume | 3.30 (Liters) |
| Well Depth | 25.80 | (Ft) | 3 Volumes | 9.90 (Liters) |
| Water Column Height | 5.70 | (Ft) | Volume Purged | 10 (Liters) |

## EVACUATION/STABILIZATION TEST DATA

| Time | pH (SU) | Temperature Corrected Conductivity (umhos/cm) | Temperature (°C) | Turbidity (NTU) | Volume Purged (Liters) |
|---|---|---|---|---|---|
| 0751 | 5.08 | 39.0 | 13.6 | 72.8 | 1 |
| 0752 | 5.01 | 38.6 | 13.9 | >200 | 3 |
| 0753 | 4.99 | 28.5 | 14.2 | >200 | 5 |
| 0754 | 4.97 | 38.5 | 14.2 | >200 | 7 |
| 0755 | 4.92 | 38.5 | 14.1 | >200 | 9 |
| | | | | | |
| 0756 | | Finished Purging | | | 10 |

## SAMPLING DATA

**Date:** 04-19-05 **Time:** 0800

**Method:** Teflon Bailer **Sampling Depth:** 20.15'

**pH:** 4.77 **Conductivity:** 38.9 (umhos/cm)

**Temperature:** 13.5 (°C) **Turbidity:** >200 (NTU)

**Odor and Physical Appearance of Sample:** Muddy - no odor

**Comments:**

**Sampled By:** R. Farley/A. McBride/M. Lester

**Sampler's Signature:** R Farley **Date:** 04-19-05

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# REI CONSULTANTS GROUNDWATER SAMPLING LOG

**Project Name:** MSW Landfill **Project :** 1st Semi 2005 **Well #:** MW-19A

**Contact Person:** Chris Stahl **Phone #:** (828) 349-2185

## WELL CONDITION DATA

| | Y | N | | Y | N |
|---|---|---|---|---|---|
| Protective Casing Present | X | | Physical Damage | | X |
| Protective Casing Locked | X | | Concrete/Grout Pad Present | X | |
| Cap on Well Riser | X | | 2" PVC Casing | X | |

**Comments:**

## PURGING DATA

**Date/Time:** 04-19-05 0805 **Weather Conditions:** Sunny 50°F

| | | | | |
|---|---|---|---|---|
| Static Depth (Depth to Water) | 19.36 | (Ft) | Volume | 21.84 (Liters) |
| Well Depth | 57.09 | (Ft) | 3 Volumes | 65.53 (Liters) |
| Water Column Height | 37.73 | (Ft) | Volume Purged | 27 (Liters) |

## EVACUATION/STABILIZATION TEST DATA

| Time | pH (SU) | Temperature Corrected Conductivity (umhos/cm) | Temperature (°C) | Turbidity (NTU) | Volume Purged (Liters) |
|---|---|---|---|---|---|
| 0807 | 5.68 | 59.1 | 13.4 | 4.41 | 1 |
| 0810 | 5.91 | 58.4 | 13.5 | 6.89 | 12 |
| 0813 | 6.05 | 59.4 | 13.4 | 140.2 | 24 |
| | | | | | |
| | | | | | |
| | | | | | |
| 0814 | | Purged Dry | | | 27 |

## SAMPLING DATA

**Date:** 04-19-05 **Time:** 1635

**Method:** Teflon Bailer **Sampling Depth:** 43.35'

**pH:** 6.35 **Conductivity:** 48.4 (umhos/cm)

**Temperature:** 16.0 (°C) **Turbidity:** 2.25 (NTU)

**Odor and Physical Appearance of Sample:** Clear, no odor

**Comments:**

**Sampled By:** R. Farley/A. McBride/M. Lester

**Sampler's Signature:** R Farley **Date:** 04-19-05

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# REI CONSULTANTS GROUNDWATER SAMPLING LOG

**Project Name:** MSW Landfill **Project :** 1st Semi 2005 **Well #:** MW-20

**Contact Person:** Chris Stahl **Phone #:** (828) 349-2185

## WELL CONDITION DATA

| | Y | N | | Y | N |
|---|---|---|---|---|---|
| Protective Casing Present | X | | Physical Damage | | X |
| Protective Casing Locked | X | | Concrete/Grout Pad Present | X | |
| Cap on Well Riser | X | | 2" PVC Casing | X | |

**Comments:**

## PURGING DATA

**Date/Time:** 04-19-05 0844 **Weather Conditions:** Sunny 55°F

| | | | | |
|---|---|---|---|---|
| Static Depth (Depth to Water) | 12.14 | (Ft) | Volume | 6.30 (Liters) |
| Well Depth | 23.03 | (Ft) | 3 Volumes | 18.91 (Liters) |
| Water Column Height | 10.89 | (Ft) | Volume Purged | 22 (Liters) |

## EVACUATION/STABILIZATION TEST DATA

| Time | pH (SU) | Temperature Corrected Conductivity (umhos/cm) | Temperature (°C) | Turbidity (NTU) | Volume Purged (Liters) |
|---|---|---|---|---|---|
| 0850 | 4.35 | 46.4 | 11.2 | 6.38 | 1 |
| 0852 | 4.04 | 48.1 | 11.3 | 63.3 | 4 |
| 0854 | 4.14 | 46.0 | 11.2 | 100.9 | 8 |
| 0855 | 4.01 | 46.3 | 11.2 | 92.5 | 12 |
| 0857 | 4.02 | 46.3 | 11.3 | 79.2 | 16 |
| 0859 | 3.99 | 48.9 | 11.3 | 111.8 | 20 |
| 0900 | | Finished Purging | | | 22 |

## SAMPLING DATA

**Date:** 04-19-05 **Time:** 0903

**Method:** Teflon Bailer **Sampling Depth:** 12.26'

**pH:** 4.03 **Conductivity:** 45.5 (umhos/cm)

**Temperature:** 11.5 (°C) **Turbidity:** 34.8 (NTU)

**Odor and Physical Appearance of Sample:** Clear - no odor

**Comments:**

**Sampled By:** R. Farley/A. McBride/M. Lester

**Sampler's Signature:** R Farley **Date:** 04-19-05

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# REI CONSULTANTS GROUNDWATER SAMPLING LOG

**Project Name:** MSW Landfill **Project :** 1st Semi 2005 **Well #:** MW-21

**Contact Person:** Chris Stahl **Phone #:** (828) 349-2185

## WELL CONDITION DATA

| | Y | N | | Y | N |
|---|---|---|---|---|---|
| Protective Casing Present | X | | Physical Damage | | X |
| Protective Casing Locked | X | | Concrete/Grout Pad Present | X | |
| Cap on Well Riser | X | | 2" PVC Casing | X | |

**Comments:**

## PURGING DATA

**Date/Time:** 04-19-05 0909 **Weather Conditions:** Sunny 58°F

| | | | | |
|---|---|---|---|---|
| Static Depth (Depth to Water) | 14.79 | (Ft) | Volume | 7.02 (Liters) |
| Well Depth | 26.93 | (Ft) | 3 Volumes | 21.08 (Liters) |
| Water Column Height | 12.14 | (Ft) | Volume Purged | 22 (Liters) |

## EVACUATION/STABILIZATION TEST DATA

| Time | pH (SU) | Temperature Corrected Conductivity (umhos/cm) | Temperature (°C) | Turbidity (NTU) | Volume Purged (Liters) |
|---|---|---|---|---|---|
| 0912 | 4.74 | 57.2 | 12.7 | 10.59 | 1 |
| 0913 | 4.89 | 68.2 | 12.7 | 44.4 | 4 |
| 0915 | 5.04 | 73.1 | 12.7 | 104.3 | 8 |
| 0917 | 5.11 | 75.1 | 12.8 | 98.9 | 12 |
| 0919 | 5.11 | 74.3 | 13.6 | 52.3 | 16 |
| 0921 | 5.15 | 77.3 | 13.2 | 33.2 | 20 |
| 0923 | | Finished Purging | | | 22 |

## SAMPLING DATA

**Date:** 04-19-05 **Time:** 0929

**Method:** Teflon Bailer **Sampling Depth:** 17.60'

**pH:** 5.16 **Conductivity:** 76.1 (umhos/cm)

**Temperature:** 13.7 (°C) **Turbidity:** 16.4 (NTU)

**Odor and Physical Appearance of Sample:** Clear - no odor

**Comments:**

**Sampled By:** R. Farley/A. McBride/M. Lester

**Sampler's Signature:** R Farley **Date:** 04-19-05

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# REI CONSULTANTS GROUNDWATER SAMPLING LOG

**Project Name:** MSW Landfill **Project:** 1st Semi 2005 **Well #:** MW-22

**Contact Person:** Chris Stahl **Phone #:** (828) 349-2185

## WELL CONDITION DATA

| | Y | N | | Y | N |
|---|---|---|---|---|---|
| Protective Casing Present | X | | Physical Damage | | X |
| Protective Casing Locked | X | | Concrete/Grout Pad Present | X | |
| Cap on Well Riser | X | | 2" PVC Casing | X | |

**Comments:**

## PURGING DATA

**Date/Time:** 04-19-05 0948 **Weather Conditions:** Sunny 65°F

| | | | | |
|---|---|---|---|---|
| Static Depth (Depth to Water) | 14.00 | (Ft) | Volume | 6.42 (Liters) |
| Well Depth | 25.10 | (Ft) | 3 Volumes | 19.28 (Liters) |
| Water Column Height | 11.10 | (Ft) | Volume Purged | 20 (Liters) |

## EVACUATION/STABILIZATION TEST DATA

| Time | pH (SU) | Temperature Corrected Conductivity (umhos/cm) | Temperature (°C) | Turbidity (NTU) | Volume Purged (Liters) |
|---|---|---|---|---|---|
| 1019 | 5.63 | 78.9 | 13.3 | 153.9 | 1 |
| 1020 | 5.49 | 61.6 | 13.1 | >200 | 3 |
| 1022 | 5.42 | 70.6 | 13.1 | >200 | 6 |
| 1023 | 5.41 | 77.8 | 13.1 | >200 | 9 |
| 0124 | 5.39 | 90.8 | 13.3 | >200 | 12 |
| 1025 | 5.43 | 103.3 | 13.4 | >200 | 15 |
| 1027 | | Finished Purging | | | 20 |

## SAMPLING DATA

**Date:** 04-19-05 **Time:** 1030

**Method:** Teflon Bailer **Sampling Depth:** 15.01'

**pH:** 5.45 **Conductivity:** 117.3 (umhos/cm)

**Temperature:** 13.6 (°C) **Turbidity:** >200 (NTU)

**Odor and Physical Appearance of Sample:** Muddy - no odor

**Comments:**

**Sampled By:** R. Farley/A. McBride/M. Lester

**Sampler's Signature:** R Farley **Date:** 04-19-05

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# REI CONSULTANTS GROUNDWATER SAMPLING LOG

**Project Name:** MSW Landfill **Project :** 1st Semi 2005 **Well #:** MW-22A

**Contact Person:** Chris Stahl **Phone #:** (828) 349-2185

## WELL CONDITION DATA

| | Y | N | | Y | N |
|---|---|---|---|---|---|
| Protective Casing Present | X | | Physical Damage | | X |
| Protective Casing Locked | X | | Concrete/Grout Pad Present | X | |
| Cap on Well Riser | X | | 2" PVC Casing | X | |

**Comments:**

## PURGING DATA

**Date/Time:** 04-19-05 0948 **Weather Conditions:** Sunny 65°F

| | | | | |
|---|---|---|---|---|
| Static Depth (Depth to Water) | 11.17 | (Ft) | Volume | 18.02 (Liters) |
| Well Depth | 42.30 | (Ft) | 3 Volumes | 54.07 (Liters) |
| Water Column Height | 31.13 | (Ft) | Volume Purged | 34 (Liters) |

## EVACUATION/STABILIZATION TEST DATA

| Time | pH (SU) | Temperature Corrected Conductivity (umhos/cm) | Temperature (°C) | Turbidity (NTU) | Volume Purged (Liters) |
|---|---|---|---|---|---|
| 1004 | 6.28 | 481 | 13.6 | 15.05 | 1 |
| 1007 | 6.44 | 483 | 13.8 | 12.32 | 10 |
| 1011 | 6.33 | 437 | 13.8 | 47.3 | 20 |
| 1014 | 5.95 | 296 | 14.1 | 139.7 | 30 |
| | | | | | |
| | | | | | |
| 1016 | | Purged Dry | | | 34 |

## SAMPLING DATA

**Date:** 04-19-05 **Time:** 1044

**Method:** Teflon Bailer **Sampling Depth:** 29.27'

**pH:** 6.37/Dupe 6.39 **Conductivity:** 540/Dupe 540 (umhos/cm)

**Temperature:** 15.0/Dupe 15.0 (°C) **Turbidity:** 16.75/Dupe 16.79 (NTU)

**Odor and Physical Appearance of Sample:** Clear - no odor

**Comments:**

**Sampled By:** R. Farley/A. McBride/M. Lester

**Sampler's Signature:** R Farley **Date:** 04-19-05

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# *Surface Water Sampling Log*

*REI Consultants, Inc.*

| | | | |
|---|---|---|---|
| Project Name: | MSW Landfill | | |
| Contact Person: | Chris Stahl | Phone/Fax: | (828) 349-2185 |

| | | | | |
|---|---|---|---|---|
| Outlet: | SW-3 | | | |
| Date: | 04-19-05 | Time: | 1650 | |
| pH: | 6.50 | Conductivity: | 50.4 | *umhos/cm* |
| Flow: | NA | Temperature: | 16.4 | $^{o}C$ |
| Sampled Odor and Physical Appearance: | | Clear, no odor | | |
| Comments: | Turbidity 21.6 NTU | | | |
| Outlet: | SW-4 | | | |
| Date: | 04-19-05 | Time: | 1715 | |
| pH: | 6.65 | Conductivity: | 55.5 | *umhos/cm* |
| Flow: | NA | Temperature: | 18.3 | $^{o}C$ |
| Sampled Odor and Physical Appearance: | | Clear, no odor | | |
| Comments: | Turbidity 20.31 NTU | | | |
| Outlet: | SW-1 | | | |
| Date: | 04-20-05 | Time: | 0655 | |
| pH: | 6.44 | Conductivity: | 73.2 | *umhos/cm* |
| Flow: | NA | Temperature: | 13.1 | $^{o}C$ |
| Sampled Odor and Physical Appearance: | | Clear, no odor | | |
| Comments: | Turbidity 7.78 NTU | | | |

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# *Surface Water Sampling Log*

*REI Consultants, Inc.*

| | | | |
|---|---|---|---|
| **Project Name:** | **MSW Landfill** | | |
| **Contact Person:** | **Chris Stahl** | **Phone/Fax:** | (828) 349-2185 |

| | | | |
|---|---|---|---|
| **Outlet:** | **SW-2** | | |
| **Date:** | **04-20-05** | **Time:** | **0720** |
| **pH:** | **5.89** | **Conductivity:** | **58.7** *umhos/cm* |
| **Flow:** | **NA** | **Temperature:** | **12.2** *°C* |
| **Sampled Odor and Physical Appearance:** | | **Clear, no odor** | |
| **Comments:** | **Turbidity 10.97 NTU** | | |

| | | | |
|---|---|---|---|
| **Outlet:** | | | |
| **Date:** | | **Time:** | |
| **pH:** | | **Conductivity:** | *umhos/cm* |
| **Flow:** | | **Temperature:** | *°C* |
| **Sampled Odor and Physical Appearance:** | | | |
| **Comments:** | | | |

| | | | |
|---|---|---|---|
| **Outlet:** | | | |
| **Date:** | | **Time:** | |
| **pH:** | | **Conductivity:** | *umhos/cm* |
| **Flow:** | | **Temperature:** | *°C* |
| **Sampled Odor and Physical Appearance:** | | | |
| **Comments:** | | | |

*REI Consultants, Inc. P.O. Box 286 Beaver, WV 25813 1-800-999-0105 fax: 304-255-2572 e-mail: rlabs@reiclabs.com*

# *Appendix C*

*Laboratory Reports and Chain-of-Custody*

REIC

RESEARCH ENVIRONMENTAL & INDUSTRIAL CONSULTANTS, INC.

Improving the environment, one client at a time...

225 Industrial Park Rd.
Post Office Box 286
Beaver, WV 25813
800.999.0105
304.255.2500 • 304.255.2572 (fax)
website: www.reiclabs.com

Member:

American Chemical Society

Association of Official Analytical Chemists

Petroleum Marketers Association

Rural Water Association

Mining & Reclamation Association

American Water Works Association

The Solid Waste Association of North America

West Virginia Manufacturers Association

Association of West Virginia Solid Waste Authorities

West Virginia Oil Marketers & Grocers Association

May 27, 2005

Mr. Chris Stahl
MACON COUNTY SOLID WASTE MANAGEMENT
5 WEST MAIN STREET
FRANKLIN, NC 28734

TEL: (828) 349-2100
FAX (828) 349-2185

RE: MSW LANDFILL

Order No.: 0504996

Dear Mr. Chris Stahl:

REI Consultants Inc. received 22 sample(s) on 4/21/2005 for the analyses presented in the following report.

If you have any questions regarding these results, please do not hesitate to call.

Sincerely,

Ray Erickson
Vice President

**REI Consultants Inc.** **Date:** *27-May-05*

**CLIENT:** MACON COUNTY SOLID WASTE MAN
**Project:** MSW LANDFILL
**Lab Order:** 0504996

# CASE NARRATIVE

Samples were analyzed using the methods stated in the analytical report without modification unless otherwise noted.

Analytical methods contained in this report referencing Standard Methods are taken from the 18th Edition.

All samples analyzed on an "as-received" basis unless otherwise noted in the analytical report.

The Laboratory Director or his designee, as verified by the signature contained in the analytical report, has authorized the release of the data contained in this hard copy data package.

In compliance with federal guidelines and standard operating procedures, all reports, including raw data and supporting quality control, will be disposed of after three years unless otherwise arranged by the client via written notification or contract requirement.

# REI Consultants Inc.

**Date:** *27-May-05*

| | | | |
|---|---|---|---|
| **CLIENT:** | MACON COUNTY SOLID WASTE MANAG | **Lab Order:** | 0504996 |
| **Client Sample ID:** | MW-1A | **Lab ID:** | 0504996-01A |
| **Project:** | MSW LANDFILL | **Collection Date:** | 4/19/2005 |
| **Site ID:** | MACON CO NC | **Matrix:** | LIQUID |

| Analyses | Result | Units | MDL | PQL | Qual | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|---|
| **TOTAL METALS BY ICP-MS** | | | **SW6020** | | | | |
| Antimony | ND | mg/L | NA | 0.0300 | | 05/09/05 9:52 PM | BP |
| Arsenic | ND | mg/L | NA | 0.0100 | | 05/09/05 9:52 PM | BP |
| Barium | ND | mg/L | NA | 0.500 | | 05/09/05 9:52 PM | BP |
| Beryllium | ND | mg/L | NA | 0.0020 | | 05/09/05 9:52 PM | BP |
| Cadmium | ND | mg/L | NA | 0.0010 | | 05/09/05 9:52 PM | BP |
| Chromium | ND | mg/L | NA | 0.0100 | | 05/09/05 9:52 PM | BP |
| Cobalt | ND | mg/L | NA | 0.0100 | | 05/09/05 9:52 PM | BP |
| Copper | ND | mg/L | NA | 0.200 | | 05/09/05 9:52 PM | BP |
| Lead | ND | mg/L | NA | 0.0100 | | 05/09/05 9:52 PM | BP |
| Nickel | ND | mg/L | NA | 0.0500 | | 05/09/05 9:52 PM | BP |
| Selenium | ND | mg/L | NA | 0.0200 | | 05/09/05 9:52 PM | BP |
| Silver | ND | mg/L | NA | 0.0100 | | 05/09/05 9:52 PM | BP |
| Thallium | ND | mg/L | NA | 0.0100 | | 05/09/05 9:52 PM | BP |
| Vanadium | ND | mg/L | NA | 0.0400 | | 05/09/05 9:52 PM | BP |
| Zinc | ND | mg/L | NA | 0.0500 | | 05/09/05 9:52 PM | BP |
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260B** | | | | |
| Acetone | ND | µg/L | NA | 50.0 | | 04/25/05 6:52 PM | CS/TC |
| Acrylonitrile | ND | µg/L | NA | 25.0 | | 04/25/05 6:52 PM | CS/TC |
| Benzene | 3.5 | µg/L | NA | 1.0 | | 04/25/05 6:52 PM | CS/TC |
| Bromochloromethane | ND | µg/L | NA | 5.0 | | 04/25/05 6:52 PM | CS/TC |
| Bromodichloromethane | ND | µg/L | NA | 1.0 | | 04/25/05 6:52 PM | CS/TC |
| Bromoform | ND | µg/L | NA | 1.0 | | 04/25/05 6:52 PM | CS/TC |
| Bromomethane | ND | µg/L | NA | 5.0 | | 04/25/05 6:52 PM | CS/TC |
| 2-Butanone | ND | µg/L | NA | 50.0 | | 04/25/05 6:52 PM | CS/TC |
| Carbon disulfide | ND | µg/L | NA | 25.0 | | 04/25/05 6:52 PM | CS/TC |
| Carbon tetrachloride | ND | µg/L | NA | 1.0 | | 04/25/05 6:52 PM | CS/TC |
| Chlorobenzene | ND | µg/L | NA | 5.0 | | 04/25/05 6:52 PM | CS/TC |
| Chloroethane | ND | µg/L | NA | 5.0 | | 04/25/05 6:52 PM | CS/TC |
| Chloroform | ND | µg/L | NA | 1.0 | | 04/25/05 6:52 PM | CS/TC |
| Chloromethane | ND | µg/L | NA | 1.0 | | 04/25/05 6:52 PM | CS/TC |
| Dibromochloromethane | ND | µg/L | NA | 5.0 | | 04/25/05 6:52 PM | CS/TC |
| 1,2-Dibromo-3-chloropropane | ND | µg/L | NA | 1.0 | | 04/25/05 6:52 PM | CS/TC |
| 1,2-Dibromoethane | ND | µg/L | NA | 1.0 | | 04/25/05 6:52 PM | CS/TC |
| Dibromomethane | ND | µg/L | NA | 5.0 | | 04/25/05 6:52 PM | CS/TC |
| 1,2-Dichlorobenzene | ND | µg/L | NA | 5.0 | | 04/25/05 6:52 PM | CS/TC |
| 1,4-Dichlorobenzene | ND | µg/L | NA | 5.0 | | 04/25/05 6:52 PM | CS/TC |
| trans-1,4-Dichloro-2-butene | ND | µg/L | NA | 50.0 | | 04/25/05 6:52 PM | CS/TC |

**Key:**

| | |
|---|---|
| MCL | Maximum Contaminant Level |
| MDL | Minimum Detection Limit |
| NA | Not Applicable |
| ND | Not Detected at the PQL or MDL |
| PQL | Practical Quantitation Limit |
| TIC | Tentatively Identified Compounds |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level or Regulatory Level |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| H | Sample extraction/analysis holding time exceeded |
| J | Analyte detected below PQL |
| S | Spike Recovery outside accepted recovery limits |

# REI Consultants Inc.

**Date:** *27-May-05*

| | | | |
|---|---|---|---|
| **CLIENT:** | MACON COUNTY SOLID WASTE MANAG | **Lab Order:** | 0504996 |
| **Client Sample ID:** | MW-1A | **Lab ID:** | 0504996-01A |
| **Project:** | MSW LANDFILL | **Collection Date:** | 4/19/2005 |
| **Site ID:** | MACON CO NC | **Matrix:** | LIQUID |

| Analyses | Result | Units | MDL | PQL | Qual | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260B** | | | | |
| 1,1-Dichloroethane | 6.1 | µg/L | NA | 5.0 | | 04/25/05 6:52 PM | CS/TC |
| 1,2-Dichloroethane | ND | µg/L | NA | 1.0 | | 04/25/05 6:52 PM | CS/TC |
| 1,1-Dichloroethene | ND | µg/L | NA | 5.0 | | 04/25/05 6:52 PM | CS/TC |
| cis-1,2-Dichloroethene | ND | µg/L | NA | 5.0 | | 04/25/05 6:52 PM | CS/TC |
| trans-1,2-Dichloroethene | ND | µg/L | NA | 5.0 | | 04/25/05 6:52 PM | CS/TC |
| 1,2-Dichloropropane | ND | µg/L | NA | 1.0 | | 04/25/05 6:52 PM | CS/TC |
| cis-1,3-Dichloropropene | ND | µg/L | NA | 1.0 | | 04/25/05 6:52 PM | CS/TC |
| trans-1,3-Dichloropropene | ND | µg/L | NA | 1.0 | | 04/25/05 6:52 PM | CS/TC |
| Ethylbenzene | ND | µg/L | NA | 5.0 | | 04/25/05 6:52 PM | CS/TC |
| 2-Hexanone | ND | µg/L | NA | 50.0 | | 04/25/05 6:52 PM | CS/TC |
| Iodomethane | ND | µg/L | NA | 10.0 | | 04/25/05 6:52 PM | CS/TC |
| Methylene chloride | ND | µg/L | NA | 5.0 | | 04/25/05 6:52 PM | CS/TC |
| 4-Methyl-2-pentanone | ND | µg/L | NA | 50.0 | | 04/25/05 6:52 PM | CS/TC |
| Styrene | ND | µg/L | NA | 5.0 | | 04/25/05 6:52 PM | CS/TC |
| 1,1,1,2-Tetrachloroethane | ND | µg/L | NA | 5.0 | | 04/25/05 6:52 PM | CS/TC |
| 1,1,2,2-Tetrachloroethane | ND | µg/L | NA | 5.0 | | 04/25/05 6:52 PM | CS/TC |
| Tetrachloroethene | ND | µg/L | NA | 1.0 | | 04/25/05 6:52 PM | CS/TC |
| Toluene | ND | µg/L | NA | 5.0 | | 04/25/05 6:52 PM | CS/TC |
| 1,1,1-Trichloroethane | ND | µg/L | NA | 5.0 | | 04/25/05 6:52 PM | CS/TC |
| 1,1,2-Trichloroethane | ND | µg/L | NA | 5.0 | | 04/25/05 6:52 PM | CS/TC |
| Trichloroethene | ND | µg/L | NA | 1.0 | | 04/25/05 6:52 PM | CS/TC |
| Trichlorofluoromethane | ND | µg/L | NA | 5.0 | | 04/25/05 6:52 PM | CS/TC |
| 1,2,3-Trichloropropane | ND | µg/L | NA | 1.0 | | 04/25/05 6:52 PM | CS/TC |
| Vinyl acetate | ND | µg/L | NA | 25.0 | | 04/25/05 6:52 PM | CS/TC |
| Vinyl chloride | 3.0 | µg/L | NA | 1.0 | | 04/25/05 6:52 PM | CS/TC |
| o-Xylene | ND | µg/L | NA | 5.0 | | 04/25/05 6:52 PM | CS/TC |
| m,p-Xylene | ND | µg/L | NA | 5.0 | | 04/25/05 6:52 PM | CS/TC |
| Surr: 1,2-Dichloroethane-d4 | 106 | %REC | NA | 80-120 | | 04/25/05 6:52 PM | CS/TC |
| Surr: 4-Bromofluorobenzene | 99 | %REC | NA | 86-115 | | 04/25/05 6:52 PM | CS/TC |
| Surr: Dibromofluoromethane | 108 | %REC | NA | 80-120 | | 04/25/05 6:52 PM | CS/TC |
| Surr: Toluene-d8 | 95 | %REC | NA | 88-110 | | 04/25/05 6:52 PM | CS/TC |

**Key:**

| | |
|---|---|
| MCL | Maximum Contaminant Level |
| MDL | Minimum Detection Limit |
| NA | Not Applicable |
| ND | Not Detected at the PQL or MDL |
| PQL | Practical Quantitation Limit |
| TIC | Tentatively Identified Compounds |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level or Regulatory Level |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| H | Sample extraction/analysis holding time exceeded |
| J | Analyte detected below PQL |
| S | Spike Recovery outside accepted recovery limits |

# REI Consultants Inc.

**Date:** *27-May-05*

| | | | |
|---|---|---|---|
| **CLIENT:** | MACON COUNTY SOLID WASTE MANAG | **Lab Order:** | 0504996 |
| **Client Sample ID:** | MW-1B | **Lab ID:** | 0504996-02A |
| **Project:** | MSW LANDFILL | **Collection Date:** | 4/19/2005 |
| **Site ID:** | MACON CO NC | **Matrix:** | LIQUID |

| Analyses | Result | Units | MDL | PQL | Qual | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|---|
| **TOTAL METALS BY ICP-MS** | | | **SW6020** | | | | |
| Antimony | ND | mg/L | NA | 0.0300 | | 05/09/05 10:20 PM | BP |
| Arsenic | ND | mg/L | NA | 0.0100 | | 05/09/05 10:20 PM | BP |
| Barium | ND | mg/L | NA | 0.500 | | 05/09/05 10:20 PM | BP |
| Beryllium | ND | mg/L | NA | 0.0020 | | 05/09/05 10:20 PM | BP |
| Cadmium | ND | mg/L | NA | 0.0010 | | 05/09/05 10:20 PM | BP |
| Chromium | ND | mg/L | NA | 0.0100 | | 05/09/05 10:20 PM | BP |
| Cobalt | ND | mg/L | NA | 0.0100 | | 05/09/05 10:20 PM | BP |
| Copper | ND | mg/L | NA | 0.200 | | 05/09/05 10:20 PM | BP |
| Lead | ND | mg/L | NA | 0.0100 | | 05/09/05 10:20 PM | BP |
| Nickel | ND | mg/L | NA | 0.0500 | | 05/09/05 10:20 PM | BP |
| Selenium | ND | mg/L | NA | 0.0200 | | 05/09/05 10:20 PM | BP |
| Silver | ND | mg/L | NA | 0.0100 | | 05/09/05 10:20 PM | BP |
| Thallium | ND | mg/L | NA | 0.0100 | | 05/09/05 10:20 PM | BP |
| Vanadium | ND | mg/L | NA | 0.0400 | | 05/09/05 10:20 PM | BP |
| Zinc | ND | mg/L | NA | 0.0500 | | 05/09/05 10:20 PM | BP |
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260B** | | | | |
| Acetone | ND | µg/L | NA | 50.0 | | 04/25/05 10:22 PM | CS/TC |
| Acrylonitrile | ND | µg/L | NA | 25.0 | | 04/25/05 10:22 PM | CS/TC |
| Benzene | 3.2 | µg/L | NA | 1.0 | | 04/25/05 10:22 PM | CS/TC |
| Bromochloromethane | ND | µg/L | NA | 5.0 | | 04/25/05 10:22 PM | CS/TC |
| Bromodichloromethane | ND | µg/L | NA | 1.0 | | 04/25/05 10:22 PM | CS/TC |
| Bromoform | ND | µg/L | NA | 1.0 | | 04/25/05 10:22 PM | CS/TC |
| Bromomethane | ND | µg/L | NA | 5.0 | | 04/25/05 10:22 PM | CS/TC |
| 2-Butanone | ND | µg/L | NA | 50.0 | | 04/25/05 10:22 PM | CS/TC |
| Carbon disulfide | ND | µg/L | NA | 25.0 | | 04/25/05 10:22 PM | CS/TC |
| Carbon tetrachloride | ND | µg/L | NA | 1.0 | | 04/25/05 10:22 PM | CS/TC |
| Chlorobenzene | ND | µg/L | NA | 5.0 | | 04/25/05 10:22 PM | CS/TC |
| Chloroethane | ND | µg/L | NA | 5.0 | | 04/25/05 10:22 PM | CS/TC |
| Chloroform | ND | µg/L | NA | 1.0 | | 04/25/05 10:22 PM | CS/TC |
| Chloromethane | ND | µg/L | NA | 1.0 | | 04/25/05 10:22 PM | CS/TC |
| Dibromochloromethane | ND | µg/L | NA | 5.0 | | 04/25/05 10:22 PM | CS/TC |
| 1,2-Dibromo-3-chloropropane | ND | µg/L | NA | 1.0 | | 04/25/05 10:22 PM | CS/TC |
| 1,2-Dibromoethane | ND | µg/L | NA | 1.0 | | 04/25/05 10:22 PM | CS/TC |
| Dibromomethane | ND | µg/L | NA | 5.0 | | 04/25/05 10:22 PM | CS/TC |
| 1,2-Dichlorobenzene | ND | µg/L | NA | 5.0 | | 04/25/05 10:22 PM | CS/TC |
| 1,4-Dichlorobenzene | ND | µg/L | NA | 5.0 | | 04/25/05 10:22 PM | CS/TC |
| trans-1,4-Dichloro-2-butene | ND | µg/L | NA | 50.0 | | 04/25/05 10:22 PM | CS/TC |

**Key:**

| | |
|---|---|
| MCL | Maximum Contaminant Level |
| MDL | Minimum Detection Limit |
| NA | Not Applicable |
| ND | Not Detected at the PQL or MDL |
| PQL | Practical Quantitation Limit |
| TIC | Tentatively Identified Compounds |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level or Regulatory Level |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| H | Sample extraction/analysis holding time exceeded |
| J | Analyte detected below PQL |
| S | Spike Recovery outside accepted recovery limits |

# REI Consultants Inc.

**Date:** *27-May-05*

| | | | |
|---|---|---|---|
| **CLIENT:** | MACON COUNTY SOLID WASTE MANAG | **Lab Order:** | 0504996 |
| **Client Sample ID:** | MW-1B | **Lab ID:** | 0504996-02A |
| **Project:** | MSW LANDFILL | **Collection Date:** | 4/19/2005 |
| **Site ID:** | MACON CO NC | **Matrix:** | LIQUID |

| Analyses | Result | Units | MDL | PQL | Qual | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260B** | | | | |
| 1,1-Dichloroethane | 5.8 | µg/L | NA | 5.0 | | 04/25/05 10:22 PM | CS/TC |
| 1,2-Dichloroethane | ND | µg/L | NA | 1.0 | | 04/25/05 10:22 PM | CS/TC |
| 1,1-Dichloroethene | ND | µg/L | NA | 5.0 | | 04/25/05 10:22 PM | CS/TC |
| cis-1,2-Dichloroethene | ND | µg/L | NA | 5.0 | | 04/25/05 10:22 PM | CS/TC |
| trans-1,2-Dichloroethene | ND | µg/L | NA | 5.0 | | 04/25/05 10:22 PM | CS/TC |
| 1,2-Dichloropropane | ND | µg/L | NA | 1.0 | | 04/25/05 10:22 PM | CS/TC |
| cis-1,3-Dichloropropene | ND | µg/L | NA | 1.0 | | 04/25/05 10:22 PM | CS/TC |
| trans-1,3-Dichloropropene | ND | µg/L | NA | 1.0 | | 04/25/05 10:22 PM | CS/TC |
| Ethylbenzene | ND | µg/L | NA | 5.0 | | 04/25/05 10:22 PM | CS/TC |
| 2-Hexanone | ND | µg/L | NA | 50.0 | | 04/25/05 10:22 PM | CS/TC |
| Iodomethane | ND | µg/L | NA | 10.0 | | 04/25/05 10:22 PM | CS/TC |
| Methylene chloride | ND | µg/L | NA | 5.0 | | 04/25/05 10:22 PM | CS/TC |
| 4-Methyl-2-pentanone | ND | µg/L | NA | 50.0 | | 04/25/05 10:22 PM | CS/TC |
| Styrene | ND | µg/L | NA | 5.0 | | 04/25/05 10:22 PM | CS/TC |
| 1,1,1,2-Tetrachloroethane | ND | µg/L | NA | 5.0 | | 04/25/05 10:22 PM | CS/TC |
| 1,1,2,2-Tetrachloroethane | ND | µg/L | NA | 5.0 | | 04/25/05 10:22 PM | CS/TC |
| Tetrachloroethene | ND | µg/L | NA | 1.0 | | 04/25/05 10:22 PM | CS/TC |
| Toluene | ND | µg/L | NA | 5.0 | | 04/25/05 10:22 PM | CS/TC |
| 1,1,1-Trichloroethane | ND | µg/L | NA | 5.0 | | 04/25/05 10:22 PM | CS/TC |
| 1,1,2-Trichloroethane | ND | µg/L | NA | 5.0 | | 04/25/05 10:22 PM | CS/TC |
| Trichloroethene | ND | µg/L | NA | 1.0 | | 04/25/05 10:22 PM | CS/TC |
| Trichlorofluoromethane | ND | µg/L | NA | 5.0 | | 04/25/05 10:22 PM | CS/TC |
| 1,2,3-Trichloropropane | ND | µg/L | NA | 1.0 | | 04/25/05 10:22 PM | CS/TC |
| Vinyl acetate | ND | µg/L | NA | 25.0 | | 04/25/05 10:22 PM | CS/TC |
| Vinyl chloride | 3.0 | µg/L | NA | 1.0 | | 04/25/05 10:22 PM | CS/TC |
| o-Xylene | ND | µg/L | NA | 5.0 | | 04/25/05 10:22 PM | CS/TC |
| m,p-Xylene | ND | µg/L | NA | 5.0 | | 04/25/05 10:22 PM | CS/TC |
| Surr: 1,2-Dichloroethane-d4 | 105 | %REC | NA | 80-120 | | 04/25/05 10:22 PM | CS/TC |
| Surr: 4-Bromofluorobenzene | 98 | %REC | NA | 86-115 | | 04/25/05 10:22 PM | CS/TC |
| Surr: Dibromofluoromethane | 110 | %REC | NA | 80-120 | | 04/25/05 10:22 PM | CS/TC |
| Surr: Toluene-d8 | 95 | %REC | NA | 88-110 | | 04/25/05 10:22 PM | CS/TC |

