ATTACHMENT 1

Louisiana Energy Services
Response to April 29, 2004,
Request for Additional Information

Louisiana Energy Services (LES)
Responses to April 29, 2004
Requests for Additional Information

SECTION 1 – INTRODUCTION

Pursuant to 10 CFR 51.45(d), the ER is required to list all the Federal permits, licenses, approvals or other entitlements which must be obtained in connection with the proposed action.

1-1 Permits, Licenses, and Approvals:

A. Provide an update on the status of required permits, licenses and approvals, if available, for the construction and operation of the proposed National Enrichment Facility (NEF). For example, identify any specific air quality permits required by the State of New Mexico. Provide the bases for each such permits.

B. Identify any applicable New Mexico regulations, permits, licenses, or approvals that would be required because of the State Land Swap Arrangement.

- Section 1.2.1 states that the proposed NEF site is currently owned by the State of New Mexico and is being acquired by Louisiana Energy Services (LES) through a State Land Swap Arrangement.

C. Verify that the proposed septic tanks and leach fields would comply with applicable permits, licenses or approvals.

LES Response

A. The following is a status update of those permits required for the NEF. LES will incorporate this update of the status of the required permits, licenses, and approvals in the next revision to the NEF Environmental Report (ER).

National Pollutant Discharge Elimination System (NPDES) Industrial Storm Water Permit

The NEF is eligible to claim the "No Exposure" exclusion for industrial activity of the NPDES storm water Phase II regulations. As such, LES could submit a No Exposure Certification immediately prior to initiating operational activities at the NEF site.

LES also has the option of filing for coverage under the Multi-Sector General Permit (MSGP) because the NEF is one of the 11 eligible industry categories. If this option is chosen, LES will file a Notice of Intent (NOI) with the US Environmental Protection Agency (EPA), Washington, D.C., at least two days prior to the initiation of NEF operations.

A decision regarding which option is appropriate for the NEF will be made in the near term and reflected in a revision to the ER.

NPDES Construction Storm Water Permit

The LES will file for coverage under the NPDES Construction General Permit (CGP). LES will develop a Storm Water Pollution Prevention Plan (SWPPP) and file a Notice of

Intent (NOI) with the US EPA, Washington, D.C., at least two days prior to the commencement of construction activities.

Development of the SWPPP or submittal of the NOI has not yet been completed because it is too early in the regulatory process.

US Army Corp of Engineers Section 404 Permit

By letter dated March 17, 2004, provided as Attachment 4 to this submittal, the US Army Corp of Engineers has notified LES of its determination that there are no jurisdictional waters at the NEF site. Therefore, a Section 404 Permit is not required.

New Mexico Section 401 Permit

The State of New Mexico and the US Army Corp of Engineers have a cooperative agreement between them. Because jurisdictional waters were not identified at the site, a Section 401 Permit is not required.

New Mexico Air Permit

The NEF does not emit levels of air emissions that meet the conditions under New Mexico regulation 20.2.70 NMAC (New Mexico Administrative Code), Operating Permits, which would require an air quality operating permit. The NEF will have emissions for non-exempt equipment below ten (10) pounds per hour and less than twenty-five (25) tons per year of any regulated air contaminant for which there are national or state standards, the threshold limits for which a construction permit would be required. Even though below the threshold limits, LES has prepared and filed a Notice of Intent (NOI) with the New Mexico Air Quality Bureau. The NOI is presently being reviewed by the bureau.

National Emission Standards for Hazardous Air Pollutants (NESHAPs)

The NEF is not subject to any of the standards established by the Clean Air Act for National Emission Standards for Hazardous Air Pollutants (NESHAPs). NEF emission of any hazardous air pollutant is below the regulatory limit. This is also the case under New Mexico regulation 20.2.78 NMAC, Emission Standards for Hazardous Air Pollutants, which has adopted the federal EPA standards by reference.

New Mexico Ground Water Discharge Permit/Plan

LES has prepared and submitted to the New Mexico Water Quality Bureau (NMWQB) a Ground Water Discharge Permit/Plan application for the NEF site. The application includes the NEF septic tanks and leachfields as part of 20.6.2.5000 NMAC, Underground Injection Control. The application is presently undergoing NMWQB review.

New Mexico Hazardous Waste Permit

The State of New Mexico adopted Resource Conservation Recovery Act laws by reference as state hazardous waste regulations under 20.4.1 NMAC, Hazardous Waste Management. LES will be required to file a US EPA Form 8700-12, Notification of Regulated Waste Activity, prior to the generation of materials meeting hazardous waste

criteria. The NEF will be classified as a Small Quantity Generator and, therefore, will not require a hazardous waste permit. The notification has not yet been filed because it is too early in the regulatory process.

EPA Waste Activity EPA Identification (i.e., ID) Number

This ID number is received after filing the Notification of Regulated Waste Activity (US EPA Form 8700-12) discussed in the New Mexico Hazardous Waste Permit above.

Machine-Produced Radiation Registration

By letter dated April 13, 2004, provided as Attachment 5 to this submittal, LES has notified the State of New Mexico Radiation Control Bureau that they will register NEF X-Ray equipment prior to use. However, the equipment specifications are not available at this time. Therefore, this registration will occur at a future date.

Rare, Threatened and Endangered Species Survey Permit

No permit is required to conduct rare, threatened and endangered species surveys unless the survey is on Bureau of Land Management lands. The initial survey has been completed for the Lesser Prairie Chicken and the results of the confirmatory survey are being provided to the State of New Mexico, the US Fish and Wildlife Service, and the NRC. The initial survey for the Sand Dune Lizard was performed in October 2003 and was submitted to the State of New Mexico, the US Fish and Wildlife Service, and the NRC. A confirmatory survey for the Sand Dune Lizard will be completed during the summer of 2004 and the results provided to the State of New Mexico, the US Fish and Wildlife Service, and the NRC.

Right-of Entry Permit

The New Mexico State Land Office (NMSLO) issues a right-of-way permit for trespass on state lands. This permit has been obtained by LES.

Class III Cultural Survey Permit

The permit is issued by the New Mexico State Historic Preservation Officer (SHPO) and has been obtained by the cultural resources contractor.

B. The New Mexico State Land Office (NMSLO) land exchange procedures require that an environmental assessment (EA) and a cultural resources survey be conducted on lands offered for exchange. Currently, LES is evaluating different candidate properties by applying the criteria in the land exchange procedures. Once a decision has been made on which piece or pieces of land will be offered in exchange, LES will purchase the properties and then convey them to Lea County for re-conveyance to the NMSLO. The EA and cultural resources survey reports will be submitted by Lea County to the NMSLO as part of the exchange package.

C. The proposed septic tanks and leachfields comply with the definition of 20.6.2.5000 NMAC, Underground Injection Control, and are included in the ground water discharge permit application that was filed with the State of New Mexico Environment Department (NMED) Ground Water Quality Bureau by LES. The ground water discharge permit

application is presently under review by NMED. The ground water discharge permit is the only state permit required for a septic tank and leachfield system with a discharge greater than 7,571 liters per day (2,000 gallons per day). There are no permits required from the community of Eunice because the septic tanks and leachfields are located outside of city zoning limits. Lea County, New Mexico, does not have a formal zoning and planning department and does not issue permits for septic systems. Lea County defers their authority to the State of New Mexico for permitting septic systems.

SECTION 2 – ALTERNATIVES

Pursuant to 10 CFR 51.45(b), the ER is required to contain a description of the proposed action and 10 CFR 51.45(b)(3) requires that the ER discuss the alternatives to the proposed action. The discussion of each alternative, including the proposed action, should be sufficiently complete to assist the NRC staff in developing and exploring appropriate alternatives.

2-1 Carbon Dioxide Line:

Provide a map or a figure to show the current CO_2 line location through the proposed NEF.

- Sections 2.1.2.1, 2.1.2.5, 4.1.1, and 4.1.2. state that the Trinity Pipeline, LLC, 10-in diameter, 2000 psi, underground CO_2 pipeline traverses southwest to northwest across the proposed NEF and would be re-routed but no maps show the current location of the pipeline.

LES Response

The current location of the CO_2 pipeline is provided on Figure ER RAI 2-1, "Location of Current CO_2 Line," in Attachment 3 to this submittal. As shown in this figure and stated in ER Sections 2.1.2.1 and 2.1.2.5, the pipeline runs southeast-northwest, across the NEF site.

2-2 Septic Tanks and Leach Fields:

Provide a detailed description of the septic tanks and leach fields.

- Section 2.1.2.5 states "three septic tanks with a common leach field will be installed onsite." Sections 3.12.1.3.4 and 4.4.7 discuss the effluent discharge systems.

LES Response

The design approach for disposal of sanitary wastes has been modified since the submittal of the ER. LES will incorporate a detailed description of the NEF septic systems in the next revision to the ER. Six septic systems are now planned in lieu of three septic tanks with a common leachfield. Each septic system will consist of a septic tank with one or more leachfields. Refer to Figure ER RAI 2-2, "Planned Septic Tank System Locations," in Attachment 3 to this submittal for the planned location of the six septic tank systems.

The six septic systems are capable of handling approximately 40,125 liters per day (10,600 gallons per day) based on a design number of employees of approximately 420. Based on the actual number of employees, 210, the overall system will receive approximately 20,063 liters per day (5,300 gallons per day). Total annual design discharge will be approximately 14.6 million liters per year (3.87 million gallons per year). Actual flows will be approximately 50 percent of the design values.

The septic tanks will meet manufacturer specifications. Utilizing the percolation rate of approximately 3 minutes per centimeter (8 minutes per inch) established by actual test on the site, and allowing for 76-114 liters (20-30 gallons) per person per day, each person will require 2.7 linear meters (9 linear feet) of trench utilizing a 91.4-centimeter (36-inch) wide trench filled with 61 centimeters (24 inches) of open graded crushed stone. As indicated above, although the site population during operation is expected to be 210 persons, the building facilities are designed by architectural code analysis to accommodate up to 420 persons. Therefore, a total of approximately 975 linear meters (3,200 linear feet) of percolation drain field will be required. The combined area of the leachfields will be approximately 892 square meters (9,600 square feet).

2-3 Treated Effluent Evaporative Basin (TEEB):

A. Provide specific information on the materials and construction methods to be used for the double-lined TEEB.

- Section 4.4.7 describes controls of impacts to water quality including the TEEB which is double-lined with leak detection equipment installed and open to allow evaporation.

B. Describe the methodology used to determine that the basin liner(s) would last the entire life of the proposed NEF.

C. Describe the proposed monitoring system used to determine whether the liner(s) has been breached. Provide specific information on the equipment and its alarm activation and operation system.

D. Describe the proposed mitigating actions to be implemented if the liner(s) fails.

E. Provide the process for decommissioning the TEEB and disposing of the soil and sludge as low-level waste.

- Based on Section 2.1.2.3.4, the TEEB soil/sludge would contain a complexing agent (citrate), Uranium, and other decay product radionuclides from the 30 years of operation.

F. Identify the treatment method(s) used to treat the citrate in the liquid effluent prior to discharging it into the TEEB.

G. Verify that the amount of chelating agent (i.e., citric acid) in the TEEB's soil/sludge would be acceptable for low-level waste disposal.

LES Response

A. Materials and construction methods to be used for the double-lined Treated Effluent Evaporative Basin (TEEB) will be in compliance with current New Mexico Environment Department (NMED) Guidelines for Liner Material and Site Preparation for Synthetically-Lined Lagoons, December 1995.

The TEEB will have two, geosynthetic fabric liners. The geosynthetic liner material will be chemically compatible with potential liquid effluents to be discharged to the TEEB, resistant to sunlight deterioration, and of sufficient thickness to have adequate tensile strength and tear and puncture resistance. The liner material will be selected during final design and may consist of high-density polyethylene (HDPE) or ethylene interpolymer alloy (Coolgard ® XR-5® or Ultra Tech®).

Methods that will be used to construct the TEEB, from the bottom up, are as follows.

- A minimum 0.61-meter (2-foot) thick layer of on-site clay-type soils, free from rock, and compacted at optimum moisture content to 95% of Standard Effort, i.e., American Standard for Testing and Materials (ASTM) D698, "Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort

(12,400ft-lbf/ft^3 (600kN-m/m^3))," (applicable version at time of design) will be prepared. The plastic limit of the clay will be approximately 20 and the material will be compacted to +3% of its optimum moisture content.

- A geosynthetic fabric liner will be installed on top of the prepared soil layer. This will serve as the secondary (lower) liner.
- Leak collection piping and associated sump and pumping system, to pump any leakage back to the TEEB, will then be placed.
- A geomembrane drainage mat with the imbedded leak collection piping will be added.
- The primary (upper) geosynthetic fabric liner will be installed.
- The primary liner will then be covered by a minimum 0.3-meter (1-foot) thick prepared layer of on-site clay, free of rock, and compacted at optimum moisture content.
- Liner installation will be by manufacturer certified installers and will be installed and tested according to project specifications.

In addition, the TEEB will be enclosed with animal-friendly fencing to prevent wildlife and unauthorized personnel access. It will also be covered by surface netting or other suitable devices, to exclude waterfowl access to basin water.

B. The methodology that will be used to determine that the basin liner(s) will last the entire life of the proposed NEF is as follows:

- A geosynthetic fabric liner determined to be chemically compatible with basin contents will be selected. The selection process will include consultation with liner manufacturers. This will occur during final design.
- The selected liner will have a projected service life in excess of the projected life of NEF.
- Liner thickness will comply with current NMED Guidelines for Liner Material and Site Preparation for Synthetically-Lined Lagoons, December 1995 and with the recommendations of the liner manufacturer.
- Liner material will be ultraviolet resistant and covered by a minimum of 0.3-meter (1-foot) thick prepared layer of on-site clay, free of rock, and compacted at optimum moisture content.
- The liner material will be pre-approved by a professional engineer and the NMED, as required by current NMED Guidelines for Liner Material and Site Preparation for Synthetically-Lined Lagoons, December 1995.
- Site preparation for basin construction will meet or exceed current NMED Guidelines for Liner Material and Site Preparation for Synthetically-Lined Lagoons, December 1995.

- Liner installation will be by manufacturer certified installers and will be installed and tested according to project specifications.

- Lastly, a monitoring plan will be implemented. The monitoring plan will consist of periodic inspections and implementation of corrective measures, if required.

By following the above methodology, the basin liner(s) are expected to last the entire life of the proposed NEF.

C. The proposed monitoring system for determining whether the primary (upper) liner has been breached will be an active liquid-sensor leak detection system. This system is a drain/sump system consisting of collection pipes that will be routed to a monitored sump. If the sump is collecting liquid, a level monitor will alert site staff. Specific information on the equipment, its periodic testing, and its alarm activation and operation system will be determined during final design.

D. Proposed mitigating actions to be implemented upon failure of the primary (upper) liner, detected by the leak detection system are as follows. Damage to the liner will be promptly assessed and corrective action taken to restore the system integrity. The TEEB will be designed with two cells. As such, the cell with the failed liner can be isolated, drained and repaired. During this time period, discharges will be to the cell with the intact liner. Furthermore, the secondary (lower) liner will preclude discharge to the subsurface in the case of a breach in the primary liner. Notifications and corrective measures required by the NMED Ground Water Quality Bureau will be promptly initiated. Given the methods used to construct the TEEB (See the response to RAI 2-3A) which will provide physical separation between the two liners as well as a minimum cover over the upper liner of 0.3 m (1.0 ft) and the liner selection and installation details as specified in the response to RAI 2-3B, catastrophic failure of both TEEB liners is not considered credible.

E. The TEEB is expected to contain low concentrations of uranic materials and decay products in the uppermost soils as residue from the Liquid Effluent Collection and Treatment System. As part of the site closure during the decommissioning process, representative soil samples from across the entire TEEB will be collected and analyzed for radioactive and hazardous constituents. This information will provide the necessary characterization data to develop the waste disposal plan for the transfer of contaminated waste materials to a licensed disposal site. Though the existing low level waste disposal sites (i.e., Barnwell in South Carolina and Envirocare in Utah) do permit limited quantities of waste with chelating agents, the Liquid Effluent Collection and Treatment System by process design is not expected to generate detectable quantities of citric acid (citrate) in the TEEB soil. The sediment and soil over the top of the upper liner and the liner itself will be disposed of, if required, as low level waste. Similarly, the leak detection system components and the lower liner will also be removed and disposed of accordingly. Lastly, the soil under the lower liner will be sampled and disposed of as low-level waste, if required. Excavations and berms will be leveled to restore the land to a natural contour.

F. The decontamination system uses citric acid, a chelating agent, to remove contamination from equipment and components. The concentration of the citric acid is between 5% and 7%. Disposal of spent citric acid results in an input waste stream to the Liquid Effluent Collection and Treatment System that will periodically contain a citric acid solution with dissolved uranic materials. The preliminary design of the Liquid Effluent Collection and Treatment System treats critic acid in the first portion of a multistage process for waste

stream conditioning and removal of contaminants. The first stage of this treatment process utilizes a neutralization and precipitation reaction by the addition of a hydroxide (potassium or sodium) as a precipitating agent in the Precipitation Treatment Tank. This action is intended to raise the pH of the liquid waste to a range of 9 to 12. This treatment renders the soluble Uranium compounds insoluble allowing them to precipitate from solution. It also breaks down the citric acid as a chelating agent. Precipitated solids are removed from the treated solution by circulating the treated liquid through a filter press. The filter press separates suspended solids from the liquid. With proper control of pH, no critic acid will remain after this stage of treatment. The downstream stages of liquid treatment after the Precipitation Treatment Tank include a waste evaporator/dryer which will boil the waste liquid to create a clean distillate stream and concentrated waste bottoms. If any weak solutions of critic acid were to be carried over to the evaporator/dryer due to unexpected operating conditions, it will tend to dissociate to carbon dioxide (CO_2) and water when heated. The distillate fraction from the evaporator is collected in the Treated Effluent Monitoring Tanks before being discharged to the TEEB. Polishing demineralizers are provided in the design as a final stage of treatment if the effluents from the Treated Effluent Monitoring Tanks need additional processing before release to the basin. During final design of the Liquid Effluent Collection and Treatment System, process parameters and design requirements will be established to ensure that no detectable quantities of critic acid will be discharged to the TEEB.

G. The processing of liquid waste though the Liquid Effluent Collection and Treatment System will remove citric acid from the waste stream before discharge of the effluent to the TEEB as discussed in the response to RAI 2-3F above. During final design of the Liquid Effluent Collection and Treatment System, process parameters and design requirements will be established to ensure that no detectable quantities of critic acid will be discharged to the TEEB. Soil analysis of the TEEB soil/sludge as part of the decommissioning process will verify that the material is suitable for low-level waste disposal.

2-4 Uranium Byproduct Cylinder (UBC) Storage Pad:

A. Provide additional information which resolves inconsistencies on the UBC storage pad construction.

- Section 1.2.3 states the UBC storage pad is designed to store up to 15,727 UBCs, or about 25 years worth (i.e., tails generation rate is 625-627 UBCs per year). This statement is inconsistent with Section 1.2 which states the proposed NEF would be licensed for 30 years of operation and Section 4.13.3.1.1 which states "the concrete pad to be initially constructed onsite for the storage of UBCs will only be of a size necessary to hold a few years worth of UBCs."

B. Provide the specific size and capacity for the initial concrete storage pad.

C. Identify the planned expansion dates for the storage pad and discuss the impact the periodic expansions of the storage pad would have on operation and maintenance activities.

D. Discuss the potential for regular periodic expansion of the UBC storage pad that could bring construction crews back onto the proposed NEF which could increase the number of personnel exposed to radiological and hazardous events.

- Section 4.13.3.1.1 states the depleted uranium would be temporarily stored onsite in containers on the UBC storage pad. The current schedule calls for completion of construction activities by 2013, which seems inconsistent with the regular periodic expansion of the UBC storage pad.

LES Response

A. There are no inconsistencies concerning the UBC Storage Pad construction information provided in the license application. The UBC Storage Pad will be sized to store up to 15,727 UBCs. This figure was selected to establish a conservative upper bound estimate with respect to UBC Storage Pad dose calculations, UBC Storage Pad sizing, and the decommissioning funding estimate. The yearly UBC generation rate and cumulative number of UBCs for this scenario are provided in Table ER RAI 2-4A.1, "Production for Nominal 30 Years of Operation," in Attachment 2 to this submittal. As shown in Table ER RAI 2-4A.1, the 15,727 UBC estimate includes a six-year ramp up from 66 to 623 UBCs/yr, followed by 19 years at a constant UBC generation rate of 627 UBCs/yr, and lastly, a seven-year ramp down from 561 to 0 UBCs/yr (i.e., a total of 32 years based on the conservative assumption of facility operation up to the full 30 years).

The NEF is, however, applying for a 30-year license which spans the period from initial receipt of licensed material on site until decommissioning is completed. The actual number of UBCs generated over this 30-year license period will be less than the bounding estimate of 15,727 UBCs. This is shown in Table ER RAI 2-4A.2, "Production During 30-Year License Period," in Attachment 2 to this submittal.

The concrete pad will initially be constructed to store the number of UBCs generated over approximately the first five years of full production. If the need arises to store additional UBCs, prior to a deconversion facility becoming available, the storage pad will

be expanded in about five years from initial construction to provide an additional five-year capacity. Additional expansions, if required, will provide similar storage capacity increases in five-year increments.

B. The concrete pad will initially be constructed to store the number of UBCs generated over approximately the first 5 years of production. The facility is licensed for 30 years and the incremental storage pad expansions would occur, if necessary, about every five years. Therefore, each expansion would be approximately 1/6 of the total pad size. The total design storage pad area is approximately 8.5 hectares (21 acres); therefore, the initial pad size will be approximately 1.4 hectares (3.5 acres). This size will be adequate to store the initial five years of UBCs that are generated by the NEF. It is the intention of LES to pursue a deconversion option which would preclude the need to expand the storage pad beyond its initial constructed size. Once the deconversion option is established, the shipments to the deconversion facility would approximately match the generation rate, thus precluding the need for additional storage area.

C. The expansions, if required, will occur approximately every five years. Storage pad expansion during facility operation will have negligible impacts on operation and maintenance activities. The construction effort would be adjacent to the existing storage pad segment(s) in use at the time. Construction activities would be coordinated so as not to impact pad operations or maintenance activities associated with storage, inspection, and maintenance of UBCs.

D. The current schedule shows that production from the first cascade is estimated to start in 2008 and completion of facility construction in 2013. The first UBC Storage Pad segment would be completed once the first cascade goes into production or shortly thereafter to store the Uranium byproduct produced by the first cascade. As explained above, subsequent UBC Storage Pad segments would be built only if needed as the facility continues to operate without the ability to send the Uranium byproduct to a deconversion facility.

The potential radiological impact to construction crews for expansion of the UBC Storage Pad by segment has been evaluated. The maximum individual dose to a construction worker is estimated to be about 2.66 mSv (266 mrem). For an estimated work force of 91 people and 47,181 total craft hours for the construction of each pad segment, the collective dose is about 0.208 person-Sv (20.8 person-rem). The dose estimates were based on expected dose rates at various distances from the edge of a full UBC Storage Pad.

Work planning will consider additional As Low As Reasonably Achievable (ALARA) aspects such as the use of temporary shadow shields (i.e., "Jersey Barriers") between the end of an existing storage pad segment containing UBCs and the segment under construction, rotation of work crews, increasing the distance between the closest row of cylinders on the UBC Storage Pad and the construction area by initiating work prior to when the existing storage pad segment is full, and the placement of relatively high dose rate empty (heels only) cylinders on the far side away from the work area. Construction work will be coordinated with routine plant operations and maintenance activities on the UBC Storage Pad to preclude any hazardous events impacting the construction crews. The construction crews will be monitored for radiation exposure and receive appropriate training commensurate with the radiological risk during UBC Storage Pad construction activities.

2-5 Depleted Uranium:

A. Provide LES's determination on whether the depleted uranium is a waste or a resource material.

- Section 4.13.3.1.3 notes that "NRC expects LES to indicate in its proposed NEF license application whether the depleted uranium tails will be treated as a waste or a resource" and that "LES will make a determination as to whether the depleted uranium is a resource or a waste and notify the NRC."