**Key:**

| | |
|---|---|
| MCL | Maximum Contaminant Level |
| MDL | Minimum Detection Limit |
| NA | Not Applicable |
| ND | Not Detected at the PQL or MDL |
| PQL | Practical Quantitation Limit |
| TIC | Tentatively Identified Compounds |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level or Regulatory Level |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| H | Sample extraction/analysis holding time exceeded |
| J | Analyte detected below PQL |
| S | Spike Recovery outside accepted recovery limits |

# REI Consultants Inc.

**Date:** *27-May-05*

| | | | |
|---|---|---|---|
| **CLIENT:** | MACON COUNTY SOLID WASTE MANAG | **Lab Order:** | 0504996 |
| **Client Sample ID:** | MW-2 | **Lab ID:** | 0504996-03A |
| **Project:** | MSW LANDFILL | **Collection Date:** | 4/19/2005 |
| **Site ID:** | MACON CO NC | **Matrix:** | LIQUID |

| Analyses | Result | Units | MDL | PQL | Qual | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|---|
| **TOTAL METALS BY ICP-MS** | | | **SW6020** | | | | |
| Antimony | ND | mg/L | NA | 0.0300 | | 05/09/05 10:26 PM | BP |
| Arsenic | ND | mg/L | NA | 0.0100 | | 05/09/05 10:26 PM | BP |
| Barium | ND | mg/L | NA | 0.500 | | 05/09/05 10:26 PM | BP |
| Beryllium | ND | mg/L | NA | 0.0020 | | 05/09/05 10:26 PM | BP |
| Cadmium | ND | mg/L | NA | 0.0010 | | 05/09/05 10:26 PM | BP |
| Chromium | ND | mg/L | NA | 0.0100 | | 05/09/05 10:26 PM | BP |
| Cobalt | 0.0491 | mg/L | NA | 0.0100 | | 05/09/05 10:26 PM | BP |
| Copper | ND | mg/L | NA | 0.200 | | 05/09/05 10:26 PM | BP |
| Lead | ND | mg/L | NA | 0.0100 | | 05/09/05 10:26 PM | BP |
| Nickel | ND | mg/L | NA | 0.0500 | | 05/09/05 10:26 PM | BP |
| Selenium | ND | mg/L | NA | 0.0200 | | 05/09/05 10:26 PM | BP |
| Silver | ND | mg/L | NA | 0.0100 | | 05/09/05 10:26 PM | BP |
| Thallium | ND | mg/L | NA | 0.0100 | | 05/09/05 10:26 PM | BP |
| Vanadium | ND | mg/L | NA | 0.0400 | | 05/09/05 10:26 PM | BP |
| Zinc | ND | mg/L | NA | 0.0500 | | 05/09/05 10:26 PM | BP |
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260B** | | | | |
| Acetone | ND | µg/L | NA | 50.0 | | 04/25/05 10:58 PM | CS/TC |
| Acrylonitrile | ND | µg/L | NA | 25.0 | | 04/25/05 10:58 PM | CS/TC |
| Benzene | ND | µg/L | NA | 1.0 | | 04/25/05 10:58 PM | CS/TC |
| Bromochloromethane | ND | µg/L | NA | 5.0 | | 04/25/05 10:58 PM | CS/TC |
| Bromodichloromethane | ND | µg/L | NA | 1.0 | | 04/25/05 10:58 PM | CS/TC |
| Bromoform | ND | µg/L | NA | 1.0 | | 04/25/05 10:58 PM | CS/TC |
| Bromomethane | ND | µg/L | NA | 5.0 | | 04/25/05 10:58 PM | CS/TC |
| 2-Butanone | ND | µg/L | NA | 50.0 | | 04/25/05 10:58 PM | CS/TC |
| Carbon disulfide | ND | µg/L | NA | 25.0 | | 04/25/05 10:58 PM | CS/TC |
| Carbon tetrachloride | ND | µg/L | NA | 1.0 | | 04/25/05 10:58 PM | CS/TC |
| Chlorobenzene | ND | µg/L | NA | 5.0 | | 04/25/05 10:58 PM | CS/TC |
| Chloroethane | ND | µg/L | NA | 5.0 | | 04/25/05 10:58 PM | CS/TC |
| Chloroform | ND | µg/L | NA | 1.0 | | 04/25/05 10:58 PM | CS/TC |
| Chloromethane | ND | µg/L | NA | 1.0 | | 04/25/05 10:58 PM | CS/TC |
| Dibromochloromethane | ND | µg/L | NA | 5.0 | | 04/25/05 10:58 PM | CS/TC |
| 1,2-Dibromo-3-chloropropane | ND | µg/L | NA | 1.0 | | 04/25/05 10:58 PM | CS/TC |
| 1,2-Dibromoethane | ND | µg/L | NA | 1.0 | | 04/25/05 10:58 PM | CS/TC |
| Dibromomethane | ND | µg/L | NA | 5.0 | | 04/25/05 10:58 PM | CS/TC |
| 1,2-Dichlorobenzene | ND | µg/L | NA | 5.0 | | 04/25/05 10:58 PM | CS/TC |
| 1,4-Dichlorobenzene | ND | µg/L | NA | 5.0 | | 04/25/05 10:58 PM | CS/TC |
| trans-1,4-Dichloro-2-butene | ND | µg/L | NA | 50.0 | | 04/25/05 10:58 PM | CS/TC |

**Key:**

| | |
|---|---|
| MCL | Maximum Contaminant Level |
| MDL | Minimum Detection Limit |
| NA | Not Applicable |
| ND | Not Detected at the PQL or MDL |
| PQL | Practical Quantitation Limit |
| TIC | Tentatively Identified Compounds |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level or Regulatory Level |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| H | Sample extraction/analysis holding time exceeded |
| J | Analyte detected below PQL |
| S | Spike Recovery outside accepted recovery limits |

# REI Consultants Inc.

**Date:** *27-May-05*

| | | | |
|---|---|---|---|
| **CLIENT:** | MACON COUNTY SOLID WASTE MANAG | **Lab Order:** | 0504996 |
| **Client Sample ID:** | MW-2 | **Lab ID:** | 0504996-03A |
| **Project:** | MSW LANDFILL | **Collection Date:** | 4/19/2005 |
| **Site ID:** | MACON CO NC | **Matrix:** | LIQUID |

| Analyses | Result | Units | MDL | PQL | Qual | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260B** | | | | |
| 1,1-Dichloroethane | ND | µg/L | NA | 5.0 | | 04/25/05 10:58 PM | CS/TC |
| 1,2-Dichloroethane | ND | µg/L | NA | 1.0 | | 04/25/05 10:58 PM | CS/TC |
| 1,1-Dichloroethene | ND | µg/L | NA | 5.0 | | 04/25/05 10:58 PM | CS/TC |
| cis-1,2-Dichloroethene | ND | µg/L | NA | 5.0 | | 04/25/05 10:58 PM | CS/TC |
| trans-1,2-Dichloroethene | ND | µg/L | NA | 5.0 | | 04/25/05 10:58 PM | CS/TC |
| 1,2-Dichloropropane | ND | µg/L | NA | 1.0 | | 04/25/05 10:58 PM | CS/TC |
| cis-1,3-Dichloropropene | ND | µg/L | NA | 1.0 | | 04/25/05 10:58 PM | CS/TC |
| trans-1,3-Dichloropropene | ND | µg/L | NA | 1.0 | | 04/25/05 10:58 PM | CS/TC |
| Ethylbenzene | ND | µg/L | NA | 5.0 | | 04/25/05 10:58 PM | CS/TC |
| 2-Hexanone | ND | µg/L | NA | 50.0 | | 04/25/05 10:58 PM | CS/TC |
| Iodomethane | ND | µg/L | NA | 10.0 | | 04/25/05 10:58 PM | CS/TC |
| Methylene chloride | ND | µg/L | NA | 5.0 | | 04/25/05 10:58 PM | CS/TC |
| 4-Methyl-2-pentanone | ND | µg/L | NA | 50.0 | | 04/25/05 10:58 PM | CS/TC |
| Styrene | ND | µg/L | NA | 5.0 | | 04/25/05 10:58 PM | CS/TC |
| 1,1,1,2-Tetrachloroethane | ND | µg/L | NA | 5.0 | | 04/25/05 10:58 PM | CS/TC |
| 1,1,2,2-Tetrachloroethane | ND | µg/L | NA | 5.0 | | 04/25/05 10:58 PM | CS/TC |
| Tetrachloroethene | ND | µg/L | NA | 1.0 | | 04/25/05 10:58 PM | CS/TC |
| Toluene | ND | µg/L | NA | 5.0 | | 04/25/05 10:58 PM | CS/TC |
| 1,1,1-Trichloroethane | ND | µg/L | NA | 5.0 | | 04/25/05 10:58 PM | CS/TC |
| 1,1,2-Trichloroethane | ND | µg/L | NA | 5.0 | | 04/25/05 10:58 PM | CS/TC |
| Trichloroethene | ND | µg/L | NA | 1.0 | | 04/25/05 10:58 PM | CS/TC |
| Trichlorofluoromethane | ND | µg/L | NA | 5.0 | | 04/25/05 10:58 PM | CS/TC |
| 1,2,3-Trichloropropane | ND | µg/L | NA | 1.0 | | 04/25/05 10:58 PM | CS/TC |
| Vinyl acetate | ND | µg/L | NA | 25.0 | | 04/25/05 10:58 PM | CS/TC |
| Vinyl chloride | ND | µg/L | NA | 1.0 | | 04/25/05 10:58 PM | CS/TC |
| o-Xylene | ND | µg/L | NA | 5.0 | | 04/25/05 10:58 PM | CS/TC |
| m,p-Xylene | ND | µg/L | NA | 5.0 | | 04/25/05 10:58 PM | CS/TC |
| Surr: 1,2-Dichloroethane-d4 | 108 | %REC | NA | 80-120 | | 04/25/05 10:58 PM | CS/TC |
| Surr: 4-Bromofluorobenzene | 99 | %REC | NA | 86-115 | | 04/25/05 10:58 PM | CS/TC |
| Surr: Dibromofluoromethane | 110 | %REC | NA | 80-120 | | 04/25/05 10:58 PM | CS/TC |
| Surr: Toluene-d8 | 96 | %REC | NA | 88-110 | | 04/25/05 10:58 PM | CS/TC |

**Key:**

| | |
|---|---|
| MCL | Maximum Contaminant Level |
| MDL | Minimum Detection Limit |
| NA | Not Applicable |
| ND | Not Detected at the PQL or MDL |
| PQL | Practical Quantitation Limit |
| TIC | Tentatively Identified Compounds |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level or Regulatory Level |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| H | Sample extraction/analysis holding time exceeded |
| J | Analyte detected below PQL |
| S | Spike Recovery outside accepted recovery limits |

# REI Consultants Inc.

**Date:** *27-May-05*

| | | | |
|---|---|---|---|
| **CLIENT:** | MACON COUNTY SOLID WASTE MANAG | **Lab Order:** | 0504996 |
| **Client Sample ID:** | MW-3A | **Lab ID:** | 0504996-04A |
| **Project:** | MSW LANDFILL | **Collection Date:** | 4/19/2005 |
| **Site ID:** | MACON CO NC | **Matrix:** | LIQUID |

| Analyses | Result | Units | MDL | PQL | Qual | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|---|
| **TOTAL METALS BY ICP-MS** | | | **SW6020** | | | | |
| Antimony | ND | mg/L | NA | 0.0300 | | 05/09/05 10:49 PM | BP |
| Arsenic | ND | mg/L | NA | 0.0100 | | 05/09/05 10:49 PM | BP |
| Barium | ND | mg/L | NA | 0.500 | | 05/09/05 10:49 PM | BP |
| Beryllium | ND | mg/L | NA | 0.0020 | | 05/09/05 10:49 PM | BP |
| Cadmium | ND | mg/L | NA | 0.0010 | | 05/09/05 10:49 PM | BP |
| Chromium | ND | mg/L | NA | 0.0100 | | 05/09/05 10:49 PM | BP |
| Cobalt | ND | mg/L | NA | 0.0100 | | 05/09/05 10:49 PM | BP |
| Copper | ND | mg/L | NA | 0.200 | | 05/09/05 10:49 PM | BP |
| Lead | ND | mg/L | NA | 0.0100 | | 05/09/05 10:49 PM | BP |
| Nickel | ND | mg/L | NA | 0.0500 | | 05/09/05 10:49 PM | BP |
| Selenium | ND | mg/L | NA | 0.0200 | | 05/09/05 10:49 PM | BP |
| Silver | ND | mg/L | NA | 0.0100 | | 05/09/05 10:49 PM | BP |
| Thallium | ND | mg/L | NA | 0.0100 | | 05/09/05 10:49 PM | BP |
| Vanadium | ND | mg/L | NA | 0.0400 | | 05/09/05 10:49 PM | BP |
| Zinc | ND | mg/L | NA | 0.0500 | | 05/09/05 10:49 PM | BP |
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260B** | | | | |
| Acetone | ND | µg/L | NA | 50.0 | | 04/25/05 11:33 PM | CS/TC |
| Acrylonitrile | ND | µg/L | NA | 25.0 | | 04/25/05 11:33 PM | CS/TC |
| Benzene | ND | µg/L | NA | 1.0 | | 04/25/05 11:33 PM | CS/TC |
| Bromochloromethane | ND | µg/L | NA | 5.0 | | 04/25/05 11:33 PM | CS/TC |
| Bromodichloromethane | ND | µg/L | NA | 1.0 | | 04/25/05 11:33 PM | CS/TC |
| Bromoform | ND | µg/L | NA | 1.0 | | 04/25/05 11:33 PM | CS/TC |
| Bromomethane | ND | µg/L | NA | 5.0 | | 04/25/05 11:33 PM | CS/TC |
| 2-Butanone | ND | µg/L | NA | 50.0 | | 04/25/05 11:33 PM | CS/TC |
| Carbon disulfide | ND | µg/L | NA | 25.0 | | 04/25/05 11:33 PM | CS/TC |
| Carbon tetrachloride | ND | µg/L | NA | 1.0 | | 04/25/05 11:33 PM | CS/TC |
| Chlorobenzene | ND | µg/L | NA | 5.0 | | 04/25/05 11:33 PM | CS/TC |
| Chloroethane | ND | µg/L | NA | 5.0 | | 04/25/05 11:33 PM | CS/TC |
| Chloroform | ND | µg/L | NA | 1.0 | | 04/25/05 11:33 PM | CS/TC |
| Chloromethane | ND | µg/L | NA | 1.0 | | 04/25/05 11:33 PM | CS/TC |
| Dibromochloromethane | ND | µg/L | NA | 5.0 | | 04/25/05 11:33 PM | CS/TC |
| 1,2-Dibromo-3-chloropropane | ND | µg/L | NA | 1.0 | | 04/25/05 11:33 PM | CS/TC |
| 1,2-Dibromoethane | ND | µg/L | NA | 1.0 | | 04/25/05 11:33 PM | CS/TC |
| Dibromomethane | ND | µg/L | NA | 5.0 | | 04/25/05 11:33 PM | CS/TC |
| 1,2-Dichlorobenzene | ND | µg/L | NA | 5.0 | | 04/25/05 11:33 PM | CS/TC |
| 1,4-Dichlorobenzene | ND | µg/L | NA | 5.0 | | 04/25/05 11:33 PM | CS/TC |
| trans-1,4-Dichloro-2-butene | ND | µg/L | NA | 50.0 | | 04/25/05 11:33 PM | CS/TC |

**Key:**

| | |
|---|---|
| MCL | Maximum Contaminant Level |
| MDL | Minimum Detection Limit |
| NA | Not Applicable |
| ND | Not Detected at the PQL or MDL |
| PQL | Practical Quantitation Limit |
| TIC | Tentatively Identified Compounds |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level or Regulatory Level |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| H | Sample extraction/analysis holding time exceeded |
| J | Analyte detected below PQL |
| S | Spike Recovery outside accepted recovery limits |

# REI Consultants Inc.

**Date:** *27-May-05*

| | | | |
|---|---|---|---|
| **CLIENT:** | MACON COUNTY SOLID WASTE MANAG | **Lab Order:** | 0504996 |
| **Client Sample ID:** | MW-3A | **Lab ID:** | 0504996-04A |
| **Project:** | MSW LANDFILL | **Collection Date:** | 4/19/2005 |
| **Site ID:** | MACON CO NC | **Matrix:** | LIQUID |

| Analyses | Result | Units | MDL | PQL | Qual | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260B** | | | | |
| 1,1-Dichloroethane | ND | µg/L | NA | 5.0 | | 04/25/05 11:33 PM | CS/TC |
| 1,2-Dichloroethane | ND | µg/L | NA | 1.0 | | 04/25/05 11:33 PM | CS/TC |
| 1,1-Dichloroethene | ND | µg/L | NA | 5.0 | | 04/25/05 11:33 PM | CS/TC |
| cis-1,2-Dichloroethene | ND | µg/L | NA | 5.0 | | 04/25/05 11:33 PM | CS/TC |
| trans-1,2-Dichloroethene | ND | µg/L | NA | 5.0 | | 04/25/05 11:33 PM | CS/TC |
| 1,2-Dichloropropane | ND | µg/L | NA | 1.0 | | 04/25/05 11:33 PM | CS/TC |
| cis-1,3-Dichloropropene | ND | µg/L | NA | 1.0 | | 04/25/05 11:33 PM | CS/TC |
| trans-1,3-Dichloropropene | ND | µg/L | NA | 1.0 | | 04/25/05 11:33 PM | CS/TC |
| Ethylbenzene | ND | µg/L | NA | 5.0 | | 04/25/05 11:33 PM | CS/TC |
| 2-Hexanone | ND | µg/L | NA | 50.0 | | 04/25/05 11:33 PM | CS/TC |
| Iodomethane | ND | µg/L | NA | 10.0 | | 04/25/05 11:33 PM | CS/TC |
| Methylene chloride | ND | µg/L | NA | 5.0 | | 04/25/05 11:33 PM | CS/TC |
| 4-Methyl-2-pentanone | ND | µg/L | NA | 50.0 | | 04/25/05 11:33 PM | CS/TC |
| Styrene | ND | µg/L | NA | 5.0 | | 04/25/05 11:33 PM | CS/TC |
| 1,1,1,2-Tetrachloroethane | ND | µg/L | NA | 5.0 | | 04/25/05 11:33 PM | CS/TC |
| 1,1,2,2-Tetrachloroethane | ND | µg/L | NA | 5.0 | | 04/25/05 11:33 PM | CS/TC |
| Tetrachloroethene | ND | µg/L | NA | 1.0 | | 04/25/05 11:33 PM | CS/TC |
| Toluene | ND | µg/L | NA | 5.0 | | 04/25/05 11:33 PM | CS/TC |
| 1,1,1-Trichloroethane | ND | µg/L | NA | 5.0 | | 04/25/05 11:33 PM | CS/TC |
| 1,1,2-Trichloroethane | ND | µg/L | NA | 5.0 | | 04/25/05 11:33 PM | CS/TC |
| Trichloroethene | ND | µg/L | NA | 1.0 | | 04/25/05 11:33 PM | CS/TC |
| Trichlorofluoromethane | ND | µg/L | NA | 5.0 | | 04/25/05 11:33 PM | CS/TC |
| 1,2,3-Trichloropropane | ND | µg/L | NA | 1.0 | | 04/25/05 11:33 PM | CS/TC |
| Vinyl acetate | ND | µg/L | NA | 25.0 | | 04/25/05 11:33 PM | CS/TC |
| Vinyl chloride | ND | µg/L | NA | 1.0 | | 04/25/05 11:33 PM | CS/TC |
| o-Xylene | ND | µg/L | NA | 5.0 | | 04/25/05 11:33 PM | CS/TC |
| m,p-Xylene | ND | µg/L | NA | 5.0 | | 04/25/05 11:33 PM | CS/TC |
| Surr: 1,2-Dichloroethane-d4 | 110 | %REC | NA | 80-120 | | 04/25/05 11:33 PM | CS/TC |
| Surr: 4-Bromofluorobenzene | 97 | %REC | NA | 86-115 | | 04/25/05 11:33 PM | CS/TC |
| Surr: Dibromofluoromethane | 112 | %REC | NA | 80-120 | | 04/25/05 11:33 PM | CS/TC |
| Surr: Toluene-d8 | 96 | %REC | NA | 88-110 | | 04/25/05 11:33 PM | CS/TC |

**Key:**

| | |
|---|---|
| MCL | Maximum Contaminant Level |
| MDL | Minimum Detection Limit |
| NA | Not Applicable |
| ND | Not Detected at the PQL or MDL |
| PQL | Practical Quantitation Limit |
| TIC | Tentatively Identified Compounds |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level or Regulatory Level |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| H | Sample extraction/analysis holding time exceeded |
| J | Analyte detected below PQL |
| S | Spike Recovery outside accepted recovery limits |

# REI Consultants Inc.

**Date:** *27-May-05*

| | | | |
|---|---|---|---|
| **CLIENT:** | MACON COUNTY SOLID WASTE MANAG | **Lab Order:** | 0504996 |
| **Client Sample ID:** | MW-10 | **Lab ID:** | 0504996-05A |
| **Project:** | MSW LANDFILL | **Collection Date:** | 4/19/2005 |
| **Site ID:** | MACON CO NC | **Matrix:** | LIQUID |

| Analyses | Result | Units | MDL | PQL | Qual | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|---|
| **TOTAL METALS BY ICP-MS** | | | **SW6020** | | | | |
| Antimony | ND | mg/L | NA | 0.0300 | | 05/09/05 10:54 PM | BP |
| Arsenic | ND | mg/L | NA | 0.0100 | | 05/09/05 10:54 PM | BP |
| Barium | ND | mg/L | NA | 0.500 | | 05/09/05 10:54 PM | BP |
| Beryllium | ND | mg/L | NA | 0.0020 | | 05/09/05 10:54 PM | BP |
| Cadmium | ND | mg/L | NA | 0.0010 | | 05/09/05 10:54 PM | BP |
| Chromium | ND | mg/L | NA | 0.0100 | | 05/09/05 10:54 PM | BP |
| Cobalt | ND | mg/L | NA | 0.0100 | | 05/09/05 10:54 PM | BP |
| Copper | ND | mg/L | NA | 0.200 | | 05/09/05 10:54 PM | BP |
| Lead | ND | mg/L | NA | 0.0100 | | 05/09/05 10:54 PM | BP |
| Nickel | ND | mg/L | NA | 0.0500 | | 05/09/05 10:54 PM | BP |
| Selenium | ND | mg/L | NA | 0.0200 | | 05/09/05 10:54 PM | BP |
| Silver | ND | mg/L | NA | 0.0100 | | 05/09/05 10:54 PM | BP |
| Thallium | ND | mg/L | NA | 0.0100 | | 05/09/05 10:54 PM | BP |
| Vanadium | ND | mg/L | NA | 0.0400 | | 05/09/05 10:54 PM | BP |
| Zinc | ND | mg/L | NA | 0.0500 | | 05/09/05 10:54 PM | BP |
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260B** | | | | |
| Acetone | ND | µg/L | NA | 50.0 | | 04/26/05 2:28 AM | CS/TC |
| Acrylonitrile | ND | µg/L | NA | 25.0 | | 04/26/05 2:28 AM | CS/TC |
| Benzene | ND | µg/L | NA | 1.0 | | 04/26/05 2:28 AM | CS/TC |
| Bromochloromethane | ND | µg/L | NA | 5.0 | | 04/26/05 2:28 AM | CS/TC |
| Bromodichloromethane | ND | µg/L | NA | 1.0 | | 04/26/05 2:28 AM | CS/TC |
| Bromoform | ND | µg/L | NA | 1.0 | | 04/26/05 2:28 AM | CS/TC |
| Bromomethane | ND | µg/L | NA | 5.0 | | 04/26/05 2:28 AM | CS/TC |
| 2-Butanone | ND | µg/L | NA | 50.0 | | 04/26/05 2:28 AM | CS/TC |
| Carbon disulfide | ND | µg/L | NA | 25.0 | | 04/26/05 2:28 AM | CS/TC |
| Carbon tetrachloride | ND | µg/L | NA | 1.0 | | 04/26/05 2:28 AM | CS/TC |
| Chlorobenzene | ND | µg/L | NA | 5.0 | | 04/26/05 2:28 AM | CS/TC |
| Chloroethane | ND | µg/L | NA | 5.0 | | 04/26/05 2:28 AM | CS/TC |
| Chloroform | ND | µg/L | NA | 1.0 | | 04/26/05 2:28 AM | CS/TC |
| Chloromethane | ND | µg/L | NA | 1.0 | | 04/26/05 2:28 AM | CS/TC |
| Dibromochloromethane | ND | µg/L | NA | 5.0 | | 04/26/05 2:28 AM | CS/TC |
| 1,2-Dibromo-3-chloropropane | ND | µg/L | NA | 1.0 | | 04/26/05 2:28 AM | CS/TC |
| 1,2-Dibromoethane | ND | µg/L | NA | 1.0 | | 04/26/05 2:28 AM | CS/TC |
| Dibromomethane | ND | µg/L | NA | 5.0 | | 04/26/05 2:28 AM | CS/TC |
| 1,2-Dichlorobenzene | ND | µg/L | NA | 5.0 | | 04/26/05 2:28 AM | CS/TC |
| 1,4-Dichlorobenzene | ND | µg/L | NA | 5.0 | | 04/26/05 2:28 AM | CS/TC |
| trans-1,4-Dichloro-2-butene | ND | µg/L | NA | 50.0 | | 04/26/05 2:28 AM | CS/TC |

**Key:**

| | |
|---|---|
| MCL | Maximum Contaminant Level |
| MDL | Minimum Detection Limit |
| NA | Not Applicable |
| ND | Not Detected at the PQL or MDL |
| PQL | Practical Quantitation Limit |
| TIC | Tentatively Identified Compounds |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level or Regulatory Level |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| H | Sample extraction/analysis holding time exceeded |
| J | Analyte detected below PQL |
| S | Spike Recovery outside accepted recovery limits |

# REI Consultants Inc.

**Date:** *27-May-05*

| | | | |
|---|---|---|---|
| **CLIENT:** | MACON COUNTY SOLID WASTE MANAG | **Lab Order:** | 0504996 |
| **Client Sample ID:** | MW-10 | **Lab ID:** | 0504996-05A |
| **Project:** | MSW LANDFILL | **Collection Date:** | 4/19/2005 |
| **Site ID:** | MACON CO NC | **Matrix:** | LIQUID |

| Analyses | Result | Units | MDL | PQL | Qual | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260B** | | | | |
| 1,1-Dichloroethane | ND | µg/L | NA | 5.0 | | 04/26/05 2:28 AM | CS/TC |
| 1,2-Dichloroethane | ND | µg/L | NA | 1.0 | | 04/26/05 2:28 AM | CS/TC |
| 1,1-Dichloroethene | ND | µg/L | NA | 5.0 | | 04/26/05 2:28 AM | CS/TC |
| cis-1,2-Dichloroethene | ND | µg/L | NA | 5.0 | | 04/26/05 2:28 AM | CS/TC |
| trans-1,2-Dichloroethene | ND | µg/L | NA | 5.0 | | 04/26/05 2:28 AM | CS/TC |
| 1,2-Dichloropropane | ND | µg/L | NA | 1.0 | | 04/26/05 2:28 AM | CS/TC |
| cis-1,3-Dichloropropene | ND | µg/L | NA | 1.0 | | 04/26/05 2:28 AM | CS/TC |
| trans-1,3-Dichloropropene | ND | µg/L | NA | 1.0 | | 04/26/05 2:28 AM | CS/TC |
| Ethylbenzene | ND | µg/L | NA | 5.0 | | 04/26/05 2:28 AM | CS/TC |
| 2-Hexanone | ND | µg/L | NA | 50.0 | | 04/26/05 2:28 AM | CS/TC |
| Iodomethane | ND | µg/L | NA | 10.0 | | 04/26/05 2:28 AM | CS/TC |
| Methylene chloride | ND | µg/L | NA | 5.0 | | 04/26/05 2:28 AM | CS/TC |
| 4-Methyl-2-pentanone | ND | µg/L | NA | 50.0 | | 04/26/05 2:28 AM | CS/TC |
| Styrene | ND | µg/L | NA | 5.0 | | 04/26/05 2:28 AM | CS/TC |
| 1,1,1,2-Tetrachloroethane | ND | µg/L | NA | 5.0 | | 04/26/05 2:28 AM | CS/TC |
| 1,1,2,2-Tetrachloroethane | ND | µg/L | NA | 5.0 | | 04/26/05 2:28 AM | CS/TC |
| Tetrachloroethene | ND | µg/L | NA | 1.0 | | 04/26/05 2:28 AM | CS/TC |
| Toluene | ND | µg/L | NA | 5.0 | | 04/26/05 2:28 AM | CS/TC |
| 1,1,1-Trichloroethane | ND | µg/L | NA | 5.0 | | 04/26/05 2:28 AM | CS/TC |
| 1,1,2-Trichloroethane | ND | µg/L | NA | 5.0 | | 04/26/05 2:28 AM | CS/TC |
| Trichloroethene | ND | µg/L | NA | 1.0 | | 04/26/05 2:28 AM | CS/TC |
| Trichlorofluoromethane | ND | µg/L | NA | 5.0 | | 04/26/05 2:28 AM | CS/TC |
| 1,2,3-Trichloropropane | ND | µg/L | NA | 1.0 | | 04/26/05 2:28 AM | CS/TC |
| Vinyl acetate | ND | µg/L | NA | 25.0 | | 04/26/05 2:28 AM | CS/TC |
| Vinyl chloride | ND | µg/L | NA | 1.0 | | 04/26/05 2:28 AM | CS/TC |
| o-Xylene | ND | µg/L | NA | 5.0 | | 04/26/05 2:28 AM | CS/TC |
| m,p-Xylene | ND | µg/L | NA | 5.0 | | 04/26/05 2:28 AM | CS/TC |
| Surr: 1,2-Dichloroethane-d4 | 108 | %REC | NA | 80-120 | | 04/26/05 2:28 AM | CS/TC |
| Surr: 4-Bromofluorobenzene | 95 | %REC | NA | 86-115 | | 04/26/05 2:28 AM | CS/TC |
| Surr: Dibromofluoromethane | 113 | %REC | NA | 80-120 | | 04/26/05 2:28 AM | CS/TC |
| Surr: Toluene-d8 | 97 | %REC | NA | 88-110 | | 04/26/05 2:28 AM | CS/TC |

**Key:**

| | |
|---|---|
| MCL | Maximum Contaminant Level |
| MDL | Minimum Detection Limit |
| NA | Not Applicable |
| ND | Not Detected at the PQL or MDL |
| PQL | Practical Quantitation Limit |
| TIC | Tentatively Identified Compounds |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level or Regulatory Level |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| H | Sample extraction/analysis holding time exceeded |
| J | Analyte detected below PQL |
| S | Spike Recovery outside accepted recovery limits |

# REI Consultants Inc.

**Date:** *27-May-05*

| | | | |
|---|---|---|---|
| **CLIENT:** | MACON COUNTY SOLID WASTE MANAG | **Lab Order:** | 0504996 |
| **Client Sample ID:** | MW-14 | **Lab ID:** | 0504996-06A |
| **Project:** | MSW LANDFILL | **Collection Date:** | 4/19/2005 |
| **Site ID:** | MACON CO NC | **Matrix:** | LIQUID |

| Analyses | Result | Units | MDL | PQL | Qual | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|---|
| **TOTAL METALS BY ICP-MS** | | | **SW6020** | | | | |
| Antimony | ND | mg/L | NA | 0.0300 | | 05/09/05 11:00 PM | BP |
| Arsenic | ND | mg/L | NA | 0.0100 | | 05/09/05 11:00 PM | BP |
| Barium | ND | mg/L | NA | 0.500 | | 05/09/05 11:00 PM | BP |
| Beryllium | ND | mg/L | NA | 0.0020 | | 05/09/05 11:00 PM | BP |
| Cadmium | ND | mg/L | NA | 0.0010 | | 05/09/05 11:00 PM | BP |
| Chromium | ND | mg/L | NA | 0.0100 | | 05/09/05 11:00 PM | BP |
| Cobalt | ND | mg/L | NA | 0.0100 | | 05/09/05 11:00 PM | BP |
| Copper | ND | mg/L | NA | 0.200 | | 05/09/05 11:00 PM | BP |
| Lead | ND | mg/L | NA | 0.0100 | | 05/09/05 11:00 PM | BP |
| Nickel | ND | mg/L | NA | 0.0500 | | 05/09/05 11:00 PM | BP |
| Selenium | ND | mg/L | NA | 0.0200 | | 05/09/05 11:00 PM | BP |
| Silver | ND | mg/L | NA | 0.0100 | | 05/09/05 11:00 PM | BP |
| Thallium | ND | mg/L | NA | 0.0100 | | 05/09/05 11:00 PM | BP |
| Vanadium | ND | mg/L | NA | 0.0400 | | 05/09/05 11:00 PM | BP |
| Zinc | ND | mg/L | NA | 0.0500 | | 05/09/05 11:00 PM | BP |
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260B** | | | | |
| Acetone | ND | µg/L | NA | 50.0 | | 04/26/05 3:03 AM | CS/TC |
| Acrylonitrile | ND | µg/L | NA | 25.0 | | 04/26/05 3:03 AM | CS/TC |
| Benzene | ND | µg/L | NA | 1.0 | | 04/26/05 3:03 AM | CS/TC |
| Bromochloromethane | ND | µg/L | NA | 5.0 | | 04/26/05 3:03 AM | CS/TC |
| Bromodichloromethane | ND | µg/L | NA | 1.0 | | 04/26/05 3:03 AM | CS/TC |
| Bromoform | ND | µg/L | NA | 1.0 | | 04/26/05 3:03 AM | CS/TC |
| Bromomethane | ND | µg/L | NA | 5.0 | | 04/26/05 3:03 AM | CS/TC |
| 2-Butanone | ND | µg/L | NA | 50.0 | | 04/26/05 3:03 AM | CS/TC |
| Carbon disulfide | ND | µg/L | NA | 25.0 | | 04/26/05 3:03 AM | CS/TC |
| Carbon tetrachloride | ND | µg/L | NA | 1.0 | | 04/26/05 3:03 AM | CS/TC |
| Chlorobenzene | ND | µg/L | NA | 5.0 | | 04/26/05 3:03 AM | CS/TC |
| Chloroethane | ND | µg/L | NA | 5.0 | | 04/26/05 3:03 AM | CS/TC |
| Chloroform | ND | µg/L | NA | 1.0 | | 04/26/05 3:03 AM | CS/TC |
| Chloromethane | ND | µg/L | NA | 1.0 | | 04/26/05 3:03 AM | CS/TC |
| Dibromochloromethane | ND | µg/L | NA | 5.0 | | 04/26/05 3:03 AM | CS/TC |
| 1,2-Dibromo-3-chloropropane | ND | µg/L | NA | 1.0 | | 04/26/05 3:03 AM | CS/TC |
| 1,2-Dibromoethane | ND | µg/L | NA | 1.0 | | 04/26/05 3:03 AM | CS/TC |
| Dibromomethane | ND | µg/L | NA | 5.0 | | 04/26/05 3:03 AM | CS/TC |
| 1,2-Dichlorobenzene | ND | µg/L | NA | 5.0 | | 04/26/05 3:03 AM | CS/TC |
| 1,4-Dichlorobenzene | ND | µg/L | NA | 5.0 | | 04/26/05 3:03 AM | CS/TC |
| trans-1,4-Dichloro-2-butene | ND | µg/L | NA | 50.0 | | 04/26/05 3:03 AM | CS/TC |

**Key:**

| | |
|---|---|
| MCL | Maximum Contaminant Level |
| MDL | Minimum Detection Limit |
| NA | Not Applicable |
| ND | Not Detected at the PQL or MDL |
| PQL | Practical Quantitation Limit |
| TIC | Tentatively Identified Compounds |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level or Regulatory Level |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| H | Sample extraction/analysis holding time exceeded |
| J | Analyte detected below PQL |
| S | Spike Recovery outside accepted recovery limits |