B. Provide an update on actions to identify and finalize a viable disposal path for the depleted uranium.

- Section 4.13.3.1.1 states that LES is committed to aggressively pursue economically viable disposal paths for the disposition of UBCs.

LES Response

A. LES will provide information on the determination on whether the depleted Uranium is a waste or a resource material to the NRC in the near future.

B. Discussions are continuing with Cogema that may potentially lead to a Memorandum of Agreement regarding a contract between Cogema and LES for the deconversion of byproduct produced at the NEF. In addition, LES has been approached by ConverDyn, the company that operates the only Uranium conversion plant in the U.S, and another company in the Uranium business about building a private deconversion facility. In fact, ConverDyn is interested in using the hydrogen fluoride (HF) byproduct from the deconversion plant in its operating Uranium conversion plant. These discussions are continuing.

2-6 Construction and Operation Resources:

Provide a list of resources and materials that would be used, consumed, or stored at the proposed NEF during construction and operation.

- Section 2.1.2.3 describes the proposed NEF process, building and related operation. However, there is no information on the resources and materials that would be used, consumed, or stored at the proposed NEF during construction and operation. Materials may include steel, aluminum, asphalt, water, electricity, concrete, wood, fuel (diesel and gas), chemicals, etc.

LES Response

Items used, consumed, or stored at the site during construction are typical construction commodities. The construction commodities would typically be used immediately after being brought to the site. Some materials would be stored for a short duration until they were used or installed. Table ER RAI 2-6.1, "Commodities Used, Consumed, or Stored at the NEF During Construction," in Attachment 2 to this submittal summarizes the resources and materials used during the 3 year period of site preparation and major building construction.

ER Tables 3.12-1, "Estimated Annual Radiological and Mixed Wastes," 3.12-2, "Estimated Annual Non-Radiological Wastes," and 3.12-3, "Estimated Annual Gaseous Effluent," provide listings of materials and resources that are expected to be used, consumed, or stored on site during plant operation. The resources and materials provided in Table ER RAI 2-6.2, "Commodities Used, Consumed, or Stored at the NEF During Operation," in Attachment 2 to this submittal are also expected to be used, consumed, or stored on an annual basis at the NEF and will be added in the next revision to the ER.

2-7 Alternatives Sites:

A. Provide a sample calculation to allow the NRC to reproduce the site score results in Section 2.1.3.3.3.

- In Section 2.1.3.3.3, a summary is provided on how the site scores are calculated. Table 2.1-9 summarizes the unweighted scores of the sites against the second phase screening criteria. Figures 2.1-7 and 2.1-8 present the final weighted scores.

B. Clarify the Eddy County site's higher score under the air quality licensing criteria over the Lea County site.

- Table 2.1-9 states both the Lea County and the Eddy County sites are in the same air quality attainment area as defined by U.S. Environmental Protection Agency (EPA). The Eddy County site is closer to a larger population center (Carlsbad) than the Lea County site. The Eddy County site may be penalized for uncertainty in being available for siting the proposed NEF.

C. Verify that the description of the Eddy County site is accurate in Section 2.1.3.3.4.2.

- The written description of the location of the Waste Isolation Pilot Plant (WIPP) access road and utilities indicate that the correct site is Section 11 of Township 22S, Range 31E of the New Mexico Meridian which is northeast of the current WIPP site. Section 2.1.3.3.4.2 identifies the Eddy County site as Section 8 of Township 22S, Range 31E of the New Mexico Meridian which is near the northwest corner of the WIPP site.

D. Include in Figures 2.1-7 and 2.1-8 the score for the Portsmouth, Ohio site.

- Figures 2.1-7 and 2.1-8 present the final weighted scores of five of the six sites, omitting the score for the Portsmouth, Ohio site.

LES Response

A. LES has provided a compact disc as an enclosure to this submittal containing a spreadsheet file (ER RAI 2-7.A Site Scoring Calculation 5-11-04.xls) that shows the calculation and values for the sub-criteria and the individual weighted scores by site for each sub-criterion.

The calculation for determining the weighted scores is as follows:

- Normalized weights for each major objective are established by dividing the assigned weight of the objective by the summed weight of all the major objectives. Example: the sum of all major objectives is 310. The normalized weight for Operational Requirements is 100 (the assigned weight) divided by 310, or 0.323.

- Normalized weight of each criterion is established by dividing the assigned weight for the criterion by the sum of the weights of all the criteria assigned to a major objective. Example: The sum of all criteria weights for the major objective identified as

Operational Readiness is 265. The normalized weight for Size of Plot is 80 (the assigned weight of the criterion) divided by 265, or 0.302.

- Similarly, the normalized weight for each sub-criterion is established by dividing the assigned weight of the sub-criterion by the sum of the weights for all the sub-criteria assigned to a criteria. Example: The sum of all sub-criteria weights for the Size of Plot is 340. The normalized weight for Future Expansion is 100 (the assigned weight of the sub-criterion) divided by 340, or 0.294.

- Normalized scores are established for each sub-criterion by dividing actual sub-criterion scores by 10. Example: For Carlsbad, the score for Future Expansion is 9. The normalized score is 9 divided by 10, or 0.9.

- Weighted scores for each sub-criterion are established by multiplying the normalized score by the normalized weights of the three applicable rating sets (major objective set, criteria set, and sub-criteria set). Example: The weighted score for Future Expansion at Carlsbad is 0.9 x 0.323 x 0.302 x 0.294 = 0.026. The normalized weight for each sub-criterion is the normalized score for the sub-criterion multiplied by the normalized weight of the criterion multiplied by the normalized weight of the major objective (for Future Expansion this is 0.294 x 0.302 x 0.323 = 0.029).

During preparation of the response to this RAI, an error was identified in the scoring model in which the normalized scores for the sub-criterion "On or Near an Existing Nuclear Facility" were incorrectly divided by 100 instead of 10. This resulted in changes to the weighted scores for this sub-criterion for the Portsmouth site, the Hartsville site, the Bellefonte site, and the Lea County site. Carlsbad and Eddy County site scores were not affected since they scored "0" for this sub-criterion.

The correction in the model results in the following revised final weighted scores for each site:

Eddy County	0.830 (slight change due to rounding)
Lea County	0.823
Bellefonte	0.782
Hartsville	0.774
Portsmouth	0.758
Carlsbad	0.731 (no change)

Additional errors were identified in Table 2.1-9 in the ER and will be revised to correct the following scores for "Air Permitting" and "Craft Apprenticeship" sub-criteria:

Sub-Criterion – Air Permitting

Bellefonte	10
Carlsbad	10
Hartsville	10
Portsmouth	10

Sub-Criterion – Craft Apprenticeship

Bellefonte	5
Hartsville	5

LES will incorporate the corrections in the next revision to the ER.

B. For the Air Quality Sub-criterion, the scoring scale was based on whether the site is proximal to a "facility" that could affect the proposed site's air quality. Using the established scoring criteria, being closer to a population center would not affect the score. At Lea County, nearby industries/activities with particulate and organic emissions (i.e., Wallach Quarry, oil and gas extraction wells, etc.) could potentially impact air quality at the proposed site; however, impacts were deemed to be unlikely. At Eddy County, the potential impact on air quality from the nearby, underground WIPP site was deemed to be highly unlikely, essentially negligible. Therefore, Eddy County received a higher score than Lea County.

C. The description of the Eddy County site in ER Section 2.1.3.3.4.2 is correct. Figure ER RAI 2-7C.1, "Aerial View of Eddy County Site," in Attachment 3 to this submittal provides an aerial view of the Eddy County site. As described in Section 2.1.3.3.4.2 and as shown on Figure ER RAI 2-7C.1, the main WIPP access road is on the southeastern edge of the site.

D. Figures ER RAI 2-7D.1, "Contributions by Grouped Criteria," and ER RAI 2-7D.2, "Contributions by Criteria," in Attachment 3 to this submittal include the final weighted scores for the six sites, including Portsmouth. LES will revise ER Figures 2.1-7 and 2.1-8 to be consistent with Figures ER RAI 2-7D.1 and ER RAI 2-7D.2 in the next revision to the ER.

SECTION 3 – DESCRIPTION OF AFFECTED ENVIRONMENT

Pursuant to 10 CFR 51.45(b), the ER is required to contain a description of the affected environment.

3-1 Geology and Soils:

A. Provide information on the existing soil contamination due to chemicals at the proposed NEF.

- Section 3.3 discusses geological characteristics of the soil, but specific physical or chemical data is lacking.

B. Clarify whether Red Bed Ridge is associated with the Mescalero Escarpment or if it is the result of other structural/erosional activity in Section 3.3.

C. Clarify whether single values estimating the thickness of the geological units represent averages across the proposed NEF site in Table 3.3-1.

D. Provide the average value when a range of depth or thickness is stated for the various materials in Table 3.3-1.

E. Provide a range of values when a single value of thickness is stated.

LES Response

A. ER Section 3.11.1.1 describes ten surface soil samples that were previously collected for initial radiological characterization of the NEF site. Eight additional surface soil samples were subsequently collected and analyzed for both radiological and non-radiological chemical analyses. Radiological chemical analyses included gamma spectrometry, thorium, and Uranium products. Non-radiological chemical analyses included volatiles, semi-volatiles, 8 Resource Conservation and Recovery Act (RCRA) metals, organochlorine pesticides, organophosphorous compounds, chlorinated herbicides and fluoride. Six of the additional eight soil sample locations were selected to represent background conditions at proposed plant structures. The other two sample locations are representative of up-gradient, on-site locations. The eight soil samples and their approximate locations are provided on Figure ER RAI 3-1A, "Soil Sample Locations," in Attachment 3 to this submittal and in Table ER RAI 3-1A.1, "NEF Site Soil Sample Locations," in Attachment 2 to this submittal.

The radiological analytical results for the eight soil samples are provided in Table ER RAI 3-1A.2, "Radiological Chemical Analyses of NEF Site Soil," in Attachment 2 to this submittal. A comparison of the radiological analytical results and the results reported in ER Section 3.11.1.1 shows that the radiological nuclides detected in the eight additional soil samples included the same radiological nuclides detected in the initial ten soil samples. However, two additional radiological nuclides (Th-230 and U-235) were detected in the more recent soil samples. Th-230 was not analyzed in the initial ten soil samples and a lower laboratory measured minimum detectable concentration (MDC) for U-235 was used in the analyses for the eight additional soil samples than was used for the initial ten soil samples. Th-230 is naturally occurring and associated with the decay

of U-238. Similar to U-234 and U-238, U-235 is a natural Uranium isotope found in the environment.

The non-radiological analytical results provided for the eight soil samples in Table ER RAI 3-1A.3, "Non-Radiological Chemical Analyses of NEF Site Soil," in Attachment 2 to this submittal indicate that barium, chromium and lead were detected above laboratory reporting limits in all eight soil samples. However, their detected levels are below State of New Mexico Soil Screening Levels as developed by the NMED Hazardous Waste Bureau, the Ground Water Quality Bureau and the Voluntary Remediation Program (Technical Background Document for Development of Soil Screening Levels, Revision 2, February 2004, published by NMED). Other non-radiological parameters were not detected at levels above the laboratory reporting limits.

LES will incorporate the radiological and non-radiological analytical results for the eight samples in the next revision to the ER.

B. The Red Bed Ridge and the Mescalero Escarpment are not associated with one another. LES will revise ER Section 3.3 to clarify that the Red Bed Ridge and the Mescalero Escarpment are not associated and to provide additional information concerning the Red Bed Ridge in the next revision to the ER.

The Red Bed Ridge is a prominent buried ridge developed on the upper surface of the Triassic Dockum Group "red beds." The crest of the buried Red Bed Ridge is approximately 1.6 km (1 mi) or so in width and extends for at least 160.9 km (100 mi) in length from northern Lea County, New Mexico, through western Andrews County, Texas, and southward into Winkler and Ector Counties in Texas. The Red Bed Ridge runs from the northwest to the southeast, just north and northeast of the NEF site through the adjacent Wallach Quarry and Waste Control Specialists (WCS) properties. The designation Red Bed Ridge derives from geologic reports related to site investigations for the nearby WCS facility. Its origin appears to be the result of the relative resistant character of the claystone of the Chinle Formation and to caliche deposits that cap the ridge.

The NEF is located about 6.2 to 9.3 km (10 to 15 mi) southeast of the Mescalero Escarpment. Although the Mescalero Escarpment and the Red Bed Ridge are likely to have originated due to similar geomorphological processes, as both appear to be remnant erosional features, they are not associated with each other.

C, D, and E.

LES will revise ER Table 3.3-1 to clarify the information on depth and thickness of the surficial materials. The revised table is provided as Table ER RAI 3-1C.1, "Geological Units Exposed At, Near, or Underlying the Site," in Attachment 2 to this submittal. Ranges and averages are provided when available. The deeper units are based on information from a single source and ranges or averages are provided, as applicable. The revised table also factors in additional data obtained since the table was originally prepared. Revisions to ER Table 3.3-1 will be incorporated in the next revision to the ER.

3-2 Water Resources:

Provide an explanation for the units of the chemicals listed below U-238 in Table 3.4-3. Specifically, explain the use of negative values.

LES Response

The data listed for U-238 and below in Table 3.4-3 is from the analysis of site ground water for radionuclides. The results listed are levels of radioactivity given first in pCi/L followed by Bq/L in parentheses. Revisions to ER Table 3.4-3 to explain the negative values and clarify the units of the analyses will be incorporated in the next revision to the ER.

Some of the radionuclide results given in Table 3.4-3 are negative. It is possible to calculate radioanalytical results that are less than zero, although negative radioactivity is physically impossible. This result typically occurs when activity is not present in a sample or is present near background levels. Laboratories sometimes choose not to report negative results or results that are near zero. The EPA does not recommend such censoring of results.

The laboratory performing the radioanalytical services for the NEF site follows the recommendations given in EPA Report: EPA 520/1-80-012;1980: Upgrading Environmental Radiation Data; Health Physics Society Committee Report HPSR-1, Washington, D.C. This report recommends that all results, whether positive, negative, or zero, should be reported as obtained.

3-3 Air Quality and Meteorology:

Provide the correlation analyses of the meteorological data from the Midland-Odessa, Texas Airport with the Waste Control Specialists (WCS) meteorological data.

LES Response

The meteorological tower in use at WCS is ten meters tall with ambient temperature measurements at ten and two meters (32.8 and 6.6 feet) above ground level. Although there are wind speed and direction measurements, there are no data to determine atmospheric stability. Therefore, the National Oceanic and Atmospheric Administration (NOAA) certified data from Midland-Odessa, Texas, were used. The NOAA data used were for those years (1987-1991) available from the EPA Support Center for Regulatory Air Models (SCRAM) world wide web site. The EPA had filled in all missing data values, as required for use with EPA air dispersion models.

WCS provided unvalidated hourly meteorological data from January 2000, through December 2001. These were the only full years of data available from WCS. The raw WCS meteorological data were reformatted for use by a meteorological computer model. The meteorological computer model generated a joint frequency distribution table of wind direction from the WCS meteorological data. The data from that table as well as the Midland-Odessa wind frequency distribution information are presented in Table ER RAI 3-3.1, "Wind Frequency Distribution," in Attachment 2 to this submittal.

As shown in Table ER RAI 3-3.1, the prevailing wind direction has a southerly component at both sites. Figure ER RAI 3-3, "Comparison of Wind Direction Data," provided in Attachment 3 to this submittal, provides a graphical comparison of the WCS and the Midland-Odessa wind direction frequency distribution. A comparison of the WCS and Midland-Odessa data provided in Table ER RAI 3-3.1 and in Figure ER RAI 3-3 shows good agreement in wind direction frequency between the two sites even though the meteorological data are from different time periods and the two sites are separated in distance and are at different elevations.

Other reasons justifying the use of the Midland-Odessa meteorological measurements include:

- Both locations have similar climates,
- Only two years of data were available for the WCS (five years of data is considered to be a minimum when using EPA air dispersion codes to perform air quality analyses,
- The WCS data collection system provided no information for the determination of atmospheric stability,
- Midland-Odessa is the closest first-order National Weather Service station to the NEF site, and
- The EPA had filled in all missing data values in the Midland-Odessa data set, as required for use with EPA air dispersion models.

Because the data from both sites show a predominance of southerly winds, it is reasonable to use the Midland-Odessa meteorological data. LES will incorporate a correlation analysis of the meteorological data from the Midland-Odessa, Texas Airport with the WCS meteorological data in the next revision to the ER.

3-4 Ecological Resources:

A. Identify on a map the locations of the two Areas of Critical Environmental Concern (ACC) designated for the Lesser prairie chicken.

- Sections 3.5.2 stated that the Bureau of Land Management is in the process of designating two public land parcels within Lea County as ACC for the Lesser prairie chicken.

B. Provide a copy of the reference that was cited (Stinnett, 2002) in the ER.

C. Provide the results of any additional surveys conducted to identify habitat suitability, if any, and any mitigation measures that would be undertaken to reduce the impacts and protect the Sand dune lizard and Lesser prairie chicken.

D. Provide detailed information on the habitat and biology of the Black-tailed prairie dog.

- The U.S. Fish and Wildlife Service identified the Black-tailed prairie dog as a candidate species.

E. Determine if the proposed NEF site contains habitats that would be attractive to the Swift fox, the American peregrine falcon, the Arctic peregrine falcon, the Baird's sparrow, the Bell's vireo, the Western burrowing owl, and the Yellow-billed cuckoo.

F. Discuss the species listed above and their potential vulnerabilities to construction, operation, and decommissioning of the proposed NEF.

LES Response

A. Figure ER RAI 3-4A, "County Map, Proposed Area of Critical Environmental Concern (ACEC), Lesser Prairie Chicken," in Attachment 3 to this submittal depicts the approximate location of the two proposed, Lesser Prairie Chicken ACECs. The nearest Lesser Prairie Chicken ACEC straddles Lea and Eddy Counties and as stated in ER Section 3.5.3, is about 48 km (30 mi) northwest of the proposed NEF site. The second Lesser Prairie Chicken ACEC, which is further north, borders the northwest corner of Lea County. LES will incorporate this figure in the next revision to the ER.

B. A copy of the cited reference entitled "Lesser Prairie-Chicken (Tympanuchus pallidicinctus), Area of Critical Environmental Concern (ACEC), A Petition to the New Mexico BLM", by Ken Stinnett, is enclosed in Attachment 6 to this submittal.

C. A copy of a recently conducted Lesser Prairie Chicken (LPCH) confirmatory survey of the NEF site is enclosed in Attachment 6 to this submittal. No LPCHs were detected during the survey by visual sightings or aural detections. No LPCHs were detected and there is little potential habitat in the survey area. In addition, high human disturbance and predator potential in the area make it unlikely that LPCHs will colonize the area. Based on these findings, no mitigation measures are planned by LES to reduce the impacts on or to protect the LPCH at the NEF site.

A report on the Sand Dune Lizard survey conducted by LES in 2003 was previously provided to the NRC (ADAMS Accession Number ML040850611). The report was also submitted to the State of New Mexico Department of Game and Fish and to the US Fish and Wildlife Service. The conclusion of the study was that the habitat of the NEF site is unsuitable for Sand Dune Lizards. The primary reasons are as follows:

- The high frequency of mesquite and grassland associations on the site are associated with environmental conditions that do not support Sand Dune Lizards.
- A low frequency and extent of shinoak dunes and large blowouts on the site, which provide the habitat and microhabitats necessary for Sand Dune Lizard survival.
- The shinnery dune habitats that do exist on the site are isolated from occupied shinnery dunes.
- The ecotonal characteristics of the site are in contrast to the primary habitat of Sand Dune Lizards. The primary habitat of Sand Dune Lizards is sand dunes dominated by shinoak, with scattered sand sage, yucca, and grasses, and notable for an absence of mesquite.

No Sand Dune Lizards were detected during the 2003 survey and there is little potential habitat in the survey area. Based on these findings, no mitigation measures are planned at this time to reduce the impacts on or protect the Sand Dune Lizard at the NEF site.

The Sand Dune Lizard report is under review by the State of New Mexico Department of Game and Fish. LES is presently discussing the scope for a follow-up confirmatory survey with the State of New Mexico Department of Game and Fish. The confirmatory survey will be completed during the summer of 2004. LES will provide the results of any future surveys of Sand Dune Lizards to the NRC.

LES will incorporate additional information concerning LPCHs and Sand Dune Lizards in the next revision to the ER.

D. LES will include the following information on the habitat and biology of the Black-tailed Prairie Dog in the next revision to the ER.

Habitat Requirements

Throughout much of its range, Black-tailed Prairie Dog habitat consists of short grass plains, mid-grass prairies, and grass-shrub habitats. Historically, they were widespread and abundant east of the Rio Grande River and in the grasslands of southwestern New Mexico. Though they have expanded their range into oak shinnery and other grass-shrub habitats, they typically avoid areas with tall grass, heavy sagebrush, and other thick vegetation cover. Colonies of Black-tailed Prairie Dogs have been reported in the Plains-Mesa Grasslands vegetation type of southeastern New Mexico. They are not dependent on free water, getting adequate water from plants and precipitation events in arid and semi-arid habitats.

Black-tailed Prairie Dogs depend on grass as their dominant food source, and usually establish colonies in short grass vegetation types that allow them to see and escape predators. The predominant vegetation type, plains-mesa sand scrub, on the NEF site is

not optimal Black-tailed Prairie Dog habitat because of the high density of shrubs. Shrubs comprise 36 % of the relative vegetative cover and are present on the site at density levels of 16,549 individuals per hectare (6700 individuals per acre). Tall grass and shrubs provide hiding cover for predators such as coyotes and badgers. Shrubs provide perching locations for raptors that also prey on prairie dogs.

There have been no sightings of Black-tailed Prairie Dogs, active or inactive prairie dog mounds/burrows, or any other evidence, such as trimming of the various shrub species, of prairie dogs at the NEF site.

Life History

Black-tailed Prairie Dogs are large rodents weighing 0.5 to 1.4 kg (1 to 3 lb) and are 25 to 41 cm (10 to 16 in) long. They live in well-organized colonies or "towns" with family subgroups. Prairie dogs dig extensive, deep and permanent burrows with a dome-shaped mound at the entrance. Nest cavities are in the deeper parts of burrows for protection of the young and to mitigate temperature fluctuations. Black-tailed Prairie Dogs are diurnal, being active primarily during daylight hours. In southeastern New Mexico, they may remain active throughout the year, although they may remain below ground during adverse winter weather.

Historically, Black-tailed Prairie Dog towns on the mixed grass plains ranged in size from a few individuals to several thousand. Currently, large concentrations are rare due to extensive poisoning and loss of habitat during the last century. Typically, in southeastern New Mexico, prairie dog towns range in size from 8 to 40 hectares (20 to 100 acres), though some towns are smaller than 8 hectares (20 acres) and are larger than 40 hectares (100 acres).

Population Dynamics

Black-tailed Prairie Dogs breed from January to March, with a 29-60 day gestation period. Young are live-born with litter size ranging from 3 to 5. Normally, there is one litter per year. At about six weeks of age, the young appear above ground and are able to walk, run, and eat green food. The family units remain intact for almost another month, but the ties are gradually broken and the family disperses. Sexual maturity is reached in the second year.

Formerly, the chief predators of Black-tailed Prairie Dogs were Black-footed Ferrets, badgers, and raptors. Because of their competition with domestic livestock for grass, prairie dogs were extensively poisoned, trapped, and hunted during the late 19th century and throughout the 20th century. Consequently, the prairie dog numbers have been reduced by 98-99% of their former numbers across the West. The Black-tailed Prairie Dog was listed as a candidate species under the Endangered Species Act by the US Fish & Wildlife Service in 2000.

E. The following discusses the potential habitat for Swift Fox, the American Peregrine Falcon, the Arctic Peregrine Falcon, the Baird's Sparrow, the Bell's Vireo, the Western Burrowing Owl, and the Yellow-billed Cuckoo. This information will be incorporated in the next revision to the ER.