# REI Consultants Inc.

**Date:** *27-May-05*

| | | | |
|---|---|---|---|
| **CLIENT:** | MACON COUNTY SOLID WASTE MANAG | **Lab Order:** | 0504996 |
| **Client Sample ID:** | MW-14 | **Lab ID:** | 0504996-06A |
| **Project:** | MSW LANDFILL | **Collection Date:** | 4/19/2005 |
| **Site ID:** | MACON CO NC | **Matrix:** | LIQUID |

| Analyses | Result | Units | MDL | PQL | Qual | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260B** | | | | |
| 1,1-Dichloroethane | ND | µg/L | NA | 5.0 | | 04/26/05 3:03 AM | CS/TC |
| 1,2-Dichloroethane | ND | µg/L | NA | 1.0 | | 04/26/05 3:03 AM | CS/TC |
| 1,1-Dichloroethene | ND | µg/L | NA | 5.0 | | 04/26/05 3:03 AM | CS/TC |
| cis-1,2-Dichloroethene | ND | µg/L | NA | 5.0 | | 04/26/05 3:03 AM | CS/TC |
| trans-1,2-Dichloroethene | ND | µg/L | NA | 5.0 | | 04/26/05 3:03 AM | CS/TC |
| 1,2-Dichloropropane | ND | µg/L | NA | 1.0 | | 04/26/05 3:03 AM | CS/TC |
| cis-1,3-Dichloropropene | ND | µg/L | NA | 1.0 | | 04/26/05 3:03 AM | CS/TC |
| trans-1,3-Dichloropropene | ND | µg/L | NA | 1.0 | | 04/26/05 3:03 AM | CS/TC |
| Ethylbenzene | ND | µg/L | NA | 5.0 | | 04/26/05 3:03 AM | CS/TC |
| 2-Hexanone | ND | µg/L | NA | 50.0 | | 04/26/05 3:03 AM | CS/TC |
| Iodomethane | ND | µg/L | NA | 10.0 | | 04/26/05 3:03 AM | CS/TC |
| Methylene chloride | ND | µg/L | NA | 5.0 | | 04/26/05 3:03 AM | CS/TC |
| 4-Methyl-2-pentanone | ND | µg/L | NA | 50.0 | | 04/26/05 3:03 AM | CS/TC |
| Styrene | ND | µg/L | NA | 5.0 | | 04/26/05 3:03 AM | CS/TC |
| 1,1,1,2-Tetrachloroethane | ND | µg/L | NA | 5.0 | | 04/26/05 3:03 AM | CS/TC |
| 1,1,2,2-Tetrachloroethane | ND | µg/L | NA | 5.0 | | 04/26/05 3:03 AM | CS/TC |
| Tetrachloroethene | ND | µg/L | NA | 1.0 | | 04/26/05 3:03 AM | CS/TC |
| Toluene | ND | µg/L | NA | 5.0 | | 04/26/05 3:03 AM | CS/TC |
| 1,1,1-Trichloroethane | ND | µg/L | NA | 5.0 | | 04/26/05 3:03 AM | CS/TC |
| 1,1,2-Trichloroethane | ND | µg/L | NA | 5.0 | | 04/26/05 3:03 AM | CS/TC |
| Trichloroethene | ND | µg/L | NA | 1.0 | | 04/26/05 3:03 AM | CS/TC |
| Trichlorofluoromethane | ND | µg/L | NA | 5.0 | | 04/26/05 3:03 AM | CS/TC |
| 1,2,3-Trichloropropane | ND | µg/L | NA | 1.0 | | 04/26/05 3:03 AM | CS/TC |
| Vinyl acetate | ND | µg/L | NA | 25.0 | | 04/26/05 3:03 AM | CS/TC |
| Vinyl chloride | ND | µg/L | NA | 1.0 | | 04/26/05 3:03 AM | CS/TC |
| o-Xylene | ND | µg/L | NA | 5.0 | | 04/26/05 3:03 AM | CS/TC |
| m,p-Xylene | ND | µg/L | NA | 5.0 | | 04/26/05 3:03 AM | CS/TC |
| Surr: 1,2-Dichloroethane-d4 | 109 | %REC | NA | 80-120 | | 04/26/05 3:03 AM | CS/TC |
| Surr: 4-Bromofluorobenzene | 94 | %REC | NA | 86-115 | | 04/26/05 3:03 AM | CS/TC |
| Surr: Dibromofluoromethane | 109 | %REC | NA | 80-120 | | 04/26/05 3:03 AM | CS/TC |
| Surr: Toluene-d8 | 98 | %REC | NA | 88-110 | | 04/26/05 3:03 AM | CS/TC |

**Key:**

| | |
|---|---|
| MCL | Maximum Contaminant Level |
| MDL | Minimum Detection Limit |
| NA | Not Applicable |
| ND | Not Detected at the PQL or MDL |
| PQL | Practical Quantitation Limit |
| TIC | Tentatively Identified Compounds |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level or Regulatory Level |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| H | Sample extraction/analysis holding time exceeded |
| J | Analyte detected below PQL |
| S | Spike Recovery outside accepted recovery limits |

# REI Consultants Inc.

**Date:** *27-May-05*

| | | | |
|---|---|---|---|
| **CLIENT:** | MACON COUNTY SOLID WASTE MANAG | **Lab Order:** | 0504996 |
| **Client Sample ID:** | MW-15 | **Lab ID:** | 0504996-07A |
| **Project:** | MSW LANDFILL | **Collection Date:** | 4/19/2005 |
| **Site ID:** | MACON CO NC | **Matrix:** | LIQUID |

| Analyses | Result | Units | MDL | PQL | Qual | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|---|
| **TOTAL METALS BY ICP-MS** | | | **SW6020** | | | | |
| Antimony | ND | mg/L | NA | 0.0300 | | 05/09/05 11:06 PM | BP |
| Arsenic | ND | mg/L | NA | 0.0100 | | 05/09/05 11:06 PM | BP |
| Barium | 0.699 | mg/L | NA | 0.500 | | 05/09/05 11:06 PM | BP |
| Beryllium | ND | mg/L | NA | 0.0020 | | 05/09/05 11:06 PM | BP |
| Cadmium | ND | mg/L | NA | 0.0010 | | 05/09/05 11:06 PM | BP |
| Chromium | 0.0126 | mg/L | NA | 0.0100 | | 05/09/05 11:06 PM | BP |
| Cobalt | 0.0533 | mg/L | NA | 0.0100 | | 05/09/05 11:06 PM | BP |
| Copper | ND | mg/L | NA | 0.200 | | 05/09/05 11:06 PM | BP |
| Lead | 0.0265 | mg/L | NA | 0.0100 | | 05/09/05 11:06 PM | BP |
| Nickel | ND | mg/L | NA | 0.0500 | | 05/09/05 11:06 PM | BP |
| Selenium | ND | mg/L | NA | 0.0200 | | 05/09/05 11:06 PM | BP |
| Silver | ND | mg/L | NA | 0.0100 | | 05/09/05 11:06 PM | BP |
| Thallium | ND | mg/L | NA | 0.0100 | | 05/09/05 11:06 PM | BP |
| Vanadium | 0.0514 | mg/L | NA | 0.0400 | | 05/09/05 11:06 PM | BP |
| Zinc | 0.0721 | mg/L | NA | 0.0500 | | 05/09/05 11:06 PM | BP |
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260B** | | | | |
| Acetone | ND | µg/L | NA | 50.0 | | 04/26/05 3:38 AM | CS/TC |
| Acrylonitrile | ND | µg/L | NA | 25.0 | | 04/26/05 3:38 AM | CS/TC |
| Benzene | ND | µg/L | NA | 1.0 | | 04/26/05 3:38 AM | CS/TC |
| Bromochloromethane | ND | µg/L | NA | 5.0 | | 04/26/05 3:38 AM | CS/TC |
| Bromodichloromethane | ND | µg/L | NA | 1.0 | | 04/26/05 3:38 AM | CS/TC |
| Bromoform | ND | µg/L | NA | 1.0 | | 04/26/05 3:38 AM | CS/TC |
| Bromomethane | ND | µg/L | NA | 5.0 | | 04/26/05 3:38 AM | CS/TC |
| 2-Butanone | ND | µg/L | NA | 50.0 | | 04/26/05 3:38 AM | CS/TC |
| Carbon disulfide | ND | µg/L | NA | 25.0 | | 04/26/05 3:38 AM | CS/TC |
| Carbon tetrachloride | ND | µg/L | NA | 1.0 | | 04/26/05 3:38 AM | CS/TC |
| Chlorobenzene | ND | µg/L | NA | 5.0 | | 04/26/05 3:38 AM | CS/TC |
| Chloroethane | ND | µg/L | NA | 5.0 | | 04/26/05 3:38 AM | CS/TC |
| Chloroform | ND | µg/L | NA | 1.0 | | 04/26/05 3:38 AM | CS/TC |
| Chloromethane | ND | µg/L | NA | 1.0 | | 04/26/05 3:38 AM | CS/TC |
| Dibromochloromethane | ND | µg/L | NA | 5.0 | | 04/26/05 3:38 AM | CS/TC |
| 1,2-Dibromo-3-chloropropane | ND | µg/L | NA | 1.0 | | 04/26/05 3:38 AM | CS/TC |
| 1,2-Dibromoethane | ND | µg/L | NA | 1.0 | | 04/26/05 3:38 AM | CS/TC |
| Dibromomethane | ND | µg/L | NA | 5.0 | | 04/26/05 3:38 AM | CS/TC |
| 1,2-Dichlorobenzene | ND | µg/L | NA | 5.0 | | 04/26/05 3:38 AM | CS/TC |
| 1,4-Dichlorobenzene | ND | µg/L | NA | 5.0 | | 04/26/05 3:38 AM | CS/TC |
| trans-1,4-Dichloro-2-butene | ND | µg/L | NA | 50.0 | | 04/26/05 3:38 AM | CS/TC |

**Key:**

| | |
|---|---|
| MCL | Maximum Contaminant Level |
| MDL | Minimum Detection Limit |
| NA | Not Applicable |
| ND | Not Detected at the PQL or MDL |
| PQL | Practical Quantitation Limit |
| TIC | Tentatively Identified Compounds |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level or Regulatory Level |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| H | Sample extraction/analysis holding time exceeded |
| J | Analyte detected below PQL |
| S | Spike Recovery outside accepted recovery limits |

# REI Consultants Inc.

**Date:** *27-May-05*

| | | | |
|---|---|---|---|
| **CLIENT:** | MACON COUNTY SOLID WASTE MANAG | **Lab Order:** | 0504996 |
| **Client Sample ID:** | MW-15 | **Lab ID:** | 0504996-07A |
| **Project:** | MSW LANDFILL | **Collection Date:** | 4/19/2005 |
| **Site ID:** | MACON CO NC | **Matrix:** | LIQUID |

| Analyses | Result | Units | MDL | PQL | Qual | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260B** | | | | |
| 1,1-Dichloroethane | ND | µg/L | NA | 5.0 | | 04/26/05 3:38 AM | CS/TC |
| 1,2-Dichloroethane | ND | µg/L | NA | 1.0 | | 04/26/05 3:38 AM | CS/TC |
| 1,1-Dichloroethene | ND | µg/L | NA | 5.0 | | 04/26/05 3:38 AM | CS/TC |
| cis-1,2-Dichloroethene | ND | µg/L | NA | 5.0 | | 04/26/05 3:38 AM | CS/TC |
| trans-1,2-Dichloroethene | ND | µg/L | NA | 5.0 | | 04/26/05 3:38 AM | CS/TC |
| 1,2-Dichloropropane | ND | µg/L | NA | 1.0 | | 04/26/05 3:38 AM | CS/TC |
| cis-1,3-Dichloropropene | ND | µg/L | NA | 1.0 | | 04/26/05 3:38 AM | CS/TC |
| trans-1,3-Dichloropropene | ND | µg/L | NA | 1.0 | | 04/26/05 3:38 AM | CS/TC |
| Ethylbenzene | ND | µg/L | NA | 5.0 | | 04/26/05 3:38 AM | CS/TC |
| 2-Hexanone | ND | µg/L | NA | 50.0 | | 04/26/05 3:38 AM | CS/TC |
| Iodomethane | ND | µg/L | NA | 10.0 | | 04/26/05 3:38 AM | CS/TC |
| Methylene chloride | ND | µg/L | NA | 5.0 | | 04/26/05 3:38 AM | CS/TC |
| 4-Methyl-2-pentanone | ND | µg/L | NA | 50.0 | | 04/26/05 3:38 AM | CS/TC |
| Styrene | ND | µg/L | NA | 5.0 | | 04/26/05 3:38 AM | CS/TC |
| 1,1,1,2-Tetrachloroethane | ND | µg/L | NA | 5.0 | | 04/26/05 3:38 AM | CS/TC |
| 1,1,2,2-Tetrachloroethane | ND | µg/L | NA | 5.0 | | 04/26/05 3:38 AM | CS/TC |
| Tetrachloroethene | ND | µg/L | NA | 1.0 | | 04/26/05 3:38 AM | CS/TC |
| Toluene | ND | µg/L | NA | 5.0 | | 04/26/05 3:38 AM | CS/TC |
| 1,1,1-Trichloroethane | ND | µg/L | NA | 5.0 | | 04/26/05 3:38 AM | CS/TC |
| 1,1,2-Trichloroethane | ND | µg/L | NA | 5.0 | | 04/26/05 3:38 AM | CS/TC |
| Trichloroethene | ND | µg/L | NA | 1.0 | | 04/26/05 3:38 AM | CS/TC |
| Trichlorofluoromethane | ND | µg/L | NA | 5.0 | | 04/26/05 3:38 AM | CS/TC |
| 1,2,3-Trichloropropane | ND | µg/L | NA | 1.0 | | 04/26/05 3:38 AM | CS/TC |
| Vinyl acetate | ND | µg/L | NA | 25.0 | | 04/26/05 3:38 AM | CS/TC |
| Vinyl chloride | ND | µg/L | NA | 1.0 | | 04/26/05 3:38 AM | CS/TC |
| o-Xylene | ND | µg/L | NA | 5.0 | | 04/26/05 3:38 AM | CS/TC |
| m,p-Xylene | ND | µg/L | NA | 5.0 | | 04/26/05 3:38 AM | CS/TC |
| Surr: 1,2-Dichloroethane-d4 | 105 | %REC | NA | 80-120 | | 04/26/05 3:38 AM | CS/TC |
| Surr: 4-Bromofluorobenzene | 96 | %REC | NA | 86-115 | | 04/26/05 3:38 AM | CS/TC |
| Surr: Dibromofluoromethane | 110 | %REC | NA | 80-120 | | 04/26/05 3:38 AM | CS/TC |
| Surr: Toluene-d8 | 96 | %REC | NA | 88-110 | | 04/26/05 3:38 AM | CS/TC |

**Key:**

| | |
|---|---|
| MCL | Maximum Contaminant Level |
| MDL | Minimum Detection Limit |
| NA | Not Applicable |
| ND | Not Detected at the PQL or MDL |
| PQL | Practical Quantitation Limit |
| TIC | Tentatively Identified Compounds |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level or Regulatory Level |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| H | Sample extraction/analysis holding time exceeded |
| J | Analyte detected below PQL |
| S | Spike Recovery outside accepted recovery limits |

# REI Consultants Inc.

**Date:** *27-May-05*

| | | | |
|---|---|---|---|
| **CLIENT:** | MACON COUNTY SOLID WASTE MANAG | **Lab Order:** | 0504996 |
| **Client Sample ID:** | MW-17 | **Lab ID:** | 0504996-08A |
| **Project:** | MSW LANDFILL | **Collection Date:** | 4/19/2005 |
| **Site ID:** | MACON CO NC | **Matrix:** | LIQUID |

| Analyses | Result | Units | MDL | PQL | Qual | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|---|
| **TOTAL METALS BY ICP-MS** | | | **SW6020** | | | | |
| Antimony | ND | mg/L | NA | 0.0300 | | 05/09/05 11:11 PM | BP |
| Arsenic | ND | mg/L | NA | 0.0100 | | 05/09/05 11:11 PM | BP |
| Barium | ND | mg/L | NA | 0.500 | | 05/09/05 11:11 PM | BP |
| Beryllium | ND | mg/L | NA | 0.0020 | | 05/09/05 11:11 PM | BP |
| Cadmium | ND | mg/L | NA | 0.0010 | | 05/09/05 11:11 PM | BP |
| Chromium | 0.0230 | mg/L | NA | 0.0100 | | 05/09/05 11:11 PM | BP |
| Cobalt | 0.0125 | mg/L | NA | 0.0100 | | 05/09/05 11:11 PM | BP |
| Copper | ND | mg/L | NA | 0.200 | | 05/09/05 11:11 PM | BP |
| Lead | ND | mg/L | NA | 0.0100 | | 05/09/05 11:11 PM | BP |
| Nickel | ND | mg/L | NA | 0.0500 | | 05/09/05 11:11 PM | BP |
| Selenium | ND | mg/L | NA | 0.0200 | | 05/09/05 11:11 PM | BP |
| Silver | ND | mg/L | NA | 0.0100 | | 05/09/05 11:11 PM | BP |
| Thallium | ND | mg/L | NA | 0.0100 | | 05/09/05 11:11 PM | BP |
| Vanadium | ND | mg/L | NA | 0.0400 | | 05/09/05 11:11 PM | BP |
| Zinc | 0.0556 | mg/L | NA | 0.0500 | | 05/09/05 11:11 PM | BP |
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260B** | | | | |
| Acetone | ND | µg/L | NA | 50.0 | | 04/26/05 4:13 AM | CS/TC |
| Acrylonitrile | ND | µg/L | NA | 25.0 | | 04/26/05 4:13 AM | CS/TC |
| Benzene | ND | µg/L | NA | 1.0 | | 04/26/05 4:13 AM | CS/TC |
| Bromochloromethane | ND | µg/L | NA | 5.0 | | 04/26/05 4:13 AM | CS/TC |
| Bromodichloromethane | ND | µg/L | NA | 1.0 | | 04/26/05 4:13 AM | CS/TC |
| Bromoform | ND | µg/L | NA | 1.0 | | 04/26/05 4:13 AM | CS/TC |
| Bromomethane | ND | µg/L | NA | 5.0 | | 04/26/05 4:13 AM | CS/TC |
| 2-Butanone | ND | µg/L | NA | 50.0 | | 04/26/05 4:13 AM | CS/TC |
| Carbon disulfide | ND | µg/L | NA | 25.0 | | 04/26/05 4:13 AM | CS/TC |
| Carbon tetrachloride | ND | µg/L | NA | 1.0 | | 04/26/05 4:13 AM | CS/TC |
| Chlorobenzene | ND | µg/L | NA | 5.0 | | 04/26/05 4:13 AM | CS/TC |
| Chloroethane | ND | µg/L | NA | 5.0 | | 04/26/05 4:13 AM | CS/TC |
| Chloroform | ND | µg/L | NA | 1.0 | | 04/26/05 4:13 AM | CS/TC |
| Chloromethane | ND | µg/L | NA | 1.0 | | 04/26/05 4:13 AM | CS/TC |
| Dibromochloromethane | ND | µg/L | NA | 5.0 | | 04/26/05 4:13 AM | CS/TC |
| 1,2-Dibromo-3-chloropropane | ND | µg/L | NA | 1.0 | | 04/26/05 4:13 AM | CS/TC |
| 1,2-Dibromoethane | ND | µg/L | NA | 1.0 | | 04/26/05 4:13 AM | CS/TC |
| Dibromomethane | ND | µg/L | NA | 5.0 | | 04/26/05 4:13 AM | CS/TC |
| 1,2-Dichlorobenzene | ND | µg/L | NA | 5.0 | | 04/26/05 4:13 AM | CS/TC |
| 1,4-Dichlorobenzene | ND | µg/L | NA | 5.0 | | 04/26/05 4:13 AM | CS/TC |
| trans-1,4-Dichloro-2-butene | ND | µg/L | NA | 50.0 | | 04/26/05 4:13 AM | CS/TC |

**Key:**

| | |
|---|---|
| MCL | Maximum Contaminant Level |
| MDL | Minimum Detection Limit |
| NA | Not Applicable |
| ND | Not Detected at the PQL or MDL |
| PQL | Practical Quantitation Limit |
| TIC | Tentatively Identified Compounds |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level or Regulatory Level |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| H | Sample extraction/analysis holding time exceeded |
| J | Analyte detected below PQL |
| S | Spike Recovery outside accepted recovery limits |

# REI Consultants Inc.

**Date:** *27-May-05*

| | | | |
|---|---|---|---|
| **CLIENT:** | MACON COUNTY SOLID WASTE MANAG | **Lab Order:** | 0504996 |
| **Client Sample ID:** | MW-17 | **Lab ID:** | 0504996-08A |
| **Project:** | MSW LANDFILL | **Collection Date:** | 4/19/2005 |
| **Site ID:** | MACON CO NC | **Matrix:** | LIQUID |

| Analyses | Result | Units | MDL | PQL | Qual | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260B** | | | | |
| 1,1-Dichloroethane | ND | µg/L | NA | 5.0 | | 04/26/05 4:13 AM | CS/TC |
| 1,2-Dichloroethane | ND | µg/L | NA | 1.0 | | 04/26/05 4:13 AM | CS/TC |
| 1,1-Dichloroethene | ND | µg/L | NA | 5.0 | | 04/26/05 4:13 AM | CS/TC |
| cis-1,2-Dichloroethene | ND | µg/L | NA | 5.0 | | 04/26/05 4:13 AM | CS/TC |
| trans-1,2-Dichloroethene | ND | µg/L | NA | 5.0 | | 04/26/05 4:13 AM | CS/TC |
| 1,2-Dichloropropane | ND | µg/L | NA | 1.0 | | 04/26/05 4:13 AM | CS/TC |
| cis-1,3-Dichloropropene | ND | µg/L | NA | 1.0 | | 04/26/05 4:13 AM | CS/TC |
| trans-1,3-Dichloropropene | ND | µg/L | NA | 1.0 | | 04/26/05 4:13 AM | CS/TC |
| Ethylbenzene | ND | µg/L | NA | 5.0 | | 04/26/05 4:13 AM | CS/TC |
| 2-Hexanone | ND | µg/L | NA | 50.0 | | 04/26/05 4:13 AM | CS/TC |
| Iodomethane | ND | µg/L | NA | 10.0 | | 04/26/05 4:13 AM | CS/TC |
| Methylene chloride | ND | µg/L | NA | 5.0 | | 04/26/05 4:13 AM | CS/TC |
| 4-Methyl-2-pentanone | ND | µg/L | NA | 50.0 | | 04/26/05 4:13 AM | CS/TC |
| Styrene | ND | µg/L | NA | 5.0 | | 04/26/05 4:13 AM | CS/TC |
| 1,1,1,2-Tetrachloroethane | ND | µg/L | NA | 5.0 | | 04/26/05 4:13 AM | CS/TC |
| 1,1,2,2-Tetrachloroethane | ND | µg/L | NA | 5.0 | | 04/26/05 4:13 AM | CS/TC |
| Tetrachloroethene | ND | µg/L | NA | 1.0 | | 04/26/05 4:13 AM | CS/TC |
| Toluene | ND | µg/L | NA | 5.0 | | 04/26/05 4:13 AM | CS/TC |
| 1,1,1-Trichloroethane | ND | µg/L | NA | 5.0 | | 04/26/05 4:13 AM | CS/TC |
| 1,1,2-Trichloroethane | ND | µg/L | NA | 5.0 | | 04/26/05 4:13 AM | CS/TC |
| Trichloroethene | ND | µg/L | NA | 1.0 | | 04/26/05 4:13 AM | CS/TC |
| Trichlorofluoromethane | ND | µg/L | NA | 5.0 | | 04/26/05 4:13 AM | CS/TC |
| 1,2,3-Trichloropropane | ND | µg/L | NA | 1.0 | | 04/26/05 4:13 AM | CS/TC |
| Vinyl acetate | ND | µg/L | NA | 25.0 | | 04/26/05 4:13 AM | CS/TC |
| Vinyl chloride | ND | µg/L | NA | 1.0 | | 04/26/05 4:13 AM | CS/TC |
| o-Xylene | ND | µg/L | NA | 5.0 | | 04/26/05 4:13 AM | CS/TC |
| m,p-Xylene | ND | µg/L | NA | 5.0 | | 04/26/05 4:13 AM | CS/TC |
| Surr: 1,2-Dichloroethane-d4 | 109 | %REC | NA | 80-120 | | 04/26/05 4:13 AM | CS/TC |
| Surr: 4-Bromofluorobenzene | 96 | %REC | NA | 86-115 | | 04/26/05 4:13 AM | CS/TC |
| Surr: Dibromofluoromethane | 112 | %REC | NA | 80-120 | | 04/26/05 4:13 AM | CS/TC |
| Surr: Toluene-d8 | 97 | %REC | NA | 88-110 | | 04/26/05 4:13 AM | CS/TC |

**Key:**

| | |
|---|---|
| MCL | Maximum Contaminant Level |
| MDL | Minimum Detection Limit |
| NA | Not Applicable |
| ND | Not Detected at the PQL or MDL |
| PQL | Practical Quantitation Limit |
| TIC | Tentatively Identified Compounds |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level or Regulatory Level |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| H | Sample extraction/analysis holding time exceeded |
| J | Analyte detected below PQL |
| S | Spike Recovery outside accepted recovery limits |

# REI Consultants Inc.

**Date:** *27-May-05*

| | | | |
|---|---|---|---|
| **CLIENT:** | MACON COUNTY SOLID WASTE MANAG | **Lab Order:** | 0504996 |
| **Client Sample ID:** | MW-18 | **Lab ID:** | 0504996-09A |
| **Project:** | MSW LANDFILL | **Collection Date:** | 4/19/2005 |
| **Site ID:** | MACON CO NC | **Matrix:** | LIQUID |

| Analyses | Result | Units | MDL | PQL | Qual | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|---|
| **TOTAL METALS BY ICP-MS** | | | **SW6020** | | | | |
| Antimony | ND | mg/L | NA | 0.0300 | | 05/09/05 11:17 PM | BP |
| Arsenic | ND | mg/L | NA | 0.0100 | | 05/09/05 11:17 PM | BP |
| Barium | ND | mg/L | NA | 0.500 | | 05/09/05 11:17 PM | BP |
| Beryllium | ND | mg/L | NA | 0.0020 | | 05/09/05 11:17 PM | BP |
| Cadmium | ND | mg/L | NA | 0.0010 | | 05/09/05 11:17 PM | BP |
| Chromium | 0.0147 | mg/L | NA | 0.0100 | | 05/09/05 11:17 PM | BP |
| Cobalt | ND | mg/L | NA | 0.0100 | | 05/09/05 11:17 PM | BP |
| Copper | ND | mg/L | NA | 0.200 | | 05/09/05 11:17 PM | BP |
| Lead | ND | mg/L | NA | 0.0100 | | 05/09/05 11:17 PM | BP |
| Nickel | ND | mg/L | NA | 0.0500 | | 05/09/05 11:17 PM | BP |
| Selenium | ND | mg/L | NA | 0.0200 | | 05/09/05 11:17 PM | BP |
| Silver | ND | mg/L | NA | 0.0100 | | 05/09/05 11:17 PM | BP |
| Thallium | ND | mg/L | NA | 0.0100 | | 05/09/05 11:17 PM | BP |
| Vanadium | ND | mg/L | NA | 0.0400 | | 05/09/05 11:17 PM | BP |
| Zinc | ND | mg/L | NA | 0.0500 | | 05/09/05 11:17 PM | BP |
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260B** | | | | |
| Acetone | ND | µg/L | NA | 50.0 | | 04/26/05 4:48 AM | CS/TC |
| Acrylonitrile | ND | µg/L | NA | 25.0 | | 04/26/05 4:48 AM | CS/TC |
| Benzene | ND | µg/L | NA | 1.0 | | 04/26/05 4:48 AM | CS/TC |
| Bromochloromethane | ND | µg/L | NA | 5.0 | | 04/26/05 4:48 AM | CS/TC |
| Bromodichloromethane | ND | µg/L | NA | 1.0 | | 04/26/05 4:48 AM | CS/TC |
| Bromoform | ND | µg/L | NA | 1.0 | | 04/26/05 4:48 AM | CS/TC |
| Bromomethane | ND | µg/L | NA | 5.0 | | 04/26/05 4:48 AM | CS/TC |
| 2-Butanone | ND | µg/L | NA | 50.0 | | 04/26/05 4:48 AM | CS/TC |
| Carbon disulfide | ND | µg/L | NA | 25.0 | | 04/26/05 4:48 AM | CS/TC |
| Carbon tetrachloride | ND | µg/L | NA | 1.0 | | 04/26/05 4:48 AM | CS/TC |
| Chlorobenzene | ND | µg/L | NA | 5.0 | | 04/26/05 4:48 AM | CS/TC |
| Chloroethane | ND | µg/L | NA | 5.0 | | 04/26/05 4:48 AM | CS/TC |
| Chloroform | ND | µg/L | NA | 1.0 | | 04/26/05 4:48 AM | CS/TC |
| Chloromethane | ND | µg/L | NA | 1.0 | | 04/26/05 4:48 AM | CS/TC |
| Dibromochloromethane | ND | µg/L | NA | 5.0 | | 04/26/05 4:48 AM | CS/TC |
| 1,2-Dibromo-3-chloropropane | ND | µg/L | NA | 1.0 | | 04/26/05 4:48 AM | CS/TC |
| 1,2-Dibromoethane | ND | µg/L | NA | 1.0 | | 04/26/05 4:48 AM | CS/TC |
| Dibromomethane | ND | µg/L | NA | 5.0 | | 04/26/05 4:48 AM | CS/TC |
| 1,2-Dichlorobenzene | ND | µg/L | NA | 5.0 | | 04/26/05 4:48 AM | CS/TC |
| 1,4-Dichlorobenzene | ND | µg/L | NA | 5.0 | | 04/26/05 4:48 AM | CS/TC |
| trans-1,4-Dichloro-2-butene | ND | µg/L | NA | 50.0 | | 04/26/05 4:48 AM | CS/TC |

**Key:**

| | |
|---|---|
| MCL | Maximum Contaminant Level |
| MDL | Minimum Detection Limit |
| NA | Not Applicable |
| ND | Not Detected at the PQL or MDL |
| PQL | Practical Quantitation Limit |
| TIC | Tentatively Identified Compounds |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level or Regulatory Level |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| H | Sample extraction/analysis holding time exceeded |
| J | Analyte detected below PQL |
| S | Spike Recovery outside accepted recovery limits |

# REI Consultants Inc.

**Date:** *27-May-05*

| | | | |
|---|---|---|---|
| **CLIENT:** | MACON COUNTY SOLID WASTE MANAG | **Lab Order:** | 0504996 |
| **Client Sample ID:** | MW-18 | **Lab ID:** | 0504996-09A |
| **Project:** | MSW LANDFILL | **Collection Date:** | 4/19/2005 |
| **Site ID:** | MACON CO NC | **Matrix:** | LIQUID |

| Analyses | Result | Units | MDL | PQL | Qual Date Analyzed | Analyst |
|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260B** | | | |
| 1,1-Dichloroethane | ND | µg/L | NA | 5.0 | 04/26/05 4:48 AM | CS/TC |
| 1,2-Dichloroethane | ND | µg/L | NA | 1.0 | 04/26/05 4:48 AM | CS/TC |
| 1,1-Dichloroethene | ND | µg/L | NA | 5.0 | 04/26/05 4:48 AM | CS/TC |
| cis-1,2-Dichloroethene | ND | µg/L | NA | 5.0 | 04/26/05 4:48 AM | CS/TC |
| trans-1,2-Dichloroethene | ND | µg/L | NA | 5.0 | 04/26/05 4:48 AM | CS/TC |
| 1,2-Dichloropropane | ND | µg/L | NA | 1.0 | 04/26/05 4:48 AM | CS/TC |
| cis-1,3-Dichloropropene | ND | µg/L | NA | 1.0 | 04/26/05 4:48 AM | CS/TC |
| trans-1,3-Dichloropropene | ND | µg/L | NA | 1.0 | 04/26/05 4:48 AM | CS/TC |
| Ethylbenzene | ND | µg/L | NA | 5.0 | 04/26/05 4:48 AM | CS/TC |
| 2-Hexanone | ND | µg/L | NA | 50.0 | 04/26/05 4:48 AM | CS/TC |
| Iodomethane | ND | µg/L | NA | 10.0 | 04/26/05 4:48 AM | CS/TC |
| Methylene chloride | ND | µg/L | NA | 5.0 | 04/26/05 4:48 AM | CS/TC |
| 4-Methyl-2-pentanone | ND | µg/L | NA | 50.0 | 04/26/05 4:48 AM | CS/TC |
| Styrene | ND | µg/L | NA | 5.0 | 04/26/05 4:48 AM | CS/TC |
| 1,1,1,2-Tetrachloroethane | ND | µg/L | NA | 5.0 | 04/26/05 4:48 AM | CS/TC |
| 1,1,2,2-Tetrachloroethane | ND | µg/L | NA | 5.0 | 04/26/05 4:48 AM | CS/TC |
| Tetrachloroethene | ND | µg/L | NA | 1.0 | 04/26/05 4:48 AM | CS/TC |
| Toluene | ND | µg/L | NA | 5.0 | 04/26/05 4:48 AM | CS/TC |
| 1,1,1-Trichloroethane | ND | µg/L | NA | 5.0 | 04/26/05 4:48 AM | CS/TC |
| 1,1,2-Trichloroethane | ND | µg/L | NA | 5.0 | 04/26/05 4:48 AM | CS/TC |
| Trichloroethene | ND | µg/L | NA | 1.0 | 04/26/05 4:48 AM | CS/TC |
| Trichlorofluoromethane | ND | µg/L | NA | 5.0 | 04/26/05 4:48 AM | CS/TC |
| 1,2,3-Trichloropropane | ND | µg/L | NA | 1.0 | 04/26/05 4:48 AM | CS/TC |
| Vinyl acetate | ND | µg/L | NA | 25.0 | 04/26/05 4:48 AM | CS/TC |
| Vinyl chloride | ND | µg/L | NA | 1.0 | 04/26/05 4:48 AM | CS/TC |
| o-Xylene | ND | µg/L | NA | 5.0 | 04/26/05 4:48 AM | CS/TC |
| m,p-Xylene | ND | µg/L | NA | 5.0 | 04/26/05 4:48 AM | CS/TC |
| Surr: 1,2-Dichloroethane-d4 | 106 | %REC | NA | 80-120 | 04/26/05 4:48 AM | CS/TC |
| Surr: 4-Bromofluorobenzene | 98 | %REC | NA | 86-115 | 04/26/05 4:48 AM | CS/TC |
| Surr: Dibromofluoromethane | 111 | %REC | NA | 80-120 | 04/26/05 4:48 AM | CS/TC |
| Surr: Toluene-d8 | 98 | %REC | NA | 88-110 | 04/26/05 4:48 AM | CS/TC |

**Key:**

| | |
|---|---|
| MCL | Maximum Contaminant Level |
| MDL | Minimum Detection Limit |
| NA | Not Applicable |
| ND | Not Detected at the PQL or MDL |
| PQL | Practical Quantitation Limit |
| TIC | Tentatively Identified Compounds |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level or Regulatory Level |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| H | Sample extraction/analysis holding time exceeded |
| J | Analyte detected below PQL |
| S | Spike Recovery outside accepted recovery limits |

# REI Consultants Inc.

**Date:** *27-May-05*

| | | | |
|---|---|---|---|
| **CLIENT:** | MACON COUNTY SOLID WASTE MANAG | **Lab Order:** | 0504996 |
| **Client Sample ID:** | MW-19 | **Lab ID:** | 0504996-10A |
| **Project:** | MSW LANDFILL | **Collection Date:** | 4/19/2005 |
| **Site ID:** | MACON CO NC | **Matrix:** | LIQUID |

| Analyses | Result | Units | MDL | PQL | Qual | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|---|
| **TOTAL METALS BY ICP-MS** | | | **SW6020** | | | | |
| Antimony | ND | mg/L | NA | 0.0300 | | 05/09/05 11:23 PM | BP |
| Arsenic | ND | mg/L | NA | 0.0100 | | 05/09/05 11:23 PM | BP |
| Barium | 0.985 | mg/L | NA | 0.500 | | 05/09/05 11:23 PM | BP |
| Beryllium | ND | mg/L | NA | 0.0020 | | 05/09/05 11:23 PM | BP |
| Cadmium | ND | mg/L | NA | 0.0010 | | 05/09/05 11:23 PM | BP |
| Chromium | 0.0277 | mg/L | NA | 0.0100 | | 05/09/05 11:23 PM | BP |
| Cobalt | 0.0230 | mg/L | NA | 0.0100 | | 05/09/05 11:23 PM | BP |
| Copper | ND | mg/L | NA | 0.200 | | 05/09/05 11:23 PM | BP |
| Lead | 0.0569 | mg/L | NA | 0.0100 | | 05/09/05 11:23 PM | BP |
| Nickel | ND | mg/L | NA | 0.0500 | | 05/09/05 11:23 PM | BP |
| Selenium | ND | mg/L | NA | 0.0200 | | 05/09/05 11:23 PM | BP |
| Silver | ND | mg/L | NA | 0.0100 | | 05/09/05 11:23 PM | BP |
| Thallium | ND | mg/L | NA | 0.0100 | | 05/09/05 11:23 PM | BP |
| Vanadium | 0.0581 | mg/L | NA | 0.0400 | | 05/09/05 11:23 PM | BP |
| Zinc | 0.110 | mg/L | NA | 0.0500 | | 05/09/05 11:23 PM | BP |
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260B** | | | | |
| Acetone | ND | µg/L | NA | 50.0 | | 04/26/05 5:23 AM | CS/TC |
| Acrylonitrile | ND | µg/L | NA | 25.0 | | 04/26/05 5:23 AM | CS/TC |
| Benzene | ND | µg/L | NA | 1.0 | | 04/26/05 5:23 AM | CS/TC |
| Bromochloromethane | ND | µg/L | NA | 5.0 | | 04/26/05 5:23 AM | CS/TC |
| Bromodichloromethane | ND | µg/L | NA | 1.0 | | 04/26/05 5:23 AM | CS/TC |
| Bromoform | ND | µg/L | NA | 1.0 | | 04/26/05 5:23 AM | CS/TC |
| Bromomethane | ND | µg/L | NA | 5.0 | | 04/26/05 5:23 AM | CS/TC |
| 2-Butanone | ND | µg/L | NA | 50.0 | | 04/26/05 5:23 AM | CS/TC |
| Carbon disulfide | ND | µg/L | NA | 25.0 | | 04/26/05 5:23 AM | CS/TC |
| Carbon tetrachloride | ND | µg/L | NA | 1.0 | | 04/26/05 5:23 AM | CS/TC |
| Chlorobenzene | ND | µg/L | NA | 5.0 | | 04/26/05 5:23 AM | CS/TC |
| Chloroethane | ND | µg/L | NA | 5.0 | | 04/26/05 5:23 AM | CS/TC |
| Chloroform | ND | µg/L | NA | 1.0 | | 04/26/05 5:23 AM | CS/TC |
| Chloromethane | ND | µg/L | NA | 1.0 | | 04/26/05 5:23 AM | CS/TC |
| Dibromochloromethane | ND | µg/L | NA | 5.0 | | 04/26/05 5:23 AM | CS/TC |
| 1,2-Dibromo-3-chloropropane | ND | µg/L | NA | 1.0 | | 04/26/05 5:23 AM | CS/TC |
| 1,2-Dibromoethane | ND | µg/L | NA | 1.0 | | 04/26/05 5:23 AM | CS/TC |
| Dibromomethane | ND | µg/L | NA | 5.0 | | 04/26/05 5:23 AM | CS/TC |
| 1,2-Dichlorobenzene | ND | µg/L | NA | 5.0 | | 04/26/05 5:23 AM | CS/TC |
| 1,4-Dichlorobenzene | ND | µg/L | NA | 5.0 | | 04/26/05 5:23 AM | CS/TC |
| trans-1,4-Dichloro-2-butene | ND | µg/L | NA | 50.0 | | 04/26/05 5:23 AM | CS/TC |

**Key:**

| | |
|---|---|
| MCL | Maximum Contaminant Level |
| MDL | Minimum Detection Limit |
| NA | Not Applicable |
| ND | Not Detected at the PQL or MDL |
| PQL | Practical Quantitation Limit |
| TIC | Tentatively Identified Compounds |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level or Regulatory Level |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| H | Sample extraction/analysis holding time exceeded |
| J | Analyte detected below PQL |
| S | Spike Recovery outside accepted recovery limits |

# REI Consultants Inc.

**Date:** *27-May-05*

| | | | |
|---|---|---|---|
| **CLIENT:** | MACON COUNTY SOLID WASTE MANAG | **Lab Order:** | 0504996 |
| **Client Sample ID:** | MW-19 | **Lab ID:** | 0504996-10A |
| **Project:** | MSW LANDFILL | **Collection Date:** | 4/19/2005 |
| **Site ID:** | MACON CO NC | **Matrix:** | LIQUID |

| Analyses | Result | Units | MDL | PQL | Qual | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260B** | | | | |
| 1,1-Dichloroethane | ND | µg/L | NA | 5.0 | | 04/26/05 5:23 AM | CS/TC |
| 1,2-Dichloroethane | ND | µg/L | NA | 1.0 | | 04/26/05 5:23 AM | CS/TC |
| 1,1-Dichloroethene | ND | µg/L | NA | 5.0 | | 04/26/05 5:23 AM | CS/TC |
| cis-1,2-Dichloroethene | ND | µg/L | NA | 5.0 | | 04/26/05 5:23 AM | CS/TC |
| trans-1,2-Dichloroethene | ND | µg/L | NA | 5.0 | | 04/26/05 5:23 AM | CS/TC |
| 1,2-Dichloropropane | ND | µg/L | NA | 1.0 | | 04/26/05 5:23 AM | CS/TC |
| cis-1,3-Dichloropropene | ND | µg/L | NA | 1.0 | | 04/26/05 5:23 AM | CS/TC |
| trans-1,3-Dichloropropene | ND | µg/L | NA | 1.0 | | 04/26/05 5:23 AM | CS/TC |
| Ethylbenzene | ND | µg/L | NA | 5.0 | | 04/26/05 5:23 AM | CS/TC |
| 2-Hexanone | ND | µg/L | NA | 50.0 | | 04/26/05 5:23 AM | CS/TC |
| Iodomethane | ND | µg/L | NA | 10.0 | | 04/26/05 5:23 AM | CS/TC |
| Methylene chloride | ND | µg/L | NA | 5.0 | | 04/26/05 5:23 AM | CS/TC |
| 4-Methyl-2-pentanone | ND | µg/L | NA | 50.0 | | 04/26/05 5:23 AM | CS/TC |
| Styrene | ND | µg/L | NA | 5.0 | | 04/26/05 5:23 AM | CS/TC |
| 1,1,1,2-Tetrachloroethane | ND | µg/L | NA | 5.0 | | 04/26/05 5:23 AM | CS/TC |
| 1,1,2,2-Tetrachloroethane | ND | µg/L | NA | 5.0 | | 04/26/05 5:23 AM | CS/TC |
| Tetrachloroethene | ND | µg/L | NA | 1.0 | | 04/26/05 5:23 AM | CS/TC |
| Toluene | ND | µg/L | NA | 5.0 | | 04/26/05 5:23 AM | CS/TC |
| 1,1,1-Trichloroethane | ND | µg/L | NA | 5.0 | | 04/26/05 5:23 AM | CS/TC |
| 1,1,2-Trichloroethane | ND | µg/L | NA | 5.0 | | 04/26/05 5:23 AM | CS/TC |
| Trichloroethene | ND | µg/L | NA | 1.0 | | 04/26/05 5:23 AM | CS/TC |
| Trichlorofluoromethane | ND | µg/L | NA | 5.0 | | 04/26/05 5:23 AM | CS/TC |
| 1,2,3-Trichloropropane | ND | µg/L | NA | 1.0 | | 04/26/05 5:23 AM | CS/TC |
| Vinyl acetate | ND | µg/L | NA | 25.0 | | 04/26/05 5:23 AM | CS/TC |
| Vinyl chloride | ND | µg/L | NA | 1.0 | | 04/26/05 5:23 AM | CS/TC |
| o-Xylene | ND | µg/L | NA | 5.0 | | 04/26/05 5:23 AM | CS/TC |
| m,p-Xylene | ND | µg/L | NA | 5.0 | | 04/26/05 5:23 AM | CS/TC |
| Surr: 1,2-Dichloroethane-d4 | 109 | %REC | NA | 80-120 | | 04/26/05 5:23 AM | CS/TC |
| Surr: 4-Bromofluorobenzene | 99 | %REC | NA | 86-115 | | 04/26/05 5:23 AM | CS/TC |
| Surr: Dibromofluoromethane | 110 | %REC | NA | 80-120 | | 04/26/05 5:23 AM | CS/TC |
| Surr: Toluene-d8 | 96 | %REC | NA | 88-110 | | 04/26/05 5:23 AM | CS/TC |

**Key:**

| | |
|---|---|
| MCL | Maximum Contaminant Level |
| MDL | Minimum Detection Limit |
| NA | Not Applicable |
| ND | Not Detected at the PQL or MDL |
| PQL | Practical Quantitation Limit |
| TIC | Tentatively Identified Compounds |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level or Regulatory Level |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| H | Sample extraction/analysis holding time exceeded |
| J | Analyte detected below PQL |
| S | Spike Recovery outside accepted recovery limits |

# REI Consultants Inc.

**Date:** *27-May-05*

| | | | |
|---|---|---|---|
| **CLIENT:** | MACON COUNTY SOLID WASTE MANAG | **Lab Order:** | 0504996 |
| **Client Sample ID:** | MW-19A | **Lab ID:** | 0504996-11A |
| **Project:** | MSW LANDFILL | **Collection Date:** | 4/19/2005 |
| **Site ID:** | MACON CO NC | **Matrix:** | LIQUID |

| Analyses | Result | Units | MDL | PQL | Qual | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|---|
| **TOTAL METALS BY ICP-MS** | | | **SW6020** | | | | |
| Antimony | ND | mg/L | NA | 0.0300 | | 05/09/05 11:28 PM | BP |
| Arsenic | ND | mg/L | NA | 0.0100 | | 05/09/05 11:28 PM | BP |
| Barium | ND | mg/L | NA | 0.500 | | 05/09/05 11:28 PM | BP |
| Beryllium | ND | mg/L | NA | 0.0020 | | 05/09/05 11:28 PM | BP |
| Cadmium | ND | mg/L | NA | 0.0010 | | 05/09/05 11:28 PM | BP |
| Chromium | ND | mg/L | NA | 0.0100 | | 05/09/05 11:28 PM | BP |
| Cobalt | ND | mg/L | NA | 0.0100 | | 05/09/05 11:28 PM | BP |
| Copper | ND | mg/L | NA | 0.200 | | 05/09/05 11:28 PM | BP |
| Lead | ND | mg/L | NA | 0.0100 | | 05/09/05 11:28 PM | BP |
| Nickel | ND | mg/L | NA | 0.0500 | | 05/09/05 11:28 PM | BP |
| Selenium | ND | mg/L | NA | 0.0200 | | 05/09/05 11:28 PM | BP |
| Silver | ND | mg/L | NA | 0.0100 | | 05/09/05 11:28 PM | BP |
| Thallium | ND | mg/L | NA | 0.0100 | | 05/09/05 11:28 PM | BP |
| Vanadium | ND | mg/L | NA | 0.0400 | | 05/09/05 11:28 PM | BP |
| Zinc | ND | mg/L | NA | 0.0500 | | 05/09/05 11:28 PM | BP |
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260B** | | | | |
| Acetone | ND | µg/L | NA | 50.0 | | 04/26/05 5:58 AM | CS/TC |
| Acrylonitrile | ND | µg/L | NA | 25.0 | | 04/26/05 5:58 AM | CS/TC |
| Benzene | ND | µg/L | NA | 1.0 | | 04/26/05 5:58 AM | CS/TC |
| Bromochloromethane | ND | µg/L | NA | 5.0 | | 04/26/05 5:58 AM | CS/TC |
| Bromodichloromethane | ND | µg/L | NA | 1.0 | | 04/26/05 5:58 AM | CS/TC |
| Bromoform | ND | µg/L | NA | 1.0 | | 04/26/05 5:58 AM | CS/TC |
| Bromomethane | ND | µg/L | NA | 5.0 | | 04/26/05 5:58 AM | CS/TC |
| 2-Butanone | ND | µg/L | NA | 50.0 | | 04/26/05 5:58 AM | CS/TC |
| Carbon disulfide | ND | µg/L | NA | 25.0 | | 04/26/05 5:58 AM | CS/TC |
| Carbon tetrachloride | ND | µg/L | NA | 1.0 | | 04/26/05 5:58 AM | CS/TC |
| Chlorobenzene | ND | µg/L | NA | 5.0 | | 04/26/05 5:58 AM | CS/TC |
| Chloroethane | ND | µg/L | NA | 5.0 | | 04/26/05 5:58 AM | CS/TC |
| Chloroform | ND | µg/L | NA | 1.0 | | 04/26/05 5:58 AM | CS/TC |
| Chloromethane | ND | µg/L | NA | 1.0 | | 04/26/05 5:58 AM | CS/TC |
| Dibromochloromethane | ND | µg/L | NA | 5.0 | | 04/26/05 5:58 AM | CS/TC |
| 1,2-Dibromo-3-chloropropane | ND | µg/L | NA | 1.0 | | 04/26/05 5:58 AM | CS/TC |
| 1,2-Dibromoethane | ND | µg/L | NA | 1.0 | | 04/26/05 5:58 AM | CS/TC |
| Dibromomethane | ND | µg/L | NA | 5.0 | | 04/26/05 5:58 AM | CS/TC |
| 1,2-Dichlorobenzene | ND | µg/L | NA | 5.0 | | 04/26/05 5:58 AM | CS/TC |
| 1,4-Dichlorobenzene | ND | µg/L | NA | 5.0 | | 04/26/05 5:58 AM | CS/TC |
| trans-1,4-Dichloro-2-butene | ND | µg/L | NA | 50.0 | | 04/26/05 5:58 AM | CS/TC |

**Key:**

| | |
|---|---|
| MCL | Maximum Contaminant Level |
| MDL | Minimum Detection Limit |
| NA | Not Applicable |
| ND | Not Detected at the PQL or MDL |
| PQL | Practical Quantitation Limit |
| TIC | Tentatively Identified Compounds |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level or Regulatory Level |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| H | Sample extraction/analysis holding time exceeded |
| J | Analyte detected below PQL |
| S | Spike Recovery outside accepted recovery limits |

# REI Consultants Inc.

**Date:** *27-May-05*

| | | | |
|---|---|---|---|
| **CLIENT:** | MACON COUNTY SOLID WASTE MANAG | **Lab Order:** | 0504996 |
| **Client Sample ID:** | MW-19A | **Lab ID:** | 0504996-11A |
| **Project:** | MSW LANDFILL | **Collection Date:** | 4/19/2005 |
| **Site ID:** | MACON CO NC | **Matrix:** | LIQUID |

| Analyses | Result | Units | MDL | PQL | Qual | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260B** | | | | |
| 1,1-Dichloroethane | ND | µg/L | NA | 5.0 | | 04/26/05 5:58 AM | CS/TC |
| 1,2-Dichloroethane | ND | µg/L | NA | 1.0 | | 04/26/05 5:58 AM | CS/TC |
| 1,1-Dichloroethene | ND | µg/L | NA | 5.0 | | 04/26/05 5:58 AM | CS/TC |
| cis-1,2-Dichloroethene | ND | µg/L | NA | 5.0 | | 04/26/05 5:58 AM | CS/TC |
| trans-1,2-Dichloroethene | ND | µg/L | NA | 5.0 | | 04/26/05 5:58 AM | CS/TC |
| 1,2-Dichloropropane | ND | µg/L | NA | 1.0 | | 04/26/05 5:58 AM | CS/TC |
| cis-1,3-Dichloropropene | ND | µg/L | NA | 1.0 | | 04/26/05 5:58 AM | CS/TC |
| trans-1,3-Dichloropropene | ND | µg/L | NA | 1.0 | | 04/26/05 5:58 AM | CS/TC |
| Ethylbenzene | ND | µg/L | NA | 5.0 | | 04/26/05 5:58 AM | CS/TC |
| 2-Hexanone | ND | µg/L | NA | 50.0 | | 04/26/05 5:58 AM | CS/TC |
| Iodomethane | ND | µg/L | NA | 10.0 | | 04/26/05 5:58 AM | CS/TC |
| Methylene chloride | ND | µg/L | NA | 5.0 | | 04/26/05 5:58 AM | CS/TC |
| 4-Methyl-2-pentanone | ND | µg/L | NA | 50.0 | | 04/26/05 5:58 AM | CS/TC |
| Styrene | ND | µg/L | NA | 5.0 | | 04/26/05 5:58 AM | CS/TC |
| 1,1,1,2-Tetrachloroethane | ND | µg/L | NA | 5.0 | | 04/26/05 5:58 AM | CS/TC |
| 1,1,2,2-Tetrachloroethane | ND | µg/L | NA | 5.0 | | 04/26/05 5:58 AM | CS/TC |
| Tetrachloroethene | ND | µg/L | NA | 1.0 | | 04/26/05 5:58 AM | CS/TC |
| Toluene | ND | µg/L | NA | 5.0 | | 04/26/05 5:58 AM | CS/TC |
| 1,1,1-Trichloroethane | ND | µg/L | NA | 5.0 | | 04/26/05 5:58 AM | CS/TC |
| 1,1,2-Trichloroethane | ND | µg/L | NA | 5.0 | | 04/26/05 5:58 AM | CS/TC |
| Trichloroethene | ND | µg/L | NA | 1.0 | | 04/26/05 5:58 AM | CS/TC |
| Trichlorofluoromethane | ND | µg/L | NA | 5.0 | | 04/26/05 5:58 AM | CS/TC |
| 1,2,3-Trichloropropane | ND | µg/L | NA | 1.0 | | 04/26/05 5:58 AM | CS/TC |
| Vinyl acetate | ND | µg/L | NA | 25.0 | | 04/26/05 5:58 AM | CS/TC |
| Vinyl chloride | ND | µg/L | NA | 1.0 | | 04/26/05 5:58 AM | CS/TC |
| o-Xylene | ND | µg/L | NA | 5.0 | | 04/26/05 5:58 AM | CS/TC |
| m,p-Xylene | ND | µg/L | NA | 5.0 | | 04/26/05 5:58 AM | CS/TC |
| Surr: 1,2-Dichloroethane-d4 | 111 | %REC | NA | 80-120 | | 04/26/05 5:58 AM | CS/TC |
| Surr: 4-Bromofluorobenzene | 95 | %REC | NA | 86-115 | | 04/26/05 5:58 AM | CS/TC |
| Surr: Dibromofluoromethane | 113 | %REC | NA | 80-120 | | 04/26/05 5:58 AM | CS/TC |
| Surr: Toluene-d8 | 96 | %REC | NA | 88-110 | | 04/26/05 5:58 AM | CS/TC |

**Key:**

| | |
|---|---|
| MCL | Maximum Contaminant Level |
| MDL | Minimum Detection Limit |
| NA | Not Applicable |
| ND | Not Detected at the PQL or MDL |
| PQL | Practical Quantitation Limit |
| TIC | Tentatively Identified Compounds |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level or Regulatory Level |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| H | Sample extraction/analysis holding time exceeded |
| J | Analyte detected below PQL |
| S | Spike Recovery outside accepted recovery limits |

# REI Consultants Inc.

**Date:** *27-May-05*

| | | | |
|---|---|---|---|
| **CLIENT:** | MACON COUNTY SOLID WASTE MANAG | **Lab Order:** | 0504996 |
| **Client Sample ID:** | MW-20 | **Lab ID:** | 0504996-12A |
| **Project:** | MSW LANDFILL | **Collection Date:** | 4/19/2005 |
| **Site ID:** | MACON CO NC | **Matrix:** | LIQUID |

| Analyses | Result | Units | MDL | PQL | Qual | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|---|
| **TOTAL METALS BY ICP-MS** | | | **SW6020** | | | | |
| Antimony | ND | mg/L | NA | 0.0300 | | 05/09/05 11:34 PM | BP |
| Arsenic | ND | mg/L | NA | 0.0100 | | 05/09/05 11:34 PM | BP |
| Barium | ND | mg/L | NA | 0.500 | | 05/09/05 11:34 PM | BP |
| Beryllium | ND | mg/L | NA | 0.0020 | | 05/09/05 11:34 PM | BP |
| Cadmium | ND | mg/L | NA | 0.0010 | | 05/09/05 11:34 PM | BP |
| Chromium | ND | mg/L | NA | 0.0100 | | 05/09/05 11:34 PM | BP |
| Cobalt | ND | mg/L | NA | 0.0100 | | 05/09/05 11:34 PM | BP |
| Copper | ND | mg/L | NA | 0.200 | | 05/09/05 11:34 PM | BP |
| Lead | ND | mg/L | NA | 0.0100 | | 05/09/05 11:34 PM | BP |
| Nickel | ND | mg/L | NA | 0.0500 | | 05/09/05 11:34 PM | BP |
| Selenium | ND | mg/L | NA | 0.0200 | | 05/09/05 11:34 PM | BP |
| Silver | ND | mg/L | NA | 0.0100 | | 05/09/05 11:34 PM | BP |
| Thallium | ND | mg/L | NA | 0.0100 | | 05/09/05 11:34 PM | BP |
| Vanadium | ND | mg/L | NA | 0.0400 | | 05/09/05 11:34 PM | BP |
| Zinc | ND | mg/L | NA | 0.0500 | | 05/09/05 11:34 PM | BP |
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260B** | | | | |
| Acetone | ND | µg/L | NA | 50.0 | | 04/26/05 6:33 AM | CS/TC |
| Acrylonitrile | ND | µg/L | NA | 25.0 | | 04/26/05 6:33 AM | CS/TC |
| Benzene | ND | µg/L | NA | 1.0 | | 04/26/05 6:33 AM | CS/TC |
| Bromochloromethane | ND | µg/L | NA | 5.0 | | 04/26/05 6:33 AM | CS/TC |
| Bromodichloromethane | ND | µg/L | NA | 1.0 | | 04/26/05 6:33 AM | CS/TC |
| Bromoform | ND | µg/L | NA | 1.0 | | 04/26/05 6:33 AM | CS/TC |
| Bromomethane | ND | µg/L | NA | 5.0 | | 04/26/05 6:33 AM | CS/TC |
| 2-Butanone | ND | µg/L | NA | 50.0 | | 04/26/05 6:33 AM | CS/TC |
| Carbon disulfide | ND | µg/L | NA | 25.0 | | 04/26/05 6:33 AM | CS/TC |
| Carbon tetrachloride | ND | µg/L | NA | 1.0 | | 04/26/05 6:33 AM | CS/TC |
| Chlorobenzene | ND | µg/L | NA | 5.0 | | 04/26/05 6:33 AM | CS/TC |
| Chloroethane | ND | µg/L | NA | 5.0 | | 04/26/05 6:33 AM | CS/TC |
| Chloroform | ND | µg/L | NA | 1.0 | | 04/26/05 6:33 AM | CS/TC |
| Chloromethane | ND | µg/L | NA | 1.0 | | 04/26/05 6:33 AM | CS/TC |
| Dibromochloromethane | ND | µg/L | NA | 5.0 | | 04/26/05 6:33 AM | CS/TC |
| 1,2-Dibromo-3-chloropropane | ND | µg/L | NA | 1.0 | | 04/26/05 6:33 AM | CS/TC |
| 1,2-Dibromoethane | ND | µg/L | NA | 1.0 | | 04/26/05 6:33 AM | CS/TC |
| Dibromomethane | ND | µg/L | NA | 5.0 | | 04/26/05 6:33 AM | CS/TC |
| 1,2-Dichlorobenzene | ND | µg/L | NA | 5.0 | | 04/26/05 6:33 AM | CS/TC |
| 1,4-Dichlorobenzene | ND | µg/L | NA | 5.0 | | 04/26/05 6:33 AM | CS/TC |
| trans-1,4-Dichloro-2-butene | ND | µg/L | NA | 50.0 | | 04/26/05 6:33 AM | CS/TC |

**Key:**

| | |
|---|---|
| MCL | Maximum Contaminant Level |
| MDL | Minimum Detection Limit |
| NA | Not Applicable |
| ND | Not Detected at the PQL or MDL |
| PQL | Practical Quantitation Limit |
| TIC | Tentatively Identified Compounds |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level or Regulatory Level |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| H | Sample extraction/analysis holding time exceeded |
| J | Analyte detected below PQL |
| S | Spike Recovery outside accepted recovery limits |

# REI Consultants Inc.

**Date:** *27-May-05*

| | | | |
|---|---|---|---|
| **CLIENT:** | MACON COUNTY SOLID WASTE MANAG | **Lab Order:** | 0504996 |
| **Client Sample ID:** | MW-20 | **Lab ID:** | 0504996-12A |
| **Project:** | MSW LANDFILL | **Collection Date:** | 4/19/2005 |
| **Site ID:** | MACON CO NC | **Matrix:** | LIQUID |

| Analyses | Result | Units | MDL | PQL | Qual | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260B** | | | | |
| 1,1-Dichloroethane | ND | µg/L | NA | 5.0 | | 04/26/05 6:33 AM | CS/TC |
| 1,2-Dichloroethane | ND | µg/L | NA | 1.0 | | 04/26/05 6:33 AM | CS/TC |
| 1,1-Dichloroethene | ND | µg/L | NA | 5.0 | | 04/26/05 6:33 AM | CS/TC |
| cis-1,2-Dichloroethene | ND | µg/L | NA | 5.0 | | 04/26/05 6:33 AM | CS/TC |
| trans-1,2-Dichloroethene | ND | µg/L | NA | 5.0 | | 04/26/05 6:33 AM | CS/TC |
| 1,2-Dichloropropane | ND | µg/L | NA | 1.0 | | 04/26/05 6:33 AM | CS/TC |
| cis-1,3-Dichloropropene | ND | µg/L | NA | 1.0 | | 04/26/05 6:33 AM | CS/TC |
| trans-1,3-Dichloropropene | ND | µg/L | NA | 1.0 | | 04/26/05 6:33 AM | CS/TC |
| Ethylbenzene | ND | µg/L | NA | 5.0 | | 04/26/05 6:33 AM | CS/TC |
| 2-Hexanone | ND | µg/L | NA | 50.0 | | 04/26/05 6:33 AM | CS/TC |
| Iodomethane | ND | µg/L | NA | 10.0 | | 04/26/05 6:33 AM | CS/TC |
| Methylene chloride | ND | µg/L | NA | 5.0 | | 04/26/05 6:33 AM | CS/TC |
| 4-Methyl-2-pentanone | ND | µg/L | NA | 50.0 | | 04/26/05 6:33 AM | CS/TC |
| Styrene | ND | µg/L | NA | 5.0 | | 04/26/05 6:33 AM | CS/TC |
| 1,1,1,2-Tetrachloroethane | ND | µg/L | NA | 5.0 | | 04/26/05 6:33 AM | CS/TC |
| 1,1,2,2-Tetrachloroethane | ND | µg/L | NA | 5.0 | | 04/26/05 6:33 AM | CS/TC |
| Tetrachloroethene | ND | µg/L | NA | 1.0 | | 04/26/05 6:33 AM | CS/TC |
| Toluene | ND | µg/L | NA | 5.0 | | 04/26/05 6:33 AM | CS/TC |
| 1,1,1-Trichloroethane | ND | µg/L | NA | 5.0 | | 04/26/05 6:33 AM | CS/TC |
| 1,1,2-Trichloroethane | ND | µg/L | NA | 5.0 | | 04/26/05 6:33 AM | CS/TC |
| Trichloroethene | ND | µg/L | NA | 1.0 | | 04/26/05 6:33 AM | CS/TC |
| Trichlorofluoromethane | ND | µg/L | NA | 5.0 | | 04/26/05 6:33 AM | CS/TC |
| 1,2,3-Trichloropropane | ND | µg/L | NA | 1.0 | | 04/26/05 6:33 AM | CS/TC |
| Vinyl acetate | ND | µg/L | NA | 25.0 | | 04/26/05 6:33 AM | CS/TC |
| Vinyl chloride | ND | µg/L | NA | 1.0 | | 04/26/05 6:33 AM | CS/TC |
| o-Xylene | ND | µg/L | NA | 5.0 | | 04/26/05 6:33 AM | CS/TC |
| m,p-Xylene | ND | µg/L | NA | 5.0 | | 04/26/05 6:33 AM | CS/TC |
| Surr: 1,2-Dichloroethane-d4 | 109 | %REC | NA | 80-120 | | 04/26/05 6:33 AM | CS/TC |
| Surr: 4-Bromofluorobenzene | 97 | %REC | NA | 86-115 | | 04/26/05 6:33 AM | CS/TC |
| Surr: Dibromofluoromethane | 113 | %REC | NA | 80-120 | | 04/26/05 6:33 AM | CS/TC |
| Surr: Toluene-d8 | 97 | %REC | NA | 88-110 | | 04/26/05 6:33 AM | CS/TC |

**Key:**

| | |
|---|---|
| MCL | Maximum Contaminant Level |
| MDL | Minimum Detection Limit |
| NA | Not Applicable |
| ND | Not Detected at the PQL or MDL |
| PQL | Practical Quantitation Limit |
| TIC | Tentatively Identified Compounds |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level or Regulatory Level |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| H | Sample extraction/analysis holding time exceeded |
| J | Analyte detected below PQL |
| S | Spike Recovery outside accepted recovery limits |

# REI Consultants Inc.

**Date:** *27-May-05*

| | | | |
|---|---|---|---|
| **CLIENT:** | MACON COUNTY SOLID WASTE MANAG | **Lab Order:** | 0504996 |
| **Client Sample ID:** | MW-21 | **Lab ID:** | 0504996-13A |
| **Project:** | MSW LANDFILL | **Collection Date:** | 4/19/2005 |
| **Site ID:** | MACON CO NC | **Matrix:** | LIQUID |

| Analyses | Result | Units | MDL | PQL | Qual | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|---|
| **TOTAL METALS BY ICP-MS** | | | **SW6020** | | | | |
| Antimony | ND | mg/L | NA | 0.0300 | | 05/09/05 11:40 PM | BP |
| Arsenic | ND | mg/L | NA | 0.0100 | | 05/09/05 11:40 PM | BP |
| Barium | ND | mg/L | NA | 0.500 | | 05/09/05 11:40 PM | BP |
| Beryllium | ND | mg/L | NA | 0.0020 | | 05/09/05 11:40 PM | BP |
| Cadmium | ND | mg/L | NA | 0.0010 | | 05/09/05 11:40 PM | BP |
| Chromium | ND | mg/L | NA | 0.0100 | | 05/09/05 11:40 PM | BP |
| Cobalt | 0.0244 | mg/L | NA | 0.0100 | | 05/09/05 11:40 PM | BP |
| Copper | ND | mg/L | NA | 0.200 | | 05/09/05 11:40 PM | BP |
| Lead | ND | mg/L | NA | 0.0100 | | 05/09/05 11:40 PM | BP |
| Nickel | ND | mg/L | NA | 0.0500 | | 05/09/05 11:40 PM | BP |
| Selenium | ND | mg/L | NA | 0.0200 | | 05/09/05 11:40 PM | BP |
| Silver | ND | mg/L | NA | 0.0100 | | 05/09/05 11:40 PM | BP |
| Thallium | ND | mg/L | NA | 0.0100 | | 05/09/05 11:40 PM | BP |
| Vanadium | ND | mg/L | NA | 0.0400 | | 05/09/05 11:40 PM | BP |
| Zinc | ND | mg/L | NA | 0.0500 | | 05/09/05 11:40 PM | BP |
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260B** | | | | |
| Acetone | ND | µg/L | NA | 50.0 | | 04/26/05 4:41 PM | CS/TC |
| Acrylonitrile | ND | µg/L | NA | 25.0 | | 04/26/05 4:41 PM | CS/TC |
| Benzene | ND | µg/L | NA | 1.0 | | 04/26/05 4:41 PM | CS/TC |
| Bromochloromethane | ND | µg/L | NA | 5.0 | | 04/26/05 4:41 PM | CS/TC |
| Bromodichloromethane | ND | µg/L | NA | 1.0 | | 04/26/05 4:41 PM | CS/TC |
| Bromoform | ND | µg/L | NA | 1.0 | | 04/26/05 4:41 PM | CS/TC |
| Bromomethane | ND | µg/L | NA | 5.0 | | 04/26/05 4:41 PM | CS/TC |
| 2-Butanone | ND | µg/L | NA | 50.0 | | 04/26/05 4:41 PM | CS/TC |
| Carbon disulfide | ND | µg/L | NA | 25.0 | | 04/26/05 4:41 PM | CS/TC |
| Carbon tetrachloride | ND | µg/L | NA | 1.0 | | 04/26/05 4:41 PM | CS/TC |
| Chlorobenzene | ND | µg/L | NA | 5.0 | | 04/26/05 4:41 PM | CS/TC |
| Chloroethane | ND | µg/L | NA | 5.0 | | 04/26/05 4:41 PM | CS/TC |
| Chloroform | ND | µg/L | NA | 1.0 | | 04/26/05 4:41 PM | CS/TC |
| Chloromethane | ND | µg/L | NA | 1.0 | | 04/26/05 4:41 PM | CS/TC |
| Dibromochloromethane | ND | µg/L | NA | 5.0 | | 04/26/05 4:41 PM | CS/TC |
| 1,2-Dibromo-3-chloropropane | ND | µg/L | NA | 1.0 | | 04/26/05 4:41 PM | CS/TC |
| 1,2-Dibromoethane | ND | µg/L | NA | 1.0 | | 04/26/05 4:41 PM | CS/TC |
| Dibromomethane | ND | µg/L | NA | 5.0 | | 04/26/05 4:41 PM | CS/TC |
| 1,2-Dichlorobenzene | ND | µg/L | NA | 5.0 | | 04/26/05 4:41 PM | CS/TC |
| 1,4-Dichlorobenzene | ND | µg/L | NA | 5.0 | | 04/26/05 4:41 PM | CS/TC |
| trans-1,4-Dichloro-2-butene | ND | µg/L | NA | 50.0 | | 04/26/05 4:41 PM | CS/TC |

**Key:**

| | |
|---|---|
| MCL | Maximum Contaminant Level |
| MDL | Minimum Detection Limit |
| NA | Not Applicable |
| ND | Not Detected at the PQL or MDL |
| PQL | Practical Quantitation Limit |
| TIC | Tentatively Identified Compounds |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level or Regulatory Level |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| H | Sample extraction/analysis holding time exceeded |
| J | Analyte detected below PQL |
| S | Spike Recovery outside accepted recovery limits |

# REI Consultants Inc.

**Date:** *27-May-05*

| | | | |
|---|---|---|---|
| **CLIENT:** | MACON COUNTY SOLID WASTE MANAG | **Lab Order:** | 0504996 |
| **Client Sample ID:** | MW-21 | **Lab ID:** | 0504996-13A |
| **Project:** | MSW LANDFILL | **Collection Date:** | 4/19/2005 |
| **Site ID:** | MACON CO NC | **Matrix:** | LIQUID |

| Analyses | Result | Units | MDL | PQL | Qual Date Analyzed | Analyst |
|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260B** | | | |
| 1,1-Dichloroethane | ND | µg/L | NA | 5.0 | 04/26/05 4:41 PM | CS/TC |
| 1,2-Dichloroethane | ND | µg/L | NA | 1.0 | 04/26/05 4:41 PM | CS/TC |
| 1,1-Dichloroethene | ND | µg/L | NA | 5.0 | 04/26/05 4:41 PM | CS/TC |
| cis-1,2-Dichloroethene | ND | µg/L | NA | 5.0 | 04/26/05 4:41 PM | CS/TC |
| trans-1,2-Dichloroethene | ND | µg/L | NA | 5.0 | 04/26/05 4:41 PM | CS/TC |
| 1,2-Dichloropropane | ND | µg/L | NA | 1.0 | 04/26/05 4:41 PM | CS/TC |
| cis-1,3-Dichloropropene | ND | µg/L | NA | 1.0 | 04/26/05 4:41 PM | CS/TC |
| trans-1,3-Dichloropropene | ND | µg/L | NA | 1.0 | 04/26/05 4:41 PM | CS/TC |
| Ethylbenzene | ND | µg/L | NA | 5.0 | 04/26/05 4:41 PM | CS/TC |
| 2-Hexanone | ND | µg/L | NA | 50.0 | 04/26/05 4:41 PM | CS/TC |
| Iodomethane | ND | µg/L | NA | 10.0 | 04/26/05 4:41 PM | CS/TC |
| Methylene chloride | ND | µg/L | NA | 5.0 | 04/26/05 4:41 PM | CS/TC |
| 4-Methyl-2-pentanone | ND | µg/L | NA | 50.0 | 04/26/05 4:41 PM | CS/TC |
| Styrene | ND | µg/L | NA | 5.0 | 04/26/05 4:41 PM | CS/TC |
| 1,1,2,2-Tetrachloroethane | ND | µg/L | NA | 5.0 | 04/26/05 4:41 PM | CS/TC |
| Tetrachloroethene | ND | µg/L | NA | 1.0 | 04/26/05 4:41 PM | CS/TC |
| Toluene | ND | µg/L | NA | 5.0 | 04/26/05 4:41 PM | CS/TC |
| 1,1,1-Trichloroethane | ND | µg/L | NA | 5.0 | 04/26/05 4:41 PM | CS/TC |
| 1,1,2-Trichloroethane | ND | µg/L | NA | 5.0 | 04/26/05 4:41 PM | CS/TC |
| Trichloroethene | ND | µg/L | NA | 1.0 | 04/26/05 4:41 PM | CS/TC |
| Trichlorofluoromethane | ND | µg/L | NA | 5.0 | 04/26/05 4:41 PM | CS/TC |
| 1,2,3-Trichloropropane | ND | µg/L | NA | 1.0 | 04/26/05 4:41 PM | CS/TC |
| Vinyl acetate | ND | µg/L | NA | 25.0 | 04/26/05 4:41 PM | CS/TC |
| Vinyl chloride | ND | µg/L | NA | 1.0 | 04/26/05 4:41 PM | CS/TC |
| o-Xylene | ND | µg/L | NA | 5.0 | 04/26/05 4:41 PM | CS/TC |
| m,p-Xylene | ND | µg/L | NA | 5.0 | 04/26/05 4:41 PM | CS/TC |
| Surr: 1,2-Dichloroethane-d4 | 103 | %REC | NA | 80-120 | 04/26/05 4:41 PM | CS/TC |
| Surr: 4-Bromofluorobenzene | 98 | %REC | NA | 86-115 | 04/26/05 4:41 PM | CS/TC |
| Surr: Dibromofluoromethane | 102 | %REC | NA | 80-120 | 04/26/05 4:41 PM | CS/TC |
| Surr: Toluene-d8 | 97 | %REC | NA | 88-110 | 04/26/05 4:41 PM | CS/TC |