Swift Fox

The proposed NEF site contains habitat that has the potential to attract Swift Fox. The Swift Fox is known to inhabit Plains-Mesa Sand Scrub and Plains-Mesa Grasslands vegetation types that occur at or in the immediate vicinity of the NEF site. However, this small fox is more closely associated with grasslands. The Swift Fox preys primarily on rodents such as kangaroo rats and rabbits, and is closely associated with prairie dogs and other burrowing animals. Breeding habitat requires burrows in relative soft soils that the fox digs or alternatively, it may occupy existing burrows of other animals such as prairie dogs or badgers. Given the existing facilities in the immediate area of the NEF site and the low population density of the Swift Fox, 0.19 fox/km^2 (0.49 fox/mi^2) the NEF site is marginally attractive to the Swift Fox. Potential vulnerabilities due to construction, operation, and decommissioning of the proposed NEF are discussed in the response to RAI 3-4F, below.

American Peregrine Falcon

The proposed NEF site has no potential to attract breeding American Peregrine Falcons. In the Rocky Mountain States, Peregrine Falcons require cliffs for breeding, and there are no cliffs in the area. The species uses a variety of open habitats, potentially like those on the NEF site, for foraging, but the closest breeding sites make it unlikely that birds would travel to the area for foraging. Transient birds may use the area during migration but the species is unlikely to winter in the area.

Arctic Peregrine Falcon

The proposed NEF site has no potential to attract breeding Arctic Peregrine Falcons. Arctic Peregrine Falcons are not known to breed in New Mexico. Transient birds may use the area during migration but they are unlikely to winter in the area.

Baird's Sparrow

The proposed NEF site is outside of the breeding range of the Baird's Sparrow and does not include typical breeding habitat. Baird's Sparrows may utilize the area during migration, but the species is not likely to winter in the area. In winter, Baird's Sparrows prefer dense grassy habitats and are generally found to the south of the NEF site.

Bell's Vireo

The proposed NEF site is unlikely to attract Bell's Vireos. In New Mexico, the species generally uses dense riparian woodland habitats for breeding. Although dense mesquite thickets may be used by the species, they generally will use areas only near water. The dense mesquite stands on the NEF site are therefore unlikely to attract Bell's Vireos. Transient birds may use the area during migration but they are very unlikely to winter in the area.

Western Burrowing Owl

The proposed NEF site has the potential to attract Burrowing Owls. The site is within the range of Burrowing Owls and harbors habitats (open grass and shrub habitats with sparse cover) used by Burrowing Owls. The species requires burrows (natural or

human-constructed) for nesting. If there are burrowing mammals such as prairie dogs or badgers in the area, then it is likely that the area may be attractive to Burrowing Owls. Potential vulnerabilities due to construction, operation, and decommissioning of the proposed NEF are discussed in the response to RAI 3-4F, below.

Yellow-billed Cuckoo

The proposed NEF site has no potential to attract breeding Yellow-billed Cuckoos. Cuckoos require riparian woodlands and, in the southwest, are generally not found using other habitats. There are no areas on the NEF site that would qualify as riparian woodland suitable for breeding Yellow-billed Cuckoos. It is possible that a cuckoo might use the site during migration, but wintering here would be very unlikely.

F. The following discusses the potential vulnerabilities for the Swift Fox and the Western Burrowing Owl. These are the only two species from the requested wildlife species list that might be attracted to the habit at the proposed NEF site. This information will be incorporated in the next revision to the ER.

Swift Fox

This species is vulnerable to construction activities that would result in a direct loss of breeding habitat (burrows/dens) and to a decrease in the rodent population that is the primary food source for the Swift Fox. Because the species has adapted to areas of human activities such as overgrazed pastures, plowed fields, and fence rows, it could potentially be present during the NEF operations phase. Decommissioning activities would have similar impacts on the Swift Fox as the construction phase with the potential for den/burrows being destroyed and the disruption of the rodent/rabbit food source.

Western Burrowing Owl

This species is generally vulnerable to construction activities because of the possibility that burrows, and possibly birds or eggs in the burrows, may be destroyed by machinery or structures. The species is generally tolerant of human activity, provided they are not harassed. Relocation of active Burrowing Owl colonies may allow continued existence of the birds in the area if usable burrows and appropriate open habitats are provided. However, the lack of existing burrows at the NEF site reduces the potential impact on this species.

3-5 Socioeconomic:

Provide the tax revenue for Eunice, New Mexico and Lea County.

- Section 3.10 describes the tax methodology but does not provide the tax revenue.

LES Response

The estimated tax revenue and available estimated allocations resulting from the construction and operation of the NEF are provided in Table ER RAI 3-5.1, "Estimated Tax Revenue," and Table ER RAI 3-5.2, "Estimated Tax Revenue Allocations," respectively.

3-6 Background Radiation:

Provide a summary table or chart which shows the normal background radiation levels for the area surrounding the proposed NEF site.

- Section 3.11 discusses the normal background radiation levels for the United States but lacks normal background radiation levels for the area surrounding the proposed NEF site.

LES Response

The ER will be revised to incorporate additional information concerning background radiation levels. Section 3.11.1 of the ER provides some information on background radiation levels specific to the NEF region. For example, the southeastern corner of the State (Carlsbad area), which includes the NEF site area in Lea County, measures an annual average terrestrial absorbed dose of about 0.30 mGy (30 mrad). In addition, initial radiological characterization of the plant site was performed in 2003 by gamma isotopic and Uranium specific analyses of 10 surface soil samples. The results of these analyses are discussed in Section 3.11.1.1. Subsequently, eight additional soil samples were taken from the proposed site and analyzed. The response to ER RAI 3-1A (Geology and Soils) provides the results of the radiological analyses of these soil samples.

Additionally, an inspector with the Radiation Control Bureau of the New Mexico Environment Department, indicated that based on field measurements, the direct radiation background in the area of the proposed NEF is approximately 8 to10 μR/hr. The inspector indicated that this value is somewhat lower than that for other parts of New Mexico.

Section 6.1.2 of the ER describes the Radiological Environmental Monitoring Program (REMP) for the NEF. The REMP includes the collection of data during pre-operational years in order to establish baseline radiological information that will be used in determining and evaluating impacts from operations at the plant on the local environment. The REMP will be initiated at least 2 years prior to plant operations in order to develop a sufficient database.

The data summarized above, supplemented with the REMP data, will fully characterize the background radiation levels at the NEF site.

SECTION 4 – ENVIRONMENTAL IMPACTS

Pursuant to 10 CFR 51.45(c), the ER is required to include an analysis that considers and balances the environmental effects of the proposed action, the environmental impacts of alternatives of the proposed action and alternatives available for reducing or avoiding adverse environmental effects.

4-1 Visual/Scenic Resources Impacts:

Provide a copy of the artistic rendering showing a view of the proposed NEF and how it would visually impact the site and surrounding area.

LES Response

Figure ER RAI 4-1.1, "Aerial View," is an artistic aerial view of the NEF and surrounding area. Figure ER RAI 4-1.2, "View to the Northwest," Figure ER RAI 4-1.3, "View to the East," Figure ER RAI 4-1.4, "View to the South," and Figure ER RAI 4-1.5, "View to the West," in Attachment 3 to this submittal, provide artistic views of the NEF site and vicinity, looking to the northwest, east, south and west, respectively. The quarry and "produced water" lagoons to the north, the existing Waste Control Specialists (WCS) waste facility to the east, the county landfill to the southeast and New Mexico Route 234 to the south are shown in relation to the NEF site. Land to the west, occupied by a petroleum contaminated soil treatment facility, is undeveloped. Viewing the surrounding area from the NEF site, and looking northward, the quarry and "produced water" lagoons are at a higher elevation. To the east, several low-rise buildings associated with the WCS waste facility are apparent at a distance. Earthen mounds are apparent to the southeast, across New Mexico Route 234. No structures are visible on the adjacent property to the west.

As stated in ER Section 4.9.3.1, considering that proposed plant structures will be similar to existing architectural features on surrounding land, the visual impact of the NEF will be minimal.

4-2 Water Resources Impacts:

A. Provide a complete water balance table identifying the estimated flow rates (maximum and minimum) discharged to each of the wastewater basins identified in Section 4.4.7 and the anticipated evaporation, soil adsorption, or evapotranspiration on a monthly basis.

B. Provide the basis for assuming that the sand and gravel layer at the surface is laterally and wholly indurated across the entire proposed NEF site.

- In Section 3.3, it appears there is an assumption being made that the sand and gravel layer at the surface is laterally and wholly indurated across the entire proposed NEF site. The limited information from the geotechnical borings does not support this assumption.

C. Discuss the contaminant pathways in a lateral direction to a groundwater source within the subsurface (i.e., contaminant migration beyond the bounds of the proposed NEF within the sand and gravel layer above the Chinle formation).

- Section 4.4.2 includes discussions on contaminant pathways only in a vertical direction to a groundwater source and not in a lateral direction within the subsurface.

D. Discuss the potential for water or other liquids from spills or pipeline leaks to migrate and flow along the base of the Chinle Formation.

- In the construction of the proposed NEF, the site would be subject to borrow and fill from onsite. The sand and gravel "fill" could be a pathway for water or other liquids from spills or pipeline leaks. The water or liquids may flow along the base of the fill area in an apparent southwesterly direction based on the slope of the Chinle Formation.

E. Provide any impacts to the surrounding land if the site stormwater retention basin overflows.

LES Response

A. Complete water balances for each of the basins identified in ER Section 4.4.7 are provided in Table ER RAI 4-2A.1a, "Water Balance for Treated Effluent Evaporative Basin (Minimum Scenario)," Table ER RAI 4-2A.1b, "Water Balance for Treated Effluent Evaporative Basin (Maximum Scenario)," Table ER RAI 4-2A.2a, "Water Balance for UBC Storage Pad Stormwater Retention Basin (Minimum Scenario)," Table ER RAI 4-2A.2b, "Water Balance for UBC Storage Pad Stormwater Retention Basin (Maximum Scenario)," Table ER RAI 4-2A.3a, "Water Balance for Site Stormwater Detention Basin (Minimum Scenario)," and Table ER RAI 4-2A.3b, "Water Balance for Site Stormwater Detention Basin (Maximum Scenario)," in Attachment 2 to this submittal.

The water balances consider the following components:

- Direct precipitation falling within the basin berms for all 3 basins.

- Stormwater runoff for the UBC Storage Pad Stormwater Retention Basin and the Site Stormwater Detention Basin.

- Other inflows (i.e., discharge from Liquid Effluent Collection and Treatment System for the Treated Effluent Evaporative Basin and cooling tower and heating boiler blowdown for the UBC Storage Pad Stormwater Retention Basin).

- Evaporation for all 3 basins.

- Infiltration for the Site Stormwater Detention Basin. The Treated Effluent Evaporative Basin and the UBC Storage Pad Stormwater Retention Basin are lined. Therefore, infiltration is not considered for these basins.

The water balances include the following inputs and assumptions:

- The minimum and maximum monthly precipitation values are based on data from Hobbs, New Mexico. The annual minimum and maximum precipitation amounts were distributed by month using the average annual distribution by month. Use of the minimum precipitation amounts provides a minimum discharge scenario. Use of the maximum precipitation amounts provides a maximum discharge scenario. These data were used in lieu of ER Table 3.6-1B which provides the extreme maximums and minimums for each month at Hobbs over a 30-year period of record. The information in ER Table 3.6-1B is not representative of what would occur over a very dry or very wet calendar year.

- The discharge from the Liquid Effluent Collection and Treatment System for the Treated Effluent Evaporative Basin was based on the expected average monthly flow.

- The cooling tower blowdown was based on the expected average annual discharge. Monthly distribution will not be available until final design.

- The heating boiler blowbown was based on the expected average annual discharge. This component is relatively small and is not expected to vary significantly month by month.

- Annual evaporation at the site is 203.2 cm (80 in) per year. Monthly distribution was based on information from Roswell, New Mexico.

- Monthly infiltration capacity in the Site Stormwater Detention Basin was conservatively assumed as 61 cm (24 in).

- No credit is taken for outflows from the Site Stormwater Detention Basin through the discharge outlet. Any such flows will eventually infiltrate, evaporate or evapotranspirate.

The tables provide the monthly balance (inflow minus outflow). A positive value indicates that the inflow components exceed the outflow components for the respective basin. A negative value indicates that outflow components will dispose of the entire monthly inflow for the respective basin. The tables also provide the monthly net in the basin. A non-zero value indicates that the basin will contain standing water.

The results for the Treated Effluent Evaporative Basin show that basin outflow due to evaporation will exceed all inflows on a monthly basis for the minimum discharge scenario with the exception of the winter months. Under the maximum discharge scenario, the basin would have standing water in it for most of the year.

The results for the UBC Storage Pad Stormwater Retention Basin show that basin outflow due to evaporation will exceed all inflows on a monthly basis under both discharge scenarios, except for one winter month under the maximum discharge scenario.

The results for the Site Stormwater Detention Basin show that basin outflow due to evaporation and infiltration will exceed all inflows on a monthly basis under both discharge scenarios. Prior to final design of the basin, it is not possible to accurately estimate the distribution of infiltration and evaporation. At this stage in the design, it is reasonable to assume that the basin outflow will be 50 % by infiltration and 50 % by evaporation. Of the amount that infiltrates into the ground, most is expected to eventually return to the atmosphere via evapotranspiration by vegetation growing within and in the vicinity of the basin. As shown in Table ER RAI 4-2A.3, the combination of both potential infiltration and potential evaporation are more than sufficient to dispose of basin inflows on a monthly basis.

B. The five borings are not sufficient to adequately define subsurface conditions for final design purposes, but they are acceptable for judging the feasibility of developing the site. Assuming that the borings are generally representative of subsurface conditions, the site is considered acceptable for the facility structures supported on a system of shallow foundations.

During final design, additional geotechnical investigations will be undertaken to collect more information on the sand and gravel layer.

C. As discussed in ER Section 3.4.15, the nine groundwater exploration borings were performed in the sand and gravel layer above the Chinle Formation and no groundwater was detected. During drilling, only one of the borings produced cuttings that were slightly moist at 1.8 to 4.2 m (6 to 14 ft) below ground surface; other cuttings were very dry. Based on this, it is concluded that a continuous groundwater aquifer does not exist in this layer under the NEF site. Since there is no consistent groundwater in this layer, it does not provide a likely contaminant pathway in the lateral direction.

Due to the lack of groundwater in this layer, potential contamination would travel laterally at very small rates, if at all. The travel time to downstream users through a lateral contaminant pathway would be significant. The lack of ground water in this layer is supported by information from the adjacent Waste Control Specialists (WCS) ground water investigations.

D. During a May 14, 2004, conference call between LES and NRC representatives, the NRC provided a clarification for RAI 4-2D. RAI 4-2D should read: "Discuss the potential for water or other liquids from spills or pipeline leaks to migrate and flow along the top of the Chinle Formation."

Engineered fill will be used during site preparation. The engineered fill will likely be placed against the existing dense sand and gravel layer in some locations, as required.

As discussed in ER Section 3.4.15, the nine groundwater exploration borings were performed in the sand and gravel layer above the Chinle Formation and no groundwater was detected. During drilling, only one of the borings produced cuttings that were slightly moist at 1.8 to 4.2 m (6 to 14 ft) below ground surface; other cuttings were very dry. Based on this, it is concluded that a continuous groundwater aquifer does not exist in the sand and gravel layer under the NEF site. Since there is no consistent groundwater in this layer, it does not provide a likely contaminant pathway in the vertical direction. Addition of on-site fill is not expected to alter this situation.

Due to the lack of groundwater in the sand and gravel layer, potential contamination would travel laterally at very small rates, if at all. The travel time to downstream users through a lateral contaminant pathway, would be significant.

The potential for water or other liquids from spills or pipeline leaks to introduce sufficient amounts of liquid to saturate the sand and gravel layer to a point where significant contaminant migration reaches and flows along the top of the Chinle Formation, is considered unlikely.

E. The Site Stormwater Detention Basin will be designed to accommodate the 24-hour, 100-year return frequency storm. That storm delivers 15.2 cm (6 in) of rain in 24 hours. In addition, the basin has 0.6 m (2 ft) of freeboard beyond the design capacity. The basin will also be designed to discharge post-construction peak flow runoff rates from the outfall that are equal to or less than the pre-construction runoff rates from the site area. The water quality of the discharge will be typical of runoff from building roofs and paved areas from any industrial facility. Except for small amounts of oil and grease typically found in runoff from paved roadways and parking areas, the discharge is not expected to contain contaminants.

During a rainfall event larger than the design basis, the potential exists to overflow the basin if the outfall capacity is insufficient to pass beyond design basis inflows to the basin. Overflow of the basin is an unlikely event. The additional impact to the surrounding land over that which would occur during such a flood alone, is assumed to be small. Therefore, potential overflow of the Site Stormwater Detention Basin during an event beyond its design basis is expected to have a minimal impact to surrounding land.

4-3 Socioeconomic Impacts:

A. Clarify the radius of influence (ROI) for the proposed NEF.

- Section 3.10 describes the radius of influence (ROI) as 120 km (75 mi), while it is described as 112 km (70 mi) in Section 4.10.

B. Explain how the projected population increases due to construction and operation would impact the ROI.

C. Provide a description of the potential impact of a similar population increase on the area within a reasonable commuting distance (e.g., 10 to 25 miles) of the proposed NEF.

- Sections 4.10.1.2 and 4.10.2.1 describe the impact of the anticipated population increase on the surrounding area. It states that the population increase from construction and operation workers would be less than a 1 percent increase over the existing population of Lea and Andrews Counties and therefore, have no significant impact on the area. However, it may be more reasonable to assume that both the construction and operation work forces that relocate to the area would move within the ROI rather than dispersing equally throughout the combined 15,268 km^2 (5,895 mi^2) area of Lea and Andrews Counties.

LES Response

A. LES will revise ER Section 3.10 and 4.10.1 in the next revision to the ER as follows:

- Section 3.10 will be revised to state: "The primary labor market for the operation of the proposed facility will come from within about 120 km (75 mi) of the site."

- ER Section 4.10.1 will be revised to state: "The bulk of this labor force is expected to come from the surrounding 120-km (75-mi) region due to the relatively low population of the local site area (Table 3.10-3, Civilian Employment data, 2000)."

The basis for selection of the 120 km (75 mi) radius is that it encompasses the Midland-Odessa, Texas area which is approximately 103 km (64 mi) to the southeast. This is the farthest distance from which LES expects the bulk of the labor force to originate.

B. The impact estimates provided in ER Section 4.10 are based on the combined population of Lea and Andrew counties. The population in New Mexico and Texas within about 120 km (75 mi) of the site is larger than the combined population of Lea and Andrews counties. Therefore, the projected increase in population reported in Section 4.10 would be reduced if spread over the area within 120 km (75 mi) of the site due to the higher population. This is the case for both the construction and operation periods. This minor increase in population would produce a minor impact on population characteristics, economic trends, housing, community services (health, social and educational resources), and the tax structure and distribution within 120 km (75 mi) of the site during both the construction and operation period.

C. As shown in ER Table 3.10-1, the population of Lea County, New Mexico was approximately 55,511 in 2000. The three closest population centers to the site in Lea

County are Eunice at 8 km (5 mi), Hobbs at 32 km (20 mi), and Jal at 37 km (23 mi). The populations of these three areas in 2000 were approximately 2,562, 28,657, and 1,996, respectively, providing a combined total population of approximately 33,215. If the entire construction phase population increase of 360, reported in ER Section 4.10.1.2, is assumed to relocate to these three areas, a total construction phase population increase of approximately 1.1 percent would result.

As shown in ER Table 3.10-1, the population of Andrews County, Texas, was approximately 13,004 in 2000. The two closest population centers in Andrews County to the site are Andrews and Seminole at 51 km (32 mi) each. The populations of these two areas in 2000 were 9,652 and 5,910, respectively. It is reasonable to assume that the population increase due to the NEF construction and operation would mostly relocate to this representative set of nearby population centers: Eunice, Hobbs and Jal, New Mexico, and Andrews and Seminole, Texas. All five locations are within 51 km (32 mi) of the site and are reasonable commuting distances for this region of the country. These five areas have a combined population of 48,777. If the construction phase population increase of 360 is assumed to relocate to all five of the nearby locations (Eunice, Hobbs, Jal, Andrews, and Seminole), a total construction phase population increase of approximately 0.7 percent would result.

A significant number of operational jobs are likely to be filled by residents already living in the region. Therefore, the population increase during operation of the proposed NEF would be less than during facility construction since fewer workers are expected to relocate to the area. The small population increase of approximately 360 during the construction phase is not expected to have a significant impact on the area. Because the population increase during operation is expected to be smaller than the expected population increase during construction, a similar conclusion applies concerning the impact on the area during the operational period of the NEF.

The minor increase in population would produce a minor impact on population characteristics, economic trends, housing, community services (health, social and educational resources), and the tax structure and distribution within Eunice, Hobbs and Jal, New Mexico, and Andrews and Seminole, Texas, during both the construction and operation periods of the NEF.

4-4 Air Quality Impacts:

A. Provide the XOQDOQ model input files used to generate the air quality impact data from the proposed NEF operation in Section 4.6.2.3.

B. Provide the calculations used in estimating the HF and radiological releases from the proposed NEF during operation and decommissioning as identified in Section 4.6.

C. Provide specific information on the plume from the cooling tower as discussed in Section 4.6.3 including:
   1.) Height of plume,
   2.) Areal extent of plume,
   3.) Duration of plume, and
   4.) Extent and duration of fog from plume.

D. Provide the gaseous release points for each radionuclide (at least for the Technical Support Building Gaseous Effluent Vent System (GEVS), Separations Building GEVS, Confinement Ventilation System, and the Centrifuge Test and Post Mortem Facility unless other potential ventilation release points are identified). Information should include:
   1.) Exit area of the stacks,
   2.) Exit height of the stacks,
   3.) Height of release buildings,
   4.) Height of adjacent structure,
   5.) Exit velocity of the stacks,
   6.) Exit temperature of the stacks, and
   7.) Annual released activity (μCi) by radionuclide including uranium daughters.

E. Provide the location, quantity, and source for the emission rates from the release points listed above at the proposed NEF during site preparation, construction, and decommissioning.

F. Provide emission factors, tons of daily emissions, number of vehicles and heavy duty engines, and estimated traffic increases during construction and operation.

LES Response

A. LES has provided a compact disc as an enclosure to this submittal containing the electronic XOQDOQ model input files used to generate the air quality impact data from the proposed NEF operation in Section 4.6.2.3. The XOQDOQ input file for the Technical Services Building (TSB) to the site boundary is provided as file name "run2.in" and the XOQDOQ input file for the Centrifuge Assembly Building (CAB) to the site boundary is provided as filename "runcab.in." The TSB XOQDOQ input data includes the nearest resident, business, school, and church receptors.

B. As stated in ER Section 4.6.2.1, the HF and radiological gaseous effluent releases from the proposed NEF are expected to be less than 1 kg (2.2 lbs) HF and 10 g (0.022 lbs) of Uranium per year during operations. Estimates for the releases during the

decommissioning period were not provided in the ER, but would inherently be substantially less. These values of gaseous effluent are based on operational experience at the Urenco Capenhurst Limited (UCL) enrichment facility in the United Kingdom.

For purposes of radiological impact analysis (refer to ER Section 4.12.2), the expected 10 g (0.022 lbs) of Uranium released per year was conservatively increased for the ER analysis to an equivalent value of 8.9 MBq/yr (240 μCi), or a 28-fold increase over what would be expected from the operational experience data, even after parameters were scaled where appropriate to account for the differences in plant throughput and air exhaust rates. Furthermore, this bounding value is supported on previous review by the NRC as documented in NUREG-1484, "Final Environmental Impact Statement for the Construction and Operation of Claiborne Enrichment Center." Since the NEF has been scaled up to a 3 million Separative Work Unit (SWU) capacity plant, the Claiborne gaseous pathway annual release (4.5 MBq/yr (120 μCi/yr)) was doubled to 8.9 MBq/yr (240 μCi/yr) for the NEF bounding impact estimate. This bounding release estimate was assumed over the life of the facility to conservatively cover unexpected operational differences in treatment equipment performance as well as initial periods from initial startup through build-out to full capacity, and final period of decommissioning which is expected to generate a fraction of the operational period gaseous releases.