**Key:**

| | |
|---|---|
| MCL | Maximum Contaminant Level |
| MDL | Minimum Detection Limit |
| NA | Not Applicable |
| ND | Not Detected at the PQL or MDL |
| PQL | Practical Quantitation Limit |
| TIC | Tentatively Identified Compounds |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level or Regulatory Level |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| H | Sample extraction/analysis holding time exceeded |
| J | Analyte detected below PQL |
| S | Spike Recovery outside accepted recovery limits |

# REI Consultants Inc.

**Date:** *27-May-05*

| | | | |
|---|---|---|---|
| **CLIENT:** | MACON COUNTY SOLID WASTE MANAG | **Lab Order:** | 0504996 |
| **Client Sample ID:** | MW-22 | **Lab ID:** | 0504996-14A |
| **Project:** | MSW LANDFILL | **Collection Date:** | 4/19/2005 |
| **Site ID:** | MACON CO NC | **Matrix:** | LIQUID |

| Analyses | Result | Units | MDL | PQL | Qual | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|---|
| **TOTAL METALS BY ICP-MS** | | | **SW6020** | | | | |
| Antimony | ND | mg/L | NA | 0.0300 | | 05/10/05 12:02 AM | BP |
| Arsenic | ND | mg/L | NA | 0.0100 | | 05/10/05 12:02 AM | BP |
| Barium | 1.33 | mg/L | NA | 0.500 | | 05/10/05 12:02 AM | BP |
| Beryllium | 0.0047 | mg/L | NA | 0.0020 | | 05/10/05 12:02 AM | BP |
| Cadmium | ND | mg/L | NA | 0.0010 | | 05/10/05 12:02 AM | BP |
| Chromium | 0.131 | mg/L | NA | 0.0100 | | 05/10/05 12:02 AM | BP |
| Cobalt | 0.100 | mg/L | NA | 0.0100 | | 05/10/05 12:02 AM | BP |
| Copper | ND | mg/L | NA | 0.200 | | 05/10/05 12:02 AM | BP |
| Lead | 0.0454 | mg/L | NA | 0.0100 | | 05/10/05 12:02 AM | BP |
| Nickel | 0.0922 | mg/L | NA | 0.0500 | | 05/10/05 12:02 AM | BP |
| Selenium | ND | mg/L | NA | 0.0200 | | 05/10/05 12:02 AM | BP |
| Silver | ND | mg/L | NA | 0.0100 | | 05/10/05 12:02 AM | BP |
| Thallium | ND | mg/L | NA | 0.0100 | | 05/10/05 12:02 AM | BP |
| Vanadium | 0.270 | mg/L | NA | 0.0400 | | 05/10/05 12:02 AM | BP |
| Zinc | 0.212 | mg/L | NA | 0.0500 | | 05/10/05 12:02 AM | BP |
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260B** | | | | |
| Acetone | ND | µg/L | NA | 50.0 | | 04/26/05 10:28 PM | CS/TC |
| Acrylonitrile | ND | µg/L | NA | 25.0 | | 04/26/05 10:28 PM | CS/TC |
| Benzene | ND | µg/L | NA | 1.0 | | 04/26/05 10:28 PM | CS/TC |
| Bromochloromethane | ND | µg/L | NA | 5.0 | | 04/26/05 10:28 PM | CS/TC |
| Bromodichloromethane | ND | µg/L | NA | 1.0 | | 04/26/05 10:28 PM | CS/TC |
| Bromoform | ND | µg/L | NA | 1.0 | | 04/26/05 10:28 PM | CS/TC |
| Bromomethane | ND | µg/L | NA | 5.0 | | 04/26/05 10:28 PM | CS/TC |
| 2-Butanone | ND | µg/L | NA | 50.0 | | 04/26/05 10:28 PM | CS/TC |
| Carbon disulfide | ND | µg/L | NA | 25.0 | | 04/26/05 10:28 PM | CS/TC |
| Carbon tetrachloride | ND | µg/L | NA | 1.0 | | 04/26/05 10:28 PM | CS/TC |
| Chlorobenzene | ND | µg/L | NA | 5.0 | | 04/26/05 10:28 PM | CS/TC |
| Chloroethane | ND | µg/L | NA | 5.0 | | 04/26/05 10:28 PM | CS/TC |
| Chloroform | ND | µg/L | NA | 1.0 | | 04/26/05 10:28 PM | CS/TC |
| Chloromethane | ND | µg/L | NA | 1.0 | | 04/26/05 10:28 PM | CS/TC |
| Dibromochloromethane | ND | µg/L | NA | 5.0 | | 04/26/05 10:28 PM | CS/TC |
| 1,2-Dibromo-3-chloropropane | ND | µg/L | NA | 1.0 | | 04/26/05 10:28 PM | CS/TC |
| 1,2-Dibromoethane | ND | µg/L | NA | 1.0 | | 04/26/05 10:28 PM | CS/TC |
| Dibromomethane | ND | µg/L | NA | 5.0 | | 04/26/05 10:28 PM | CS/TC |
| 1,2-Dichlorobenzene | ND | µg/L | NA | 5.0 | | 04/26/05 10:28 PM | CS/TC |
| 1,4-Dichlorobenzene | ND | µg/L | NA | 5.0 | | 04/26/05 10:28 PM | CS/TC |
| trans-1,4-Dichloro-2-butene | ND | µg/L | NA | 50.0 | | 04/26/05 10:28 PM | CS/TC |

**Key:**

| | |
|---|---|
| MCL | Maximum Contaminant Level |
| MDL | Minimum Detection Limit |
| NA | Not Applicable |
| ND | Not Detected at the PQL or MDL |
| PQL | Practical Quantitation Limit |
| TIC | Tentatively Identified Compounds |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level or Regulatory Level |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| H | Sample extraction/analysis holding time exceeded |
| J | Analyte detected below PQL |
| S | Spike Recovery outside accepted recovery limits |

# REI Consultants Inc.

**Date:** *27-May-05*

| | | | |
|---|---|---|---|
| **CLIENT:** | MACON COUNTY SOLID WASTE MANAG | **Lab Order:** | 0504996 |
| **Client Sample ID:** | MW-22 | **Lab ID:** | 0504996-14A |
| **Project:** | MSW LANDFILL | **Collection Date:** | 4/19/2005 |
| **Site ID:** | MACON CO NC | **Matrix:** | LIQUID |

| Analyses | Result | Units | MDL | PQL | Qual | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260B** | | | | |
| 1,1-Dichloroethane | ND | µg/L | NA | 5.0 | | 04/26/05 10:28 PM | CS/TC |
| 1,2-Dichloroethane | ND | µg/L | NA | 1.0 | | 04/26/05 10:28 PM | CS/TC |
| 1,1-Dichloroethene | ND | µg/L | NA | 5.0 | | 04/26/05 10:28 PM | CS/TC |
| cis-1,2-Dichloroethene | ND | µg/L | NA | 5.0 | | 04/26/05 10:28 PM | CS/TC |
| trans-1,2-Dichloroethene | ND | µg/L | NA | 5.0 | | 04/26/05 10:28 PM | CS/TC |
| 1,2-Dichloropropane | ND | µg/L | NA | 1.0 | | 04/26/05 10:28 PM | CS/TC |
| cis-1,3-Dichloropropene | ND | µg/L | NA | 1.0 | | 04/26/05 10:28 PM | CS/TC |
| trans-1,3-Dichloropropene | ND | µg/L | NA | 1.0 | | 04/26/05 10:28 PM | CS/TC |
| Ethylbenzene | ND | µg/L | NA | 5.0 | | 04/26/05 10:28 PM | CS/TC |
| 2-Hexanone | ND | µg/L | NA | 50.0 | | 04/26/05 10:28 PM | CS/TC |
| Iodomethane | ND | µg/L | NA | 10.0 | | 04/26/05 10:28 PM | CS/TC |
| Methylene chloride | ND | µg/L | NA | 5.0 | | 04/26/05 10:28 PM | CS/TC |
| 4-Methyl-2-pentanone | ND | µg/L | NA | 50.0 | | 04/26/05 10:28 PM | CS/TC |
| Styrene | ND | µg/L | NA | 5.0 | | 04/26/05 10:28 PM | CS/TC |
| 1,1,1,2-Tetrachloroethane | ND | µg/L | NA | 5.0 | | 04/26/05 10:28 PM | CS/TC |
| 1,1,2,2-Tetrachloroethane | ND | µg/L | NA | 5.0 | | 04/26/05 10:28 PM | CS/TC |
| Tetrachloroethene | ND | µg/L | NA | 1.0 | | 04/26/05 10:28 PM | CS/TC |
| Toluene | ND | µg/L | NA | 5.0 | | 04/26/05 10:28 PM | CS/TC |
| 1,1,1-Trichloroethane | ND | µg/L | NA | 5.0 | | 04/26/05 10:28 PM | CS/TC |
| 1,1,2-Trichloroethane | ND | µg/L | NA | 5.0 | | 04/26/05 10:28 PM | CS/TC |
| Trichloroethene | ND | µg/L | NA | 1.0 | | 04/26/05 10:28 PM | CS/TC |
| Trichlorofluoromethane | ND | µg/L | NA | 5.0 | | 04/26/05 10:28 PM | CS/TC |
| 1,2,3-Trichloropropane | ND | µg/L | NA | 1.0 | | 04/26/05 10:28 PM | CS/TC |
| Vinyl acetate | ND | µg/L | NA | 25.0 | | 04/26/05 10:28 PM | CS/TC |
| Vinyl chloride | ND | µg/L | NA | 1.0 | | 04/26/05 10:28 PM | CS/TC |
| o-Xylene | ND | µg/L | NA | 5.0 | | 04/26/05 10:28 PM | CS/TC |
| m,p-Xylene | ND | µg/L | NA | 5.0 | | 04/26/05 10:28 PM | CS/TC |
| Surr: 1,2-Dichloroethane-d4 | 109 | %REC | NA | 80-120 | | 04/26/05 10:28 PM | CS/TC |
| Surr: 4-Bromofluorobenzene | 99 | %REC | NA | 86-115 | | 04/26/05 10:28 PM | CS/TC |
| Surr: Dibromofluoromethane | 109 | %REC | NA | 80-120 | | 04/26/05 10:28 PM | CS/TC |
| Surr: Toluene-d8 | 95 | %REC | NA | 88-110 | | 04/26/05 10:28 PM | CS/TC |

**Key:**

| | |
|---|---|
| MCL | Maximum Contaminant Level |
| MDL | Minimum Detection Limit |
| NA | Not Applicable |
| ND | Not Detected at the PQL or MDL |
| PQL | Practical Quantitation Limit |
| TIC | Tentatively Identified Compounds |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level or Regulatory Level |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| H | Sample extraction/analysis holding time exceeded |
| J | Analyte detected below PQL |
| S | Spike Recovery outside accepted recovery limits |

# REI Consultants Inc.

**Date:** *27-May-05*

| | | | |
|---|---|---|---|
| **CLIENT:** | MACON COUNTY SOLID WASTE MANAG | **Lab Order:** | 0504996 |
| **Client Sample ID:** | MW-22A | **Lab ID:** | 0504996-15A |
| **Project:** | MSW LANDFILL | **Collection Date:** | 4/19/2005 |
| **Site ID:** | MACON CO NC | **Matrix:** | LIQUID |

| Analyses | Result | Units | MDL | PQL | Qual | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|---|
| **TOTAL METALS BY ICP-MS** | | | **SW6020** | | | | |
| Antimony | ND | mg/L | NA | 0.0300 | | 05/10/05 12:08 AM | BP |
| Arsenic | ND | mg/L | NA | 0.0100 | | 05/10/05 12:08 AM | BP |
| Barium | ND | mg/L | NA | 0.500 | | 05/10/05 12:08 AM | BP |
| Beryllium | ND | mg/L | NA | 0.0020 | | 05/10/05 12:08 AM | BP |
| Cadmium | ND | mg/L | NA | 0.0010 | | 05/10/05 12:08 AM | BP |
| Chromium | ND | mg/L | NA | 0.0100 | | 05/10/05 12:08 AM | BP |
| Cobalt | ND | mg/L | NA | 0.0100 | | 05/10/05 12:08 AM | BP |
| Copper | ND | mg/L | NA | 0.200 | | 05/10/05 12:08 AM | BP |
| Lead | ND | mg/L | NA | 0.0100 | | 05/10/05 12:08 AM | BP |
| Nickel | ND | mg/L | NA | 0.0500 | | 05/10/05 12:08 AM | BP |
| Selenium | ND | mg/L | NA | 0.0200 | | 05/10/05 12:08 AM | BP |
| Silver | ND | mg/L | NA | 0.0100 | | 05/10/05 12:08 AM | BP |
| Thallium | ND | mg/L | NA | 0.0100 | | 05/10/05 12:08 AM | BP |
| Vanadium | ND | mg/L | NA | 0.0400 | | 05/10/05 12:08 AM | BP |
| Zinc | ND | mg/L | NA | 0.0500 | | 05/10/05 12:08 AM | BP |
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260B** | | | | |
| Acetone | ND | µg/L | NA | 50.0 | | 04/26/05 11:02 PM | CS/TC |
| Acrylonitrile | ND | µg/L | NA | 25.0 | | 04/26/05 11:02 PM | CS/TC |
| Benzene | ND | µg/L | NA | 1.0 | | 04/26/05 11:02 PM | CS/TC |
| Bromochloromethane | ND | µg/L | NA | 5.0 | | 04/26/05 11:02 PM | CS/TC |
| Bromodichloromethane | ND | µg/L | NA | 1.0 | | 04/26/05 11:02 PM | CS/TC |
| Bromoform | ND | µg/L | NA | 1.0 | | 04/26/05 11:02 PM | CS/TC |
| Bromomethane | ND | µg/L | NA | 5.0 | | 04/26/05 11:02 PM | CS/TC |
| 2-Butanone | ND | µg/L | NA | 50.0 | | 04/26/05 11:02 PM | CS/TC |
| Carbon disulfide | ND | µg/L | NA | 25.0 | | 04/26/05 11:02 PM | CS/TC |
| Carbon tetrachloride | ND | µg/L | NA | 1.0 | | 04/26/05 11:02 PM | CS/TC |
| Chlorobenzene | ND | µg/L | NA | 5.0 | | 04/26/05 11:02 PM | CS/TC |
| Chloroethane | ND | µg/L | NA | 5.0 | | 04/26/05 11:02 PM | CS/TC |
| Chloroform | ND | µg/L | NA | 1.0 | | 04/26/05 11:02 PM | CS/TC |
| Chloromethane | ND | µg/L | NA | 1.0 | | 04/26/05 11:02 PM | CS/TC |
| Dibromochloromethane | ND | µg/L | NA | 5.0 | | 04/26/05 11:02 PM | CS/TC |
| 1,2-Dibromo-3-chloropropane | ND | µg/L | NA | 1.0 | | 04/26/05 11:02 PM | CS/TC |
| 1,2-Dibromoethane | ND | µg/L | NA | 1.0 | | 04/26/05 11:02 PM | CS/TC |
| Dibromomethane | ND | µg/L | NA | 5.0 | | 04/26/05 11:02 PM | CS/TC |
| 1,2-Dichlorobenzene | ND | µg/L | NA | 5.0 | | 04/26/05 11:02 PM | CS/TC |
| 1,4-Dichlorobenzene | ND | µg/L | NA | 5.0 | | 04/26/05 11:02 PM | CS/TC |
| trans-1,4-Dichloro-2-butene | ND | µg/L | NA | 50.0 | | 04/26/05 11:02 PM | CS/TC |

**Key:**

| | |
|---|---|
| MCL | Maximum Contaminant Level |
| MDL | Minimum Detection Limit |
| NA | Not Applicable |
| ND | Not Detected at the PQL or MDL |
| PQL | Practical Quantitation Limit |
| TIC | Tentatively Identified Compounds |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level or Regulatory Level |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| H | Sample extraction/analysis holding time exceeded |
| J | Analyte detected below PQL |
| S | Spike Recovery outside accepted recovery limits |

# REI Consultants Inc.

**Date:** *27-May-05*

| | | | |
|---|---|---|---|
| **CLIENT:** | MACON COUNTY SOLID WASTE MANAG | **Lab Order:** | 0504996 |
| **Client Sample ID:** | MW-22A | **Lab ID:** | 0504996-15A |
| **Project:** | MSW LANDFILL | **Collection Date:** | 4/19/2005 |
| **Site ID:** | MACON CO NC | **Matrix:** | LIQUID |

| Analyses | Result | Units | MDL | PQL | Qual | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260B** | | | | |
| 1,1-Dichloroethane | ND | µg/L | NA | 5.0 | | 04/26/05 11:02 PM | CS/TC |
| 1,2-Dichloroethane | ND | µg/L | NA | 1.0 | | 04/26/05 11:02 PM | CS/TC |
| 1,1-Dichloroethene | ND | µg/L | NA | 5.0 | | 04/26/05 11:02 PM | CS/TC |
| cis-1,2-Dichloroethene | ND | µg/L | NA | 5.0 | | 04/26/05 11:02 PM | CS/TC |
| trans-1,2-Dichloroethene | ND | µg/L | NA | 5.0 | | 04/26/05 11:02 PM | CS/TC |
| 1,2-Dichloropropane | ND | µg/L | NA | 1.0 | | 04/26/05 11:02 PM | CS/TC |
| cis-1,3-Dichloropropene | ND | µg/L | NA | 1.0 | | 04/26/05 11:02 PM | CS/TC |
| trans-1,3-Dichloropropene | ND | µg/L | NA | 1.0 | | 04/26/05 11:02 PM | CS/TC |
| Ethylbenzene | ND | µg/L | NA | 5.0 | | 04/26/05 11:02 PM | CS/TC |
| 2-Hexanone | ND | µg/L | NA | 50.0 | | 04/26/05 11:02 PM | CS/TC |
| Iodomethane | ND | µg/L | NA | 10.0 | | 04/26/05 11:02 PM | CS/TC |
| Methylene chloride | ND | µg/L | NA | 5.0 | | 04/26/05 11:02 PM | CS/TC |
| 4-Methyl-2-pentanone | ND | µg/L | NA | 50.0 | | 04/26/05 11:02 PM | CS/TC |
| Styrene | ND | µg/L | NA | 5.0 | | 04/26/05 11:02 PM | CS/TC |
| 1,1,1,2-Tetrachloroethane | ND | µg/L | NA | 5.0 | | 04/26/05 11:02 PM | CS/TC |
| 1,1,2,2-Tetrachloroethane | ND | µg/L | NA | 5.0 | | 04/26/05 11:02 PM | CS/TC |
| Tetrachloroethene | ND | µg/L | NA | 1.0 | | 04/26/05 11:02 PM | CS/TC |
| Toluene | ND | µg/L | NA | 5.0 | | 04/26/05 11:02 PM | CS/TC |
| 1,1,1-Trichloroethane | ND | µg/L | NA | 5.0 | | 04/26/05 11:02 PM | CS/TC |
| 1,1,2-Trichloroethane | ND | µg/L | NA | 5.0 | | 04/26/05 11:02 PM | CS/TC |
| Trichloroethene | ND | µg/L | NA | 1.0 | | 04/26/05 11:02 PM | CS/TC |
| Trichlorofluoromethane | ND | µg/L | NA | 5.0 | | 04/26/05 11:02 PM | CS/TC |
| 1,2,3-Trichloropropane | ND | µg/L | NA | 1.0 | | 04/26/05 11:02 PM | CS/TC |
| Vinyl acetate | ND | µg/L | NA | 25.0 | | 04/26/05 11:02 PM | CS/TC |
| Vinyl chloride | ND | µg/L | NA | 1.0 | | 04/26/05 11:02 PM | CS/TC |
| o-Xylene | ND | µg/L | NA | 5.0 | | 04/26/05 11:02 PM | CS/TC |
| m,p-Xylene | ND | µg/L | NA | 5.0 | | 04/26/05 11:02 PM | CS/TC |
| Surr: 1,2-Dichloroethane-d4 | 106 | %REC | NA | 80-120 | | 04/26/05 11:02 PM | CS/TC |
| Surr: 4-Bromofluorobenzene | 96 | %REC | NA | 86-115 | | 04/26/05 11:02 PM | CS/TC |
| Surr: Dibromofluoromethane | 108 | %REC | NA | 80-120 | | 04/26/05 11:02 PM | CS/TC |
| Surr: Toluene-d8 | 97 | %REC | NA | 88-110 | | 04/26/05 11:02 PM | CS/TC |

**Key:**

| | |
|---|---|
| MCL | Maximum Contaminant Level |
| MDL | Minimum Detection Limit |
| NA | Not Applicable |
| ND | Not Detected at the PQL or MDL |
| PQL | Practical Quantitation Limit |
| TIC | Tentatively Identified Compounds |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level or Regulatory Level |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| H | Sample extraction/analysis holding time exceeded |
| J | Analyte detected below PQL |
| S | Spike Recovery outside accepted recovery limits |

# REI Consultants Inc.

**Date:** *27-May-05*

| | | | |
|---|---|---|---|
| **CLIENT:** | MACON COUNTY SOLID WASTE MANAG | **Lab Order:** | 0504996 |
| **Client Sample ID:** | SW-1 | **Lab ID:** | 0504996-16A |
| **Project:** | MSW LANDFILL | **Collection Date:** | 4/20/2005 |
| **Site ID:** | MACON CO NC | **Matrix:** | LIQUID |

| Analyses | Result | Units | MDL | PQL | Qual | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|---|
| **TOTAL METALS BY ICP-MS** | | | **SW6020** | | | | |
| Antimony | ND | mg/L | NA | 0.0300 | | 05/10/05 12:14 AM | BP |
| Arsenic | ND | mg/L | NA | 0.0100 | | 05/10/05 12:14 AM | BP |
| Barium | ND | mg/L | NA | 0.500 | | 05/10/05 12:14 AM | BP |
| Beryllium | ND | mg/L | NA | 0.0020 | | 05/10/05 12:14 AM | BP |
| Cadmium | ND | mg/L | NA | 0.0010 | | 05/10/05 12:14 AM | BP |
| Chromium | ND | mg/L | NA | 0.0100 | | 05/10/05 12:14 AM | BP |
| Cobalt | ND | mg/L | NA | 0.0100 | | 05/10/05 12:14 AM | BP |
| Copper | ND | mg/L | NA | 0.200 | | 05/10/05 12:14 AM | BP |
| Lead | ND | mg/L | NA | 0.0100 | | 05/10/05 12:14 AM | BP |
| Nickel | ND | mg/L | NA | 0.0500 | | 05/10/05 12:14 AM | BP |
| Selenium | ND | mg/L | NA | 0.0200 | | 05/10/05 12:14 AM | BP |
| Silver | ND | mg/L | NA | 0.0100 | | 05/10/05 12:14 AM | BP |
| Thallium | ND | mg/L | NA | 0.0100 | | 05/10/05 12:14 AM | BP |
| Vanadium | ND | mg/L | NA | 0.0400 | | 05/10/05 12:14 AM | BP |
| Zinc | ND | mg/L | NA | 0.0500 | | 05/10/05 12:14 AM | BP |
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260B** | | | | |
| Acetone | ND | µg/L | NA | 50.0 | | 04/26/05 11:37 PM | CS/TC |
| Acrylonitrile | ND | µg/L | NA | 25.0 | | 04/26/05 11:37 PM | CS/TC |
| Benzene | ND | µg/L | NA | 1.0 | | 04/26/05 11:37 PM | CS/TC |
| Bromochloromethane | ND | µg/L | NA | 5.0 | | 04/26/05 11:37 PM | CS/TC |
| Bromodichloromethane | ND | µg/L | NA | 1.0 | | 04/26/05 11:37 PM | CS/TC |
| Bromoform | ND | µg/L | NA | 1.0 | | 04/26/05 11:37 PM | CS/TC |
| Bromomethane | ND | µg/L | NA | 5.0 | | 04/26/05 11:37 PM | CS/TC |
| 2-Butanone | ND | µg/L | NA | 50.0 | | 04/26/05 11:37 PM | CS/TC |
| Carbon disulfide | ND | µg/L | NA | 25.0 | | 04/26/05 11:37 PM | CS/TC |
| Carbon tetrachloride | ND | µg/L | NA | 1.0 | | 04/26/05 11:37 PM | CS/TC |
| Chlorobenzene | ND | µg/L | NA | 5.0 | | 04/26/05 11:37 PM | CS/TC |
| Chloroethane | ND | µg/L | NA | 5.0 | | 04/26/05 11:37 PM | CS/TC |
| Chloroform | ND | µg/L | NA | 1.0 | | 04/26/05 11:37 PM | CS/TC |
| Chloromethane | ND | µg/L | NA | 1.0 | | 04/26/05 11:37 PM | CS/TC |
| Dibromochloromethane | ND | µg/L | NA | 5.0 | | 04/26/05 11:37 PM | CS/TC |
| 1,2-Dibromo-3-chloropropane | ND | µg/L | NA | 1.0 | | 04/26/05 11:37 PM | CS/TC |
| 1,2-Dibromoethane | ND | µg/L | NA | 1.0 | | 04/26/05 11:37 PM | CS/TC |
| Dibromomethane | ND | µg/L | NA | 5.0 | | 04/26/05 11:37 PM | CS/TC |
| 1,2-Dichlorobenzene | ND | µg/L | NA | 5.0 | | 04/26/05 11:37 PM | CS/TC |
| 1,4-Dichlorobenzene | ND | µg/L | NA | 5.0 | | 04/26/05 11:37 PM | CS/TC |
| trans-1,4-Dichloro-2-butene | ND | µg/L | NA | 50.0 | | 04/26/05 11:37 PM | CS/TC |

**Key:**

| | |
|---|---|
| MCL | Maximum Contaminant Level |
| MDL | Minimum Detection Limit |
| NA | Not Applicable |
| ND | Not Detected at the PQL or MDL |
| PQL | Practical Quantitation Limit |
| TIC | Tentatively Identified Compounds |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level or Regulatory Level |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| H | Sample extraction/analysis holding time exceeded |
| J | Analyte detected below PQL |
| S | Spike Recovery outside accepted recovery limits |

# REI Consultants Inc.

**Date:** *27-May-05*

| | | | |
|---|---|---|---|
| **CLIENT:** | MACON COUNTY SOLID WASTE MANAG | **Lab Order:** | 0504996 |
| **Client Sample ID:** | SW-1 | **Lab ID:** | 0504996-16A |
| **Project:** | MSW LANDFILL | **Collection Date:** | 4/20/2005 |
| **Site ID:** | MACON CO NC | **Matrix:** | LIQUID |

| Analyses | Result | Units | MDL | PQL | Qual | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260B** | | | | |
| 1,1-Dichloroethane | ND | µg/L | NA | 5.0 | | 04/26/05 11:37 PM | CS/TC |
| 1,2-Dichloroethane | ND | µg/L | NA | 1.0 | | 04/26/05 11:37 PM | CS/TC |
| 1,1-Dichloroethene | ND | µg/L | NA | 5.0 | | 04/26/05 11:37 PM | CS/TC |
| cis-1,2-Dichloroethene | ND | µg/L | NA | 5.0 | | 04/26/05 11:37 PM | CS/TC |
| trans-1,2-Dichloroethene | ND | µg/L | NA | 5.0 | | 04/26/05 11:37 PM | CS/TC |
| 1,2-Dichloropropane | ND | µg/L | NA | 1.0 | | 04/26/05 11:37 PM | CS/TC |
| cis-1,3-Dichloropropene | ND | µg/L | NA | 1.0 | | 04/26/05 11:37 PM | CS/TC |
| trans-1,3-Dichloropropene | ND | µg/L | NA | 1.0 | | 04/26/05 11:37 PM | CS/TC |
| Ethylbenzene | ND | µg/L | NA | 5.0 | | 04/26/05 11:37 PM | CS/TC |
| 2-Hexanone | ND | µg/L | NA | 50.0 | | 04/26/05 11:37 PM | CS/TC |
| Iodomethane | ND | µg/L | NA | 10.0 | | 04/26/05 11:37 PM | CS/TC |
| Methylene chloride | ND | µg/L | NA | 5.0 | | 04/26/05 11:37 PM | CS/TC |
| 4-Methyl-2-pentanone | ND | µg/L | NA | 50.0 | | 04/26/05 11:37 PM | CS/TC |
| Styrene | ND | µg/L | NA | 5.0 | | 04/26/05 11:37 PM | CS/TC |
| 1,1,1,2-Tetrachloroethane | ND | µg/L | NA | 5.0 | | 04/26/05 11:37 PM | CS/TC |
| 1,1,2,2-Tetrachloroethane | ND | µg/L | NA | 5.0 | | 04/26/05 11:37 PM | CS/TC |
| Tetrachloroethene | ND | µg/L | NA | 1.0 | | 04/26/05 11:37 PM | CS/TC |
| Toluene | ND | µg/L | NA | 5.0 | | 04/26/05 11:37 PM | CS/TC |
| 1,1,1-Trichloroethane | ND | µg/L | NA | 5.0 | | 04/26/05 11:37 PM | CS/TC |
| 1,1,2-Trichloroethane | ND | µg/L | NA | 5.0 | | 04/26/05 11:37 PM | CS/TC |
| Trichloroethene | ND | µg/L | NA | 1.0 | | 04/26/05 11:37 PM | CS/TC |
| Trichlorofluoromethane | ND | µg/L | NA | 5.0 | | 04/26/05 11:37 PM | CS/TC |
| 1,2,3-Trichloropropane | ND | µg/L | NA | 1.0 | | 04/26/05 11:37 PM | CS/TC |
| Vinyl acetate | ND | µg/L | NA | 25.0 | | 04/26/05 11:37 PM | CS/TC |
| Vinyl chloride | ND | µg/L | NA | 1.0 | | 04/26/05 11:37 PM | CS/TC |
| o-Xylene | ND | µg/L | NA | 5.0 | | 04/26/05 11:37 PM | CS/TC |
| m,p-Xylene | ND | µg/L | NA | 5.0 | | 04/26/05 11:37 PM | CS/TC |
| Surr: 1,2-Dichloroethane-d4 | 108 | %REC | NA | 80-120 | | 04/26/05 11:37 PM | CS/TC |
| Surr: 4-Bromofluorobenzene | 100 | %REC | NA | 86-115 | | 04/26/05 11:37 PM | CS/TC |
| Surr: Dibromofluoromethane | 111 | %REC | NA | 80-120 | | 04/26/05 11:37 PM | CS/TC |
| Surr: Toluene-d8 | 95 | %REC | NA | 88-110 | | 04/26/05 11:37 PM | CS/TC |

**Key:**

| | |
|---|---|
| MCL | Maximum Contaminant Level |
| MDL | Minimum Detection Limit |
| NA | Not Applicable |
| ND | Not Detected at the PQL or MDL |
| PQL | Practical Quantitation Limit |
| TIC | Tentatively Identified Compounds |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level or Regulatory Level |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| H | Sample extraction/analysis holding time exceeded |
| J | Analyte detected below PQL |
| S | Spike Recovery outside accepted recovery limits |

# REI Consultants Inc.

**Date:** *27-May-05*

| | | | |
|---|---|---|---|
| **CLIENT:** | MACON COUNTY SOLID WASTE MANAG | **Lab Order:** | 0504996 |
| **Client Sample ID:** | SW-2 | **Lab ID:** | 0504996-17A |
| **Project:** | MSW LANDFILL | **Collection Date:** | 4/20/2005 |
| **Site ID:** | MACON CO NC | **Matrix:** | LIQUID |

| Analyses | Result | Units | MDL | PQL | Qual | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|---|
| **TOTAL METALS BY ICP-MS** | | | **SW6020** | | | | |
| Antimony | ND | mg/L | NA | 0.0300 | | 05/10/05 12:20 AM | BP |
| Arsenic | ND | mg/L | NA | 0.0100 | | 05/10/05 12:20 AM | BP |
| Barium | ND | mg/L | NA | 0.500 | | 05/10/05 12:20 AM | BP |
| Beryllium | ND | mg/L | NA | 0.0020 | | 05/10/05 12:20 AM | BP |
| Cadmium | ND | mg/L | NA | 0.0010 | | 05/10/05 12:20 AM | BP |
| Chromium | ND | mg/L | NA | 0.0100 | | 05/10/05 12:20 AM | BP |
| Cobalt | ND | mg/L | NA | 0.0100 | | 05/10/05 12:20 AM | BP |
| Copper | ND | mg/L | NA | 0.200 | | 05/10/05 12:20 AM | BP |
| Lead | ND | mg/L | NA | 0.0100 | | 05/10/05 12:20 AM | BP |
| Nickel | ND | mg/L | NA | 0.0500 | | 05/10/05 12:20 AM | BP |
| Selenium | ND | mg/L | NA | 0.0200 | | 05/10/05 12:20 AM | BP |
| Silver | ND | mg/L | NA | 0.0100 | | 05/10/05 12:20 AM | BP |
| Thallium | ND | mg/L | NA | 0.0100 | | 05/10/05 12:20 AM | BP |
| Vanadium | ND | mg/L | NA | 0.0400 | | 05/10/05 12:20 AM | BP |
| Zinc | ND | mg/L | NA | 0.0500 | | 05/10/05 12:20 AM | BP |
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260B** | | | | |
| Acetone | ND | µg/L | NA | 50.0 | | 04/27/05 12:12 AM | CS/TC |
| Acrylonitrile | ND | µg/L | NA | 25.0 | | 04/27/05 12:12 AM | CS/TC |
| Benzene | ND | µg/L | NA | 1.0 | | 04/27/05 12:12 AM | CS/TC |
| Bromochloromethane | ND | µg/L | NA | 5.0 | | 04/27/05 12:12 AM | CS/TC |
| Bromodichloromethane | ND | µg/L | NA | 1.0 | | 04/27/05 12:12 AM | CS/TC |
| Bromoform | ND | µg/L | NA | 1.0 | | 04/27/05 12:12 AM | CS/TC |
| Bromomethane | ND | µg/L | NA | 5.0 | | 04/27/05 12:12 AM | CS/TC |
| 2-Butanone | ND | µg/L | NA | 50.0 | | 04/27/05 12:12 AM | CS/TC |
| Carbon disulfide | ND | µg/L | NA | 25.0 | | 04/27/05 12:12 AM | CS/TC |
| Carbon tetrachloride | ND | µg/L | NA | 1.0 | | 04/27/05 12:12 AM | CS/TC |
| Chlorobenzene | ND | µg/L | NA | 5.0 | | 04/27/05 12:12 AM | CS/TC |
| Chloroethane | ND | µg/L | NA | 5.0 | | 04/27/05 12:12 AM | CS/TC |
| Chloroform | ND | µg/L | NA | 1.0 | | 04/27/05 12:12 AM | CS/TC |
| Chloromethane | ND | µg/L | NA | 1.0 | | 04/27/05 12:12 AM | CS/TC |
| Dibromochloromethane | ND | µg/L | NA | 5.0 | | 04/27/05 12:12 AM | CS/TC |
| 1,2-Dibromo-3-chloropropane | ND | µg/L | NA | 1.0 | | 04/27/05 12:12 AM | CS/TC |
| 1,2-Dibromoethane | ND | µg/L | NA | 1.0 | | 04/27/05 12:12 AM | CS/TC |
| Dibromomethane | ND | µg/L | NA | 5.0 | | 04/27/05 12:12 AM | CS/TC |
| 1,2-Dichlorobenzene | ND | µg/L | NA | 5.0 | | 04/27/05 12:12 AM | CS/TC |
| 1,4-Dichlorobenzene | ND | µg/L | NA | 5.0 | | 04/27/05 12:12 AM | CS/TC |
| trans-1,4-Dichloro-2-butene | ND | µg/L | NA | 50.0 | | 04/27/05 12:12 AM | CS/TC |

**Key:**

| | |
|---|---|
| MCL | Maximum Contaminant Level |
| MDL | Minimum Detection Limit |
| NA | Not Applicable |
| ND | Not Detected at the PQL or MDL |
| PQL | Practical Quantitation Limit |
| TIC | Tentatively Identified Compounds |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level or Regulatory Level |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| H | Sample extraction/analysis holding time exceeded |
| J | Analyte detected below PQL |
| S | Spike Recovery outside accepted recovery limits |

# REI Consultants Inc.

**Date:** *27-May-05*

| | | | |
|---|---|---|---|
| **CLIENT:** | MACON COUNTY SOLID WASTE MANAG | **Lab Order:** | 0504996 |
| **Client Sample ID:** | SW-2 | **Lab ID:** | 0504996-17A |
| **Project:** | MSW LANDFILL | **Collection Date:** | 4/20/2005 |
| **Site ID:** | MACON CO NC | **Matrix:** | LIQUID |

| Analyses | Result | Units | MDL | PQL | Qual | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260B** | | | | |
| 1,1-Dichloroethane | ND | µg/L | NA | 5.0 | | 04/27/05 12:12 AM | CS/TC |
| 1,2-Dichloroethane | ND | µg/L | NA | 1.0 | | 04/27/05 12:12 AM | CS/TC |
| 1,1-Dichloroethene | ND | µg/L | NA | 5.0 | | 04/27/05 12:12 AM | CS/TC |
| cis-1,2-Dichloroethene | ND | µg/L | NA | 5.0 | | 04/27/05 12:12 AM | CS/TC |
| trans-1,2-Dichloroethene | ND | µg/L | NA | 5.0 | | 04/27/05 12:12 AM | CS/TC |
| 1,2-Dichloropropane | ND | µg/L | NA | 1.0 | | 04/27/05 12:12 AM | CS/TC |
| cis-1,3-Dichloropropene | ND | µg/L | NA | 1.0 | | 04/27/05 12:12 AM | CS/TC |
| trans-1,3-Dichloropropene | ND | µg/L | NA | 1.0 | | 04/27/05 12:12 AM | CS/TC |
| Ethylbenzene | ND | µg/L | NA | 5.0 | | 04/27/05 12:12 AM | CS/TC |
| 2-Hexanone | ND | µg/L | NA | 50.0 | | 04/27/05 12:12 AM | CS/TC |
| Iodomethane | ND | µg/L | NA | 10.0 | | 04/27/05 12:12 AM | CS/TC |
| Methylene chloride | ND | µg/L | NA | 5.0 | | 04/27/05 12:12 AM | CS/TC |
| 4-Methyl-2-pentanone | ND | µg/L | NA | 50.0 | | 04/27/05 12:12 AM | CS/TC |
| Styrene | ND | µg/L | NA | 5.0 | | 04/27/05 12:12 AM | CS/TC |
| 1,1,1,2-Tetrachloroethane | ND | µg/L | NA | 5.0 | | 04/27/05 12:12 AM | CS/TC |
| 1,1,2,2-Tetrachloroethane | ND | µg/L | NA | 5.0 | | 04/27/05 12:12 AM | CS/TC |
| Tetrachloroethene | ND | µg/L | NA | 1.0 | | 04/27/05 12:12 AM | CS/TC |
| Toluene | ND | µg/L | NA | 5.0 | | 04/27/05 12:12 AM | CS/TC |
| 1,1,1-Trichloroethane | ND | µg/L | NA | 5.0 | | 04/27/05 12:12 AM | CS/TC |
| 1,1,2-Trichloroethane | ND | µg/L | NA | 5.0 | | 04/27/05 12:12 AM | CS/TC |
| Trichloroethene | ND | µg/L | NA | 1.0 | | 04/27/05 12:12 AM | CS/TC |
| Trichlorofluoromethane | ND | µg/L | NA | 5.0 | | 04/27/05 12:12 AM | CS/TC |
| 1,2,3-Trichloropropane | ND | µg/L | NA | 1.0 | | 04/27/05 12:12 AM | CS/TC |
| Vinyl acetate | ND | µg/L | NA | 25.0 | | 04/27/05 12:12 AM | CS/TC |
| Vinyl chloride | ND | µg/L | NA | 1.0 | | 04/27/05 12:12 AM | CS/TC |
| o-Xylene | ND | µg/L | NA | 5.0 | | 04/27/05 12:12 AM | CS/TC |
| m,p-Xylene | ND | µg/L | NA | 5.0 | | 04/27/05 12:12 AM | CS/TC |
| Surr: 1,2-Dichloroethane-d4 | 108 | %REC | NA | 80-120 | | 04/27/05 12:12 AM | CS/TC |
| Surr: 4-Bromofluorobenzene | 100 | %REC | NA | 86-115 | | 04/27/05 12:12 AM | CS/TC |
| Surr: Dibromofluoromethane | 112 | %REC | NA | 80-120 | | 04/27/05 12:12 AM | CS/TC |
| Surr: Toluene-d8 | 96 | %REC | NA | 88-110 | | 04/27/05 12:12 AM | CS/TC |

**Key:**

| | |
|---|---|
| MCL | Maximum Contaminant Level |
| MDL | Minimum Detection Limit |
| NA | Not Applicable |
| ND | Not Detected at the PQL or MDL |
| PQL | Practical Quantitation Limit |
| TIC | Tentatively Identified Compounds |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level or Regulatory Level |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| H | Sample extraction/analysis holding time exceeded |
| J | Analyte detected below PQL |
| S | Spike Recovery outside accepted recovery limits |

# REI Consultants Inc.

**Date:** *27-May-05*

| | | | |
|---|---|---|---|
| **CLIENT:** | MACON COUNTY SOLID WASTE MANAG | **Lab Order:** | 0504996 |
| **Client Sample ID:** | SW-3 | **Lab ID:** | 0504996-18A |
| **Project:** | MSW LANDFILL | **Collection Date:** | 4/19/2005 |
| **Site ID:** | MACON CO NC | **Matrix:** | LIQUID |

| Analyses | Result | Units | MDL | PQL | Qual | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|---|
| **TOTAL METALS BY ICP-MS** | | | **SW6020** | | | | |
| Antimony | ND | mg/L | NA | 0.0300 | | 05/10/05 12:25 AM | BP |
| Arsenic | ND | mg/L | NA | 0.0100 | | 05/10/05 12:25 AM | BP |
| Barium | ND | mg/L | NA | 0.500 | | 05/10/05 12:25 AM | BP |
| Beryllium | ND | mg/L | NA | 0.0020 | | 05/10/05 12:25 AM | BP |
| Cadmium | ND | mg/L | NA | 0.0010 | | 05/10/05 12:25 AM | BP |
| Chromium | ND | mg/L | NA | 0.0100 | | 05/10/05 12:25 AM | BP |
| Cobalt | ND | mg/L | NA | 0.0100 | | 05/10/05 12:25 AM | BP |
| Copper | ND | mg/L | NA | 0.200 | | 05/10/05 12:25 AM | BP |
| Lead | ND | mg/L | NA | 0.0100 | | 05/10/05 12:25 AM | BP |
| Nickel | ND | mg/L | NA | 0.0500 | | 05/10/05 12:25 AM | BP |
| Selenium | ND | mg/L | NA | 0.0200 | | 05/10/05 12:25 AM | BP |
| Silver | ND | mg/L | NA | 0.0100 | | 05/10/05 12:25 AM | BP |
| Thallium | ND | mg/L | NA | 0.0100 | | 05/10/05 12:25 AM | BP |
| Vanadium | ND | mg/L | NA | 0.0400 | | 05/10/05 12:25 AM | BP |
| Zinc | ND | mg/L | NA | 0.0500 | | 05/10/05 12:25 AM | BP |
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260B** | | | | |
| Acetone | ND | µg/L | NA | 50.0 | | 04/27/05 12:47 AM | CS/TC |
| Acrylonitrile | ND | µg/L | NA | 25.0 | | 04/27/05 12:47 AM | CS/TC |
| Benzene | ND | µg/L | NA | 1.0 | | 04/27/05 12:47 AM | CS/TC |
| Bromochloromethane | ND | µg/L | NA | 5.0 | | 04/27/05 12:47 AM | CS/TC |
| Bromodichloromethane | ND | µg/L | NA | 1.0 | | 04/27/05 12:47 AM | CS/TC |
| Bromoform | ND | µg/L | NA | 1.0 | | 04/27/05 12:47 AM | CS/TC |
| Bromomethane | ND | µg/L | NA | 5.0 | | 04/27/05 12:47 AM | CS/TC |
| 2-Butanone | ND | µg/L | NA | 50.0 | | 04/27/05 12:47 AM | CS/TC |
| Carbon disulfide | ND | µg/L | NA | 25.0 | | 04/27/05 12:47 AM | CS/TC |
| Carbon tetrachloride | ND | µg/L | NA | 1.0 | | 04/27/05 12:47 AM | CS/TC |
| Chlorobenzene | ND | µg/L | NA | 5.0 | | 04/27/05 12:47 AM | CS/TC |
| Chloroethane | ND | µg/L | NA | 5.0 | | 04/27/05 12:47 AM | CS/TC |
| Chloroform | ND | µg/L | NA | 1.0 | | 04/27/05 12:47 AM | CS/TC |
| Chloromethane | ND | µg/L | NA | 1.0 | | 04/27/05 12:47 AM | CS/TC |
| Dibromochloromethane | ND | µg/L | NA | 5.0 | | 04/27/05 12:47 AM | CS/TC |
| 1,2-Dibromo-3-chloropropane | ND | µg/L | NA | 1.0 | | 04/27/05 12:47 AM | CS/TC |
| 1,2-Dibromoethane | ND | µg/L | NA | 1.0 | | 04/27/05 12:47 AM | CS/TC |
| Dibromomethane | ND | µg/L | NA | 5.0 | | 04/27/05 12:47 AM | CS/TC |
| 1,2-Dichlorobenzene | ND | µg/L | NA | 5.0 | | 04/27/05 12:47 AM | CS/TC |
| 1,4-Dichlorobenzene | ND | µg/L | NA | 5.0 | | 04/27/05 12:47 AM | CS/TC |
| trans-1,4-Dichloro-2-butene | ND | µg/L | NA | 50.0 | | 04/27/05 12:47 AM | CS/TC |

**Key:**

| | |
|---|---|
| MCL | Maximum Contaminant Level |
| MDL | Minimum Detection Limit |
| NA | Not Applicable |
| ND | Not Detected at the PQL or MDL |
| PQL | Practical Quantitation Limit |
| TIC | Tentatively Identified Compounds |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level or Regulatory Level |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| H | Sample extraction/analysis holding time exceeded |
| J | Analyte detected below PQL |
| S | Spike Recovery outside accepted recovery limits |

# REI Consultants Inc.

**Date:** *27-May-05*

| | | | |
|---|---|---|---|
| **CLIENT:** | MACON COUNTY SOLID WASTE MANAG | **Lab Order:** | 0504996 |
| **Client Sample ID:** | SW-3 | **Lab ID:** | 0504996-18A |
| **Project:** | MSW LANDFILL | **Collection Date:** | 4/19/2005 |
| **Site ID:** | MACON CO NC | **Matrix:** | LIQUID |

| Analyses | Result | Units | MDL | PQL | Qual | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260B** | | | | |
| 1,1-Dichloroethane | ND | µg/L | NA | 5.0 | | 04/27/05 12:47 AM | CS/TC |
| 1,2-Dichloroethane | ND | µg/L | NA | 1.0 | | 04/27/05 12:47 AM | CS/TC |
| 1,1-Dichloroethene | ND | µg/L | NA | 5.0 | | 04/27/05 12:47 AM | CS/TC |
| cis-1,2-Dichloroethene | ND | µg/L | NA | 5.0 | | 04/27/05 12:47 AM | CS/TC |
| trans-1,2-Dichloroethene | ND | µg/L | NA | 5.0 | | 04/27/05 12:47 AM | CS/TC |
| 1,2-Dichloropropane | ND | µg/L | NA | 1.0 | | 04/27/05 12:47 AM | CS/TC |
| cis-1,3-Dichloropropene | ND | µg/L | NA | 1.0 | | 04/27/05 12:47 AM | CS/TC |
| trans-1,3-Dichloropropene | ND | µg/L | NA | 1.0 | | 04/27/05 12:47 AM | CS/TC |
| Ethylbenzene | ND | µg/L | NA | 5.0 | | 04/27/05 12:47 AM | CS/TC |
| 2-Hexanone | ND | µg/L | NA | 50.0 | | 04/27/05 12:47 AM | CS/TC |
| Iodomethane | ND | µg/L | NA | 10.0 | | 04/27/05 12:47 AM | CS/TC |
| Methylene chloride | ND | µg/L | NA | 5.0 | | 04/27/05 12:47 AM | CS/TC |
| 4-Methyl-2-pentanone | ND | µg/L | NA | 50.0 | | 04/27/05 12:47 AM | CS/TC |
| Styrene | ND | µg/L | NA | 5.0 | | 04/27/05 12:47 AM | CS/TC |
| 1,1,1,2-Tetrachloroethane | ND | µg/L | NA | 5.0 | | 04/27/05 12:47 AM | CS/TC |
| 1,1,2,2-Tetrachloroethane | ND | µg/L | NA | 5.0 | | 04/27/05 12:47 AM | CS/TC |
| Tetrachloroethene | ND | µg/L | NA | 1.0 | | 04/27/05 12:47 AM | CS/TC |
| Toluene | ND | µg/L | NA | 5.0 | | 04/27/05 12:47 AM | CS/TC |
| 1,1,1-Trichloroethane | ND | µg/L | NA | 5.0 | | 04/27/05 12:47 AM | CS/TC |
| 1,1,2-Trichloroethane | ND | µg/L | NA | 5.0 | | 04/27/05 12:47 AM | CS/TC |
| Trichloroethene | ND | µg/L | NA | 1.0 | | 04/27/05 12:47 AM | CS/TC |
| Trichlorofluoromethane | ND | µg/L | NA | 5.0 | | 04/27/05 12:47 AM | CS/TC |
| 1,2,3-Trichloropropane | ND | µg/L | NA | 1.0 | | 04/27/05 12:47 AM | CS/TC |
| Vinyl acetate | ND | µg/L | NA | 25.0 | | 04/27/05 12:47 AM | CS/TC |
| Vinyl chloride | ND | µg/L | NA | 1.0 | | 04/27/05 12:47 AM | CS/TC |
| o-Xylene | ND | µg/L | NA | 5.0 | | 04/27/05 12:47 AM | CS/TC |
| m,p-Xylene | ND | µg/L | NA | 5.0 | | 04/27/05 12:47 AM | CS/TC |
| Surr: 1,2-Dichloroethane-d4 | 106 | %REC | NA | 80-120 | | 04/27/05 12:47 AM | CS/TC |
| Surr: 4-Bromofluorobenzene | 96 | %REC | NA | 86-115 | | 04/27/05 12:47 AM | CS/TC |
| Surr: Dibromofluoromethane | 106 | %REC | NA | 80-120 | | 04/27/05 12:47 AM | CS/TC |
| Surr: Toluene-d8 | 96 | %REC | NA | 88-110 | | 04/27/05 12:47 AM | CS/TC |

**Key:**

| | |
|---|---|
| MCL | Maximum Contaminant Level |
| MDL | Minimum Detection Limit |
| NA | Not Applicable |
| ND | Not Detected at the PQL or MDL |
| PQL | Practical Quantitation Limit |
| TIC | Tentatively Identified Compounds |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level or Regulatory Level |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| H | Sample extraction/analysis holding time exceeded |
| J | Analyte detected below PQL |
| S | Spike Recovery outside accepted recovery limits |

# REI Consultants Inc.

**Date:** *27-May-05*

| | | | |
|---|---|---|---|
| **CLIENT:** | MACON COUNTY SOLID WASTE MANAG | **Lab Order:** | 0504996 |
| **Client Sample ID:** | SW-4 | **Lab ID:** | 0504996-19A |
| **Project:** | MSW LANDFILL | **Collection Date:** | 4/19/2005 |
| **Site ID:** | MACON CO NC | **Matrix:** | LIQUID |

| Analyses | Result | Units | MDL | PQL | Qual | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|---|
| **TOTAL METALS BY ICP-MS** | | | **SW6020** | | | | |
| Antimony | ND | mg/L | NA | 0.0300 | | 05/10/05 12:31 AM | BP |
| Arsenic | ND | mg/L | NA | 0.0100 | | 05/10/05 12:31 AM | BP |
| Barium | ND | mg/L | NA | 0.500 | | 05/10/05 12:31 AM | BP |
| Beryllium | ND | mg/L | NA | 0.0020 | | 05/10/05 12:31 AM | BP |
| Cadmium | ND | mg/L | NA | 0.0010 | | 05/10/05 12:31 AM | BP |
| Chromium | ND | mg/L | NA | 0.0100 | | 05/10/05 12:31 AM | BP |
| Cobalt | ND | mg/L | NA | 0.0100 | | 05/10/05 12:31 AM | BP |
| Copper | ND | mg/L | NA | 0.200 | | 05/10/05 12:31 AM | BP |
| Lead | ND | mg/L | NA | 0.0100 | | 05/10/05 12:31 AM | BP |
| Nickel | ND | mg/L | NA | 0.0500 | | 05/10/05 12:31 AM | BP |
| Selenium | ND | mg/L | NA | 0.0200 | | 05/10/05 12:31 AM | BP |
| Silver | ND | mg/L | NA | 0.0100 | | 05/10/05 12:31 AM | BP |
| Thallium | ND | mg/L | NA | 0.0100 | | 05/10/05 12:31 AM | BP |
| Vanadium | ND | mg/L | NA | 0.0400 | | 05/10/05 12:31 AM | BP |
| Zinc | ND | mg/L | NA | 0.0500 | | 05/10/05 12:31 AM | BP |
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260B** | | | | |
| Acetone | ND | µg/L | NA | 50.0 | | 04/27/05 1:21 AM | CS/TC |
| Acrylonitrile | ND | µg/L | NA | 25.0 | | 04/27/05 1:21 AM | CS/TC |
| Benzene | ND | µg/L | NA | 1.0 | | 04/27/05 1:21 AM | CS/TC |
| Bromochloromethane | ND | µg/L | NA | 5.0 | | 04/27/05 1:21 AM | CS/TC |
| Bromodichloromethane | ND | µg/L | NA | 1.0 | | 04/27/05 1:21 AM | CS/TC |
| Bromoform | ND | µg/L | NA | 1.0 | | 04/27/05 1:21 AM | CS/TC |
| Bromomethane | ND | µg/L | NA | 5.0 | | 04/27/05 1:21 AM | CS/TC |
| 2-Butanone | ND | µg/L | NA | 50.0 | | 04/27/05 1:21 AM | CS/TC |
| Carbon disulfide | ND | µg/L | NA | 25.0 | | 04/27/05 1:21 AM | CS/TC |
| Carbon tetrachloride | ND | µg/L | NA | 1.0 | | 04/27/05 1:21 AM | CS/TC |
| Chlorobenzene | ND | µg/L | NA | 5.0 | | 04/27/05 1:21 AM | CS/TC |
| Chloroethane | ND | µg/L | NA | 5.0 | | 04/27/05 1:21 AM | CS/TC |
| Chloroform | ND | µg/L | NA | 1.0 | | 04/27/05 1:21 AM | CS/TC |
| Chloromethane | ND | µg/L | NA | 1.0 | | 04/27/05 1:21 AM | CS/TC |
| Dibromochloromethane | ND | µg/L | NA | 5.0 | | 04/27/05 1:21 AM | CS/TC |
| 1,2-Dibromo-3-chloropropane | ND | µg/L | NA | 1.0 | | 04/27/05 1:21 AM | CS/TC |
| 1,2-Dibromoethane | ND | µg/L | NA | 1.0 | | 04/27/05 1:21 AM | CS/TC |
| Dibromomethane | ND | µg/L | NA | 5.0 | | 04/27/05 1:21 AM | CS/TC |
| 1,2-Dichlorobenzene | ND | µg/L | NA | 5.0 | | 04/27/05 1:21 AM | CS/TC |
| 1,4-Dichlorobenzene | ND | µg/L | NA | 5.0 | | 04/27/05 1:21 AM | CS/TC |
| trans-1,4-Dichloro-2-butene | ND | µg/L | NA | 50.0 | | 04/27/05 1:21 AM | CS/TC |

**Key:**

| | |
|---|---|
| MCL | Maximum Contaminant Level |
| MDL | Minimum Detection Limit |
| NA | Not Applicable |
| ND | Not Detected at the PQL or MDL |
| PQL | Practical Quantitation Limit |
| TIC | Tentatively Identified Compounds |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level or Regulatory Level |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| H | Sample extraction/analysis holding time exceeded |
| J | Analyte detected below PQL |
| S | Spike Recovery outside accepted recovery limits |

# REI Consultants Inc.

**Date:** *27-May-05*

| | | | |
|---|---|---|---|
| **CLIENT:** | MACON COUNTY SOLID WASTE MANAG | **Lab Order:** | 0504996 |
| **Client Sample ID:** | SW-4 | **Lab ID:** | 0504996-19A |
| **Project:** | MSW LANDFILL | **Collection Date:** | 4/19/2005 |
| **Site ID:** | MACON CO NC | **Matrix:** | LIQUID |

| Analyses | Result | Units | MDL | PQL | Qual | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260B** | | | | |
| 1,1-Dichloroethane | ND | µg/L | NA | 5.0 | | 04/27/05 1:21 AM | CS/TC |
| 1,2-Dichloroethane | ND | µg/L | NA | 1.0 | | 04/27/05 1:21 AM | CS/TC |
| 1,1-Dichloroethene | ND | µg/L | NA | 5.0 | | 04/27/05 1:21 AM | CS/TC |
| cis-1,2-Dichloroethene | ND | µg/L | NA | 5.0 | | 04/27/05 1:21 AM | CS/TC |
| trans-1,2-Dichloroethene | ND | µg/L | NA | 5.0 | | 04/27/05 1:21 AM | CS/TC |
| 1,2-Dichloropropane | ND | µg/L | NA | 1.0 | | 04/27/05 1:21 AM | CS/TC |
| cis-1,3-Dichloropropene | ND | µg/L | NA | 1.0 | | 04/27/05 1:21 AM | CS/TC |
| trans-1,3-Dichloropropene | ND | µg/L | NA | 1.0 | | 04/27/05 1:21 AM | CS/TC |
| Ethylbenzene | ND | µg/L | NA | 5.0 | | 04/27/05 1:21 AM | CS/TC |
| 2-Hexanone | ND | µg/L | NA | 50.0 | | 04/27/05 1:21 AM | CS/TC |
| Iodomethane | ND | µg/L | NA | 10.0 | | 04/27/05 1:21 AM | CS/TC |
| Methylene chloride | ND | µg/L | NA | 5.0 | | 04/27/05 1:21 AM | CS/TC |
| 4-Methyl-2-pentanone | ND | µg/L | NA | 50.0 | | 04/27/05 1:21 AM | CS/TC |
| Styrene | ND | µg/L | NA | 5.0 | | 04/27/05 1:21 AM | CS/TC |
| 1,1,1,2-Tetrachloroethane | ND | µg/L | NA | 5.0 | | 04/27/05 1:21 AM | CS/TC |
| 1,1,2,2-Tetrachloroethane | ND | µg/L | NA | 5.0 | | 04/27/05 1:21 AM | CS/TC |
| Tetrachloroethene | ND | µg/L | NA | 1.0 | | 04/27/05 1:21 AM | CS/TC |
| Toluene | ND | µg/L | NA | 5.0 | | 04/27/05 1:21 AM | CS/TC |
| 1,1,1-Trichloroethane | ND | µg/L | NA | 5.0 | | 04/27/05 1:21 AM | CS/TC |
| 1,1,2-Trichloroethane | ND | µg/L | NA | 5.0 | | 04/27/05 1:21 AM | CS/TC |
| Trichloroethene | ND | µg/L | NA | 1.0 | | 04/27/05 1:21 AM | CS/TC |
| Trichlorofluoromethane | ND | µg/L | NA | 5.0 | | 04/27/05 1:21 AM | CS/TC |
| 1,2,3-Trichloropropane | ND | µg/L | NA | 1.0 | | 04/27/05 1:21 AM | CS/TC |
| Vinyl acetate | ND | µg/L | NA | 25.0 | | 04/27/05 1:21 AM | CS/TC |
| Vinyl chloride | ND | µg/L | NA | 1.0 | | 04/27/05 1:21 AM | CS/TC |
| o-Xylene | ND | µg/L | NA | 5.0 | | 04/27/05 1:21 AM | CS/TC |
| m,p-Xylene | ND | µg/L | NA | 5.0 | | 04/27/05 1:21 AM | CS/TC |
| Surr: 1,2-Dichloroethane-d4 | 108 | %REC | NA | 80-120 | | 04/27/05 1:21 AM | CS/TC |
| Surr: 4-Bromofluorobenzene | 96 | %REC | NA | 86-115 | | 04/27/05 1:21 AM | CS/TC |
| Surr: Dibromofluoromethane | 108 | %REC | NA | 80-120 | | 04/27/05 1:21 AM | CS/TC |
| Surr: Toluene-d8 | 96 | %REC | NA | 88-110 | | 04/27/05 1:21 AM | CS/TC |

**Key:**

| | |
|---|---|
| MCL | Maximum Contaminant Level |
| MDL | Minimum Detection Limit |
| NA | Not Applicable |
| ND | Not Detected at the PQL or MDL |
| PQL | Practical Quantitation Limit |
| TIC | Tentatively Identified Compounds |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level or Regulatory Level |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| H | Sample extraction/analysis holding time exceeded |
| J | Analyte detected below PQL |
| S | Spike Recovery outside accepted recovery limits |

# REI Consultants Inc.

**Date:** *27-May-05*

| | | | |
|---|---|---|---|
| **CLIENT:** | MACON COUNTY SOLID WASTE MANAG | **Lab Order:** | 0504996 |
| **Client Sample ID:** | MW-17 DUPE | **Lab ID:** | 0504996-20A |
| **Project:** | MSW LANDFILL | **Collection Date:** | 4/19/2005 |
| **Site ID:** | MACON CO NC | **Matrix:** | LIQUID |

| Analyses | Result | Units | MDL | PQL | Qual | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|---|
| **TOTAL METALS BY ICP-MS** | | | **SW6020** | | | | |
| Antimony | ND | mg/L | NA | 0.0300 | | 05/10/05 12:37 AM | BP |
| Arsenic | ND | mg/L | NA | 0.0100 | | 05/10/05 12:37 AM | BP |
| Barium | ND | mg/L | NA | 0.500 | | 05/10/05 12:37 AM | BP |
| Beryllium | ND | mg/L | NA | 0.0020 | | 05/10/05 12:37 AM | BP |
| Cadmium | ND | mg/L | NA | 0.0010 | | 05/10/05 12:37 AM | BP |
| Chromium | 0.0240 | mg/L | NA | 0.0100 | | 05/10/05 12:37 AM | BP |
| Cobalt | 0.0126 | mg/L | NA | 0.0100 | | 05/10/05 12:37 AM | BP |
| Copper | ND | mg/L | NA | 0.200 | | 05/10/05 12:37 AM | BP |
| Lead | ND | mg/L | NA | 0.0100 | | 05/10/05 12:37 AM | BP |
| Nickel | ND | mg/L | NA | 0.0500 | | 05/10/05 12:37 AM | BP |
| Selenium | ND | mg/L | NA | 0.0200 | | 05/10/05 12:37 AM | BP |
| Silver | ND | mg/L | NA | 0.0100 | | 05/10/05 12:37 AM | BP |
| Thallium | ND | mg/L | NA | 0.0100 | | 05/10/05 12:37 AM | BP |
| Vanadium | ND | mg/L | NA | 0.0400 | | 05/10/05 12:37 AM | BP |
| Zinc | 0.0582 | mg/L | NA | 0.0500 | | 05/10/05 12:37 AM | BP |
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260B** | | | | |
| Acetone | ND | µg/L | NA | 50.0 | | 04/26/05 5:16 PM | CS/TC |
| Acrylonitrile | ND | µg/L | NA | 25.0 | | 04/26/05 5:16 PM | CS/TC |
| Benzene | ND | µg/L | NA | 1.0 | | 04/26/05 5:16 PM | CS/TC |
| Bromochloromethane | ND | µg/L | NA | 5.0 | | 04/26/05 5:16 PM | CS/TC |
| Bromodichloromethane | ND | µg/L | NA | 1.0 | | 04/26/05 5:16 PM | CS/TC |
| Bromoform | ND | µg/L | NA | 1.0 | | 04/26/05 5:16 PM | CS/TC |
| Bromomethane | ND | µg/L | NA | 5.0 | | 04/26/05 5:16 PM | CS/TC |
| 2-Butanone | ND | µg/L | NA | 50.0 | | 04/26/05 5:16 PM | CS/TC |
| Carbon disulfide | ND | µg/L | NA | 25.0 | | 04/26/05 5:16 PM | CS/TC |
| Carbon tetrachloride | ND | µg/L | NA | 1.0 | | 04/26/05 5:16 PM | CS/TC |
| Chlorobenzene | ND | µg/L | NA | 5.0 | | 04/26/05 5:16 PM | CS/TC |
| Chloroethane | ND | µg/L | NA | 5.0 | | 04/26/05 5:16 PM | CS/TC |
| Chloroform | ND | µg/L | NA | 1.0 | | 04/26/05 5:16 PM | CS/TC |
| Chloromethane | ND | µg/L | NA | 1.0 | | 04/26/05 5:16 PM | CS/TC |
| Dibromochloromethane | ND | µg/L | NA | 5.0 | | 04/26/05 5:16 PM | CS/TC |
| 1,2-Dibromo-3-chloropropane | ND | µg/L | NA | 1.0 | | 04/26/05 5:16 PM | CS/TC |
| 1,2-Dibromoethane | ND | µg/L | NA | 1.0 | | 04/26/05 5:16 PM | CS/TC |
| Dibromomethane | ND | µg/L | NA | 5.0 | | 04/26/05 5:16 PM | CS/TC |
| 1,2-Dichlorobenzene | ND | µg/L | NA | 5.0 | | 04/26/05 5:16 PM | CS/TC |
| 1,4-Dichlorobenzene | ND | µg/L | NA | 5.0 | | 04/26/05 5:16 PM | CS/TC |
| trans-1,4-Dichloro-2-butene | ND | µg/L | NA | 50.0 | | 04/26/05 5:16 PM | CS/TC |

**Key:**

| | |
|---|---|
| MCL | Maximum Contaminant Level |
| MDL | Minimum Detection Limit |
| NA | Not Applicable |
| ND | Not Detected at the PQL or MDL |
| PQL | Practical Quantitation Limit |
| TIC | Tentatively Identified Compounds |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level or Regulatory Level |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| H | Sample extraction/analysis holding time exceeded |
| J | Analyte detected below PQL |
| S | Spike Recovery outside accepted recovery limits |

# REI Consultants Inc.

**Date:** *27-May-05*

| | | | |
|---|---|---|---|
| **CLIENT:** | MACON COUNTY SOLID WASTE MANAG | **Lab Order:** | 0504996 |
| **Client Sample ID:** | MW-17 DUPE | **Lab ID:** | 0504996-20A |
| **Project:** | MSW LANDFILL | **Collection Date:** | 4/19/2005 |
| **Site ID:** | MACON CO NC | **Matrix:** | LIQUID |

| Analyses | Result | Units | MDL | PQL | Qual | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260B** | | | | |
| 1,1-Dichloroethane | ND | µg/L | NA | 5.0 | | 04/26/05 5:16 PM | CS/TC |
| 1,2-Dichloroethane | ND | µg/L | NA | 1.0 | | 04/26/05 5:16 PM | CS/TC |
| 1,1-Dichloroethene | ND | µg/L | NA | 5.0 | | 04/26/05 5:16 PM | CS/TC |
| cis-1,2-Dichloroethene | ND | µg/L | NA | 5.0 | | 04/26/05 5:16 PM | CS/TC |
| trans-1,2-Dichloroethene | ND | µg/L | NA | 5.0 | | 04/26/05 5:16 PM | CS/TC |
| 1,2-Dichloropropane | ND | µg/L | NA | 1.0 | | 04/26/05 5:16 PM | CS/TC |
| cis-1,3-Dichloropropene | ND | µg/L | NA | 1.0 | | 04/26/05 5:16 PM | CS/TC |
| trans-1,3-Dichloropropene | ND | µg/L | NA | 1.0 | | 04/26/05 5:16 PM | CS/TC |
| Ethylbenzene | ND | µg/L | NA | 5.0 | | 04/26/05 5:16 PM | CS/TC |
| 2-Hexanone | ND | µg/L | NA | 50.0 | | 04/26/05 5:16 PM | CS/TC |
| Iodomethane | ND | µg/L | NA | 10.0 | | 04/26/05 5:16 PM | CS/TC |
| Methylene chloride | ND | µg/L | NA | 5.0 | | 04/26/05 5:16 PM | CS/TC |
| 4-Methyl-2-pentanone | ND | µg/L | NA | 50.0 | | 04/26/05 5:16 PM | CS/TC |
| Styrene | ND | µg/L | NA | 5.0 | | 04/26/05 5:16 PM | CS/TC |
| 1,1,1,2-Tetrachloroethane | ND | µg/L | NA | 5.0 | | 04/26/05 5:16 PM | CS/TC |
| 1,1,2,2-Tetrachloroethane | ND | µg/L | NA | 5.0 | | 04/26/05 5:16 PM | CS/TC |
| Tetrachloroethene | ND | µg/L | NA | 1.0 | | 04/26/05 5:16 PM | CS/TC |
| Toluene | ND | µg/L | NA | 5.0 | | 04/26/05 5:16 PM | CS/TC |
| 1,1,1-Trichloroethane | ND | µg/L | NA | 5.0 | | 04/26/05 5:16 PM | CS/TC |
| 1,1,2-Trichloroethane | ND | µg/L | NA | 5.0 | | 04/26/05 5:16 PM | CS/TC |
| Trichloroethene | ND | µg/L | NA | 1.0 | | 04/26/05 5:16 PM | CS/TC |
| Trichlorofluoromethane | ND | µg/L | NA | 5.0 | | 04/26/05 5:16 PM | CS/TC |
| 1,2,3-Trichloropropane | ND | µg/L | NA | 1.0 | | 04/26/05 5:16 PM | CS/TC |
| Vinyl acetate | ND | µg/L | NA | 25.0 | | 04/26/05 5:16 PM | CS/TC |
| Vinyl chloride | ND | µg/L | NA | 1.0 | | 04/26/05 5:16 PM | CS/TC |
| o-Xylene | ND | µg/L | NA | 5.0 | | 04/26/05 5:16 PM | CS/TC |
| m,p-Xylene | ND | µg/L | NA | 5.0 | | 04/26/05 5:16 PM | CS/TC |
| Surr: 1,2-Dichloroethane-d4 | 102 | %REC | NA | 80-120 | | 04/26/05 5:16 PM | CS/TC |
| Surr: 4-Bromofluorobenzene | 94 | %REC | NA | 86-115 | | 04/26/05 5:16 PM | CS/TC |
| Surr: Dibromofluoromethane | 105 | %REC | NA | 80-120 | | 04/26/05 5:16 PM | CS/TC |
| Surr: Toluene-d8 | 96 | %REC | NA | 88-110 | | 04/26/05 5:16 PM | CS/TC |

**Key:**

| | |
|---|---|
| MCL | Maximum Contaminant Level |
| MDL | Minimum Detection Limit |
| NA | Not Applicable |
| ND | Not Detected at the PQL or MDL |
| PQL | Practical Quantitation Limit |
| TIC | Tentatively Identified Compounds |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level or Regulatory Level |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| H | Sample extraction/analysis holding time exceeded |
| J | Analyte detected below PQL |
| S | Spike Recovery outside accepted recovery limits |