As such, there was no "calculation" associated with the release values provided in ER Section 4.6.

C. The proposed NEF Cooling Water System design incorporates closed circuit hybrid cooling towers. These types of cooling towers allow for multiple modes of operation consisting of both wet and dry cooling. Selecting the appropriate mode of operation for the existing meteorological conditions and plant heat load minimizes the plume from the cooling tower. During the cooler months of the year when the potential of a plume is the greatest, the cooling towers will be operating in the dry mode and so there will be no visible plume. During the warmer months of the year, when the cooling tower spray pumps are operating, the discharge air is preconditioned with dry heat by the cooling tower dry coil. This preconditioning minimizes the cooling tower's resulting plume.

Upon completion of the Cooling Water System design, details of the duration, height, areal extent of the plume, and any resulting fog will be quantified and incorporated in the ER.

D. Design information for each of the effluent release points is presented in Table ER RAI 4-4D.1, "Effluent Release Point Design Parameters," in Attachment 2 to this submittal. Figure ER RAI 4-4D, "Release Point Locations," in Attachment 3 to this submittal shows the locations of the release points. The primary release pathways for radioactivity discharged from the facility is via the Technical Services Building (TSB) and Separation Building Gaseous Effluent Vent Systems (GEVS). Both of these exhaust stacks, as well as the TSB Confinement Ventilation System stack, are located on the TSB roof. In the preliminary design, 63% of the Uranium discharged is expected to be released via the TSB GEVS, with the remaining 37% estimated for Separation Building GEVS. Only trace amounts of Uranium are associated with the TSB Confinement Ventilation System and the Centrifuge Assembly Building Centrifuge Test and Post Mortem Facility exhausts and as such are not expected to release any detectable radioactivity above system background.

The expected isotopic release mix resulting from the estimated annual release of 10 g (0.022 lbs) of Uranium is provided in Table ER RAI 4-4D.2, "Annual Effluent Releases," in Attachment 2 to this submittal. For gaseous effluents derived from the sublimation of Uranium Hexafluoride (UF_6), no significant amount of particulate Uranium progeny are expected to be introduced into the process system and be released to the environment after GEVS filtration.

E. During a May 14, 2004, conference call between LES and NRC representatives, the NRC provided a clarification for RAI 4-4E. RAI 4-4E should read: "Provide the location, quantity, and source for the emission rates from all release points at the proposed NEF during site preparation, construction, and decommissioning."

Emission types during site preparation are described in ER Section 4.6.1 as exhaust emissions from construction vehicles on-site and fugitive dust from vehicle traffic on unpaved surfaces, earth moving, excavating, and bulldozing, and to a lesser extent from wind erosion. The total annual emissions of hydrocarbons predicted from the site are approximately 4,535 kg (5 tons) as discussed in ER Section 4.6.1. The calculated Total Work-Day Average Emissions result for fugitive dust is 2.4 g/s (19.1 lb/hr) as provided in ER Table 4.6-1.

The location, quantity, and source for the emission rates for all release points at the proposed NEF during construction are provided in Table ER RAI 4-4E.1, "Construction Emission Types," in Attachment 2 to this submittal.

The location, quantity, and source for the emission rates for all release points at the proposed NEF during decommissioning are provided in Table ER RAI 4-4E.2, "Decommissioning Emission Types," in Attachment 2 to this submittal.

Section 4.6 will be revised to incorporate this information in the next revision to the ER.

F. <u>Traffic Increases</u>

The maximum potential increase to traffic due to construction workers is 800 roundtrips per day. This value is based on the peak number of construction workers. The maximum potential increase to traffic due to construction deliveries and waste removal is 10,318 roundtrips over the site preparation and major building construction period. This value is based on the estimated number of material deliveries and construction waste shipments during the three-year period of site preparation and major building construction. This value does not include the number of truck deliveries for centrifuge and process equipment since this information is not available at this time.

The maximum potential increase to traffic due to operational workers is 210 roundtrips per day. This value is based on the size of the operational work force. The maximum potential increase to traffic due to operational deliveries and waste removal is 4,300 roundtrips per year. This value is based on an estimated 1,500 radiological shipments per year (see the response to RAI 4-6B; 1,500 is the sum of maximum shipments from Table ER RAI 4-6B.3, "Annual Shipment to/from NEF (by Truck)," plus 2,800 non-radiological shipments per year (see the response to RAI 4-6C)).

Air Emissions During Construction:

During the three-year period of site preparation and major building construction, offsite air quality will be impacted by passenger vehicles with construction workers commuting to the site and trucks delivering construction materials and removing construction wastes. Emission rates from passenger vehicle exhaust were estimated for a 64.4-km (40-mi) roundtrip commute for 800 vehicles per workday. No credit was taken for the use of car pools. Emission rates from delivery trucks were estimated for a 322-km (200-mi) roundtrip for 14 vehicles per workday. It was assumed that there are 250 workdays per year (five-day work week and fifty-week work year). Emission factors are based on EPA AP-42, Compilation of Air Pollutant Emission Factors, Volume II: Mobile Sources, dated 1991. The resulting emission factors, tons of daily emissions, number of vehicles and heavy duty engines are provided in Table ER RAI 4-4F.1, "Offsite Vehicle Air Emissions During Construction."

The construction estimates for daily emissions are based on the average number of trucks per day. There will be peak days, such as when large concrete pours are executed, where there will be more than the average number of trucks per day. This peak daily value of truck trips is not available at this time. It is estimated, however, that the daily emission values presented in Table ER RAI 4-4F.1 that are based on the average number of trucks could be about an order of magnitude higher on the peak days.

Air Emissions During Operation:

During operation, offsite air quality will be impacted by passenger vehicles with NEF workers commuting to the site, delivery trucks, UF_6 cylinder shipment trucks, and waste removal trucks. Emission rates from passenger vehicle exhaust were estimated for a 64.4-km (40-mi) roundtrip commute for 210 vehicles per workday. No credit was taken for the use of car pools. Emission rates from trucks were estimated for an average distance of 805 km (500 mi) for 18 vehicles per workday. Emission factors are based on EPA AP-42 dated 1991. The resulting emission factors, tons of daily emissions, number of vehicles and heavy duty engines are provided in Table ER RAI 4-4F.2, "Offsite Vehicle Air Emissions During Operations."

4-5 Noise Impacts:

Predict the noise level at the proposed NEF boundary during construction.

LES Response

As stated in ER Section 4.7.1.1, noise generated from construction equipment (i.e., backhoes, front loaders, bulldozers, dump trucks, cement mixers, cranes, compressors, generators and pumps) would range from 87 to 99 decibel units per the A-weighted scale (dBA) at approximately 9.1 meters (30 feet). As shown on ER Figures 1.2-4 and 6.1-2, the nearest manmade structures to NEF boundaries, excluding the two driveways, are the Site Stormwater Detention Basin and the Visitor Center at the southeast corner of the site. The southern edge of the Site Stormwater Detention Basin is approximately 15.2 meters (50 feet) from the south perimeter fence and approximately 53.3 meters (175 feet) from New Mexico Route 234. The eastern edge of the Visitor Center is approximately 68.6 meters (225 feet) from the east perimeter fence. As stated in ER Sections 3.7 and 4.7.5, considering that the sound pressure level from an outdoor noise source decreases 6 decibel units (dB) per doubling of distance, the highest noise levels are predicted to be within the range of 84 to 96 dBA at the south fence line during construction of the Site Stormwater Detention Basin and between 72 to 84 dBA at the east fence line when the Visitor Center is built. As shown in ER Table 3.7-2, these predicted noise level ranges fall within unacceptable sound pressure levels as determined by the US Department of Housing and Urban Development. ER Section 4.2.3 states that New Mexico Route 234 is a main trucking thoroughfare for local industry and ER Section 3.1 states that a landfill is south/southeast of the NEF across New Mexico Route 234 and that the adjacent property to the east of the NEF is vacant land. Therefore, there are no sensitive receptors at the NEF south and east boundaries. In addition, noise levels in the predicted ranges at the south and east fence lines would only be for a short duration and only during construction of the portions of both structures closest to the fences.

Noise levels generated during construction of the driveways would be comparable to traffic noise along the highway and would only be for a short period of time. Noise levels at other NEF boundaries during construction should be less since other construction activities will typically be further from the property lines.

In summary, the highest noise levels during construction are predicted to be within the range of 84 to 96 dBA at the south fence line during construction of the Site Stormwater Detention Basin and between 72 to 84 dBA at the east fence line when the Visitor Center is built. Noise levels in the predicted ranges at the south and east fence lines would only be for a short duration and only during construction of the portions of both structures closest to the fences. The south fence line is about 38.1 meters (125 feet) from New Mexico Route 234 and the east fence line is adjacent to vacant land.

4-6 Transportation Impacts:

A. Provide the following information for the shipments of supplies and materials to the proposed NEF and wastes from the proposed NEF during construction:
   1.) Mode of shipment (rail, truck, etc.),
   2.) The type of material,
   3.) Origin or destination of each type of shipment (e.g., Lea County Landfill), and
   4.) Estimated number of shipments by material type for each year of construction.

B. Provide for all radioactive shipments (e.g., feed material, product, depleted Uranium, low-level waste, contaminated empty Type 48X, 48Y, and 30B cylinders, etc.) to or from the proposed NEF by truck or rail, the following information:
   1.) Curie content by isotope,
   2.) Radiation at 1 meter from the surface,
   3.) Estimated number of annual shipments,
   4.) Estimated number of packages per shipment,
   5.) Air pollution impacts from normal transportation,
   6.) Estimated number of traffic accidents,
   7.) Radiological and/or chemical impacts from potential accidents, and
   8.) Origin or destination of the shipments.

C. For all non-radioactive shipments (operating supplies, office products, chemicals, empty Type 30B cylinders, etc.) to the proposed NEF, provide the annual number of truck and rail deliveries and shipments expected during operation.

D. For all non-radiological waste shipments from the proposed NEF during operation, provide the following information:
   1.) Place of origin onsite and number of each type of waste shipment, and
   2.) Destination of waste, including current number of annual deliveries to the waste receiver and remaining capacity of the disposal sites.

E. Verify and provide an example of the calculations used to generate the dose equivalent of 9.47 rem to a driver during normal transport in Section 4.2.7.6.

- Sections 2.3 and 4.2.7.6 states that the annual dose equivalent for a truck driver during incident-free transportation is 9.47 rem. Regarding the feed shipments from Ontario, Section 2.3 does not state that the dose per shipment is a collective dose. However, Section 4.2.7.6 appears to indicate that the dose is collective, cumulative over the life of the proposed NEF, and based on 2 drivers per shipment.

LES Response

A. Information on shipments of construction supply and waste materials to and from the proposed NEF site during the peak three year period of plant construction is provided in Table ER RAI 4-6A.1a, "Supply Materials Shipped to the Proposed NEF Construction Year 1," Table ER RAI 4-6A.1b, "Supply Materials Shipped to the Proposed NEF

Construction Year 2," and Table ER RAI 4-6A.1c, "Supply Materials Shipped to the Proposed NEF Construction Year 3," for construction supply materials and Table ER RAI 4-6A.2a, "Waste Materials Shipped from the Proposed NEF Construction Year 1," Table ER RAI 4-6A.2b, "Waste Materials Shipped from the Proposed NEF Construction Year 2," and Table ER RAI 4-6A.2c, "Waste Materials Shipped from the Proposed NEF Construction Year 3," in Attachment 2 to this submittal for waste materials. Information on shipments of centrifuge equipment is not available at this time and is not included in the tables.

B. 1) Curie Content by isotope:

Table ER RAI 4-6B.1, "Container Curie Content by Isotope," in Attachment 2 to this submittal provides the radioactivity content for each container type expected to be transported to or from the NEF site. The values are based on assumptions used to establish a conservative estimate of dose rate from each container, i.e., the in-growth of Uranium progeny has been assumed for a one-year period since the most important radionuclides (as external dose rate contributors) in the decay chains attain secular equilibrium within this time. Actual shipment of feed and product cylinders is expected in time frames shorter than 1 year.

The "heels" refer to empty cylinders (types 48X and 48Y) containing the Uranium progeny remaining in the feed cylinders after all UF_6 has been removed.

Solid waste was assumed to be contaminated with natural Uranium at the level of 10 nanoCi/g which represents the regulatory limit specified in 10 CFR 61.55 for Class A waste.

2) Radiation at 1 meter from the surface

Table ER RAI 4-6B.2, "Estimated Dose Rates from UF_6 and Waste Containers," in Attachment 2 to this submittal provides the estimated dose rates from each of the containers used in the shipment of UF_6 materials (feed, product or depleted Uranium cylinders) and radwaste packages (55 gallon drums). The dose rates assume one-year decay and in-growth of Uranium progeny.

3) Estimated number of annual shipments

The estimated number of annual shipments is presented in Table ER RAI 4-6B.3, "Annual Shipments to/from NEF (by Truck)," in Attachment 2 to this submittal. At this time, all radioactive shipments are anticipated to be trucked to and from the site.

4) Estimated number of packages per shipment

The number of actual packages per truck shipment varies depending on the type of container being used. Feed material supplied in 48Y cylinders are shipped one per truck. If 48X cylinders are used to provide feed material, these are typically shipped two per truck. Enriched Uranium product 30B cylinders are typically shipped two per truck, although up to five cylinders per truck can be shipped. Solid waste shipments are assumed to contain 60 fifty-five gallon drums per shipment. Depleted Uranium material will typically be shipped in 48Y cylinders, one per truck.

5) Air pollution impacts from normal transportation

ER Table 4.2-1 provides a list of possible radioactive material transportation routes. This table, with additional information on emission factors for Heavy Duty Diesel Powered Vehicles (on-road) from EPA AP-42, "Compilation of Air Pollutant Emission Factors," 5th Edition, November 24, 2000, and subsequent pollution impacts, is provided in Table ER RAI 4-6B.4, "Annual Air Pollution Impacts from Normal Transportation," in Attachment 2 to this submittal for each potential destination or shipment origin.

6) Estimated number of traffic accidents

Based on the crash statistics of large trucks transporting all types of radioactive materials in the US between 1999 and 2001 (Federal Motor Carrier Safety Administration (FMCSA), Department of Transportation (DOT): FMCSA-RI-02-011, "Large Truck Crash Facts 2001," FMCSA-RI-02-003, "Large Truck Crash Facts 2000," and DOT-MC-01-104, "Large Truck Crash Facts 1999"), an average accident rate of approximately 4.7 accidents per year has been determined for this class of hazardous materials. Conservatively estimating that the 1,500 annual truck shipments to and from the NEF represent less than 10% of all US truck shipments of radioactive materials, the estimated numbers of accident events that could be associated with the NEF are shown in Table ER RAI 4-6B.5, "Annual Transportation Accidents," in Attachment 2 to this submittal.

7) Radiological and/or chemical impacts from potential accidents

As noted in ER Section 4.2.7, radioactive material shipments will be transported in packages that meet the requirements of 10 CFR 71 and 49 CFR 173 as applicable for the mode of shipment and quantity of material in the shipping package. This includes shipping containers and transport outer protective packages designed to Department of Transportation (DOT) specifications in 49 CFR 178 to protect the contents during potential accident events. Additional guidance specific to the packaging of UF_6 for shipment is taken from the American National Standard ANSI N14.1-2001 "Uranium Hexafluoride – Packing for Transport." The NRC has evaluated the environmental impacts resulting from the transport of nuclear materials in NUREG-0170, "Final Environmental Statement on the Transportation of Radioactive Material By Air and Other Modes," and updated by NUREG/CR-4829, "Shipping Container Response to Severe Highway and Railway Accident Conditions." These references include accident scenarios related to the transportation of radioactive material. The NRC found that these accidents have no significant environmental impacts. The NRC, within the scope of environmental impact, has evaluated the materials that will be transported to and from the NEF. In addition, the US Department of Energy (DOE) has studied the impacts of transportation of depleted Uranium Hexafluoride cylinders as part of their long-term management planning for the handling of this material ("Final Programmatic Environmental Impact Statement for Alternative Strategies for the Long-Term Management and Use of Depleted Uranium Hexafluoride," DOE/EIS-0269, April 1999). The conclusions of the DOE study show that projected traffic accidents involving the release of radiation or chemicals from Uranium Hexaflouride cylinders would not result in any immediate fatalities and would, in the worse case, result in only a very small fraction of additional latent cancer fatalities over that expected in the general population from all causes.

Because these impacts have been addressed in a previous NRC environmental impact statement, no additional transportation accident analysis specific to NEF has been performed.

8) Origin or destination of the shipments

The transportation points to and from the NEF site in New Mexico are presented in Table ER RAI 4-6B.6, "Transportation Destinations (To/From) NEF," in Attachment 2 to this submittal.

C. At this time it is anticipated that the rail line would not be utilized for normal operation deliveries. Therefore, there are no rail deliveries or shipments to consider during routine operation. The number of truck deliveries during operation is estimated to be 2,800 per year.

D. NEF on-site generated non-radiological wastes will consist of solid and liquid wastes. These can be sub-classified as "hazardous" in accordance with 40 CFR 261, "Identification and listing of hazardous waste," or non-hazardous. The quantities of annual, non-radiological wastes are listed in Table 3.12-2 in the ER.

1) Non-radiological, Hazardous Wastes

As reflected in ER Table 3.12-2, the annual volumes of non-radiological hazardous wastes are small. These wastes, which are principally from maintenance operations in the Technical Services Building, will be disposed of at a facility that accepts hazardous wastes. Since the quantities of hazardous wastes are small, it is reasonable to expect these wastes would be shipped approximately four times per year. It is expected that each shipment will contain a total volume of approximately 1,609 liters (425 gallons) of non-radiological hazardous waste.

Non-radiological, Non-hazardous Wastes

As reflected in ER Table 3.12-2, non-radiological, non-hazardous wastes primarily consist of miscellaneous combustible wastes, miscellaneous scrap metals, spent vehicle motor oil, spent vehicle oil filters and building ventilation air filters. Non-radiological, non-hazardous wastes come from various operations throughout the facility, and will be disposed of at a standard waste disposal site (e.g., landfill).

The estimated volume of building ventilation air filters for disposal will fill approximately 185 (8-cubic yard) dumpsters per year. It is expected that the waste disposal company will unload at least two of these dumpsters into the truck per trip. Therefore, approximately 93 truck shipments per year are expected for disposal of these filters.

Based on discussions with waste disposal companies and experience, it is expected that all other non-radiological, non-hazardous wastes would fill two (8-cubic yard) dumpsters per week. It is expected that the waste disposal company will empty these dumpsters every week using one truck. Therefore, approximately 52 truck shipments per year are expected for disposal of the non-radiological, non-hazardous wastes.

Total Non-radiological Waste Shipments

Based on the above, it is expected that approximately 150 truck shipments would be required per year to remove all non-radiological wastes from the NEF.

2) Non-radiological, Hazardous Waste Disposal Sites

The non-radiological, hazardous wastes will be transported to a local or regional Resource Conservation Recovery Act (RCRA)-approved treatment, storage, and disposal facility (TSDF). A local TSDF is the Waste Control Specialists (WCS) facility adjacent to the NEF site. The WCS is a storage and treatment facility with a permitted disposal area that can accommodate more than 8.4 million cubic meters (11 million cubic yards) of waste, which is equivalent to approximately 100 years of facility life. Regional TSDFs include Safety-Kleen Corporation in Albuquerque, New Mexico, or El Paso and Amarillo, Texas. Safety-Kleen provides waste treatment services. After treatment, the waste is sent to a third-party disposal facility, which varies depending on the type of waste. The annual number of deliveries to a non-radiological hazardous waste receiver is expected to be approximately four.

Non-radiological, Non-Hazardous Waste Disposal Sites

The non-radiological, non-hazardous wastes will be disposed of at a nearby landfill. The Lea County Landfill has a remaining capacity of more than 50-years, which is expected to be adequate for disposal of NEF wastes and other local area wastes. Other regional landfills (e.g., Sand Point in Eddy County, New Mexico) are also options for disposal of this type of waste material. The annual number of deliveries to the non-radiological, non-hazardous waste receiver is expected to be no more than 150.

E. The basis for computation of the driver exposure time was taken from NUREG/CR-0130, "Technology, Safety and Costs of Decommissioning a Reference Pressurized Water Reactor Power Station" (June 1978), Section 11.4.1, which states the following transportation assumptions:

Number of drivers	2
Transportation time	1,000 miles per 24-hr day
Time outside truck	2 hrs per 1000-mile trip
Average distance from truck while outside truck:	2 m (6.6 ft)

For dose rates off the truck, the receptor was assumed to be on the side of the container, at mid length (i.e., at the worst-case position). The cab dose drivers were also taken at 2 m (6.6 ft), on the axis for the feed, product, and tails containers, and on the side for the waste drums.

For example, the calculated driver dose rates for a shipment of 48Y feed cylinders from Port Hope, Ontario, to NEF (approximately 1,780 mi) is based on:

- Inside cab driver dose rate 7.247E-02 mrem/hr
- Outside cab driver dose rate 1.403E-01 mrem/hr

The transportation dose to a truck driver per shipped container was calculated by multiplying the cab dose rate times 24 hours (the travel time for a 1,000-mile trip), adding to that an additional 2-hour dose due to standing outside the truck at 2 m (6.6 ft) from the side of the container, and then multiplying the total dose by the truck distance traveled (in 1,000-mile units). The result was then multiplied by 2, the number of truck drivers per shipment.

Dose per 1,000 mile trip, and dose per mile:

= [dose while in cab] + [dose while outside cab]
= [7.247E-02 (mrem/hr) x 24 (hrs)] + [1.403E-01 (mrem/hr) x 2 (hrs)]
= 2.020 (mrem/1,000 miles)
= 2.020E-03 (mrem/mile)

Dose per trip:

= 2.020E-03 (mrem/mile) x 1,780 (miles) x 2 drivers x 1.0E-03 (rem/mrem)
= 7.191E-03 person-rem/trip

Annual Dose:

= 7.19E-03 person-rem/trip x 690 trips/year
= 4.96 person-rem/year (as given in Table 4.2-2 of the ER).

Total doses were conservatively estimated for any single route by linearly summing the doses from each container being individually transported along that route. This is conservative because no consideration was given to the shielding effect of multiple containers on a single truck, or to differences in the dose point distances due to shipment loading of multiple containers.

The driver dose of 9.49 person-rem (note the correction from 9.47, a typo) reported in Section 4.2.7.6, corresponds to the following hypothetical worst-case transportation routes (from Table 4.2-2):

- Ship 690 feed cylinders (48Y) from Port Hope, Ontario:	4.96 person-rem/yr
- Ship 350 product cylinders (30B) to Wilmington, NC:	1.01 person rem/yr
- Ship 160 fifty-five gallon drums to Barnwell, SC:	0.015 person-rem/yr
- Ship 625 depleted UF_6 in 48Y cylinders to Portsmouth, OH	3.50 person-rem/yr
Total:	9.49 person-rem/yr

The driver dose of 9.49 person-rem (note the correction from 9.47, a typo) reported in ER Sections 2.3 and 4.2.7.6 is a total driver dose for all annual shipments to the two drivers in each truck. The reported dose is not cumulative over the life of the proposed NEF. In the next revision to the ER, Section 2.3 will be revised to reflect "per year" cumulative dose impacts for all categories.

4-7 Public and Occupational Health Impacts:

A. Provide a discussion on how the Urenco's Capenhurst Plant occupational exposures and occupational injury rates are valid for the proposed NEF.

- Section 3.11.2.1 states that "occupational injury rate at the proposed NEF is expected to be similar to other operating uranium enrichment plants." Table 3.11-1 provides lost time accidents at the Capenhurst Plant. Although the proposed NEF would be similar in operation to the existing Capenhurst Plant, the proposed NEF would produce twice as many SWUs as the Capenhurst Plant.