# REI Consultants Inc.

**Date:** *27-May-05*

| | | | |
|---|---|---|---|
| **CLIENT:** | MACON COUNTY SOLID WASTE MANAG | **Lab Order:** | 0504996 |
| **Client Sample ID:** | MW-22A DUPE | **Lab ID:** | 0504996-21A |
| **Project:** | MSW LANDFILL | **Collection Date:** | 4/19/2005 |
| **Site ID:** | MACON CO NC | **Matrix:** | LIQUID |

| Analyses | Result | Units | MDL | PQL | Qual | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|---|
| **TOTAL METALS BY ICP-MS** | | | **SW6020** | | | | |
| Antimony | ND | mg/L | NA | 0.0300 | | 05/19/04 10:06 PM | BP |
| Arsenic | ND | mg/L | NA | 0.0100 | | 05/19/04 10:06 PM | BP |
| Barium | ND | mg/L | NA | 0.500 | | 05/19/04 10:06 PM | BP |
| Beryllium | ND | mg/L | NA | 0.0020 | | 05/19/04 10:06 PM | BP |
| Cadmium | ND | mg/L | NA | 0.0010 | | 05/19/04 10:06 PM | BP |
| Chromium | ND | mg/L | NA | 0.0100 | | 05/19/04 10:06 PM | BP |
| Cobalt | ND | mg/L | NA | 0.0100 | | 05/19/04 10:06 PM | BP |
| Copper | ND | mg/L | NA | 0.200 | | 05/19/04 10:06 PM | BP |
| Lead | ND | mg/L | NA | 0.0100 | | 05/19/04 10:06 PM | BP |
| Nickel | ND | mg/L | NA | 0.0500 | | 05/19/04 10:06 PM | BP |
| Selenium | ND | mg/L | NA | 0.0200 | | 05/19/04 10:06 PM | BP |
| Silver | ND | mg/L | NA | 0.0100 | | 05/19/04 10:06 PM | BP |
| Thallium | ND | mg/L | NA | 0.0100 | | 05/19/04 10:06 PM | BP |
| Vanadium | ND | mg/L | NA | 0.0400 | | 05/19/04 10:06 PM | BP |
| Zinc | ND | mg/L | NA | 0.0500 | | 05/19/04 10:06 PM | BP |
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260B** | | | | |
| Acetone | ND | µg/L | NA | 50.0 | | 04/27/05 1:56 AM | CS/TC |
| Acrylonitrile | ND | µg/L | NA | 25.0 | | 04/27/05 1:56 AM | CS/TC |
| Benzene | ND | µg/L | NA | 1.0 | | 04/27/05 1:56 AM | CS/TC |
| Bromochloromethane | ND | µg/L | NA | 5.0 | | 04/27/05 1:56 AM | CS/TC |
| Bromodichloromethane | ND | µg/L | NA | 1.0 | | 04/27/05 1:56 AM | CS/TC |
| Bromoform | ND | µg/L | NA | 1.0 | | 04/27/05 1:56 AM | CS/TC |
| Bromomethane | ND | µg/L | NA | 5.0 | | 04/27/05 1:56 AM | CS/TC |
| 2-Butanone | ND | µg/L | NA | 50.0 | | 04/27/05 1:56 AM | CS/TC |
| Carbon disulfide | ND | µg/L | NA | 25.0 | | 04/27/05 1:56 AM | CS/TC |
| Carbon tetrachloride | ND | µg/L | NA | 1.0 | | 04/27/05 1:56 AM | CS/TC |
| Chlorobenzene | ND | µg/L | NA | 5.0 | | 04/27/05 1:56 AM | CS/TC |
| Chloroethane | ND | µg/L | NA | 5.0 | | 04/27/05 1:56 AM | CS/TC |
| Chloroform | ND | µg/L | NA | 1.0 | | 04/27/05 1:56 AM | CS/TC |
| Chloromethane | ND | µg/L | NA | 1.0 | | 04/27/05 1:56 AM | CS/TC |
| Dibromochloromethane | ND | µg/L | NA | 5.0 | | 04/27/05 1:56 AM | CS/TC |
| 1,2-Dibromo-3-chloropropane | ND | µg/L | NA | 1.0 | | 04/27/05 1:56 AM | CS/TC |
| 1,2-Dibromoethane | ND | µg/L | NA | 1.0 | | 04/27/05 1:56 AM | CS/TC |
| Dibromomethane | ND | µg/L | NA | 5.0 | | 04/27/05 1:56 AM | CS/TC |
| 1,2-Dichlorobenzene | ND | µg/L | NA | 5.0 | | 04/27/05 1:56 AM | CS/TC |
| 1,4-Dichlorobenzene | ND | µg/L | NA | 5.0 | | 04/27/05 1:56 AM | CS/TC |
| trans-1,4-Dichloro-2-butene | ND | µg/L | NA | 50.0 | | 04/27/05 1:56 AM | CS/TC |

**Key:**

| | |
|---|---|
| MCL | Maximum Contaminant Level |
| MDL | Minimum Detection Limit |
| NA | Not Applicable |
| ND | Not Detected at the PQL or MDL |
| PQL | Practical Quantitation Limit |
| TIC | Tentatively Identified Compounds |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level or Regulatory Level |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| H | Sample extraction/analysis holding time exceeded |
| J | Analyte detected below PQL |
| S | Spike Recovery outside accepted recovery limits |

# REI Consultants Inc.

**Date:** *27-May-05*

| | | | |
|---|---|---|---|
| **CLIENT:** | MACON COUNTY SOLID WASTE MANAG | **Lab Order:** | 0504996 |
| **Client Sample ID:** | MW-22A DUPE | **Lab ID:** | 0504996-21A |
| **Project:** | MSW LANDFILL | **Collection Date:** | 4/19/2005 |
| **Site ID:** | MACON CO NC | **Matrix:** | LIQUID |

| Analyses | Result | Units | MDL | PQL | Qual | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260B** | | | | |
| 1,1-Dichloroethane | ND | µg/L | NA | 5.0 | | 04/27/05 1:56 AM | CS/TC |
| 1,2-Dichloroethane | ND | µg/L | NA | 1.0 | | 04/27/05 1:56 AM | CS/TC |
| 1,1-Dichloroethene | ND | µg/L | NA | 5.0 | | 04/27/05 1:56 AM | CS/TC |
| cis-1,2-Dichloroethene | ND | µg/L | NA | 5.0 | | 04/27/05 1:56 AM | CS/TC |
| trans-1,2-Dichloroethene | ND | µg/L | NA | 5.0 | | 04/27/05 1:56 AM | CS/TC |
| 1,2-Dichloropropane | ND | µg/L | NA | 1.0 | | 04/27/05 1:56 AM | CS/TC |
| cis-1,3-Dichloropropene | ND | µg/L | NA | 1.0 | | 04/27/05 1:56 AM | CS/TC |
| trans-1,3-Dichloropropene | ND | µg/L | NA | 1.0 | | 04/27/05 1:56 AM | CS/TC |
| Ethylbenzene | ND | µg/L | NA | 5.0 | | 04/27/05 1:56 AM | CS/TC |
| 2-Hexanone | ND | µg/L | NA | 50.0 | | 04/27/05 1:56 AM | CS/TC |
| Iodomethane | ND | µg/L | NA | 10.0 | | 04/27/05 1:56 AM | CS/TC |
| Methylene chloride | ND | µg/L | NA | 5.0 | | 04/27/05 1:56 AM | CS/TC |
| 4-Methyl-2-pentanone | ND | µg/L | NA | 50.0 | | 04/27/05 1:56 AM | CS/TC |
| Styrene | ND | µg/L | NA | 5.0 | | 04/27/05 1:56 AM | CS/TC |
| 1,1,1,2-Tetrachloroethane | ND | µg/L | NA | 5.0 | | 04/27/05 1:56 AM | CS/TC |
| 1,1,2,2-Tetrachloroethane | ND | µg/L | NA | 5.0 | | 04/27/05 1:56 AM | CS/TC |
| Tetrachloroethene | ND | µg/L | NA | 1.0 | | 04/27/05 1:56 AM | CS/TC |
| Toluene | ND | µg/L | NA | 5.0 | | 04/27/05 1:56 AM | CS/TC |
| 1,1,1-Trichloroethane | ND | µg/L | NA | 5.0 | | 04/27/05 1:56 AM | CS/TC |
| 1,1,2-Trichloroethane | ND | µg/L | NA | 5.0 | | 04/27/05 1:56 AM | CS/TC |
| Trichloroethene | ND | µg/L | NA | 1.0 | | 04/27/05 1:56 AM | CS/TC |
| Trichlorofluoromethane | ND | µg/L | NA | 5.0 | | 04/27/05 1:56 AM | CS/TC |
| 1,2,3-Trichloropropane | ND | µg/L | NA | 1.0 | | 04/27/05 1:56 AM | CS/TC |
| Vinyl acetate | ND | µg/L | NA | 25.0 | | 04/27/05 1:56 AM | CS/TC |
| Vinyl chloride | ND | µg/L | NA | 1.0 | | 04/27/05 1:56 AM | CS/TC |
| o-Xylene | ND | µg/L | NA | 5.0 | | 04/27/05 1:56 AM | CS/TC |
| m,p-Xylene | ND | µg/L | NA | 5.0 | | 04/27/05 1:56 AM | CS/TC |
| Surr: 1,2-Dichloroethane-d4 | 108 | %REC | NA | 80-120 | | 04/27/05 1:56 AM | CS/TC |
| Surr: 4-Bromofluorobenzene | 97 | %REC | NA | 86-115 | | 04/27/05 1:56 AM | CS/TC |
| Surr: Dibromofluoromethane | 109 | %REC | NA | 80-120 | | 04/27/05 1:56 AM | CS/TC |
| Surr: Toluene-d8 | 97 | %REC | NA | 88-110 | | 04/27/05 1:56 AM | CS/TC |

**Key:**

| | |
|---|---|
| MCL | Maximum Contaminant Level |
| MDL | Minimum Detection Limit |
| NA | Not Applicable |
| ND | Not Detected at the PQL or MDL |
| PQL | Practical Quantitation Limit |
| TIC | Tentatively Identified Compounds |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level or Regulatory Level |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| H | Sample extraction/analysis holding time exceeded |
| J | Analyte detected below PQL |
| S | Spike Recovery outside accepted recovery limits |

# REI Consultants Inc.

**Date:** *27-May-05*

| | | | |
|---|---|---|---|
| **CLIENT:** | MACON COUNTY SOLID WASTE MANAG | **Lab Order:** | 0504996 |
| **Client Sample ID:** | TRIP BLANK #2 | **Lab ID:** | 0504996-22A |
| **Project:** | MSW LANDFILL | **Collection Date:** | 4/19/2005 |
| **Site ID:** | MACON CO NC | **Matrix:** | LIQUID |

| Analyses | Result | Units | MDL | PQL | Qual | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260B** | | | | |
| Acetone | ND | µg/L | NA | 50.0 | | 04/27/05 2:31 AM | CS/TC |
| Acrylonitrile | ND | µg/L | NA | 25.0 | | 04/27/05 2:31 AM | CS/TC |
| Benzene | ND | µg/L | NA | 1.0 | | 04/27/05 2:31 AM | CS/TC |
| Bromochloromethane | ND | µg/L | NA | 5.0 | | 04/27/05 2:31 AM | CS/TC |
| Bromodichloromethane | ND | µg/L | NA | 1.0 | | 04/27/05 2:31 AM | CS/TC |
| Bromoform | ND | µg/L | NA | 1.0 | | 04/27/05 2:31 AM | CS/TC |
| Bromomethane | ND | µg/L | NA | 5.0 | | 04/27/05 2:31 AM | CS/TC |
| 2-Butanone | ND | µg/L | NA | 50.0 | | 04/27/05 2:31 AM | CS/TC |
| Carbon disulfide | ND | µg/L | NA | 25.0 | | 04/27/05 2:31 AM | CS/TC |
| Carbon tetrachloride | ND | µg/L | NA | 1.0 | | 04/27/05 2:31 AM | CS/TC |
| Chlorobenzene | ND | µg/L | NA | 5.0 | | 04/27/05 2:31 AM | CS/TC |
| Chloroethane | ND | µg/L | NA | 5.0 | | 04/27/05 2:31 AM | CS/TC |
| Chloroform | ND | µg/L | NA | 1.0 | | 04/27/05 2:31 AM | CS/TC |
| Chloromethane | ND | µg/L | NA | 1.0 | | 04/27/05 2:31 AM | CS/TC |
| Dibromochloromethane | ND | µg/L | NA | 5.0 | | 04/27/05 2:31 AM | CS/TC |
| 1,2-Dibromo-3-chloropropane | ND | µg/L | NA | 1.0 | | 04/27/05 2:31 AM | CS/TC |
| 1,2-Dibromoethane | ND | µg/L | NA | 1.0 | | 04/27/05 2:31 AM | CS/TC |
| Dibromomethane | ND | µg/L | NA | 5.0 | | 04/27/05 2:31 AM | CS/TC |
| 1,2-Dichlorobenzene | ND | µg/L | NA | 5.0 | | 04/27/05 2:31 AM | CS/TC |
| 1,4-Dichlorobenzene | ND | µg/L | NA | 5.0 | | 04/27/05 2:31 AM | CS/TC |
| trans-1,4-Dichloro-2-butene | ND | µg/L | NA | 50.0 | | 04/27/05 2:31 AM | CS/TC |
| 1,1-Dichloroethane | ND | µg/L | NA | 5.0 | | 04/27/05 2:31 AM | CS/TC |
| 1,2-Dichloroethane | ND | µg/L | NA | 1.0 | | 04/27/05 2:31 AM | CS/TC |
| 1,1-Dichloroethene | ND | µg/L | NA | 5.0 | | 04/27/05 2:31 AM | CS/TC |
| cis-1,2-Dichloroethene | ND | µg/L | NA | 5.0 | | 04/27/05 2:31 AM | CS/TC |
| trans-1,2-Dichloroethene | ND | µg/L | NA | 5.0 | | 04/27/05 2:31 AM | CS/TC |
| 1,2-Dichloropropane | ND | µg/L | NA | 1.0 | | 04/27/05 2:31 AM | CS/TC |
| cis-1,3-Dichloropropene | ND | µg/L | NA | 1.0 | | 04/27/05 2:31 AM | CS/TC |
| trans-1,3-Dichloropropene | ND | µg/L | NA | 1.0 | | 04/27/05 2:31 AM | CS/TC |
| Ethylbenzene | ND | µg/L | NA | 5.0 | | 04/27/05 2:31 AM | CS/TC |
| 2-Hexanone | ND | µg/L | NA | 50.0 | | 04/27/05 2:31 AM | CS/TC |
| Iodomethane | ND | µg/L | NA | 10.0 | | 04/27/05 2:31 AM | CS/TC |
| Methylene chloride | ND | µg/L | NA | 5.0 | | 04/27/05 2:31 AM | CS/TC |
| 4-Methyl-2-pentanone | ND | µg/L | NA | 50.0 | | 04/27/05 2:31 AM | CS/TC |
| Styrene | ND | µg/L | NA | 5.0 | | 04/27/05 2:31 AM | CS/TC |
| 1,1,1,2-Tetrachloroethane | ND | µg/L | NA | 5.0 | | 04/27/05 2:31 AM | CS/TC |
| 1,1,2,2-Tetrachloroethane | ND | µg/L | NA | 5.0 | | 04/27/05 2:31 AM | CS/TC |
| Tetrachloroethene | ND | µg/L | NA | 1.0 | | 04/27/05 2:31 AM | CS/TC |

**Key:**

| | |
|---|---|
| MCL | Maximum Contaminant Level |
| MDL | Minimum Detection Limit |
| NA | Not Applicable |
| ND | Not Detected at the PQL or MDL |
| PQL | Practical Quantitation Limit |
| TIC | Tentatively Identified Compounds |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level or Regulatory Level |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| H | Sample extraction/analysis holding time exceeded |
| J | Analyte detected below PQL |
| S | Spike Recovery outside accepted recovery limits |

# REI Consultants Inc.

**Date:** *27-May-05*

| | | | |
|---|---|---|---|
| **CLIENT:** | MACON COUNTY SOLID WASTE MANAG | **Lab Order:** | 0504996 |
| **Client Sample ID:** | TRIP BLANK #2 | **Lab ID:** | 0504996-22A |
| **Project:** | MSW LANDFILL | **Collection Date:** | 4/19/2005 |
| **Site ID:** | MACON CO NC | **Matrix:** | LIQUID |

| Analyses | Result | Units | MDL | PQL | Qual | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260B** | | | | |
| Toluene | ND | µg/L | NA | 5.0 | | 04/27/05 2:31 AM | CS/TC |
| 1,1,1-Trichloroethane | ND | µg/L | NA | 5.0 | | 04/27/05 2:31 AM | CS/TC |
| 1,1,2-Trichloroethane | ND | µg/L | NA | 5.0 | | 04/27/05 2:31 AM | CS/TC |
| Trichloroethene | ND | µg/L | NA | 1.0 | | 04/27/05 2:31 AM | CS/TC |
| Trichlorofluoromethane | ND | µg/L | NA | 5.0 | | 04/27/05 2:31 AM | CS/TC |
| 1,2,3-Trichloropropane | ND | µg/L | NA | 1.0 | | 04/27/05 2:31 AM | CS/TC |
| Vinyl acetate | ND | µg/L | NA | 25.0 | | 04/27/05 2:31 AM | CS/TC |
| Vinyl chloride | ND | µg/L | NA | 1.0 | | 04/27/05 2:31 AM | CS/TC |
| o-Xylene | ND | µg/L | NA | 5.0 | | 04/27/05 2:31 AM | CS/TC |
| m,p-Xylene | ND | µg/L | NA | 5.0 | | 04/27/05 2:31 AM | CS/TC |
| Surr: 1,2-Dichloroethane-d4 | 108 | %REC | NA | 80-120 | | 04/27/05 2:31 AM | CS/TC |
| Surr: 4-Bromofluorobenzene | 93 | %REC | NA | 86-115 | | 04/27/05 2:31 AM | CS/TC |
| Surr: Dibromofluoromethane | 112 | %REC | NA | 80-120 | | 04/27/05 2:31 AM | CS/TC |
| Surr: Toluene-d8 | 95 | %REC | NA | 88-110 | | 04/27/05 2:31 AM | CS/TC |

**Key:**

| | |
|---|---|
| MCL | Maximum Contaminant Level |
| MDL | Minimum Detection Limit |
| NA | Not Applicable |
| ND | Not Detected at the PQL or MDL |
| PQL | Practical Quantitation Limit |
| TIC | Tentatively Identified Compounds |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level or Regulatory Level |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| H | Sample extraction/analysis holding time exceeded |
| J | Analyte detected below PQL |
| S | Spike Recovery outside accepted recovery limits |

**REI Consultants Inc.** **Date:** *27-May-05*

**CLIENT:** MACON COUNTY SOLID WASTE MANAGE **Lab Order:** 0504996
**Project:** MSW LANDFILL
**Site ID:** MACON CO NC

# Data Review

Approved: Ivan W. Leef - Inorganic Lab Manager 5-27-05 Date

Approved: Joseph Robertson - Organic Lab Manager 5-27-05 Date

| Key: | | | Qualifiers: | | |
|---|---|---|---|---|---|
| | MCL | Maximum Contaminant Level | | * | Value exceeds Maximum Contaminant Level or Regulatory Level |
| | MDL | Minimum Detection Limit | | B | Analyte detected in the associated Method Blank |
| | NA | Not Applicable | | E | Value above quantitation range |
| | ND | Not Detected at the PQL or MDL | | H | Sample extraction/analysis holding time exceeded |
| | PQL | Practical Quantitation Limit | | J | Analyte detected below PQL |
| | TIC | Tentatively Identified Compounds | | S | Spike Recovery outside accepted recovery limits |

REIC

RESEARCH ENVIRONMENTAL & INDUSTRIAL CONSULTANTS, INC.

Improving the environment, one client at a time...

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Member:

American Chemical Society

Association of Official Analytical Chemists

Petroleum Marketers Association

Rural Water Association

Mining & Reclamation Association

American Water Works Association

The Solid Waste Association of North America

West Virginia Manufacturers Association

Association of West Virginia Solid Waste Authorities

West Virginia Oil Marketers & Grocers Association

May 24, 2005

Mr. Chris Stahl
MACON COUNTY SOLID WASTE MANAGEMENT
5 WEST MAIN STREET
FRANKLIN, NC 28734

TEL: (828) 349-2100
FAX (828) 349-2185

RE: MSW LANDFILL

Order No.: 0504997

Dear Mr. Chris Stahl:

REI Consultants Inc. received 2 sample(s) on 4/21/2005 for the analyses presented in the following report.

If you have any questions regarding these results, please do not hesitate to call.

Sincerely,

Claude Scott
Vice President

**REI Consultants Inc.** **Date:** *24-May-05*

**CLIENT:** MACON COUNTY SOLID WASTE MAN
**Project:** MSW LANDFILL
**Lab Order:** 0504997

# CASE NARRATIVE

Elevated PQLs for method SW8260B for client sample ID LEACHATE due to sample matrix interference. Sample foamed during purge process.

Samples were analyzed using the methods stated in the analytical report without modification unless otherwise noted.

Analytical methods contained in this report referencing Standard Methods are taken from the 18th Edition.

All samples analyzed on an "as-received" basis unless otherwise noted in the analytical report.

The Laboratory Director or his designee, as verified by the signature contained in the analytical report, has authorized the release of the data contained in this hard copy data package.

In compliance with federal guidelines and standard operating procedures, all reports, including raw data and supporting quality control, will be disposed of after three years unless otherwise arranged by the client via written notification or contract requirement.

The BOD was setup on 04/22/05 at 9:00 am

# REI Consultants Inc.

**Date:** *24-May-05*

| | | | |
|---|---|---|---|
| **CLIENT:** | MACON COUNTY SOLID WASTE MANAG | **Lab Order:** | 0504997 |
| **Client Sample ID:** | LEACHATE | **Lab ID:** | 0504997-01A |
| **Project:** | MSW LANDFILL | **Collection Date:** | 4/20/2005 |
| **Site ID:** | MACON CO MSW LANDFILL/NC | **Matrix:** | LIQUID |

| Analyses | Result | Units | MDL | PQL | Qual | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|---|
| **ANIONS BY ION CHROMATOGRAPHY** | | | **E300.0** | | | | |
| Nitrogen, Nitrate | 0.23 | mg/L | NA | 0.10 | | 04/22/05 11:00 AM | LK |
| Sulfate | 19.1 | mg/L | NA | 5.00 | | 04/22/05 11:00 AM | LK |
| **SULFIDE** | | | **E376.1** | | | | |
| Sulfide | ND | mg/L | NA | 1.00 | | 04/21/05 12:00 AM | LK |
| **CHEMICAL OXYGEN DEMAND** | | | **E410.4** | | | | |
| Chemical Oxygen Demand | 110 | mg/L | NA | 10 | | 04/26/05 9:00 AM | CH |
| **PHOSPHORUS** | | | **SM4500-P BE** | | | | |
| Phosphorus, Total | 1.70 | mg/L | NA | 0.05 | | 04/27/05 8:45 AM | CH |
| **BOD, 5 DAY, 20°C** | | | **SM5210 B** | | | | |
| Biochemical Oxygen Demand | 73 | mg/L | 2 | 5 | | 04/27/05 11:00 AM | JLM |
| **TOTAL METALS BY ICP-MS** | | | **SW6020** | | | | |
| Antimony | ND | mg/L | NA | 0.0300 | | 05/19/05 10:29 PM | BP |
| Arsenic | 0.0118 | mg/L | NA | 0.0100 | | 05/19/05 10:29 PM | BP |
| Barium | ND | mg/L | NA | 0.500 | | 05/19/05 10:29 PM | BP |
| Beryllium | ND | mg/L | NA | 0.0020 | | 05/19/05 10:29 PM | BP |
| Cadmium | ND | mg/L | NA | 0.0010 | | 05/19/05 10:29 PM | BP |
| Chromium | 0.0260 | mg/L | NA | 0.0100 | | 05/19/05 10:29 PM | BP |
| Cobalt | 0.0341 | mg/L | NA | 0.0100 | | 05/19/05 10:29 PM | BP |
| Copper | ND | mg/L | NA | 0.200 | | 05/19/05 10:29 PM | BP |
| Lead | ND | mg/L | NA | 0.0100 | | 05/19/05 10:29 PM | BP |
| Nickel | 0.0672 | mg/L | NA | 0.0500 | | 05/19/05 10:29 PM | BP |
| Selenium | ND | mg/L | NA | 0.0200 | | 05/19/05 10:29 PM | BP |
| Silver | ND | mg/L | NA | 0.0100 | | 05/19/05 10:29 PM | BP |
| Thallium | ND | mg/L | NA | 0.0100 | | 05/19/05 10:29 PM | BP |
| Vanadium | ND | mg/L | NA | 0.0400 | | 05/19/05 10:29 PM | BP |
| Zinc | ND | mg/L | NA | 0.0500 | | 05/19/05 10:29 PM | BP |

**Key:**

| | |
|---|---|
| MCL | Maximum Contaminant Level |
| MDL | Minimum Detection Limit |
| NA | Not Applicable |
| ND | Not Detected at the PQL or MDL |
| PQL | Practical Quantitation Limit |
| TIC | Tentatively Identified Compounds |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level or Regulatory Level |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| H | Sample extraction/analysis holding time exceeded |
| J | Analyte detected below PQL |
| S | Spike Recovery outside accepted recovery limits |

# REI Consultants Inc.

**Date:** *24-May-05*

| | | | |
|---|---|---|---|
| **CLIENT:** | MACON COUNTY SOLID WASTE MANAG | **Lab Order:** | 0504997 |
| **Client Sample ID:** | LEACHATE | **Lab ID:** | 0504997-01A |
| **Project:** | MSW LANDFILL | **Collection Date:** | 4/20/2005 |
| **Site ID:** | MACON CO MSW LANDFILL/NC | **Matrix:** | LIQUID |

| Analyses | Result | Units | MDL | PQL | Qual | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS** | | **SW8260B** | | | | | |
| Acetone | ND | µg/L | NA | 50.0 | | 04/28/05 2:50 PM | CS/TC |
| Acrylonitrile | ND | µg/L | NA | 25.0 | | 04/28/05 2:50 PM | CS/TC |
| Benzene | ND | µg/L | NA | 2.0 | | 04/28/05 2:50 PM | CS/TC |
| Bromochloromethane | ND | µg/L | NA | 5.0 | | 04/28/05 2:50 PM | CS/TC |
| Bromodichloromethane | ND | µg/L | NA | 2.0 | | 04/28/05 2:50 PM | CS/TC |
| Bromoform | ND | µg/L | NA | 2.0 | | 04/28/05 2:50 PM | CS/TC |
| Bromomethane | ND | µg/L | NA | 5.0 | | 04/28/05 2:50 PM | CS/TC |
| 2-Butanone | ND | µg/L | NA | 50.0 | | 04/28/05 2:50 PM | CS/TC |
| Carbon disulfide | ND | µg/L | NA | 25.0 | | 04/28/05 2:50 PM | CS/TC |
| Carbon tetrachloride | ND | µg/L | NA | 2.0 | | 04/28/05 2:50 PM | CS/TC |
| Chlorobenzene | ND | µg/L | NA | 5.0 | | 04/28/05 2:50 PM | CS/TC |
| Chloroethane | ND | µg/L | NA | 5.0 | | 04/28/05 2:50 PM | CS/TC |
| Chloroform | ND | µg/L | NA | 2.0 | | 04/28/05 2:50 PM | CS/TC |
| Chloromethane | ND | µg/L | NA | 2.0 | | 04/28/05 2:50 PM | CS/TC |
| Dibromochloromethane | ND | µg/L | NA | 5.0 | | 04/28/05 2:50 PM | CS/TC |
| 1,2-Dibromo-3-chloropropane | ND | µg/L | NA | 2.0 | | 04/28/05 2:50 PM | CS/TC |
| 1,2-Dibromoethane | ND | µg/L | NA | 2.0 | | 04/28/05 2:50 PM | CS/TC |
| Dibromomethane | ND | µg/L | NA | 5.0 | | 04/28/05 2:50 PM | CS/TC |
| 1,2-Dichlorobenzene | ND | µg/L | NA | 5.0 | | 04/28/05 2:50 PM | CS/TC |
| 1,4-Dichlorobenzene | ND | µg/L | NA | 5.0 | | 04/28/05 2:50 PM | CS/TC |
| trans-1,4-Dichloro-2-butene | ND | µg/L | NA | 50.0 | | 04/28/05 2:50 PM | CS/TC |
| 1,1-Dichloroethane | ND | µg/L | NA | 5.0 | | 04/28/05 2:50 PM | CS/TC |
| 1,2-Dichloroethane | ND | µg/L | NA | 2.0 | | 04/28/05 2:50 PM | CS/TC |
| 1,1-Dichloroethene | ND | µg/L | NA | 5.0 | | 04/28/05 2:50 PM | CS/TC |
| cis-1,2-Dichloroethene | ND | µg/L | NA | 5.0 | | 04/28/05 2:50 PM | CS/TC |
| trans-1,2-Dichloroethene | ND | µg/L | NA | 5.0 | | 04/28/05 2:50 PM | CS/TC |
| 1,2-Dichloropropane | ND | µg/L | NA | 2.0 | | 04/28/05 2:50 PM | CS/TC |
| cis-1,3-Dichloropropene | ND | µg/L | NA | 2.0 | | 04/28/05 2:50 PM | CS/TC |
| trans-1,3-Dichloropropene | ND | µg/L | NA | 2.0 | | 04/28/05 2:50 PM | CS/TC |
| Ethylbenzene | ND | µg/L | NA | 5.0 | | 04/28/05 2:50 PM | CS/TC |
| 2-Hexanone | ND | µg/L | NA | 50.0 | | 04/28/05 2:50 PM | CS/TC |
| Iodomethane | ND | µg/L | NA | 20.0 | | 04/28/05 2:50 PM | CS/TC |
| Methylene chloride | ND | µg/L | NA | 5.0 | | 04/28/05 2:50 PM | CS/TC |
| 4-Methyl-2-pentanone | ND | µg/L | NA | 50.0 | | 04/28/05 2:50 PM | CS/TC |
| Styrene | ND | µg/L | NA | 5.0 | | 04/28/05 2:50 PM | CS/TC |
| 1,1,1,2-Tetrachloroethane | ND | µg/L | NA | 5.0 | | 04/28/05 2:50 PM | CS/TC |
| 1,1,2,2-Tetrachloroethane | ND | µg/L | NA | 5.0 | | 04/28/05 2:50 PM | CS/TC |
| Tetrachloroethene | ND | µg/L | NA | 2.0 | | 04/28/05 2:50 PM | CS/TC |

**Key:**

| | |
|---|---|
| MCL | Maximum Contaminant Level |
| MDL | Minimum Detection Limit |
| NA | Not Applicable |
| ND | Not Detected at the PQL or MDL |
| PQL | Practical Quantitation Limit |
| TIC | Tentatively Identified Compounds |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level or Regulatory Level |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| H | Sample extraction/analysis holding time exceeded |
| J | Analyte detected below PQL |
| S | Spike Recovery outside accepted recovery limits |

# REI Consultants Inc.

**Date:** *24-May-05*

| | | | |
|---|---|---|---|
| **CLIENT:** | MACON COUNTY SOLID WASTE MANAG | **Lab Order:** | 0504997 |
| **Client Sample ID:** | LEACHATE | **Lab ID:** | 0504997-01A |
| **Project:** | MSW LANDFILL | **Collection Date:** | 4/20/2005 |
| **Site ID:** | MACON CO MSW LANDFILL/NC | **Matrix:** | LIQUID |

| Analyses | Result | Units | MDL | PQL | Qual Date Analyzed | Analyst |
|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS** | | **SW8260B** | | | | |
| Toluene | ND | µg/L | NA | 5.0 | 04/28/05 2:50 PM | CS/TC |
| 1,1,1-Trichloroethane | ND | µg/L | NA | 5.0 | 04/28/05 2:50 PM | CS/TC |
| 1,1,2-Trichloroethane | ND | µg/L | NA | 5.0 | 04/28/05 2:50 PM | CS/TC |
| Trichloroethene | ND | µg/L | NA | 2.0 | 04/28/05 2:50 PM | CS/TC |
| Trichlorofluoromethane | ND | µg/L | NA | 5.0 | 04/28/05 2:50 PM | CS/TC |
| 1,2,3-Trichloropropane | ND | µg/L | NA | 2.0 | 04/28/05 2:50 PM | CS/TC |
| Vinyl acetate | ND | µg/L | NA | 25.0 | 04/28/05 2:50 PM | CS/TC |
| Vinyl chloride | ND | µg/L | NA | 2.0 | 04/28/05 2:50 PM | CS/TC |
| o-Xylene | ND | µg/L | NA | 5.0 | 04/28/05 2:50 PM | CS/TC |
| m,p-Xylene | ND | µg/L | NA | 5.0 | 04/28/05 2:50 PM | CS/TC |
| Surr: 1,2-Dichloroethane-d4 | 104 | %REC | NA | 80-120 | 04/28/05 2:50 PM | CS/TC |
| Surr: 4-Bromofluorobenzene | 95 | %REC | NA | 86-115 | 04/28/05 2:50 PM | CS/TC |
| Surr: Dibromofluoromethane | 104 | %REC | NA | 80-120 | 04/28/05 2:50 PM | CS/TC |
| Surr: Toluene-d8 | 97 | %REC | NA | 88-110 | 04/28/05 2:50 PM | CS/TC |

**Key:**

| | |
|---|---|
| MCL | Maximum Contaminant Level |
| MDL | Minimum Detection Limit |
| NA | Not Applicable |
| ND | Not Detected at the PQL or MDL |
| PQL | Practical Quantitation Limit |
| TIC | Tentatively Identified Compounds |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level or Regulatory Level |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| H | Sample extraction/analysis holding time exceeded |
| J | Analyte detected below PQL |
| S | Spike Recovery outside accepted recovery limits |

# REI Consultants Inc.

**Date:** *24-May-05*

| | | | |
|---|---|---|---|
| **CLIENT:** | MACON COUNTY SOLID WASTE MANAG | **Lab Order:** | 0504997 |
| **Client Sample ID:** | TRIP BLANK | **Lab ID:** | 0504997-02A |
| **Project:** | MSW LANDFILL | **Collection Date:** | 4/20/2005 |
| **Site ID:** | MACON CO MSW LANDFILL/NC | **Matrix:** | LIQUID |

| Analyses | Result | Units | MDL | PQL | Qual | Date Analyzed | Analyst |
|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS** | | | **SW8260B** | | | | |
| Acetone | ND | µg/L | NA | 50.0 | | 04/27/05 4:40 PM | CS/TC |
| Acrylonitrile | ND | µg/L | NA | 25.0 | | 04/27/05 4:40 PM | CS/TC |
| Benzene | ND | µg/L | NA | 1.0 | | 04/27/05 4:40 PM | CS/TC |
| Bromochloromethane | ND | µg/L | NA | 5.0 | | 04/27/05 4:40 PM | CS/TC |
| Bromodichloromethane | ND | µg/L | NA | 1.0 | | 04/27/05 4:40 PM | CS/TC |
| Bromoform | ND | µg/L | NA | 1.0 | | 04/27/05 4:40 PM | CS/TC |
| Bromomethane | ND | µg/L | NA | 5.0 | | 04/27/05 4:40 PM | CS/TC |
| 2-Butanone | ND | µg/L | NA | 50.0 | | 04/27/05 4:40 PM | CS/TC |
| Carbon disulfide | ND | µg/L | NA | 25.0 | | 04/27/05 4:40 PM | CS/TC |
| Carbon tetrachloride | ND | µg/L | NA | 1.0 | | 04/27/05 4:40 PM | CS/TC |
| Chlorobenzene | ND | µg/L | NA | 5.0 | | 04/27/05 4:40 PM | CS/TC |
| Chloroethane | ND | µg/L | NA | 5.0 | | 04/27/05 4:40 PM | CS/TC |
| Chloroform | ND | µg/L | NA | 1.0 | | 04/27/05 4:40 PM | CS/TC |
| Chloromethane | ND | µg/L | NA | 1.0 | | 04/27/05 4:40 PM | CS/TC |
| Dibromochloromethane | ND | µg/L | NA | 5.0 | | 04/27/05 4:40 PM | CS/TC |
| 1,2-Dibromo-3-chloropropane | ND | µg/L | NA | 1.0 | | 04/27/05 4:40 PM | CS/TC |
| 1,2-Dibromoethane | ND | µg/L | NA | 1.0 | | 04/27/05 4:40 PM | CS/TC |
| Dibromomethane | ND | µg/L | NA | 5.0 | | 04/27/05 4:40 PM | CS/TC |
| 1,2-Dichlorobenzene | ND | µg/L | NA | 5.0 | | 04/27/05 4:40 PM | CS/TC |
| 1,4-Dichlorobenzene | ND | µg/L | NA | 5.0 | | 04/27/05 4:40 PM | CS/TC |
| trans-1,4-Dichloro-2-butene | ND | µg/L | NA | 50.0 | | 04/27/05 4:40 PM | CS/TC |
| 1,1-Dichloroethane | ND | µg/L | NA | 5.0 | | 04/27/05 4:40 PM | CS/TC |
| 1,2-Dichloroethane | ND | µg/L | NA | 1.0 | | 04/27/05 4:40 PM | CS/TC |
| 1,1-Dichloroethene | ND | µg/L | NA | 5.0 | | 04/27/05 4:40 PM | CS/TC |
| cis-1,2-Dichloroethene | ND | µg/L | NA | 5.0 | | 04/27/05 4:40 PM | CS/TC |
| trans-1,2-Dichloroethene | ND | µg/L | NA | 5.0 | | 04/27/05 4:40 PM | CS/TC |
| 1,2-Dichloropropane | ND | µg/L | NA | 1.0 | | 04/27/05 4:40 PM | CS/TC |
| cis-1,3-Dichloropropene | ND | µg/L | NA | 1.0 | | 04/27/05 4:40 PM | CS/TC |
| trans-1,3-Dichloropropene | ND | µg/L | NA | 1.0 | | 04/27/05 4:40 PM | CS/TC |
| Ethylbenzene | ND | µg/L | NA | 5.0 | | 04/27/05 4:40 PM | CS/TC |
| 2-Hexanone | ND | µg/L | NA | 50.0 | | 04/27/05 4:40 PM | CS/TC |
| Iodomethane | ND | µg/L | NA | 10.0 | | 04/27/05 4:40 PM | CS/TC |
| Methylene chloride | ND | µg/L | NA | 5.0 | | 04/27/05 4:40 PM | CS/TC |
| 4-Methyl-2-pentanone | ND | µg/L | NA | 50.0 | | 04/27/05 4:40 PM | CS/TC |
| Styrene | ND | µg/L | NA | 5.0 | | 04/27/05 4:40 PM | CS/TC |
| 1,1,1,2-Tetrachloroethane | ND | µg/L | NA | 5.0 | | 04/27/05 4:40 PM | CS/TC |
| 1,1,2,2-Tetrachloroethane | ND | µg/L | NA | 5.0 | | 04/27/05 4:40 PM | CS/TC |
| Tetrachloroethene | ND | µg/L | NA | 1.0 | | 04/27/05 4:40 PM | CS/TC |