B. Identify whether the size of the onsite workforce at the proposed NEF would be the same as at the Capenhurst Plant.

C. Provide the level of education, experience, and safety training at the Capenhurst Plant.

D. Provide the education and safety training planned for the proposed NEF.

E. Provide a description of the column "Target Max LTAs" in Table 3.11-1.

F. Provide a discussion of the non-radiological accidents in Section 4.12.3 to the public, workers, and equipment or provide justification why no such discussion is needed.

G. Justify the assumption used in the liquid effluent dose assessment in Section 4.12.2.1.2 that "the TEEB is assumed to be dry no more than 10 percent of the time."

- The pan evaporation rate for southeastern New Mexico and western Texas is approximately 80 inches per year. From Figure 4.12-2, the areal extent of water in the TEEB is approximately 30,000 - 50,000 square feet. Therefore, the expected annual evaporation rate could be expected to remove at least 1,500,000 gallons per year from the TEEB. With an expected annual treated liquid effluent volume of not more than 670,000 gallons, the TEEB would likely remain mostly dry, rather than mostly wet. As a result, the sludge would be subjected to wind erosion and suspension more than 10 percent of the time.

LES Response

A. The existing Urenco Capenhurst Limited (UCL) plant, referred to in RAI 4-7A, is the E23 plant. The output of the proposed NEF is approximately twice the output of the E23 plant. However, the Capenhurst site includes the A3, E22, and E23 enrichment plants. The lost time accidents data provided in ER Table 3.11-1 includes data for the A3, E22 and E23 enrichment plants The present Capenhurst combined site output for these plants is 2.96 million Separative Work Units (SWUs) compared to the proposed 3 million SWUs for the NEF. Because the operations at both sites are similar, the occupational injury exposure and rates can be considered comparable. Therefore, based on the SWU equivalence, the occupational exposure and injury rates from the Capenhurst site are considered to be appropriate for estimating the occupational exposure and injury rates for the proposed NEF.

B. The on-site work force at Capenhurst is 270, which includes both the enrichment operation and other operations personnel at the site. At NEF, the on-site work force will be 210. The staff work forces are similar at the two sites when considering only the work force that supports enrichment operations.

C. The average worker at Capenhurst has 20.5 years of nuclear experience. The educational system in the United Kingdom differs from the educational system in the United States. The Higher National Certificate (HNC) is approximately equivalent to two years full-time schooling. The HNC is required for entry to a four-year university. Approximately 30% of the Capenhurst work-force attended a university. The average worker has 3.2 years of education at the HNC level and higher. The equivalent qualifications and training for the NEF workforce are provided in response to RAI 4-7D, below.

Safety training is carried out for all site personnel using an induction manual and through the use of specific safety instructions for contractors. The induction manual used for safety training provides all new Urenco employees with an understanding of the conditions, procedures, and safety principles required on-site. The manual has 10 modules that cover topics such as security, safety, emergency alarms and actions. The safety module covers safety instructions, which are mandatory for all personnel and are used to ensure compliance with regulatory and other health, safety, and environmental requirements. Safety instruction categories include administration, nuclear site license, industrial safety, ionizing radiation, occupational hygiene, and emergency planning.

The safety instruction used for safety training of on-site contractors at Capenhurst covers the procedures to ensure contractors have the competence and resources to perform their work safely and not endanger other plant personnel or the environment. Contractors also receive induction training and are supervised at all times while on site to ensure compliance with the relevant health, safety, and environmental management system requirements.

D. Safety training requirements are discussed in SAR Section 11.3.3.1, "General Employee Training." All persons under the supervision of facility management (including contractors) must participate in General Employee Training. In part, the scope of this training includes:

- Industrial safety, health and first aid
- Chemical safety
- Nuclear safety
- Emergency Plan and implementing procedures
- Use of dosimetry
- Use of equipment and protective clothing

Additionally, Job Hazard Analysis (JHA), sometimes referred to as Job Safety Analysis (JSA) (i.e., a step-by-step process used to evaluate job hazards), will be used as part of on-the-job training for providing employees the skills necessary to perform their jobs safely at the NEF.

The safety training for the NEF will comply with the applicable sections of Occupational Safety and Health Administration (OSHA) regulations such as 29 CFR 1910

(Occupational Safety and Health Standards), 1910.1200 (Hazard Communication) and NRC's regulations 10 CFR 20 (Standards for Protection Against Radiation) and 10 CFR 19 (Notices, Instructions and Reports to Workers: Inspection and Investigations).

The level of education requirements for the NEF workforce by job description/title is provided in response to RAI 7-1A, item 3. Specifically, refer to Table ER RAI 7-1A.1, "Descriptions of Job Types During Operation," in Attachment 2 to this submittal for these details.

E. ER Table 3.11-1, "Lost Time Accidents in Urenco Capenhurst Limited (UCL)," tabulates lost time accidents (LTAs) for the Urenco Capenhurst facility for the years 1998-2002. The term "target maximum number of LTAs" is used in the Health, Safety and Environment Report published by Urenco (Capenhurst) Limited. Urenco has stated that the desirable number of lost time accidents is zero; however, a target maximum is set each year as shown in ER Table 3.11-1. The intent is to foster improvement over time and ultimately bring the goal down to zero. The target maximum for the number of lost time accidents at the NEF will be set at zero.

F. A review of injury reports for the Capenhurst facility was conducted for the period 1999-2003. No injuries involving the public were reported. Injuries to workers occurred due to accidents that occurred in parking lots and office environments as well as in the plant. The typical causes of injures sustained at the Capenhurst facility are summarized in Table ER RAI 4-7F.1, "Causes of Injuries at Capenhurst (1999-2003)," in Attachment 2 to this submittal. Non-radiological accidents to equipment that did not result in injury to workers are not reported.

G. In estimating the projected annual dose from liquids released into the TEEB to an individual at the site boundary, the initial operating assumption was that the basin is dry only 10% of the time. This was made in order to estimate the duration of dust re-suspension from the basin into the air. The actual duration that the basin remains dry over a year is dependent on the final design of the TEEB. Final design considerations will take into account the As Low As Reasonably Achievable (ALARA) aspects of maximizing the duration that the basin remains wet in order to minimize to the extent practicable, the potential re-suspension of solids from the basin into the air, thereby minimizing the dose impact.

The predicted maximum exposure at the site boundary from re-suspended solids out of the TEEB results in a very small effective dose equivalent of 1.75E-05 mSv/yr (1.75E-03 mrem/yr). If it is assumed that the basin is dry almost an entire year allowing for a ten-fold increase in the projected dose, the resulting maximum dose equivalent of 1.75E-04 mSv/yr (1.75E-02 mrem/yr) is still a small fraction of the 10 CFR 20.1301 dose limits for members of the public. Similarly, the maximum organ committed dose equivalent from liquid releases would increase from 1.45E-04 mSv/yr (1.45E-02 mrem/yr) to 1.45E-03 mSv/yr (1.45E-01 mrem/yr), which is below the 40 CFR 190 dose limits for members of the public.

4-8 Waste Management Impacts:

A. Describe the efforts planned to recover recyclable materials such as metals, papers, etc. during both construction and operation of the proposed NEF.

B. Provide external and internal effluent monitoring data for at least five years of operation at the Capenhurst and Almelo facilities for all waste streams (gaseous, liquid, and solid), if available. If data is available, adjust as appropriate for any operational differences between the Capenhurst and Almelo facilities and the proposed NEF.

- Sections 3.12 and 4.13 note that the proposed NEF would be similar in operation to the existing Capenhurst and Almelo facilities.

C. Provide all radionuclides and chemicals that are routinely monitored and any abnormal release measurements at the Capenhurst and Almelo facilities.

D. Provide the average, maximum, and minimum volumetric and uranic concentration and HF concentrations over each annual year of data that are equivalent to the proposed NEF evaporative discharge and laundry liquid effluent streams from the Capenhurst and Almelo facilities.

E. Identify the specific regulations that would be followed for disposal of effluent materials unsuitable for the evaporative disposal or for release to the TEEB.

- Sections 3.4.1.2 and 4.4.7 state "... effluents unsuitable for the evaporative disposal will be removed off-site by a licensed contractor in accordance with regulatory requirements" and "effluents unsuitable for release to the TEEB are processed onsite or disposed of offsite in a suitable manner in conformance with pertinent regulations."

LES Response

A. A discussion of the efforts planned to recover recyclable materials will be incorporated in the next revision to the ER. At the current state of conceptual design for the proposed NEF, the construction plan has not been developed enough to determine how much of the construction debris would be recycled. As such, there is no plan in place at this time to recycle construction materials. A recycling program will be developed as the design progresses to final and the construction execution plan proceeds.

During operation, a non-hazardous materials waste recycling plan will be implemented. The recycling effort will start with the performance of a waste assessment to identify waste reduction opportunities and to determine which materials will be recycled. Once the decision has been made of which waste materials to recycle, brokers and haulers will be contacted to find an end-market for the materials. Employee training on the recycling program will be performed so that employees will know which materials are to be recycled. Recycling bins and containers will be purchased and shall be clearly labeled. Periodically, the recycling program will be evaluated (i.e., waste management expenses and savings, recycling and disposal tonnages) and the results reported to the employees.

The cost of disposal of radioactive-contaminated materials necessitates the decontamination and reuse of such materials where practicable. Chemical solutions, such as citric acid, are limited to minimize the volume of mixed waste.

B. External and internal effluent monitoring data for at least five years of operation at the Capenhurst and Almelo facilities are currently being assembled by Urenco to respond to this request. LES will provide the data and address operational differences between the Capenhurst and Almelo facilities and the proposed NEF in the near future.

C. Information on routinely monitored radionuclides and chemicals and any abnormal release measurements at the Capenhurst and Almelo facilities is currently being assembled by Urenco to respond to this request. LES will provide the information in the near future.

D. Urenco is currently assembling information related to the average, maximum, and minimum volumetric and uranic concentration and HF concentrations over each annual year of data that are equivalent to the proposed NEF evaporative discharge and laundry liquid effluent streams from the Capenhurst and Almelo facilities. LES will provide the data in the near future.

E. The State of New Mexico has adopted the US EPA hazardous waste regulations (40 CFR Parts 260 – 266, 268 and 270) governing the generation, handling, storage, transportation, and disposal of hazardous materials. These regulations are found in 20.4.1 NMAC, "Hazardous Waste Management." The ER will be revised to state that the NEF will comply with both the US EPA and the NMAC regulations governing the generation, handling, storage, transportation, and disposal of hazardous materials in the next revision to the ER.

4-9 Decommissioning Impacts:

A. Provide an assessment of the potential radiological and non-radiological impacts that would be associated with the decontamination and decommissioning activities. This assessment should include:
   1.) Number of workers required for decommissioning,
   2.) Change in worker qualifications for decommissioning versus operation,
   3.) Number of low-level waste shipments to a disposal facility, and
   4.) Number of normal trash and construction waste shipments.

B. Provide estimates of the deposition rate of uranium, fluorides, and other chemicals released from normal operation in the soil and the impacts of these accumulated depositions.

C. Identify the depth to which soil contamination may occur considering soil disturbances and wind erosion.

LES Response

A. Section 10.0, "Decommissioning" of the Safety Analysis Report (SAR) describes the decommissioning funding plan and provides information on the decommissioning of the NEF. The major cost of facility decommissioning is attributed to the dismantling, decontamination, processing, and disposal of centrifuges and other equipment in the Separations Building Modules, which are considered classified. The dismantling and decontamination of the equipment in the three Separations Building Modules will be conducted sequentially in three phases over a nine-year time frame. The first two phases will take place while the plant is still operating.

Inventories and wastes at the time of decommissioning will be in amounts that are consistent with routine plant operating conditions over time. Design features are also incorporated into the plant's initial design that will simplify dismantling and decontamination. These features include measures for airborne contamination control, separation of contaminated and non-contaminated process equipment to the extent practical, application of washable epoxy coating to certain floors and walls and the use of non-porous pipe insulation. In addition, operating procedures ensure that precautions are taken to minimize plant contamination during operation.

Given these considerations, the radiological and non-radiological impacts of decontamination and decommissioning are not expected to be significantly different from those encountered during routine operation of the facility. The annual dose equivalent accrued by a typical radiation worker at an operating Uranium enrichment plant is usually low, approximately 0.2 mSv (20 mrem).

An organizational strategy for decommissioning will ensure that adequate numbers of experienced and knowledgeable personnel are available to perform technical and administrative tasks required for decommissioning. As operations cease, the operations personnel will gradually migrate to decommissioning activities. Obviously, these workers will be knowledgeable about enrichment plants, but will require additional training in dismantling/decommissioning activities before such work begins. The cost model for decommissioning assumed a total of 21 workers dedicated to decommissioning activities. The staffing level for routine operations is 210.

It is estimated that a total of 961 truckloads of decommissioning waste will be shipped to a licensed disposal facility over the nine-year decommissioning period. The number of normal trash and construction waste shipments is expected to be similar to the number of construction material and waste shipments made during the construction period. The number of these shipments during construction is estimated at 10,318. These shipments are expected to be spread out over the nine-year decommissioning period.

B. ER Table 3.12-3 shows that the estimated annual gaseous effluent releases are expected to contain less than 10 g (0.022 lbs) of Uranium. In the process system, Uranium is in the form of UF_6, which when in contact with water vapor in air produces HF gas, and a uranyl fluoride (UO_2F_2), a solid that will tend to precipitate out and deposit on the ground. HF and other chemicals that might be trapped in gaseous effluents would only be in trace amounts that when dispersed in the atmosphere would not be expected to be detectable as a deposited quantity.

With respect to the primary release point (i.e., Technical Services Building roof), the most restrictive annual average deposition factor calculated for the site boundary (3.1E-08/m^2 from ER Table 4.6-3A) along with the annual Uranium release, a conservative estimate of the accumulated deposition (assuming no re-suspension with additional dispersion) of Uranium has been determined to be:

- Annual U deposition = 3.1E-07 g/m^2
- 30-year accumulation = 9.3E-06 g/m^2

With the above deposition rate, the expected soil concentration of Uranium can be estimated. As an example, if all the Uranium deposited from plant effluents is assumed to be contained in the top 15 centimeters (5.9 inches) of soil which has a surface density of 240 kg/m^2 (Regulatory Guide 1.109, "Calculation of Annual Doses to Man from Radioactive Releases of Reactor Effluents for the Purpose of Evaluating Compliance with 10 CFR Part 50, Appendix I," Rev. 1, dated October 1977), and noting that the specific activity for U-238 per g of natural Uranium is 12.3 kBq/g (0.3328 μCi/g), the soil concentration of U-238 would be 4.8E-04 Bq/kg (1.3 E-02 pCi/kg) after 30 years. The application of the specific activity of isotopes per gram of natural Uranium is based on the estimation that the annual average release of Uranium from the plant is assumed to be made up of the Uranium content of feed material (UF_6), and the combination of all process UF_6 streams which is approximately equivalent to the isotopic mix of natural Uranium. The average background soil concentration of U-238 measured at the NEF site (see ER RAI Table 3-1A.2) is approximately 5.9 Bq/kg (158 pCi/kg), or about 12,153 times larger than the 30-year expected accumulated concentration from NEF operations. At these levels, the amount of plant deposition will be indistinguishable from the natural background.

C. Low rainfall, high evaporation and evapotranspiration rates in this part of New Mexico result in a limited liquid source that could drive any surface contamination downward. As a result, any air-deposited components from NEF facility releases are expected to remain in the soil near the surface. For the purposes of dose impact analysis, a depth of the top 15 centimeters (5.9 inches) of soil (plow layer) was assumed using the guidance of Regulatory Guide 1.109.

4-10 Waste Management Impacts:

A. Provide the details of the package types that would be used, shipment modes, and the quantity per shipment of each type of radioactive and mixed wastes and non-radiological wastes identified in Table 3.12-1 and Sections 3.12.2 and 4.13.4.2.

B. Provide the package surface dose rate and estimate the worker's exposure for processing, packaging, and shipping these waste streams.

LES Response

A. The intended package type for all radioactive, mixed, and hazardous wastes are 55 gallon drums meeting the general package design requirements of 49 CFR 173.410, "General design requirements." All shipments are planned to be by truck. Typical truck loads are expected to be between 60 and 160 drums per shipment, depending on such variables as weight and dose rate.

The shipment details for non-radiological wastes (hazardous and non-hazardous) are addressed in response to RAI 4-6D.

B. As stated in response to RAI 4-10A, it is intended that 55 gallon drums will be used at the NEF for shipping all radioactive, mixed and hazardous wastes. For drums containing solid radioactive waste materials, the estimated surface dose rate is 0.80 μSv/hr (0.080 mrem/hr).

At the Urenco Capenhurst Limited (UCL) site, the best measure of worker dose for waste handling activities is the dose received by the central material handling operators. At the UCL site, a shared central material handling facility provides waste processing services for the entire site. Since the site is jointly occupied by Urenco and BNFL, the central material handling operators handle radioactive materials for both companies. Therefore, portions of these operators' exposures are received from facilities that are not related to gas centrifuge enrichment operations. These operators also handle Uranium cylinders. At the UCL site, it is reported that the highest central material handling operator dose during the period 1999-2003 was 2.81 mSv (281 mrem) and the highest mean dose during the same period was 2.07 mSv (207 mrem).

At Urenco's Almelo facility, it is reported that workers receive < 1 mSv/yr (100 mrem/yr) processing, packaging, and shipping radioactive wastes associated with gas centrifuge enrichment operations. The Almelo exposure values for waste processing workers are typical of exposures expected at the NEF for workers processing, packaging, and shipping radioactive wastes.

4-11 Cumulative Impacts:

A. Provide the Walvoord and WCS referenced and unreferenced documentations for air (e.g., meteorological tower data), ground water (e.g., sample well information), and soil (e.g., soil analysis).

- Sections 3.3, 3.4, 4.4.2, and 4.6.4 cite or reference data obtained from WCS (such as Rainwater, 1996; TTU, 2000; WBG, 1998) and other sources (Walvoord, 2002) for the site characteristics.

B. Provide an assessment of the cumulative impacts from the proposed NEF construction and operations in relationship to existing and planned Quarry, Lea County Landfill, and WCS operations including the increase in total suspended particulate.

C. Describe potential releases from the proposed low-level radioactive waste disposal facility planned by WCS.

LES Response

A. LES has provided a compact disc as an enclosure to this submittal containing electronic files for the WCS meteorological data (as received from WCS). Also included are files that provide information on the data channels and units used by WCS. A file listing follows.

Filename: BK0011.TXT – Data from October 15, 1999 to December 8, 2000
Filename: RAD115.TXT – Data from November 24, 2000 to January 4, 2002
Filename: RAD117.TXT – Data from November 28, 2000 to August 29, 2002
Filename: RAD119.TXT – Data from December 29, 2002 to August 5, 2003
Filename: WCS Meteorological DataFormat.doc – Format of provided data

The document referenced by Walvoord, 2002, is copyrighted by the American Geophysical Union. The following is the information necessary to obtain a copy:

Deep Arid System Hydrodynamics, 1. Equilibrium States and Response Times in Thick Desert Vadose Zones, Water Resources Research, Vol. 38, No. 12, pp. 44-1 to 44-15, M.A. Walvoord, M.A. Plummer, and F.M. Phillips, 2002,

Copies of the following documents referenced in the ER are enclosed in Attachment 6 of this submittal:

Rainwater, 1996	Evaluation of Potential Groundwater Impacts by the WCS Facility in Andrews County, Texas, Prepared for Andrews Industrial Foundation, K. Rainwater, December 1996.
TTU, 2000	Geology of the WCS-Flying W Ranch, Andrews County, Texas, Prepared for Andrews Industrial Foundation, Texas Tech University Water Resources Center, April 2000.

WBG, 1998 Atomic Vapor Laser Isotope Separation (AVLIS), New Mexico, Technical Appendices, submitted by the State of New Mexico and Waste Control Specialists, LLC.

Copies of additional reports prepared by others that are enclosed in Attachment 6 include:

RCRA Permit Application for a Hazardous Waste Storage, Treatment and Disposal Facility, Andrews County, Texas, Section VI, Geology Report, prepared for Waste Control Specialists, Inc., prepared by Terra Dynamics Incorporated, March 1993.

Waste Control Specialists, 2002 Annual Groundwater Monitoring Report, prepared for Waste Control Specialists, LLC, prepared by Cook-Joyce, Inc., January 25, 2003.

Waste Control Specialists, Section VI, Geology Report, prepared for Waste Control Specialists, prepared by Cook-Joyce, Inc. and Intera, Inc., February 2004. (Includes main body of report, all tables, Figures 6.0-1 through 6.4-17 and Plates 6.2-2 and 6.2-3)

Copies of reports prepared for LES in support of the NEF that are enclosed in Attachment 6 include:

Hydrogeologic Investigation, Section 32; Township 21 Range 38, Eunice, New Mexico, prepared for Lockwood Greene Engineering & Construction, prepared by Cook-Joyce, Inc., November 19, 2003.

Report of Preliminary Subsurface Exploration, Proposed National Enrichment Facility, Lea County, New Mexico, prepared for Lockwood Greene, prepared by MACTEC Engineering and Consulting, Inc., October 17, 2003.

Groundwater Radiological Analytical Report for Monitoring Well MW-2, First Sampling Event, analyzed by Framatome ANP Environmental Laboratory, October 30, 2003.

Groundwater Radiological Analytical Report for Monitoring Well MW-2, Second Sampling Event, analyzed by Framatome ANP Environmental Laboratory, November 26, 2003.

Groundwater Radiological Analytical Report for Monitoring Well MW-2, Third Sampling Event, analyzed by Framatome ANP Environmental Laboratory, April 27, 2004.

Groundwater Non-radiological Analytical Report for Monitoring Well MW-2, First Sampling Event, analyzed by Severn Trent Laboratory, November 19, 2003.

Groundwater Non-radiological Analytical Report for Monitoring Well MW-2, Second Sampling Event, analyzed by Severn Trent Laboratory, December 22, 2003.

Groundwater Non-radiological Analytical Report for Monitoring Well MW-2, Third Sampling Event, analyzed by Severn Trent Laboratory, May 6, 2004.

Soil Radiological Analytical Report, First Sampling Event, analyzed by Framatome ANP Environmental Laboratory, November 5, 2003.

Soil Radiological Analytical Report, Second Sampling Event, analyzed by Framatome ANP Environmental Laboratory, April 27, 2004.

Soil Non-Radiological Analytical Report, Second Sampling Event, analyzed by Severn Trent Laboratory, April 29, 2004.

B. An assessment of cumulative impacts of the proposed NEF, in combination with neighboring facilities, during construction and operation is provided in ER Section 2.3. In particular, the assessment includes a discussion on potential decrements in air quality due to increase in total suspended particulates (TSPs). Most cumulative impacts (i.e., TSPs and noise) will occur during the eight-year construction period of the NEF with the majority occurring during the peak three-year period of site preparation and major building construction. Construction related cumulative impacts will, however, be transient. In addition, a lack of nearby receptors will limit any adverse impacts during this three-year period. Cumulative impacts during operation of the NEF will be less.

LES is not aware of any planned changes in future operations at the nearby quarry or the landfill. WCS is in the process of preparing a license application for a low-level radioactive waste disposal facility. Depending on whether WCS receives a license, some additional construction may occur at some point in the future at WCS.

C. WCS is presently planning to submit their low-level radioactive waste disposal facility license application later this year. It is expected that this application will provide information on potential releases from the proposed low-level radioactive waste disposal facility. Accordingly, information on potential releases from this planned facility is not available at this time. It is expected that cumulative effects of the operation of the low-level radioactive waste facility and the NEF will be addressed as part of the licensing process for the WCS facility.

SECTION 6 – ENVIRONMENTAL MEASUREMENTS AND MONITORING PROGRAMS

Pursuant to 10 CFR Part 20, licensees are required to conduct surveys to demonstrate compliance and that radioactive material in effluent discharges are kept as low as reasonably achievable.

6-1 Water Resources:

A. Discuss the reason for the lack of any radiological or chemical sampling of the septic tank and leach field in Section 6.1.2.

B. If such monitoring is planned, provide information on the program.

C. Provide the locations of all groundwater sampling wells on Figure 6.1-2.

- Figure 6.1-2 legend indicates that groundwater samples would be taken at two locations to be determined at a later date. Groundwater would be sampled for radionuclides, metals, organics and pesticides. No rationale is provided for where the groundwater wells that would be necessary to take the samples would be located in orientation to the proposed NEF and to each other.

D. Clarify which of these wells would act as a background well and which aquifer is being sampled.

E. Clarify whether background monitoring well location would consider and avoid potential cross contamination from WCS and other surrounding industrial activities.

F. Describe the discharges that would occur from the outfall of the site stormwater detention basin (Item 7 on Figure 6.1-1).

G. Describe the water quality features of the discharges, the surface feature receiving the discharge from this outfall, and any impacts on the highway or surrounding facilities (e.g., Lea County Landfill).

H. Provide a discussion on any impacts of discharges from the outfall of the diversion ditch and associated mitigative measures (Item 5 on Figure 6.1-1).

I. Justify why the lower limits of detection (LLD) shown in Table 6.2-1 are higher than EPA action limits for some of the proposed analyses.

- Table 6.2-1 shows the LLD for metals to be 5 parts per million (ppm) whereas the EPA limit for lead is 0.5 ppm.

J. Describe how the surface water testing program complies with the State of New Mexico Standards for Interstate and Intrastate Surface Waters.

LES Response

A. The septic systems will receive only typical sanitary wastes. No plant process related effluents will be introduced into the septic systems. Each septic tank will, however, be

periodically sampled (prior to pumping) and analyzed for isotopic Uranium. The septic tanks are upstream of the leachfields. Any Uranium that is in the system that could reach the leachfields would be detected in the septic tanks. Therefore, no sampling will be performed at the leachfields. No chemical sampling of the septic systems is planned because no plant process related effluents will be introduced into the septic system.

B. The septic tank monitoring described in RAI 6-1A will be included in the site environmental monitoring program.

C. The locations of the groundwater sampling (monitoring) wells are shown on Figure ER RAI 6-1C, "Groundwater Monitoring Well Locations," in Attachment 3 to this submittal. The rationale for the locations is based on the slope of the red bed surface at the base of the shallow sand and gravel layer and the groundwater gradient in the 70 m (230 ft) groundwater zone to the south under the NEF site and proximity to key site structures. Two monitoring wells will be located down-gradient of the site basins, two will be located down-gradient of the UBC Storage Pad and one will be located up-gradient of the UBC Storage Pad and all site facilities.

D. The background monitoring well, MW-1, is shown on Figure ER RAI 6-1C. Monitoring at this location will occur in both the shallow sand and gravel layer on top of the red bed and in the 70-m (230-ft) groundwater zone. Groundwater in the sand and gravel layer was not encountered at the NEF site during groundwater investigations. Although not an aquifer, it will be monitored since it is the shallowest layer under the NEF site. The 70-m (230-ft) zone contains the first occurrence of groundwater beneath the NEF. Although not strictly meeting the definition of an aquifer, which requires that the unit be able to transmit "significant quantities of water under ordinary hydraulic gradients," this layer will also be monitored.

E. The background monitoring well, MW-1, is located on the NEF property, up-gradient of the NEF and cross-gradient from the WCS facility. This location is intended to avoid potential contamination from both facilities, i.e., NEF and/or WCS.

With respect to other surrounding industrial activities, the Wallach Quarry and the Sundance Services "produced water" lagoons north of the NEF site have some potential to introduce contaminants that could reach MW-1. The contaminants of concern for those facilities should be readily differentiated from potential contaminants from the NEF.

F. The normal discharge from the basin will be through evaporation and infiltration into the ground. During high precipitation runoff events, some discharge may occur from the outfall. The basin and outfall are designed to discharge post-construction peak flow runoff rates from the outfall during these high runoff events that are equal to or less than the pre-construction runoff rates from the site area.

G. The water quality of the discharge will be typical of runoff from building roofs and paved areas from any industrial facility. Except for small amounts of oil and grease typically found in runoff from paved roadways and parking areas, the discharge is not expected to contain contaminants. The surface feature receiving the discharge is the north side of New Mexico Route 234. Several culverts presently exist under the road that transmit runoff to the south side of the road. Since post-construction flows will not increase over pre-construction flows, there will be no additional impact on the highway or surrounding facilities.

H. The purpose of the diversion ditch is to safely divert surface runoff from the area upstream of the NEF around the east and west sides of the NEF structures during extreme precipitation events. There is no retention or attenuation of flow associated with this feature. The east side will divert surface runoff into the Site Stormwater Detention Basin. The basin is designed to provide no flow attenuation for this component of flow. The west side will divert surface runoff around the site where it will continue on as overland flow. Since there are no modifications or attenuation of flows, there are no adverse impacts and no mitigative measures are required.

I. In the next revision to the ER, Table 6.2-1 will be revised to reflect that the lower limits of detection (LLD) for all analyses listed in Table 6.2-1 will meet the applicable EPA limits.

J. The basins at the NEF do not meet the definition of "surface water" in the State of New Mexico. Waste water treatment systems, treatment ponds or lagoons are not surface waters of the State, unless they were originally constructed in waters of the State or resulted in the impoundment in surface waters of the State. State of New Mexico Standards for Interstate and Intrastate Surface Waters provide an anti-degradation policy applicable to defined surface waters and are not applicable to the NEF surface water testing program, because the basins do not meet the definition of "surface waters" in the State of New Mexico. In addition, as determined by the US Army Corps of Engineers, there are no jurisdictional surface waters in the area (See the response for RAI 1-1A).

SECTION 7 – COST/BENEFIT ANALYSIS

Pursuant to 10 CFR 51.45(c), the ER is required to consider the economical, technical, and other benefits and costs of the proposed action and alternatives.

7-1 A. Provide a description of jobs to be generated during operation of the proposed NEF. Information should include:

1.) Number of jobs by job type (laborers, janitors, guards, engineers, mechanics, electricians, administrative staff, etc.), and
2.) Estimated hourly or monthly wages for each job type during the 30 years of operation.
3.) Anticipated educational or training requirements for job types.

B. Provide detailed information on the yearly itemized purchases for labor, equipment, and materials in Section 7.2.1. Information should include:

1.) Anticipated yearly purchases of steel, concrete, and related construction materials, and
2.) Anticipated percentage of construction materials to be purchased locally each year.

C. Discuss whether or not LES plans to apply for inclusion in a Foreign Trade Zone or apply for a sub-zone around the proposed NEF.

LES Response

A. Section 7.1 of the ER summarizes the results of the cost benefit analysis of the construction and operation of the NEF. Employment opportunities will range from plant operations, maintenance and health physics positions to clerical and security-related jobs.

LES plans to provide extensive training for employees, and approximately 20% of employment opportunities will involve an advanced understanding of the NEF. These employment opportunities will require an educated workforce. The professional/management staff will comprise a mixture of associate, bachelor or master degree level personnel. A high school diploma is the minimum requirement for skilled and administrative staff.

Training will be provided by LES in partnership with local institutions such as New Mexico Junior College.

The types of jobs, numbers of jobs, wages, and training and education requirements are summarized in Table ER RAI 7-1A.1, "Descriptions of Job Types During Operation," in Attachment 2 to this submittal.

B. The following information will be incorporated in Section 7.2.1 in the next revision to the ER. The initial construction period for NEF is approximately three years. This period will encompass site preparation and construction of most site structures. Due to the phased installation of centrifuge equipment, production will commence prior to completion of the initial three-year construction period. The manpower and materials used during this phase of the project will vary depending on the construction plan. Table ER RAI 7-1B.1,

"Estimated Construction Material Yearly Purchases," provides the estimated total quantities of purchased construction materials and Table ER RAI 7-1B.2, "Estimated Yearly Labor Costs for Construction," provides the estimated labor that will be required to install these materials. Both tables are provided in Attachment 2 to this submittal. The scheduling of materials and labor expenditures is subject to the provisions of the project construction execution plan, which has not yet been developed.

Approximately 60 to 80% of the construction materials will be purchased from the local NEF site area. According to the labor survey conducted as part of the conceptual estimate, the major portion of the required craft labor forces will come from the five or six counties around the project area, including the nearby Texas counties.

C. LES is interested in applying for inclusion in a Free Trade Zone, but is not preparing an application at this time.

ATTACHMENT 2

Louisiana Energy Services
Response to April 29, 2004,
Request for Additional Information

Tables Referenced from Responses

Table ER RAI 2-4A.1 Production for Nominal 30 Years of Operation[1]

Year	UBC per Year	UBC Cumulative
1	66	66
2	196	262
3	313	575
4	431	1,006
5	548	1,554
6	623	2,177
7	627	2,804
8	627	3,431
9	627	4,058
10	627	4,685
11	627	5,312
12	627	5,939
13	627	6,566
14	627	7,193
15	627	7,820
16	627	8,447
17	627	9,074
18	627	9,701
19	627	10,328
20	627	10,955
21	627	11,582
22	627	12,209
23	627	12,836
24	627	13,463
25	627	14,090
26	561	14,651
27	444	15,095
28	326	15,421
29	209	15,630
30	92	15,722
31	5	15,727
32	0	15,727

Note:

1. Conservative upper bound scenario with respect to UBC Storage Pad dose calculations, UBC Storage Pad sizing, and the decommissioning funding estimate.

Table ER RAI 2-4A.2 Production During 30-Year License Period [1]

Year	UBC per Year	UBC Cumulative
1	66	66
2	196	262
3	313	575
4	431	1,006
5	548	1,554
6	623	2,177
7	627	2,804
8	627	3,431
9	627	4,058
10	627	4,685
11	627	5,312
12	627	5,939
13	627	6,566
14	627	7,193
15	627	7,820
16	627	8,447
17	627	9,074
18	627	9,701
19	627	10,328
20	627	10,955
21	561	11,516
22	444	11,960
23	326	12,286
24	209	12,495
25	92	12,587
26	5	12,592
27	0	12,592
28	0	12,592
29	0	12,592
30	0	12,592

Note:

1 Plant production consistent with the 30-year license period (which includes the scheduled time period for decommissioning).

Table ER RAI 2-6.1 Commodities Used, Consumed, or Stored at the NEF During Construction

Item Description	Quantity
Architectural Finishes, All Areas	77,588 m^2 (835,153 ft^2)
Asphalt Paving	79,767 m^2 (95,400 yd^2)
Chain Link Fence	15,011 m (49,250 ft)
Concrete (including embedded items)	59,196 m^3 (77,425 yd^3)
Concrete Paving	1,765 m^2 (2,111 yd^2)
Copper and Aluminum Wiring	361,898 m (1,187,328 ft)
Crushed Stone	287,544 m^2 (343,900 yd^2)
Electrical Conduit	120,633 m (395,776 ft)
Fence Gates	14 each
HVAC Units	109 each
Permanent Metal Structures	2 each
Piping (Carbon & Stainless Steel)	55,656 m (182,597 ft)
Roofing Materials	52,074 m^2 (560,515 ft^2)
Stainless & Carbon Steel Ductwork	515,125 kg (1,135,657 lbs)
Temporary Metal Structures	2 each

Table ER RAI 2-6.2 Commodities Used, Consumed, or Stored at the NEF During Operation

Item	Quantity	Comments
Electrical Power	17 MVA	Separation Plant
Diesel Fuel	236,210 L (62,400 gal)	Periodic start tests and runs of standby diesel generators
Silicon Oil	50 L (13.2 gal)	--
Corrosion Inhibitor	8,000 kg (17,637 lb)	Contracted work on cooling water systems: consumed, not stored on site
Growth Inhibitor	1,800 kg (3,968 lb)	Contracted work on cooling water systems: consumed, not stored on site

Table ER RAI 3-1A.1 NEF Site Soil Sample Locations

Soil Sample No.	Location Description	Latitude	Longitude
SS-2	Uranium Byproduct Cylinders (UBC) Storage Pad	32° 26' 18"	103° 04' 53"
SS-6	Cascade Halls 3&4	32° 26' 06"	103° 04' 45"
SS-9	Treated Effluent Evaporative Basin	32° 26' 02"	103° 04' 55"
SS-11	Technical Services Building	32° 26' 02"	103° 04' 47"
SS-12	UBC Storage Pad Stormwater Retention Basin	32° 25' 59"	103° 05' 03"
SS-13	Site Stormwater Detention Basin	32° 25' 51"	103° 04' 37"
SS-15	Northwest quadrant	32° 26' 28"	103° 05' 11"
SS-16	Northeast quadrant	32° 26' 28"	103° 04' 33"

Notes:

Refer to Figure ER RAI 3-1A for the approximate locations of the soil samples on the NEF site.

Table ER RAI 3-1A.2 Radiological Chemical Analyses of NEF Site Soil

	Analytical Results Bq/kg (pCi/kg)								Comparative Soil Concentration Bq/kg (pCi/kg) (From ER Section 3.11.1.1)
Sample No.	SS-2	SS-6	SS-9	SS-11	SS-12	SS-13	SS-15	SS-16	
Nuclide[1]									
AcTh-228	6.7 (181)	5.6 (151)	6.2 (168)	6.5 (175)	7.6 (205)	6.4 (172)	5.8 (156)	7.4 (201)	8.1 (218)[2]
Cs-137	4.3 (115.5)	3 (80.7)	3.1 (84)	3.1 (83.5)	2.1 (57.6)	1.2 (32.6)	2.7 (74)	3.3 (89.9)	2.82 (76.3)[3]
K-40	137.8 (3720)	140 (3780)	135.2 (3650)	138.9 (3750)	133.7 (3610)	135.6 (3660)	143 (3860)	139.6 (3770)	130 (3,500)[2]
Th-228	5.4 (146)	7.7 (207)	5.7 (154)	6.5 (175)	7.7 (207)	7.4 (199)	7.8 (211)	7.4 (200)	8.1 (218)[2]
Th-230	5.8 (157)	5.0 (136)	5.9 (160)	5.7 (155)	6 (163)	5.5 (149)	6 (161)	6.8 (183)	NA[4]
Th-232	7.6 (204)	6 (163)	6.1 (164)	6.7 (181)	7.3 (196)	7.2 (194)	7.7 (207)	7 (188)	8.1 (218)[2]
U-234	5.9 (159.2)	6.1 (165)	6.2 (168.4)	6.1 (165.4)	5.9 (159.4)	5.3 (143)	6.0 (161.5)	6.1 (165.4)	12 (333)[2]
U-235	0.24 (6.6)	0.25 (6.7)	0.39 (10.6)	0.43 (11.6)	0.41 (11.1)	0.36 (9.7)	0.28 (7.5)	0.24 (6.4)	NA[4]
U-238	5.4 (146.8)	5.9 (158)	6 (161.2)	6.2 (168.5)	6 (162.5)	5.8 (157.6)	5.8 (156.4)	5.7 (152.8)	12 (333)[2]

Notes:

1. No other nuclides were detected above their laboratory measured MDC.
2. Typical lower end range value.
3. Average in NEF site soils. Credited to past weapons testing fallout.
4. Typical soil concentration data is not available.

Table ER RAI 3-1A.3 Non-Radiological Chemical Analyses of NEF Site Soil

Analytical Results (mg/kg)									New Mexico Soil Screening Level (mg/kg)[1]
Sample No.	SS-2	SS-6	SS-9	SS-11	SS-12	SS-13	SS-15	SS-16	
Parameter[2],[3]									
Barium	22	15	53	19	19	16	17	24	1,440
Chromium	5.9	3.1	3.4	3.4	3.5	3	3.1	3.7	180
Lead	2.8	2.2	3.3	2.8	2.7	2.6	2.5	2.9	400

Notes:

1. Source: Technical Background Document for Development of Soil Screening Levels (Revision 2, February 2004), New Mexico Environment Department (NMED) Hazardous Waste Bureau, Ground Water Quality Bureau and Voluntary Remediation Program. The most conservative soil screening level is listed from the levels indicated for residential, industrial/occupational and construction worker exposures. For chromium, the soil screening level for Chromium VI is listed since it controls over that for Chromium III.

2. Other parameters analyzed (volatiles, semi-volatiles, metals (arsenic, cadmium, mercury, selenium, silver and mercury), organochlorine pesticides, organophosphorous compounds, chlorinated herbicides and fluoride) were not detected above the laboratory reporting limits.

3. Analytical methods were performed in accordance with Environmental Protection Agency (EPA) publication SW846, "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," Third Edition, November 1986, and Updates I, II, IIA, IIB, III, and IIIA.

Table ER RAI 3-1C.1 Geological Units Exposed At, Near, or Underlying the Site

Formation	Geologic Age	Descriptions	Estimates for the NEF Site Area[1]	
			Depths: m (ft)	Thickness: m (ft)
Topsoils	Recent	Silty fine sand with some fine roots - eolian	Range: 0 to 0.6 (0 to 2) Average: 0 to 0.4 (0 to 1.4)	Range: 0.3 to 0.6 (1 to 2) Average: 0.4 (1.4)
Mescalero Sands/ Blackwater Draw Formation	Quaternary	Dune or dune-related sands	Range (sporadic across site): 0 to 3 (0 to 10) Average: NA[4]	Range (sporadic across site): 0 to 3 (0 to 10) Average: NA[5]
Gatuña/ Antlers Formation	Pleistocene/ mid-Pliocene	Pecos Valley alluvium: Sand and silty sand with interbedded caliche near the surface and a sand and gravel base layer	Range: 0.3 to 17 (1 to 55) Average: 0.4 to 12 (1.4 to 39)	Range: 6.7 to 16 (22 to 54) Average: 12 (38)
Mescalero Caliche	Quaternary	Soft to hard calcium carbonate deposits	Range: 1.8 to 12 (6 to 38) Average: 3.7 to 8 (12 to 26)	Range: 0 to 6 (0 to 20) Average (all 14 borings)[2]: 1.4 (5) Average (five borings that encountered caliche): 4.3 (14)
Chinle Formation	Triassic	Claystone and silty clay: red beds	Range: 7 to 340 (23 to 1,115) Average: 12 to 340 (39 to 1,115)	Range: 323 to 333 (1,060 to 1,092) Average: 328 (1,076)
Santa Rosa Formation	Triassic	Sandy red beds, conglomerates and shales	Range: 340 to 434 (1,115 to 1,425) Average: NA[4]	Range: NA[3] Average: 94 (310)
Dewey Lake	Permian	Muddy sandstone and shale red beds	Range: 434 to 480 (1,425 to 1,575) Average: NA[4]	Range: NA[3] Average: 46 (150)

Notes:

1. Range of depths is below ground level to shallowest top and deepest bottom of geological unit determined from site boring logs, unless noted.

   Average depths are below ground level to average top and average bottom of geological unit determined from site boring logs, unless noted.

   Range of thickness is from the smallest thickness to the largest thickness of geological unit determined from site boring logs, unless noted.

   Average thickness is the average as determined from site boring logs, unless noted.

   Bottom of Chinle Formation, top and bottom of Santa Rosa Formation and top and bottom of Dewey Lake Formation are single values from a deep boring just south of the NEF.

2. Caliche is not present at some locations of the site. Where not present in a particular boring, a thickness of '0' m (ft) was used in calculating the average.
3. Range of thickness is not available.
4. Average depths are not available.
5. Average thickness is not available.

Table ER RAI 3-3.1 Wind Frequency Distribution

	WCS Data		Midland-Odessa Data	
Compass Sector	Hours	Percent Frequency	Hours	Percent Frequency
North (N)	549	3.2	2388	5.6
North-Northeast (NNE)	788	4.5	1692	4.0
Northeast (NE)	1005	5.8	2103	4.9
East-Northeast (ENE)	1031	5.9	2094	4.9
East (E)	1158	6.7	2691	6.3
East-Southeast (ESE)	1071	6.2	2366	5.5
Southeast (SE)	1902	11.0	3237	7.6
South-Southeast (SSE)	2327	13.4	4648	10.9
South (S)	2038	11.8	8784	20.6
South-Southwest (SSW)	1280	7.4	3136	7.3
Southwest (SW)	990	5.7	2345	5.5
West-Southwest (WSW)	779	4.5	1997	4.7
West (W)	768	4.4	1887	4.4
West-Northwest (WNW)	624	3.6	997	2.3
Northwest (NW)	609	3.5	1104	2.6
North-Northwest (NNW)	417	2.4	1272	3.0
Total	17336	100	42741	100.1[1]

Note:

1. Note that the percent frequency total is greater than 100% due to round off.

Table ER RAI 3-5.1 Estimated Tax Revenue

Tax	Estimated Payments Over the Life of the Plant	
	Low Estimate	High Estimate
Gross Receipts	$23,000,000	$34,000,000
NM Corporate Income Tax (1)	$120,000,000	$140,000,000
Corporate Franchise Tax	$1,000	$1,000
NM Withholding Tax	$15,000,000	$15,000,000
NM Unemployment Insurance	$9,000,000	$9,000,000
NM Property Tax (2)	$10,000,000	$14,000,000
Total	$177,001,000	$212,001,000

Notes:

1. Based on average income.
2. Average.

Table ER RAI 3-5.2 Estimated Tax Revenue Allocations [1] [2]

Tax	State of New Mexico	Lea County	Eunice, NM	Total
Estimated Gross Receipts Tax				
High	$32,300,000	$1,700,000	NA [3]	$34,000,000
Low	$21,850,000	$1,150,000	NA [3]	$23,000,000
NM Corporate Income Tax [4]				
Estimated total payments over life of the plant				
High	$140,000,000	NA [5]	NA [5]	$140,000,000
Low	$120,000,000	NA [5]	NA [5]	$120,000,000
NM Corporate Franchise Tax [6]				
Estimated total payments over life of the plant	$1,000	--	--	$1,000
NM Withholding Tax				
Estimated total payments over the life of the plant	$15,000,000	NA [5]	NA [5]	$15,000,000
NM Unemployment Insurance				
Estimated total payments over the life of the plant	$9,000,000	NA [5]	NA [5]	$9,000,000
NM Property Tax [7]				
High (Estimated total payments over the life of the plant)	--	$14,000,000	NA [3]	$14,000,000
Low (Estimated total payments over the life of the plant)	--	$10,000,000	NA [3]	$10,000,000

Notes:

1. Inflation is not included in any estimate.
2. Tax rates are based on tax rates as of April 2004.
3. Allocation to Eunice, NM will be performed by Lea County. Allocation estimate is not available.
4. Based on average earnings over the life of the plant.
5. Allocation will be made by the State of New Mexico. Allocation estimate is not available.
6. Based on $50 per year flat rate.
7. Property tax is dependent on sustaining investment in the plant.