**Key:**

| | |
|---|---|
| MCL | Maximum Contaminant Level |
| MDL | Minimum Detection Limit |
| NA | Not Applicable |
| ND | Not Detected at the PQL or MDL |
| PQL | Practical Quantitation Limit |
| TIC | Tentatively Identified Compounds |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level or Regulatory Level |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| H | Sample extraction/analysis holding time exceeded |
| J | Analyte detected below PQL |
| S | Spike Recovery outside accepted recovery limits |

# REI Consultants Inc.

**Date:** *24-May-05*

| | | | |
|---|---|---|---|
| **CLIENT:** | MACON COUNTY SOLID WASTE MANAG | **Lab Order:** | 0504997 |
| **Client Sample ID:** | TRIP BLANK | **Lab ID:** | 0504997-02A |
| **Project:** | MSW LANDFILL | **Collection Date:** | 4/20/2005 |
| **Site ID:** | MACON CO MSW LANDFILL/NC | **Matrix:** | LIQUID |

| Analyses | Result | Units | MDL | PQL | Qual Date Analyzed | Analyst |
|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS** | | **SW8260B** | | | | |
| Toluene | ND | µg/L | NA | 5.0 | 04/27/05 4:40 PM | CS/TC |
| 1,1,1-Trichloroethane | ND | µg/L | NA | 5.0 | 04/27/05 4:40 PM | CS/TC |
| 1,1,2-Trichloroethane | ND | µg/L | NA | 5.0 | 04/27/05 4:40 PM | CS/TC |
| Trichloroethene | ND | µg/L | NA | 1.0 | 04/27/05 4:40 PM | CS/TC |
| Trichlorofluoromethane | ND | µg/L | NA | 5.0 | 04/27/05 4:40 PM | CS/TC |
| 1,2,3-Trichloropropane | ND | µg/L | NA | 1.0 | 04/27/05 4:40 PM | CS/TC |
| Vinyl acetate | ND | µg/L | NA | 25.0 | 04/27/05 4:40 PM | CS/TC |
| Vinyl chloride | ND | µg/L | NA | 1.0 | 04/27/05 4:40 PM | CS/TC |
| o-Xylene | ND | µg/L | NA | 5.0 | 04/27/05 4:40 PM | CS/TC |
| m,p-Xylene | ND | µg/L | NA | 5.0 | 04/27/05 4:40 PM | CS/TC |
| Surr: 1,2-Dichloroethane-d4 | 98 | %REC | NA | 80-120 | 04/27/05 4:40 PM | CS/TC |
| Surr: 4-Bromofluorobenzene | 94 | %REC | NA | 86-115 | 04/27/05 4:40 PM | CS/TC |
| Surr: Dibromofluoromethane | 106 | %REC | NA | 80-120 | 04/27/05 4:40 PM | CS/TC |
| Surr: Toluene-d8 | 99 | %REC | NA | 88-110 | 04/27/05 4:40 PM | CS/TC |

**Key:**

| | |
|---|---|
| MCL | Maximum Contaminant Level |
| MDL | Minimum Detection Limit |
| NA | Not Applicable |
| ND | Not Detected at the PQL or MDL |
| PQL | Practical Quantitation Limit |
| TIC | Tentatively Identified Compounds |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level or Regulatory Level |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| H | Sample extraction/analysis holding time exceeded |
| J | Analyte detected below PQL |
| S | Spike Recovery outside accepted recovery limits |

**REI Consultants Inc.** **Date:** *24-May-05*

**CLIENT:** MACON COUNTY SOLID WASTE MANAGE **Lab Order:** 0504997
**Project:** MSW LANDFILL
**Site ID:** MACON CO MSW LANDFILL/NC

# Data Review

Approved: Ivan W. Leef - Inorganic Lab Manager 5-24-05 Date

Approved: Joseph Robertson - Organic Lab Manager 5-24-05 Date

| Key: | | | Qualifiers: | | |
|---|---|---|---|---|---|
| | MCL | Maximum Contaminant Level | | * | Value exceeds Maximum Contaminant Level or Regulatory Level |
| | MDL | Minimum Detection Limit | | B | Analyte detected in the associated Method Blank |
| | NA | Not Applicable | | E | Value above quantitation range |
| | ND | Not Detected at the PQL or MDL | | H | Sample extraction/analysis holding time exceeded |
| | PQL | Practical Quantitation Limit | | J | Analyte detected below PQL |
| | TIC | Tentatively Identified Compounds | | S | Spike Recovery outside accepted recovery limits |

REIC

REI Consultants, Inc.
225 Industrial Park Rd.
P.O. Box 286, Beaver, WV 25813
Phone: 304-255-2500 or 800-999-0105
FAX: 304-255-2572
e-mail: rlabs@reiclabs.com

# CHAIN OF CUSTODY RECORD NO. 160953

CLIENT: Macon County Dept. Swm
ADDRESS: 109 Sierra Drive
CITY/STATE/ZIP: Franklin, N.C. 28734
BILL TO: Same
CITY/STATE/ZIP:
PURCHASE ORDER #
QUOTE #

CONTACT PERSON: Chris Stahl
TELEPHONE #: 828-349-2100
FAX #: 828-349-2185
E-MAIL ADDRESS:
SITE ID & STATE: Macon Co. MSW Landfill/NC
PROJECT ID: MSW Landfill
SAMPLER: Farley/McBride/Lester

SAMPLE LOG AND ANALYSIS REQUEST

TURNAROUND TIME REQUIREMENTS
REGULAR: y
*RUSH: ___ 5-Day ___ 3-Day ___ 2-Day ___ 1-Day
*Rush work needs prior Laboratory approval and will include surcharges

PRESERVATIVES
0 No Preservative
1 Hydrochloric Acid
2 Nitric Acid
3 Sulfuric Acid
4 Sodium Thiosulfate
5 Sodium Hydroxide
6 Zinc Acetate
7 EDTA

PRESERVATIVE CODES — NOTE PRESERVATIVES →

ANALYSIS REQUESTED & METHOD: Appendix I VOC, metals + BOD, COD, Nitrates, Total phosphorus, Sulfate

| SAMPLE ID | NO. & TYPE OF CONTAINERS | SAMPLING DATE / TIME | MATRIX | SAMPLE COMP / GRAB | Appendix I VOC | metals + BOD, COD | Nitrates, Total phosphorus | Sulfate | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|
| Leachate | 8 | 4-20-05 1535 | $H_2O$ | Grab | X | X | X | X | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

| Relinquished by: (Signature) | Date/Time | Received by: (Signature) | Date/Time | Relinquished by: (Signature) | Date/Time | Received by: (Signature) | Date/Time |
|---|---|---|---|---|---|---|---|
| R Farley | 4-21-05 1000 | | | | | | |
| Relinquished by: (Signature) | Date/Time | Received by: (Signature) | 4-21-05 1000 Date/Time | Temperature Upon Arrival 2.5 °C | ☐ FAX Results | ☐ Email Results | |

# CHAIN OF CUSTODY RECORD NO. 160954

REIC

REI Consultants, Inc.
225 Industrial Park Rd.
P.O. Box 286, Beaver, WV 25813
Phone: 304-255-2500 or 800-999-0105
FAX: 304-255-2572
e-mail: rlabs@reiclabs.com

CLIENT: Macon County Dept. Swm
ADDRESS: 109 Sierra Drive
CITY/STATE/ZIP: Franklin NC 28734
BILL TO: Same
CITY/STATE/ZIP:
PURCHASE ORDER #
QUOTE #

CONTACT PERSON: Chris Stahl
TELEPHONE #: (828) 349-2100
FAX #: (828) 349-2185
E-MAIL ADDRESS:
SITE ID & STATE: Macon Co. N.C.
PROJECT ID: MSW Landfill
SAMPLER: Farley / McBride / Lester

SAMPLE LOG AND ANALYSIS REQUEST

TURNAROUND TIME REQUIREMENTS
REGULAR: ✓
*RUSH: ___ 5-Day ___ 3-Day ___ 2-Day ___ 1-Day
*Rush work needs prior Laboratory approval and will include surcharges

PRESERVATIVES
0 No Preservative
1 Hydrochloric Acid
2 Nitric Acid
3 Sulfuric Acid
4 Sodium Thiosulfate
5 Sodium Hydroxide
6 Zinc Acetate
7 EDTA

PRESERVATIVE CODES — NOTE PRESERVATIVES →

ANALYSIS REQUESTED & METHOD: N.C. Appendix I * ; TSS

| SAMPLE ID | NO. & TYPE OF CONTAINERS | SAMPLING DATE / TIME | MATRIX | SAMPLE COMP / GRAB | N.C. Appendix I * | TSS | COMMENTS |
|---|---|---|---|---|---|---|---|
| MW-1A | 6 | 4-19-05 1113 | $H_2O$ | Grab | X | X | * Run Diss metals on totals showing hits |
| MW-1B | ↓ | 1127 | ↓ | ↓ | ↓ | ↓ | |
| MW-2 | ↓ | 1153 | ↓ | ↓ | ↓ | ↓ | |
| MW-3A | ↓ | 1613 | ↓ | ↓ | ↓ | ↓ | |
| MW-10 | ↓ | 1538 | ↓ | ↓ | ↓ | ↓ | |
| MW-14 | ↓ | 1236 | ↓ | ↓ | ↓ | ↓ | |
| MW-15 | ↓ | 1310 | ↓ | ↓ | ↓ | ↓ | |
| MW-17 | ↓ | 1440 | ↓ | ↓ | ↓ | ↓ | |
| MW-18 | ↓ | 1513 | ↓ | ↓ | ↓ | ↓ | |
| MW-19 | ↓ | 0800 | ↓ | ↓ | ↓ | ↓ | |

| Relinquished by: (Signature) | Date/Time | Received by: (Signature) | Date/Time | Relinquished by: (Signature) | Date/Time | Received by: (Signature) | Date/Time |
|---|---|---|---|---|---|---|---|
| R Farley | 4-21-05 1000 | | | | | | |
| Relinquished by: (Signature) | Date/Time | Received by: (Signature) | Date/Time | Temperature Upon Arrival 3.5 °C | ☐ FAX Results | ☐ Email Results | |

REIC

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225 Industrial Park Rd.
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Phone: 304-255-2500 or 800-999-0105
FAX: 304-255-2572
e-mail: rlabs@reiclabs.com

# CHAIN OF CUSTODY RECORD

NO. 160961

CLIENT: Macon County Dept. SWM
ADDRESS: 109 Sierra Drive
CITY/STATE/ZIP: Franklin N.C 28734
BILL TO: Same
CITY/STATE/ZIP:
PURCHASE ORDER #
QUOTE #

CONTACT PERSON: Chris Stahl
TELEPHONE #: 828-349-2100
FAX #: 828-349-2185
E-MAIL ADDRESS:
SITE ID & STATE: Macon Co. N.C
PROJECT ID: MSW LandFill
SAMPLER: Farley/McBride/Lester

SAMPLE LOG AND ANALYSIS REQUEST

TURNAROUND TIME REQUIREMENTS
REGULAR: X
*RUSH: ___ 5-Day ___ 3-Day ___ 2-Day ___ 1-Day
*Rush work needs prior Laboratory approval and will include surcharges

PRESERVATIVES
0 No Preservative
1 Hydrochloric Acid
2 Nitric Acid
3 Sulfuric Acid
4 Sodium Thiosulfate
5 Sodium Hydroxide
6 Zinc Acetate
7 EDTA

PRESERVATIVE CODES — NOTE PRESERVATIVES →

ANALYSIS REQUESTED & METHOD: N.C Appendix I* ; TSS

| SAMPLE ID | NO. & TYPE OF CONTAINERS | SAMPLING DATE / TIME | MATRIX | SAMPLE COMP / GRAB | N.C Appendix I* | TSS | COMMENTS |
|---|---|---|---|---|---|---|---|
| MW-19A | 6 | 4-19-05 1635 | H20 | Grab | X | X | * Run Dis metals on total metals showing hits |
| MW-20 | | 0903 | | | | | |
| MW-21 | | 0929 | | | | | |
| MW-22 | | 1030 | | | | | |
| MW-22A | | 1044 | | | | | |
| SW-1 | | 4-20-05 0655 | | | | | |
| SW-2 | | 0720 | | | | | |
| SW-3 | | 4-19-05 1650 | | | | | |
| SW-4 | | 1715 | | | | | |

| Relinquished by: (Signature) | Date/Time | Received by: (Signature) | Date/Time | Relinquished by: (Signature) | Date/Time | Received by: (Signature) | Date/Time |
|---|---|---|---|---|---|---|---|
| R Farley | 4-22-05 1000 | | | | | | |
| Relinquished by: (Signature) | Date/Time | Received by: (Signature) | 4-21-05 1000 Date/Time | Temperature Upon Arrival °C | | | |

☐ FAX Results ☐ Email Results

# CHAIN OF CUSTODY RECORD NO. 160957

REIC

REI Consultants, Inc.
225 Industrial Park Rd.
P.O. Box 286, Beaver, WV 25813
Phone: 304-255-2500 or 800-999-0105
FAX: 304-255-2572
e-mail: rlabs@reiclabs.com

CLIENT: Macon Co Dept Swm
ADDRESS: 109 Sierra Drive
CITY/STATE/ZIP: Franklin NC, 28734
BILL TO: Same
CITY/STATE/ZIP:
PURCHASE ORDER #
QUOTE #

CONTACT PERSON: Chris Stahl
TELEPHONE #: 828-349-2100
FAX #: 828-349-2185
E-MAIL ADDRESS:
SITE ID & STATE: Macon Co MSW
PROJECT ID: MSW Landfill
SAMPLER: Farley/McBride/Lester

SAMPLE LOG AND ANALYSIS REQUEST

TURNAROUND TIME REQUIREMENTS
REGULAR: ✓
*RUSH: ___ 5-Day ___ 3-Day ___ 2-Day ___ 1-Day
*Rush work needs prior Laboratory approval and will include surcharges

PRESERVATIVES
0 No Preservative
1 Hydrochloric Acid
2 Nitric Acid
3 Sulfuric Acid
4 Sodium Thiosulfate
5 Sodium Hydroxide
6 Zinc Acetate
7 EDTA

PRESERVATIVE CODES — NOTE PRESERVATIVES →

ANALYSIS REQUESTED & METHOD

| SAMPLE ID | NO. & TYPE OF CONTAINERS | SAMPLING DATE / TIME | MATRIX | SAMPLE COMP / GRAB | NC Appendix I * | TSS | NC Appendix I Vol | COMMENTS |
|---|---|---|---|---|---|---|---|---|
| MW-17 Dupe | 18 | 1440 | $H_2O$ | Grab | X | X | | |
| MW-22A Dupe | 1 | 1044 | 1 | 1 | 1 | 1 | | |
| Trip Blank #2 | 2-VOA | | 1 | 1 | | X | | |

| Relinquished by: (Signature) | Date/Time | Received by: (Signature) | Date/Time | Relinquished by: (Signature) | Date/Time | Received by: (Signature) | Date/Time |
|---|---|---|---|---|---|---|---|
| R Farley | 4-21-05 1000 | | | | | | |
| Relinquished by: (Signature) | Date/Time | Received by: (Signature) | 4/21-05 1400 Date/Time | Temperature Upon Arrival 3.5 °C | ☐ FAX Results | ☐ Email Results | |

# *Appendix D*

*Historical Laboratory Results*

| Well | Date | Antimony | Arsenic | Barium | Beryllium | Cadmium | Chromium | Copper | Cobalt |
|---|---|---|---|---|---|---|---|---|---|
| MW-10 | Oct-99 | 0.0150 | 0.0050 | 0.673 | 0.001 | 0.0005 | 0.040 | 0.100 | 0.005 |
| MW-10 | Apr-00 | 0.0150 | 0.0050 | 0.652 | 0.001 | 0.0005 | 0.031 | 0.100 | 0.005 |
| MW-10 | Oct-00 | 0.0150 | 0.018 | 0.750 | 0.001 | 0.0005 | 0.026 | 0.100 | 0.016 |
| MW-10 | Apr-01 | 0.0150 | 0.0050 | 0.790 | 0.001 | 0.0005 | 0.024 | 0.100 | 0.015 |
| MW-10 | Oct-01 | 0.0150 | 0.0050 | 0.570 | 0.001 | 0.0005 | 0.005 | 0.100 | 0.011 |
| MW-10 | Apr-03 | 0.0150 | 0.0050 | 1.30 | 0.001 | 0.0005 | 0.100 | 0.100 | 0.042 |
| MW-10 | Oct-03 | 0.0150 | 0.0050 | 0.250 | 0.001 | 0.0005 | 0.005 | 0.100 | 0.005 |
| MW-10 | Apr-04 | 0.0150 | 0.0050 | 0.250 | 0.001 | 0.0005 | 0.005 | 0.100 | 0.005 |
| MW-17 | Oct-99 | 0.0150 | 0.0050 | 0.250 | 0.001 | 0.0005 | 0.017 | 0.100 | 0.005 |
| MW-17 | Apr-00 | 0.0150 | 0.0050 | 0.250 | 0.001 | 0.0005 | 0.025 | 0.100 | 0.005 |
| MW-17 | Oct-00 | 0.0150 | 0.0050 | 0.250 | 0.001 | 0.0005 | 0.011 | 0.100 | 0.005 |
| MW-17 | Apr-01 | 0.0150 | 0.0050 | 0.250 | 0.001 | 0.0005 | 0.025 | 0.100 | 0.005 |
| MW-17 | Oct-01 | 0.0150 | 0.0050 | 0.250 | 0.001 | 0.0005 | 0.031 | 0.100 | 0.018 |
| MW-17 | Apr-03 | 0.0150 | 0.0050 | 0.670 | 0.001 | 0.0005 | 0.140 | 0.100 | 0.056 |
| MW-17 | Oct-03 | 0.0150 | 0.0050 | 0.250 | 0.001 | 0.0005 | 0.005 | 0.100 | 0.011 |
| MW-17 | Apr-04 | 0.0150 | 0.0050 | 0.250 | 0.001 | 0.0039 | 0.065 | 0.100 | 0.026 |
| MW-18 | Oct-99 | 0.0150 | 0.0050 | 0.250 | 0.001 | 0.0005 | 0.013 | 0.100 | 0.005 |
| MW-18 | Apr-00 | 0.0150 | 0.0050 | 0.250 | 0.001 | 0.0005 | 0.005 | 0.100 | 0.022 |
| MW-18 | Oct-00 | 0.0150 | 0.0050 | 0.250 | 0.001 | 0.0005 | 0.005 | 0.100 | 0.005 |
| MW-18 | Apr-01 | 0.0150 | 0.0050 | 0.250 | 0.001 | 0.0005 | 0.005 | 0.100 | 0.005 |
| MW-18 | Oct-01 | 0.0150 | 0.0050 | 0.250 | 0.001 | 0.0005 | 0.005 | | 0.005 |
| MW-18 | Apr-03 | 0.0150 | 0.0050 | 0.250 | 0.001 | 0.0005 | 0.011 | 0.100 | 0.005 |
| MW-18 | Oct-03 | 0.0150 | 0.0050 | 0.250 | 0.001 | 0.0005 | 0.005 | 0.100 | 0.005 |
| MW-18 | Apr-04 | 0.0150 | 0.0050 | 0.620 | 0.001 | 0.0018 | 0.048 | 0.100 | 0.014 |
| MW-10 | Dec-04 | 0.0150 | 0.0050 | 0.766 | 0.001 | 0.0005 | 0.005 | 0.100 | 0.0118 |
| MW-17 | Dec-04 | 0.0150 | 0.0050 | 0.250 | 0.001 | 0.0005 | 0.0286 | 0.100 | 0.0133 |
| MW-18 | Dec-04 | 0.0150 | 0.0050 | 0.250 | 0.001 | 0.0005 | 0.0190 | 0.100 | 0.005 |
| MW-10 | Apr-05 | 0.0150 | 0.0050 | 0.250 | 0.001 | 0.0005 | 0.005 | 0.100 | 0.005 |
| MW-17 | Apr-05 | 0.0150 | 0.0050 | 0.250 | 0.001 | 0.0005 | 0.0230 | 0.100 | 0.0125 |
| MW-18 | Apr-05 | 0.0150 | 0.0050 | 0.250 | 0.001 | 0.0005 | 0.0147 | 0.100 | 0.005 |
| | PQL | 0.030 | 0.010 | 0.500 | 0.002 | 0.001 | 0.010 | 0.200 | 0.010 |
| | # Obs. | 30 | 30 | 30 | 30 | 30 | 30 | 29 | 30 |
| | # NDs | 30 | 29 | 21 | 30 | 28 | 11 | 29 | 17 |
| | % NDs | 100% | 97% | 70% | 100% | 93% | 37% | 100% | 57% |
| | Method | Nonparametric | Nonparametric | Nonparametric | Nonparametric | Nonparametric | Adjustment | Nonparametric | Nonparametric |
| | Limit | 0.030 | 0.018 | 1.30 | 0.002 | 0.0039 | 0.124 | 0.200 | 0.056 |

| Well | Date | Lead | Nickel | Selenium | Vanadium | Zinc | Carbon Disulfide | cis-1,2-Dichloroethene |
|---|---|---|---|---|---|---|---|---|
| MW-10 | Oct-99 | 0.005 | 0.025 | 0.010 | 0.070 | 0.120 | 0.005 | 0.0025 |
| MW-10 | Apr-00 | 0.005 | 0.025 | 0.010 | 0.055 | 0.086 | 0.005 | 0.0025 |
| MW-10 | Oct-00 | 0.005 | 0.025 | 0.010 | 0.020 | 0.064 | 0.005 | 0.0025 |
| MW-10 | Apr-01 | 0.011 | 0.025 | 0.010 | 0.020 | 0.025 | 0.005 | 0.0025 |
| MW-10 | Oct-01 | 0.022 | 0.025 | 0.010 | 0.020 | 0.025 | 0.005 | 0.0025 |
| MW-10 | Apr-03 | 0.029 | 0.025 | 0.010 | 0.020 | 0.26 | 0.005 | 0.0025 |
| MW-10 | Oct-03 | 0.005 | 0.025 | 0.010 | 0.020 | 0.025 | 0.005 | 0.0025 |
| MW-10 | Apr-04 | 0.005 | 0.025 | 0.010 | 0.020 | 0.025 | 0.005 | 0.0059 |
| MW-17 | Oct-99 | 0.005 | 0.025 | 0.010 | 0.020 | 0.065 | 0.005 | 0.0025 |
| MW-17 | Apr-00 | 0.005 | 0.025 | 0.010 | 0.020 | 0.061 | 0.005 | 0.0025 |
| MW-17 | Oct-00 | 0.005 | 0.025 | 0.010 | 0.020 | 0.025 | 0.005 | 0.0025 |
| MW-17 | Apr-01 | 0.018 | 0.025 | 0.010 | 0.020 | 0.071 | 0.005 | 0.0025 |
| MW-17 | Oct-01 | 0.020 | 0.025 | 0.010 | 0.020 | 0.140 | 0.005 | 0.0025 |
| MW-17 | Apr-03 | 0.044 | 0.025 | 0.010 | 0.180 | 0.260 | 0.005 | 0.0025 |
| MW-17 | Oct-03 | 0.005 | 0.025 | 0.010 | 0.020 | 0.025 | 0.005 | 0.0025 |
| MW-17 | Apr-04 | 0.024 | 0.025 | 0.010 | 0.020 | 0.100 | 0.005 | 0.0025 |
| MW-18 | Oct-99 | 0.005 | 0.025 | 0.010 | 0.020 | 0.050 | 0.005 | 0.0025 |
| MW-18 | Apr-00 | 0.005 | 0.025 | 0.010 | 0.020 | 0.025 | 0.0035 | 0.0025 |
| MW-18 | Oct-00 | 0.005 | 0.025 | 0.010 | 0.020 | 0.025 | 0.005 | 0.0025 |
| MW-18 | Apr-01 | 0.005 | 0.025 | 0.010 | 0.020 | 0.071 | 0.005 | 0.0025 |
| MW-18 | Oct-01 | 0.014 | 0.025 | 0.010 | 0.020 | 0.025 | 0.005 | 0.0025 |
| MW-18 | Apr-03 | 0.005 | 0.025 | 0.010 | 0.020 | 0.025 | 0.005 | 0.0025 |
| MW-18 | Oct-03 | 0.005 | 0.025 | 0.010 | 0.020 | 0.025 | 0.005 | 0.0025 |
| MW-18 | Apr-04 | 0.016 | 0.025 | 0.010 | 0.057 | 0.082 | 0.005 | 0.0025 |
| MW-10 | Dec-04 | 0.005 | 0.025 | 0.010 | 0.020 | 0.025 | 0.005 | 0.0025 |
| MW-17 | Dec-04 | 0.0122 | 0.025 | 0.010 | 0.020 | 0.0848 | 0.005 | 0.0025 |
| MW-18 | Dec-04 | 0.005 | 0.025 | 0.010 | 0.020 | 0.025 | 0.005 | 0.0025 |
| MW-10 | Apr-05 | 0.005 | 0.025 | 0.010 | 0.020 | 0.025 | 0.005 | 0.0025 |
| MW-17 | Apr-05 | 0.005 | 0.025 | 0.010 | 0.020 | 0.0556 | 0.005 | 0.0025 |
| MW-18 | Apr-05 | 0.005 | 0.025 | 0.010 | 0.020 | 0.025 | 0.005 | 0.0025 |
| | PQL | 0.010 | 0.050 | 0.020 | 0.040 | 0.050 | 0.010 | 0.005 |
| | # Obs. | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| | # NDs | 20 | 30 | 30 | 26 | 15 | 29 | 29 |
| | % NDs | 67% | 100% | 100% | 87% | 50% | 97% | 97% |
| | Method | Nonparametric | Nonparametric | Nonparametric | Nonparametric | Nonparametric | Nonparametric | Nonparametric |
| | Limit | 0.044 | 0.050 | 0.020 | 0.180 | 0.260 | 0.010 | 0.006 |

| **0.05** | | k | |
|---|---|---|---|
| n | 10 | 12 | 15 |
| 28 | 1.61 | 1.66 | 1.73 |
| 30 | | **1.65** | |
| 32 | 1.59 | 1.64 | 1.71 |

| **0.005** | | k | |
|---|---|---|---|
| n | 10 | 12 | 15 |
| 28 | 2.29 | 2.33 | 2.40 |
| 30 | | **2.31** | |
| 32 | 2.25 | 2.29 | 2.36 |

| **0.0025** | | k | |
|---|---|---|---|
| n | 10 | 12 | 15 |
| 28 | 2.49 | 2.53 | 2.60 |
| 30 | | **2.51** | |
| 32 | 2.44 | 2.48 | 2.54 |

| # const. | alpha | ln(alpha) | K |
|---|---|---|---|
| 1 | 0.05 | -2.995732 | 1.65 |
| 10 | 0.005 | -5.298317 | 2.31 |
| 20 | 0.0025 | -5.991465 | 2.51 |
| 26 | 0.00192 | -6.25543 | **2.58** |

**K= 2.58**

30 background measurements
12 compliance wells
26 constituents for which statistical comparisons are made:

1,1-Dichloroethane
1,4-Dichlorobenzene
Acetone
Antimony
Arsenic
Barium
Benzene
Beryllium
Cadmium
Carbon Disulfide
Chlorobenzene
Chloroethane
Chromium
cis-1,2-Dichloroethane
Cobalt
Copper
Ethylbenzene
Lead
Methylene Chloride
Nickel
Selenium
Thallium
Vanadium
Vinyl Chloride
Xylenes, Total
Zinc

| Chromium | i | ln(conc) |
|---|---|---|
| 0.005 | | |
| 0.005 | | |
| 0.005 | | |
| 0.005 | | |
| 0.005 | | |
| 0.005 | | |
| 0.005 | | |
| 0.005 | | |
| 0.005 | | |
| 0.005 | | |
| 0.005 | | |
| 0.011 | 1 | -4.510 |
| 0.011 | 2 | -4.510 |
| 0.013 | 3 | -4.343 |
| 0.0147 | 4 | -4.220 |
| 0.017 | 5 | -4.075 |
| 0.0190 | 6 | -3.963 |
| 0.0230 | 7 | -3.772 |
| 0.024 | 8 | -3.730 |
| 0.025 | 9 | -3.689 |
| 0.025 | 10 | -3.689 |
| 0.026 | 11 | -3.650 |
| 0.0286 | 12 | -3.554 |
| 0.031 | 13 | -3.474 |
| 0.031 | 14 | -3.474 |
| 0.040 | 15 | -3.219 |
| 0.048 | 16 | -3.037 |
| 0.065 | 17 | -2.733 |
| 0.100 | 18 | -2.303 |
| 0.140 | 19 | -1.966 |

| $x_i$ | $x_{n-i+1}$ | $x_{n-i+1}-x_i$ | $a_{n-i+1}$ | $b_i$ |
|---|---|---|---|---|
| 0.011 | 0.140 | 0.13 | 0.4808 | 0.0620 |
| 0.011 | 0.100 | 0.09 | 0.3232 | 0.0288 |
| 0.013 | 0.065 | 0.05 | 0.2561 | 0.0133 |
| 0.0147 | 0.048 | 0.03 | 0.2059 | 0.0069 |
| 0.017 | 0.040 | 0.02 | 0.1641 | 0.0038 |
| 0.0190 | 0.031 | 0.01 | 0.1271 | 0.0015 |
| 0.0230 | 0.031 | 0.01 | 0.0932 | 0.0007 |
| 0.024 | 0.0286 | 0.00 | 0.0612 | 0.0003 |
| 0.025 | 0.026 | 0.00 | 0.0303 | 0.0000 |
| 0.025 | 0.025 | 0.00 | | |
| 0.026 | 0.025 | 0.00 | | 0.1173 |
| 0.0286 | 0.024 | 0.00 | | |
| 0.031 | 0.0230 | -0.01 | | |
| 0.031 | 0.0190 | -0.01 | | |
| 0.040 | 0.017 | -0.02 | | |
| 0.048 | 0.0147 | -0.03 | | |
| 0.065 | 0.013 | -0.05 | | |
| 0.100 | 0.011 | -0.09 | | |

| | | |
|---|---|---|
| 0.140 | 0.011 | -0.13 |

S.D. 0.033
W 0.704 less than 0.863, normal assumption rejected

| $y_i$ | $y_{n-i+1}$ | $y_{n-i+1}-y_i$ | $a_{n-i+1}$ | $b_i$ |
|---|---|---|---|---|
| -4.510 | -1.966 | 2.54 | 0.4808 | 1.2230 |
| -4.510 | -2.303 | 2.21 | 0.3232 | 0.7134 |
| -4.343 | -2.733 | 1.61 | 0.2561 | 0.4122 |
| -4.220 | -3.037 | 1.18 | 0.2059 | 0.2437 |
| -4.075 | -3.219 | 0.86 | 0.1641 | 0.1404 |
| -3.963 | -3.474 | 0.49 | 0.1271 | 0.0622 |
| -3.772 | -3.474 | 0.30 | 0.0932 | 0.0278 |
| -3.730 | -3.554 | 0.18 | 0.0612 | 0.0107 |
| -3.689 | -3.650 | 0.04 | 0.0303 | 0.0012 |
| -3.689 | -3.689 | 0.00 | | |
| -3.650 | -3.689 | -0.04 | | 2.8346 |
| -3.554 | -3.730 | -0.18 | | |
| -3.474 | -3.772 | -0.30 | | |
| -3.474 | -3.963 | -0.49 | | |
| -3.219 | -4.075 | -0.86 | | |
| -3.037 | -4.220 | -1.18 | | |
| -2.733 | -4.343 | -1.61 | | |
| -2.303 | -4.510 | -2.21 | | |
| -1.966 | -4.510 | -2.54 | | |

S.D. 0.691
W 0.934 greater than 0.863, lognormal assumption not rejected

Cohen's Adjustment - Lognormal Distribution

| | |
|---|---|
| Mean (above detection) | -3.574 |
| S.D. (above detection) | 0.691 |
| h | 0.3667 |
| gamma | 0.4496 |
| lambda | 0.6263 |
| Corrected Mean | -4.220 |
| Corrected S.D. | 1.069 |
| Mean | 0.026 |
| S.D. | 0.038 |
| K | 2.58 |
| Prediction Limit | 0.124 |

| Zinc | i | ln(conc) |
|---|---|---|
| 0.025 | | |
| 0.025 | | |
| 0.025 | | |
| 0.025 | | |
| 0.025 | | |
| 0.025 | | |
| 0.025 | | |
| 0.025 | | |
| 0.025 | | |
| 0.025 | | |
| 0.025 | | |
| 0.025 | | |
| 0.025 | | |
| 0.050 | 1 | -2.996 |
| 0.061 | 2 | -2.797 |
| 0.064 | 3 | -2.749 |
| 0.065 | 4 | -2.733 |
| 0.071 | 5 | -2.645 |
| 0.071 | 6 | -2.645 |
| 0.082 | 7 | -2.501 |
| 0.0848 | 8 | -2.467 |
| 0.086 | 9 | -2.453 |
| 0.100 | 10 | -2.303 |
| 0.120 | 11 | -2.120 |
| 0.140 | 12 | -1.966 |
| 0.260 | 13 | -1.347 |
| 0.260 | 14 | -1.347 |

| $x_i$ | $x_{n-i+1}$ | $x_{n-i+1}-x_i$ | $a_{n-i+1}$ | $b_i$ |
|---|---|---|---|---|
| 0.050 | 0.260 | 0.21 | 0.5251 | 0.1103 |
| 0.061 | 0.260 | 0.20 | 0.3318 | 0.0660 |
| 0.064 | 0.140 | 0.08 | 0.2460 | 0.0187 |
| 0.065 | 0.120 | 0.06 | 0.1802 | 0.0099 |
| 0.071 | 0.100 | 0.03 | 0.1240 | 0.0036 |
| 0.071 | 0.086 | 0.02 | 0.0727 | 0.0011 |
| 0.082 | 0.0848 | 0.00 | 0.0240 | 0.0001 |
| 0.0848 | 0.082 | 0.00 | | |
| 0.086 | 0.071 | -0.02 | | 0.2097 |
| 0.100 | 0.071 | -0.03 | | |
| 0.120 | 0.065 | -0.06 | | |
| 0.140 | 0.064 | -0.08 | | |
| 0.260 | 0.061 | -0.20 | | |
| 0.260 | 0.050 | -0.21 | | |

S.D. 0.069

W 0.718 less than 0.825, normal assumption rejected

| $y_i$ | $y_{n-i+1}$ | $y_{n-i+1}-y_i$ | $a_{n-i+1}$ | $b_i$ |
|---|---|---|---|---|
| -2.996 | -1.347 | 1.65 | 0.5251 | 0.8657 |
| -2.797 | -1.347 | 1.45 | 0.3318 | 0.4810 |
| -2.749 | -1.966 | 0.78 | 0.2460 | 0.1926 |
| -2.733 | -2.120 | 0.61 | 0.1802 | 0.1105 |
| -2.645 | -2.303 | 0.34 | 0.1240 | 0.0425 |
| -2.645 | -2.453 | 0.19 | 0.0727 | 0.0139 |
| -2.501 | -2.467 | 0.03 | 0.0240 | 0.0008 |
| -2.467 | -2.501 | -0.03 | | |
| -2.453 | -2.645 | -0.19 | | 1.7070 |
| -2.303 | -2.645 | -0.34 | | |
| -2.120 | -2.733 | -0.61 | | |
| -1.966 | -2.749 | -0.78 | | |
| -1.347 | -2.797 | -1.45 | | |
| -1.347 | -2.996 | -1.65 | | |

| | | |
|---|---|---|
| S.D. | 0.508 | |
| W | 0.868 | greater than 0.825, lognormal assumption not rejected |

Cohen's Adjustment - Lognormal Distribution

| | |
|---|---|
| Mean (above detection) | -2.362 |
| S.D. (above detection) | 0.508 |
| h | 0.4815 |
| gamma | 0.6431 |
| lambda | 0.9633 |
| Corrected Mean | -2.972 |
| Corrected S.D. | 0.803 |
| Mean | 0.071 |
| S.D. | 0.067 |
| K | 2.58 |
| Prediction Limit | 0.244 |