Table ER RAI 4-2A.1a Water Balance for Treated Effluent Evaporative Basin
(Minimum Scenario)

Month	Precipitation cm (in)	Total Precipitation Inflow to Basin m^3 (gal)	Treated Effluent Inflow to Basin m^3 (gal)	Total Inflow to Basin m^3 (gal)	Evaporation per Month cm (in)	Potential Evaporation Outflow from Basin m^3 (gal)	Balance Inflow – Outflow m^3 (gal)	Net in Basin m^3 (gal)
JAN	0.5 (0.2)	40 (10,508)	211 (55,824)	251 (66,332)	4.2 (1.7)	128 (33,694)	124 (32,638)	124 (32,638)
FEB	0.7 (0.3)	56 (14,711)	211 (55,824)	267 (70,535)	10.1 (4.0)	307 (81,069)	-40 (-10,534)	84 (22,104)
MAR	0.5 (0.2)	40 (10,508)	211 (55,824)	251 (66,332)	22.4 (8.8)	679 (179,292)	-428 (-112,96)	0 (0)
APR	0.8 (0.3)	64 (16,813)	211 (55,824)	275 (72,636)	28.0 (11.0)	850 (224,625)	-575 (-151,989)	0 (0)
MAY	2.6 (1.0)	207 (54,641)	211 (55,824)	418 (110,465)	24.5 (9.6)	743 (196,241)	-325 (-85,775)	0 (0)
JUN	2.0 (0.8)	159 (42,032)	211 (55,824)	370 (97,856)	23.4 (9.2)	710 (187,664)	-340 (-89,808)	0 (0)
JUL	2.4 (0.9)	191 (50,438)	211 (55,824)	402 (106,262)	22.1 (8.7)	670 (177,045)	-268 (-70,783)	0 (0)
AUG	2.5 (1.0)	199 (52,540)	211 (55,824)	410 (108,364)	20.7 (8.2)	628 (166,018)	-218 (-57,655)	0 (0)
SEP	3.0 (1.2)	247 (65,149)	211 (55,824)	458 (120,973)	19.9 (7.8)	604 (159,688)	-147 (-38,715)	0 (0)
OCT	1.4 (0.5)	111 (29,422)	211 (55,824)	323 (85,246)	12.2 (4.8)	371 (98,018)	-48 (-12,772)	0 (0)
NOV	0.9 (0.3)	72 (18,914)	211 (55,824)	283 (74,738)	8.8 (3.5)	267 (70,655)	15 (4,083)	15 (4,083)
DEC	0.7 (0.3)	56 (14,711)	211 (55,824)	267 (70,535)	6.9 (2.7)	209 (55,135)	58 (15,400)	74 (19,483)
Totals	17.8 (7.0)	1,440 (380,389)	2,536 (669,884)	3,975 (1,050,273)	203.2 (80.0)	6,167 (1,629,144)		

Table ER RAI 4-2A.1b Water Balance for Treated Effluent Evaporative Basin
(Maximum Scenario)

Month	Precipitation cm (in)	Total Precipitation Inflow to Basin m^3 (gal)	Treated Effluent Inflow to Basin m^3 (gal)	Total Inflow to Basin m^3 (gal)	Evaporation per Month cm (in)	Potential Evaporation Outflow from Basin m^3 (gal)	Balance Inflow – Outflow m^3 (gal)	Net In Basin m^3 (gal)
JAN	2.0 (0.8)	163 (43,174)	211 (55,824)	375 (98,998)	4.2 (1.7)	128 (33,694)	247 (65,304)	247 (65,304)
FEB	2.8 (1.1)	229 (60,444)	211 (55,824)	440 (116,268)	10.1 (4.0)	307 (81,069)	133 (35,199)	380 (100,503)
MAR	2.0 (0.8)	163 (43,174)	211 (55,824)	375 (98,998)	22.4 (8.8)	679 (179,292)	-304 (-80,294)	76 (20,209)
APR	3.2 (1.3)	261 (69,079)	211 (55,824)	473 (124,903)	28.0 (11.0)	850 (224,625)	-377 (-99,722)	0 (0)
MAY	10.5 (4.1)	850 (224,507)	211 (55,824)	1,061 (280,331)	24.5 (9.6)	743 (196,241)	318 (84,090)	318 (84,090)
JUN	8.1 (3.2)	654 (172,698)	211 (55,824)	865 (228,521)	23.4 (9.2)	710 (187,664)	155 (40,857)	473 (124,947)
JUL	9.7 (3.8)	784 (207,237)	211 (55,824)	996 (263,061)	22.1 (8.7)	670 (177,045)	326 (86,016)	799 (210,963)
AUG	10.1 (4.0)	817 (215,872)	211 (55,824)	1,028 (271,696)	20.7 (8.2)	628 (166,018)	400 (105,677)	1,199 (316,640)
SEP	12.5 (4.9)	1,013 (267,681)	211 (55,824)	1,225 (323,505)	19.9 (7.8)	604 (159,688)	620 (163,817)	1,819 (480,458)
OCT	5.7 (2.2)	458 (120,888)	211 (55,824)	669 (176,712)	12.2 (4.8)	371 (98,018)	298 (78,694)	2,116 (559,151)
NOV	3.6 (1.4)	294 (77,714)	211 (55,824)	505 (133,538)	8.8 (3.5)	267 (70,655)	238 (62,883)	2,354 (622,034)
DEC	2.8 (1.1)	229 (60,444)	211 (55,824)	440 (116,268)	6.9 (2.7)	209 (55,135)	231 (61,133)	2,586 (683,167)
Totals	73.1 (28.8)	5,916 (1,562,914)	2,536 (669,884)	8,451 (2,232,798)	203.2 (80.0)	6,167 (1,629,144)		

Table ER RAI 4-2A.2a Water Balance for UBC Storage Pad Stormwater Retention Basin (Minimum Scenario)

Month	Precipitation cm (in)	Total Precipitation Inflow to Basin m^3 (gal)	Blowdown Inflow to Basin m^3 (gal)	Total Inflow to Basin m^3 (gal)	Evaporation per Month cm (in)	Potential Evaporation Outflow from Basin m^3 (gal)	Balance Inflow – Outflow m^3 (gal)	Net In Basin m^3 (gal)
JAN	0.5 (0.2)	398 (105,080)	1,604 (423,875)	2,002 (528,955)	4.2 (1.7)	3,061 (808,650)	-1,059 (-279,695)	0 (0)
FEB	0.7 (0.3)	557 (147,112)	1,604 (423,875)	2,161 (570,987)	10.1 (4.0)	7,365 (1,945,661)	-5,203 (-1,374,674)	0 (0)
MAR	0.5 (0.2)	398 (105,080)	1,604 (423,875)	2,002 (528,955)	22.4 (8.8)	16,287 (4,302,999)	-14,285 (-3,774,044)	0 (0)
APR	0.8 (0.3)	636 (168,128)	1,604 (423,875)	2,241 (592,003)	28.0 (11.0)	20,406 (5,391,000)	-18,165 (-4,798,998)	0 (0)
MAY	2.6 (1.0)	2,068 (546,415)	1,604 (423,875)	3,673 (970,290)	24.5 (9.6)	17,827 (4,709,774)	-14,154 (-3,739,484)	0 (0)
JUN	2.0 (0.8)	1,591 (420,319)	1,604 (423,875)	3,195 (844,194)	23.4 (9.2)	17,048 (4,503,936)	-13,853 (-3,659,742)	0 (0)
JUL	2.4 (0.9)	1,909 (504,383	1,604 (423,875)	3,514 (928,258)	22.1 (8.7)	16,083 (4,249,089)	-12,570 (-3,320,831)	0 (0)
AUG	2.5 (1.0)	1,989 (525,399)	1,604 (423,875)	3,593 (949,274)	20.7 (8.2)	15,082 (3,984,439	-11,488 (-3,035,165)	0 (0)
SEP	3.0 (1.2)	2,466 (651,495)	1,604 (423,875)	4,070 (1,075,370)	19.9 (7.8)	14,507 (3,832,511)	-10,436 (-2,757,142)	0 (0)
OCT	1.4 (0.5)	1,114 (294,223)	1,604 (423,875)	2,718 (718,098)	12.2 (4.8)	8,904 (2,352,437)	-6,186 (-1,634,338)	0 (0)
NOV	0.9 (0.3)	716 (189,144)	1,604 (423,875)	2,320 (613,019)	8.8 (3.5)	6,418 (1,695,715)	-4,098 (-1,082,696)	0 (0)
DEC	0.7 (0.3)	557 (147,112)	1,604 (423,875)	2,161 (570,987)	6.9 (2.7)	5,009 (1,323,246)	-2,847 (-752,259)	0 (0)
Totals	17.8 (7.0)	14,398 (3,803,888)	19,253 (5,086,500)	33,651 (8,890,388)	203.2 (80.0)	147,996 (39,099,456)		

Table ER RAI 4-2A.2b Water Balance for UBC Storage Pad Stormwater Retention Basin (Maximum Scenario)

Month	Precipitation cm (in)	Total Precipitation Inflow to Basin m^3 (gal)	Blowdown Inflow to Basin m^3 (gal)	Total Inflow to Basin m^3 (gal)	Evaporation per Month cm (in)	Potential Evaporation Outflow from Basin m^3 (gal)	Balance Inflow – Outflow m^3 (gal)	Net In Basin m^3 (gal)
JAN	2.0 (0.8)	1,634 (431,723)	1,604 (423,875)	3,239 (855,598)	4.2 (1.7)	3,061 (808,650)	178 (46,948)	178 (46,948)
FEB	2.8 (1.1)	2,288 (604,412)	1,604 (423,875)	3,892 (1,028,287)	10.1 (4.0)	7,365 (1,945,661)	-3,472 (-917,374)	0 (0)
MAR	2.0 (0.8)	1,634 (431,723)	1,604 (423,875)	3,239 (855,598)	22.4 (8.8)	16,287 (4,302,999)	-13,049 (-3,447,400)	0 (0)
APR	3.2 (1.3)	2,615 (690,757)	1,604 (423,875)	4,219 (1,114,632)	28.0 (11.0)	20,406 (5,391,000)	-16,187 (-4,276,368)	0 (0)
MAY	10.5 (4.1)	8,497 (2,244,960)	1,604 (423,875)	10,102 (2,668,835)	24.5 (9.6)	17,827 (4,709,774)	-7,725 (-2,040,939)	0 (0)
JUN	8.1 (3.2)	6,536 (1,726,893)	1,604 (423,875)	8,141 (2,150,768)	23.4 (9.2)	17,048 (4,503,936)	-8,907 (-2,353,168)	0 (0)
JUL	9.7 (3.8)	7,844 (2,072,271)	1,604 (423,875)	9,448 (2,496,146)	22.1 (8.7)	16,083 (4,249,089)	-6,635 (-1,752,942)	0 (0)
AUG	10.1 (4.0)	8,171 (2,158,616)	1,604 (423,875)	9,775 (2,582,491)	20.7 (8.2)	15,082 (3,984,439)	-5,307 (-1,401,949)	0 (0)
SEP	12.5 (4.9)	10,132 (2,676,684)	1,604 (423,875)	11,736 (3,100,559)	19.9 (7.8)	14,507 (3,832,511)	-2,771 (-731,953)	0 (0)
OCT	5.7 (2.2)	4,576 (1,208,825)	1,604 (423,875)	6,180 (1,632,700)	12.2 (4.8)	8,904 (2,352,437)	-2,724 (-719,737)	0 (0)
NOV	3.6 (1.4)	2,941 (777,102)	1,604 (423,875)	4,546 (1,200,977)	8.8 (3.5)	6,418 (1,695,715)	-1,873 (-494,738)	0 (0)
DEC	2.8 (1.1)	2,288 (604,412)	1,604 (423,875)	3,892 (1,028,287)	6.9 (2.7)	5,009 (1,323,246)	-1,116 (-294,958)	0 (0)
Totals	73.1 (28.8)	59,155 (15,628,378)	19,253 (5,086,500)	78,408 (20,714,878)	203.2 (80.0)	147,996 (39,099,456)		

Table ER RAI 4-2A.3a Water Balance for the Site Stormwater Detention Basin (Minimum Scenario)

Month	Precipitation cm (in)	Total Precipitation Inflow to Basin m^3 (gal)	Evaporation + Infiltration per Month cm (in)	Potential Evaporation Outflow from Basin m^3 (gal)	Balance Inflow – Outflow m^3 (gal)	Net In Basin m^3 (gal)
JAN	0.5 (0.2)	2,376 (627,763)	65.2 (25.7)	47,460 (12,538,487)	-45,084 (-11,910,723)	0 (0)
FEB	0.8 (0.3)	3,564 (941,645)	71.1 (28.0)	51,763 (13,675,498)	-48,199 (-12,733,853)	0 (0)
MAR	0.5 (0.2)	2,376 (627,763)	83.3 (32.8)	60,686 (16,032,835)	-58,310 (-15,405,072)	0 (0)
APR	0.8 (0.3)	3,564 (941,645)	89.0 (35.0)	64,804 (17,120,837)	-61,240 (-16,179,192)	0 (0)
MAY	2.5 (1.0)	11,881 (3,138,817)	85.4 (33.6)	62,226 (16,439,611)	-50,345 (-13,300,793)	0 (0)
JUN	2.0 (0.8)	9,505 (2,511,054)	84.4 (33.2)	61,447 (16,233,773)	-51,942 (-13,722,719)	0 (0)
JUL	2.3 (0.9)	10,693 (2,824,936)	83.0 (32.7)	60,482 (15,978,925)	-49,789 (-13,153,990)	0 (0)
AUG	2.5 (1.0)	11,881 (3,138,817)	81.7 (32.2)	59,480 (15,714,276)	-47,600 (-12,575,459)	0 (0)
SEP	3.0 (1.2)	14,257 (3,766,581)	80.9 (31.8)	58,905 (15,562,348)	-44,648 (-11,795,767)	0 (0)
OCT	1.3 (0.5)	5,940 (1,569,409)	73.2 (28.8)	53,303 (14,082,273)	-47,363 (-12,512,865)	0 (0)
NOV	0.8 (0.3)	3,564 (941,645)	69.8 (27.5	50,817 (13,425,551)	-47,253 (-12,483,906)	0 (0)
DEC	0.8 (0.3)	3,564 (941,645)	67.8 (26.7)	49,407 (13,053,082)	-45,843 (-12,111,437)	0 (0)
Totals	17.8 (7.0)	83,166 (21,971,722)	934.7 (368.0)	680,782 (179,857,498)		

Table ER RAI 4-2A.3b Water Balance for the Site Stormwater Detention Basin (Maximum Scenario)

Month	Precipitation cm (in)	Total Precipitation Inflow to Basin m^3 (gal)	Evaporation + Infiltration per Month cm (in)	Potential Evaporation Outflow from Basin m^3 (gal)	Balance Inflow – Outflow m^3 (gal)	Net In Basin m^3 (gal)
JAN	2.0 (0.8)	9,445 (2,495,360)	65.2 (25.7)	47,460 (12,538,487)	-38,014 (-10,043,127)	0 (0)
FEB	2.8 (1.1)	13,223 (3,493,504)	71.1 (28.0)	51,763 (13,675,498)	-38,540 (-10,181,994)	0 (0)
MAR	2.0 (0.8)	9,445 (2,495,360)	83.3 (32.8)	60,686 (16,032,835)	-51,241 (-13,537,475)	0 (0)
APR	3.2 (1.3)	15,112 (3,992,576)	89.0 (35.0)	64,804 (17,120,837)	-49,692 (-13,128,261)	0 (0)
MAY	10.5 (4.1)	49,115 (12,975,871)	85.4 (33.6)	62,226 (16,439,611)	-13,111 (-3,463,740)	0 (0)
JUN	8.1 (3.2)	37,781 (9,981,439)	84.4 (33.2)	61,447 (16,233,773)	-23,666 (-6,252,333)	0 (0)
JUL	9.7 (3.8)	45,337 (11,977,727)	83.0 (32.7)	60,482 (15,978,925)	-15,145 (-4,001,198)	0 (0)
AUG	10.1 (4.0)	47,226 (12,476,799)	81.7 (32.2)	59,480 (15,714,276)	-12,254 (-3,237,477)	0 (0)
SEP	12.5 (4.9)	58,560 (15,471,231)	80.9 (31.8)	58,905 (15,562,348)	-345 (-91,117)	0 (0)
OCT	5.7 (2.2)	26,447 (6,987,008)	73.2 (28.8)	53,303 (14,082,273)	-26,856 (-7,095,266)	0 (0)
NOV	3.6 (1.4)	17,001 (4,491,648)	69.8 (27.5)	50,817 (13,425,551)	-33,816 (-8,933,904)	0 (0)
DEC	2.8 (1.1)	13,223 (3,493,504)	67.8 (26.7)	49,407 (13,053,082)	-36,184 (-9,559,579)	0 (0)
Totals	73.1 (28.8)	341,918 (90,332,027)	934.7 (368.0)	680,782 (179,857,498)		

Table ER RAI 4-4D.1 Effluent Release Point Design Parameters

Release Point	Stack Exit Area m^2 (ft^2)	Exit Height meters (ft)	Building Height meters (ft)	Adjacent Building Height – meters (ft)	Exit Velocity m/sec (ft/min)	Exit Temperature
TSB GEVS[1]	0.29 (3.14)	13 (42.6)	10 (32.8)	10 (32.8)	18.3 (3,600)	Room temperature
SB GEVS[2]	0.13 (1.40)	13 (42.6)	10 (32.8)	10 (32.8)	23.4 (4,600)	Room temperature
CAB CT & PM[3]	0.13 (1.40)	15 (49.2)	12 (39.4)	12 (39.4)	20.3 (4,000)	Room temperature
TSB CVS[4]	0.29 (3.14)	13 (42.6)	10 (32.8)	10 (32.8)	20.3 (4,000)	Room temperature

Notes:

1. Technical Services Building Gaseous Effluent Vent System.
2. Separation Building Gaseous Effluent Vent System.
3. Centrifuge Assembly Building; Centrifuge Test and Post Mortem Facility.
4. Technical Services Building Confinement Ventilation System.

Table ER RAI 4-4D.2 Annual Effluent Releases
(Equivalent to 10 g (0.022 lbs)Uranium)

Radionuclide	TSB GEVS kBq/yr (μCi/yr)	SB GEVS kBq/yr (μCi/yr)
U-234	77.7 (2.10)	45.5 (1.23)
U-235	3.59 (0.097)	2.11 (0.057)
U-236	0.48 (0.013)	0.30 (0.008)
U-238	77.7 (2.10)	45.5 (1.23)
Total	159.5 (4.31)	93.6 (2.53)

Table ER RAI 4-4E.1 Construction Emission Types

Emission Type	Source Location	Quantity
Fugitive Dust	On site	2.4 g/s (19.1 lb/hr) [1]
Vehicle Exhaust	On site	4,535 kg/yr (5 tons/yr) [2]
Portable Generator Exhaust	NA [3]	NA [3]
Paint Fumes	On site buildings	NA [3]
Welding Torch Fumes	On site buildings	NA [3]
Solvent Fumes	NA [3]	NA [3]
Boiler Exhaust	Central Utilities Building	5,007.6 kg/yr (5.52 ton/yr) of NOx, 499 kg/yr (0.55 ton/yr) of CO, 798 kg/yr (0.88 ton/yr) of VOC
Emergency Diesel Generator Exhaust	Central Utilities Building	99.9 kg/yr (0.11 ton/yr) of PM10, 11,094.9 kg/yr (12.23 ton/yr) of NOx, 852.8 kg/yr (0.94 ton/yr) of CO, 263.1 kg/yr (0.29 ton/yr) of VOC
Air Compressors	NA [3]	NA [3]

Notes:
1. From ER Table 4.6-1.
2. From ER Section 4.6.1.
3. Information is not available at this time.

Table ER RAI 4-4E.2 Decommissioning Emission Types

Emission Type[1]	Source Location	Quantity
Fugitive Dust	On site	2.4 g/s (19.1 lb/hr) [2]
Vehicle Exhaust	On site	4,535 kg/yr (5 tons/yr) [3]
Portable Generator Exhaust	NA [4]	NA [4]
Cutting Torch Fumes	On site buildings	NA [4]
Solvent Fumes	NA [4]	NA [4]
Boiler Exhaust	Central Utilities Building	5,007.6 kg/yr (5.52 ton/yr) of NOx, 499 kg/yr (0.55 ton/yr) of CO, 798 kg/yr (0.88 ton/yr) of VOC
Emergency Diesel Generator Exhaust	Central Utilities Building	99.9 kg/yr (0.11 ton/yr) of PM10, 11,094.9 kg/yr (12.23 ton/yr) of NOx, 852.8 kg/yr (0.94 ton/yr) of CO, 263.1 kg/yr (0.29 ton/yr) of VOC
Air Compressors	NA [4]	NA [4]

Notes:
1. Fugitive dust and vehicle exhaust during decommissioning are assumed to be bounded by the emissions during construction.
2. From ER Table 4.6-1.
3. From ER Section 4.6.1.
4. Information is not available at this time.

Table ER RAI 4-4F.1 Offsite Vehicle Air Emissions During Construction

Estimated Vehicle Type	Emission Factor (g/mi)	Estimated Daily Number of Vehicles	Estimated Daily Mileage km (mi)	Daily Work Day Emissions (g)
NONMETHANE HYDROCARBONS				
Light Duty Vehicles (Gasoline)	1.2	800	64.4 (40)	38,400
Heavy Duty Truck (Diesel)	2.1	14	322 (200)	5,880
Total				44,280
Daily Emissions				**4.4E-02 metric tons (4.9E-02 tons)**
CARBON MONOXIDE				
Light Duty Vehicles (Gasoline)	4.6	800	64.4 (40)	147,200
Heavy Duty Truck (Diesel)	10.2	14	322 (200)	28,560
Total				175,760
Daily Emissions				**1.8E-01 metric tons (2.0E-01 tons)**
NITROGEN OXIDES				
Light Duty Vehicles (Gasoline)	0.7	800	64.4 (40)	22,400
Heavy Duty Truck (Diesel)	8.0	14	322 (200)	22,400
Total				44,800
Daily Emissions				**4.5E-02 metric tons (5.0E-02 tons)**

Table ER RAI 4-4F.2 Offsite Vehicle Air Emissions During Operations

Estimated Vehicle Type	Emission Factor (g/mi)	Estimated Daily Number of Vehicles	Estimated Daily Mileage km (mi)	Daily Work Day Emissions (g)
NONMETHANE HYDROCARBONS				
Light Duty Vehicles (Gasoline)	1.2	210	64.4 (40)	10,080
Heavy Duty Truck (Diesel)	2.1	18	805 (500)	18,900
Total				28,980
Daily Emissions				**2.9E-02 metric tons (3.2E-02 tons)**
CARBON MONOXIDE				
Light Duty Vehicles	4.6	210	64.4 (40)	38,640
Heavy Duty Truck	10.2	18	805 (500)	91,800
Total				130,440
Daily Emissions				**1.3E-01 metric tons (1.4E-01 tons)**
NITROGEN OXIDES				
Light Duty Vehicles	0.7	210	64.4 (40)	5,880
Heavy Duty Truck	8.0	18	805 (500)	72,000
Total				77,880
Daily Emissions				**7.8E-02 metric tons (8.6E-02 tons)**

Table ER RAI 4-6A.1a Supply Materials Shipped to the Proposed NEF Construction Year 1

Mode of Shipment	Type of Supply Material	Origin of Shipment	Estimated Number of Shipments
Truck	Concrete	Local supplier	2,600 trucks
Rail and truck	Pre-cast Concrete	Texas	903 railcars and/or truckloads
Truck (possibly rail)	Structural and Miscellaneous Steel	Texas	69 trucks
Truck	Piping Spool Pieces	Texas	67 trucks
Truck (possibly rail)	Overhead Cranes	Texas	7 trucks
Truck	HVAC Units	Local supplier	33 trucks
Truck	Ductwork	Local supplier	25 trucks
Truck	Electrical Motors	Local supplier	5 trucks
Truck	Electrical Wire, Conduit, and Cable Tray	Local supplier	7 trucks

Table ER RAI 4-6A.1b Supply Materials Shipped to the Proposed NEF Construction Year 2

Mode of Shipment	Type of Supply Material	Origin of Shipment	Estimated Number of Shipments
Truck	Concrete	Local supplier	2,600 trucks
Rail and truck	Pre-cast Concrete	Texas	451 railcars and/or truckloads
Truck (possibly rail)	Structural and Miscellaneous Steel	Texas	34 trucks
Truck	Built-up Roofing	Local supplier	21 trucks
Truck	Piping Spool Pieces	Texas	67 trucks
Truck (possibly rail)	Overhead Cranes	Texas	3 trucks
Truck	HVAC Units	Local supplier	17 trucks
Truck	Ductwork	Local supplier	25 trucks
Truck	Electrical Motors	Local supplier	5 trucks
Truck	Electrical Wire, Conduit, and Cable Tray	Local supplier	7 trucks

Table ER RAI 4-6A.1c Supply Materials Shipped to the Proposed NEF Construction Year 3

Mode of Shipment	Type of Supply Material	Origin of Shipment	Estimated Number of Shipments
Truck	Concrete	Local supplier	2,600 trucks
Truck	Piping Spool Pieces	Texas	66 trucks
Truck	Electrical Wire, Conduit, and Cable Tray	Local supplier	6 trucks

Table ER RAI 4-6A.2a Waste Materials Shipped from the Proposed NEF Construction Year 1

Mode of Shipment	Type of Waste Material	Destination of Shipment	Estimated Number of Shipments
Truck (possibly rail)	Construction Debris	Lea County Landfill (possibly other location)	234 trucks

Table ER RAI 4-6A.2b Waste Materials Shipped from the Proposed NEF Construction Year 2

Mode of Shipment	Type of Waste Material	Destination of Shipment	Estimated Number of Shipments
Truck (possibly rail)	Construction Debris	Lea County Landfill (possibly other location)	233 trucks

Table ER RAI 4-6A.2c Waste Materials Shipped from the Proposed NEF Construction Year 3

Mode of Shipment	Type of Waste Material	Destination of Shipment	Estimated Number of Shipments
Truck (possibly rail)	Construction Debris	Lea County Landfill (possibly other location)	233 trucks

Table ER RAI 4-6B.1 Container Curie Content by Isotope
(at 1 year decay and in-growth)

Material: Container Type: Isotope	Feed (UF_6) 48Y cylinder	Feed (UF_6) 48X cylinder	Product (UF_6) 30B cylinder	Depleted (UF_6) 48Y cylinder	Heels only 48Y cylinder	Solid Waste 55 gal. drum
Tl-207	4.28E-08	3.29E-08	5.74E-08	2.05E-08	1.39E-08	6.84E-12
Tl-208	1.75E-15	1.35E-15	2.35E-15	8.35E-16	1.25E-15	2.80E-19
Pb-210	5.52E-11	4.25E-11	8.71E-11	2.48E-11	4.49E-11	8.82E-15
Pb-211	4.29E-08	3.30E-08	5.75E-08	2.05E-08	1.39E-08	6.86E-12
Pb-212	4.87E-15	3.75E-15	6.53E-15	2.32E-15	3.47E-15	7.79E-19
Pb-214	5.45E-09	4.20E-09	8.61E-09	2.45E-09	1.91E-09	8.72E-13
Bi-210	5.52E-11	4.25E-11	8.71E-11	2.48E-11	4.38E-11	8.82E-15
Bi-211	4.29E-08	3.30E-08	5.75E-08	2.05E-08	1.39E-08	6.86E-12
Bi-212	4.87E-15	3.75E-15	6.53E-15	2.32E-15	3.47E-15	7.79E-19
Bi-214	5.45E-09	4.20E-09	8.61E-09	2.45E-09	1.91E-09	8.72E-13
Po-210	1.79E-11	1.38E-11	2.82E-11	8.04E-12	2.32E-11	2.86E-15
Po-211	1.20E-10	9.25E-11	1.61E-10	5.75E-11	3.90E-11	1.92E-14
Po-212	3.12E-15	2.40E-15	4.18E-15	1.49E-15	2.22E-15	4.99E-19
Po-214	5.45E-09	4.20E-09	8.60E-09	2.45E-09	1.91E-09	8.71E-13
Po-215	4.29E-08	3.30E-08	5.75E-08	2.05E-08	1.39E-08	6.86E-12
Po-216	4.87E-15	3.75E-15	6.53E-15	2.32E-15	3.47E-15	7.79E-19
Po-218	5.45E-09	4.20E-09	8.61E-09	2.45E-09	1.91E-09	8.72E-13
Rn-219	4.29E-08	3.30E-08	5.75E-08	2.05E-08	1.39E-08	6.86E-12
Rn-220	4.87E-15	3.75E-15	6.53E-15	2.32E-15	3.47E-15	7.79E-19
Rn-222	5.45E-09	4.20E-09	8.61E-09	2.45E-09	1.91E-09	8.72E-13
Fr-223	5.92E-10	4.56E-10	7.94E-10	2.83E-10	2.09E-10	9.47E-14
Ra-223	4.29E-08	3.30E-08	5.75E-08	2.05E-08	1.39E-08	6.86E-12
Ra-224	4.87E-15	3.75E-15	6.53E-15	2.32E-15	3.47E-15	7.79E-19
Ra-226	5.45E-09	4.20E-09	8.61E-09	2.45E-09	1.93E-09	8.72E-13
Ra-228	4.37E-14	3.37E-14	5.86E-14	2.09E-14	1.48E-14	6.99E-18
Ac-227	4.29E-08	3.30E-08	5.75E-08	2.05E-08	1.51E-08	6.86E-12
Ac-228	4.37E-14	3.37E-14	5.86E-14	2.09E-14	1.48E-14	6.99E-18
Th-227	4.23E-08	3.26E-08	5.67E-08	2.02E-08	1.42E-08	6.77E-12
Th-228	4.87E-15	3.75E-15	6.53E-15	2.32E-15	3.53E-15	7.79E-19
Th-230	2.52E-05	1.94E-05	3.97E-05	1.13E-05	3.01E-06	4.03E-09
Th-231	1.29E-01	9.91E-02	1.73E-01	6.16E-02	0.00E+00	2.06E-05
Th-232	8.74E-13	6.73E-13	1.17E-12	4.17E-13	1.04E-13	1.40E-16
Th-234	2.80E+00	2.15E+00	5.10E-01	2.81E+00	1.06E-05	4.47E-04
Pa-231	2.72E-06	2.10E-06	3.65E-06	1.30E-06	3.28E-07	4.36E-10
Pa-234m	2.80E+00	2.15E+00	5.10E-01	2.81E+00	1.06E-05	4.47E-04
Pa-234	3.64E-03	2.80E-03	6.63E-04	3.65E-03	1.38E-08	5.82E-07
U-234	2.80E+00	2.15E+00	4.42E+00	1.26E+00	9.01E-08	4.47E-04
U-235	1.29E-01	9.91E-02	1.73E-01	6.16E-02	0.00E+00	2.06E-05
U-236	1.77E-02	1.36E-02	2.38E-02	8.46E-03	0.00E+00	2.83E-06
U-238	2.80E+00	2.15E+00	5.10E-01	2.81E+00	0.00E+00	4.47E-04
Total	1.15E+01	8.83E+00	6.31E+00	9.82E+00	2.48E-05	1.83E-03

Table ER RAI 4-6B.2 Estimated Dose Rates from UF_6 and Waste Containers

Container Type [1]	Source Material	Dose Rate at Surface µSv/hr (mrem/hr)	Dose Rate at 1 meter on-side midpoint µSv/hr (mrem/hr)	Dose Rate at 2 meters on axis µSv/hr (mrem/hr)
48Y cylinder	Natural U Feed (UF_6)	5.3 (0.53)	2.9 (0.29)	0.7 (0.0722)
48X cylinder	Natural U Feed (UF_6)	5.3 (0.53)	2.6 (0.26)	0.72 (0.072)
30 B cylinder	Enriched U Product (UF_6)	9.6 (0.96)	1.9 (0.19)	0.32 (0.032)
48Y cylinder	Depleted U (UF_6)	5.4 (0.54)	2.8 (0.28)	0.72 (0.072)
55 gal. drum	Solid Radwaste Materials	0.80 (0.080)	0.042 (0.0042)	0.013 [2] (0.0013)

Note:

1. Containers containing only "heels" for 48X or 48Y were not provided due to the low curie content and relatively short half-life of uranium progeny. For example, 30 days after removal of all UF_6, the progeny activity corresponds to about 20% of that of natural uranium; in 90 days it has decayed to less than 4%.
2. Waste drums assumed to be placed upright on truck.

Table ER RAI 4-6B.3 Annual Shipments to/from NEF (by Truck)

Material	Container Type	Estimated Number of Shipments [1]
Natural U Feed (UF_6)	48X or 48Y	345 to 690
Enriched U Product (UF_6)	30B	70 to 175
Depleted U (UF_6)	48Y	627
Solid Waste	55 gallon drum	8

Note:

1. 48Y cylinders are shipped one per truck. 48X cylinders are typically shipped two per truck. 30B cylinders are typically shipped two per truck, although up to five cylinders per truck can be shipped.

Table ER RAI 4-6B.4 Annual Air Pollution Impacts from Normal Transportation[1]

Facility	Material Description	Distance km (mi)	Trips Per Year	Air Pollutant Annual Impact		
				HC[2] metric ton (ton)	CO[2] metric ton (ton)	NOx[2] metric ton (ton)
UF_6 Conversion Facility Port Hope, Ontario	Feed	2869 (1782)	690	2.6 (2.8)	12.5 (13.87)	9.8 (10.8)
UF_6 Conversion Facility Metropolis, IL	Feed	1674 (1040)	690	1.5 (1.7)	7.32 (8.1)	5.7 (6.3)
Fuel Fabrication Facility Hanford, WA	Product	2574 (1599)	175	0.6 (0.6)	2.9 (3.1)	2.2 (2.5)
Fuel Fabrication Facility Columbia, SC	Product	2264 (1406)	175	0.5 (0.6)	2.5 (2.8)	2.0 (2.2)
Fuel Fabrication Facility Wilmington, NC	Product	2576 (1600)	175	0.6 (0.6)	2.9 (3.1)	2.2 (2.5)
Barnwell Disposal Site Barnwell, SC	LLW Disposal	2320 (1441)	8	0.02 (0.03)	0.1 (0.1)	0.1 (0.1)
Envirocare of Utah Clive, UT	LLW and Mixed Disposal	1636 (1016)	8	0.02 (0.02)	0.1 (0.1)	0.1 (0.1)
GTS Duratek Oak Ridge, TN	Waste Processor	1993 (1238)	8	0.02 (0.02)	0.1 (0.1)	0.1 (0.1)
Depleted UF_6 Conversion Facility Paducah, KY	Depleted UF_6 - Disposal	1670 (1037)	627	1.4 (1.5)	6.6 (7.3)	5.2 (5.7)
Depleted UF_6 Conversion Facility Portsmouth, OH	Depleted UF_6 Disposal	2243 (1393)	627	1.8 (2.0)	8.9 (9.8)	7.0 (7.7)

Note:

1. The total number of transportation trips per year to and from the NEF has been applied to each material type for each potential designation (e.g., there are a total of 690 feed cylinder transports per year, not 690 from each of the potential suppliers).
2. HC = hydrocarbons
   CO = carbon monoxide
   NOx = nitrogen oxides

Table ER RAI 4-6B.5 Annual Transportation Accidents

Material Description	Shipments Per Year	Estimated Number of Accidents Per Year
Feed	690	0.22
Product	175	0.054
Low- Level Rad Waste and Mixed Disposal	8	0.0025
Depleted UF_6 Disposal	627	0.19
Totals	1,500	0.47

Table ER RAI 4-6B.6 Transportation Destinations (to/from) NEF

Facility	Material Description
UF6 Conversion Facility Port Hope, Ontario	Feed (48Y)
UF6 Conversion Facility Metropolis, IL	Feed (48Y)
Fuel Fabrication Facility Hanford, WA	Product (30B)
Fuel Fabrication Facility Columbia, SC	Product (30B)
Fuel Fabrication Facility Wilmington, NC	Product (30B)
Barnwell Disposal Site Barnwell, SC	Waste (Drum)
Envirocare of Utah Clive, UT	Waste (Drum)
GTS Duratek Oak Ridge, TN	Waste (Drum)
Conversion Facility Paducah, Kentucky	Depleted U (48Y)
Conversion Facility Portsmouth, Ohio	Depleted U (48Y)

Table ER RAI 4-7F.1 Causes of Injuries at Capenhurst (1999-2003)

Main Causes of Injury at UCL 1999-2003	Number	Percent of Total
Handling tools, equipment or other items	10	40%
Impact (striking objects or objects falling)	3	12%
Slips, trips or falls on the same level	8	32%
Chemical contact	2	8%
Welding	2	8%
Total	**25**	

Table ER RAI 7-1A.1 Descriptions of Job Types During Operation

Job Category	Level	Number of Jobs	Education/Training[2] [3] [4][5]	Average Monthly Pay[6][7]
Facility Operator	Skilled	NA[1]	HS Diploma, Associate/Advanced	$3,500
Shift Supervisor	Skilled	NA[1]	HS Diploma, Associate/Advanced	$3,500
Radiation Protection & Chemistry Technicians	Skilled	NA[1]	HS Diploma, Associate/Basic	$3,500
Maintenance Technician	Skilled	NA[1]	HS Diploma, Associate/Basic	$3,500
Security Guard	Skilled	NA[1]	HS Diploma, Associate/Basic	$3,500
Stores Personnel	Skilled	NA[1]	HS Diploma, Associate/Basic	$3,500
Custodial/Janitorial	Semi-Skilled	NA[1]	HS Diploma/Basic	$3,500
Total Skilled / Semi-Skilled		126		
Administrative Personnel	Administrative	21	HS Diploma, Associate	$2,500
Professional Staff (engineering, scientific, technical)	Professional	42	Associate, Bachelor or Master/Basic to Advanced	$5,167
Management	Managerial	21	Associate, Bachelor or Master/Basic to Advanced	$7,917
	Total	210		

Notes:
1. Further breakdown for the skilled level cannot be provided for reasons of security.
2. HS Diploma=High School Diploma, minimum requirement
3. Basic=basic knowledge of NEF provided in training
4. Advanced=advanced knowledge of NEF provided in training
5. Training will be provided by LES in partnership with local educational institutions.
6. Pay is stated in 2002 real dollars; not adjusted for anticipated price or wage inflation over the 30-year period analyzed.
7. Average monthly pay is provided by "Level." Further refinement by "Job Category" is not available at this time.

Table ER RAI 7-1B.1 Estimated Construction Material Yearly Purchases

Commodity	Quantity	Total Value (Material Cost)	Yearly Purchases
Concrete/Forms/Rebar	59196 m^3 (77,425 yd^3)	$9,441,000	$9,441,000
Pre-Cast Concrete	120774 m^2 (1,300,000 ft^2)	$25,232,000	$8,410,667
Structural Steel	1865 t (2,056 tons)	$5,524,000	$5,524,000
Architectural Items	1 Lot	$26,995,000 Finishes, etc.	$26,995,000
HVAC Systems	109 Each	$27,098,000 Systems Mat'ls.	$27,098,000
Utility Piping	55656 m (182,597 linear ft)	$20,777,000	$20,777,000
Electrical Conduit & Wire	361898 m (1,187,328 linear ft)	$14,174,000	$7,087,000

Table ER RAI 7-1B.2 Estimated Yearly Labor Costs for Construction

Type of Work	Number Of Craft-Hours	Approx. No. People	Total Value	Yearly Purchases
Civil & Site Work	163,000	65 people for 1 year	$5,264,900	$5,264,900
Concrete Work	541,000	70 people for 3 years	$17,420,200	$5,806,733
Structural Steel	54,000	25 people for 1 year	$1,852,200	$1,852,200
Pre-cast Concrete	166,000	66 people for 1 year	$5,345,200	$5,345,200
Architectural Finishes	284,000	150 people for 1 year	$9,088,000	$9,088,000
Utility Equipment	23,000	15 people for 1 year	$969,450	$969,450
HVAC Sys. & Ductwork	186,000	40 people for 1 year	$6,175,200	$6,175,200
Electrical Conduit & Wire	280,000	70 people for 2 years	$10,556,000	$5,278,000

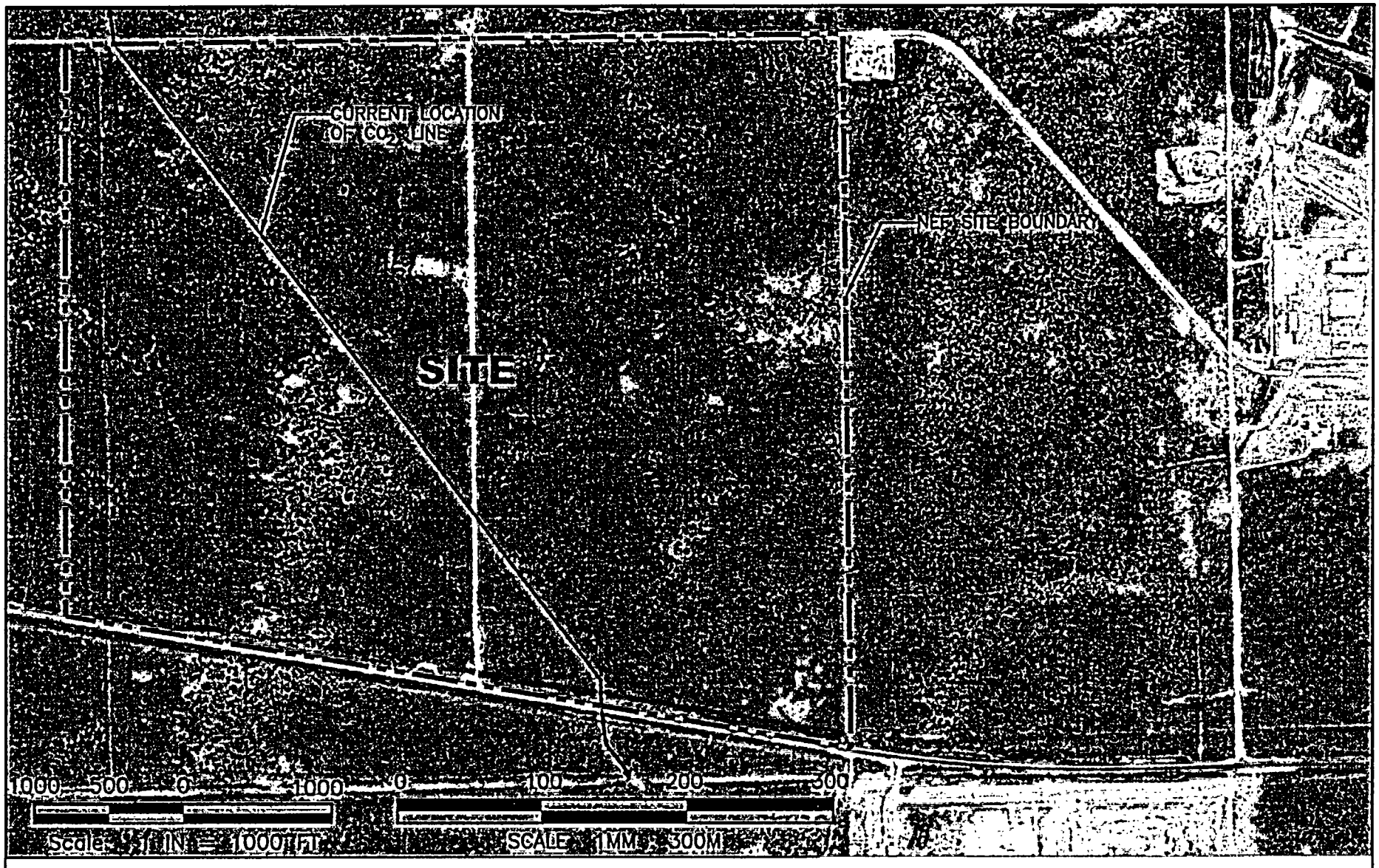
ATTACHMENT 3

Louisiana Energy Services
Response to April 29, 2004,
Request for Additional Information

Figures Referenced from Responses

The following figures are referenced in responses to various RAIs:

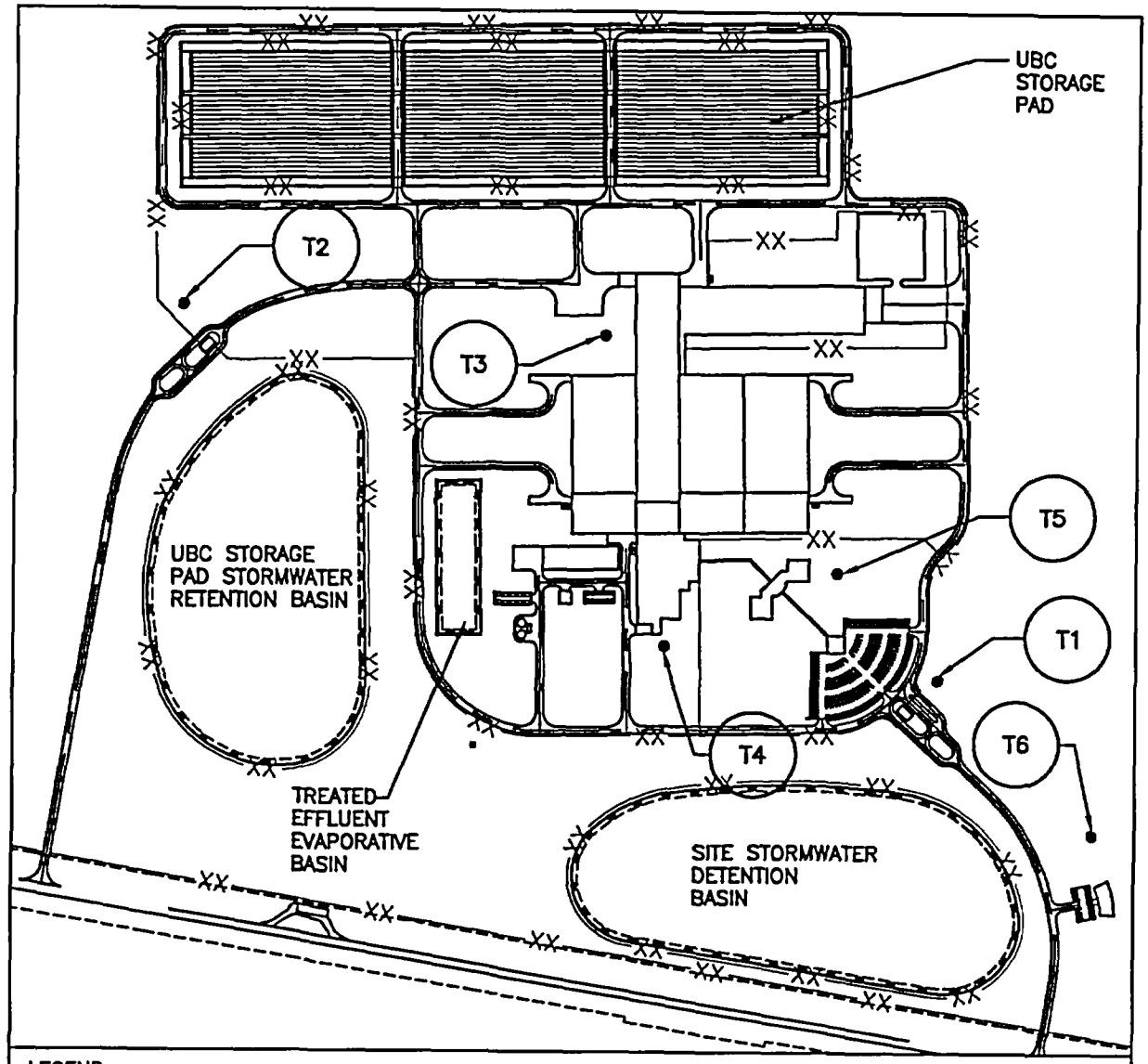
- Figure ER RAI 2-1, Location of Current CO_2 Line.
- Figure ER RAI 2-2, Planned Septic Tank System Locations.
- Figure ER RAI 2-7C.1, Aerial View of Eddy County Site.
- Figure ER RAI 2-7D.1, Contributions by Grouped Criteria.
- Figure ER RAI 2-7D.2, Contributions by Criteria.
- Figure ER RAI 3-1A, Soil Sample Locations.
- Figure ER RAI 3-3, Comparison of Wind Direction Data.
- Figure ER RAI 3-4A, County Map, Proposed Area of Critical Environmental Concern (ACEC), Lesser Prairie Chicken.
- Figure ER RAI 4-1.1, Aerial View.
- Figure ER RAI 4-1.2, View to the Northwest.
- Figure ER RAI 4-1.3, View to the East.
- Figure ER RAI 4-1.4, View to the South.
- Figure ER RAI 4-1.5, View to the West.
- Figure ER RAI 4-4D, Release Point Locations.
- Figure ER RAI 6-1C, Groundwater Monitoring Well Locations.



MAP SOURCE:
AERIAL PHOTOGRAPH
INDEPENDENT MAPPING SERVICES
AUGUST 2003

NORTH

Figure ER RAI 2-1	LOCATION OF CURRENT CO_2 LINE
DATE: 5/20/04	



LEGEND:

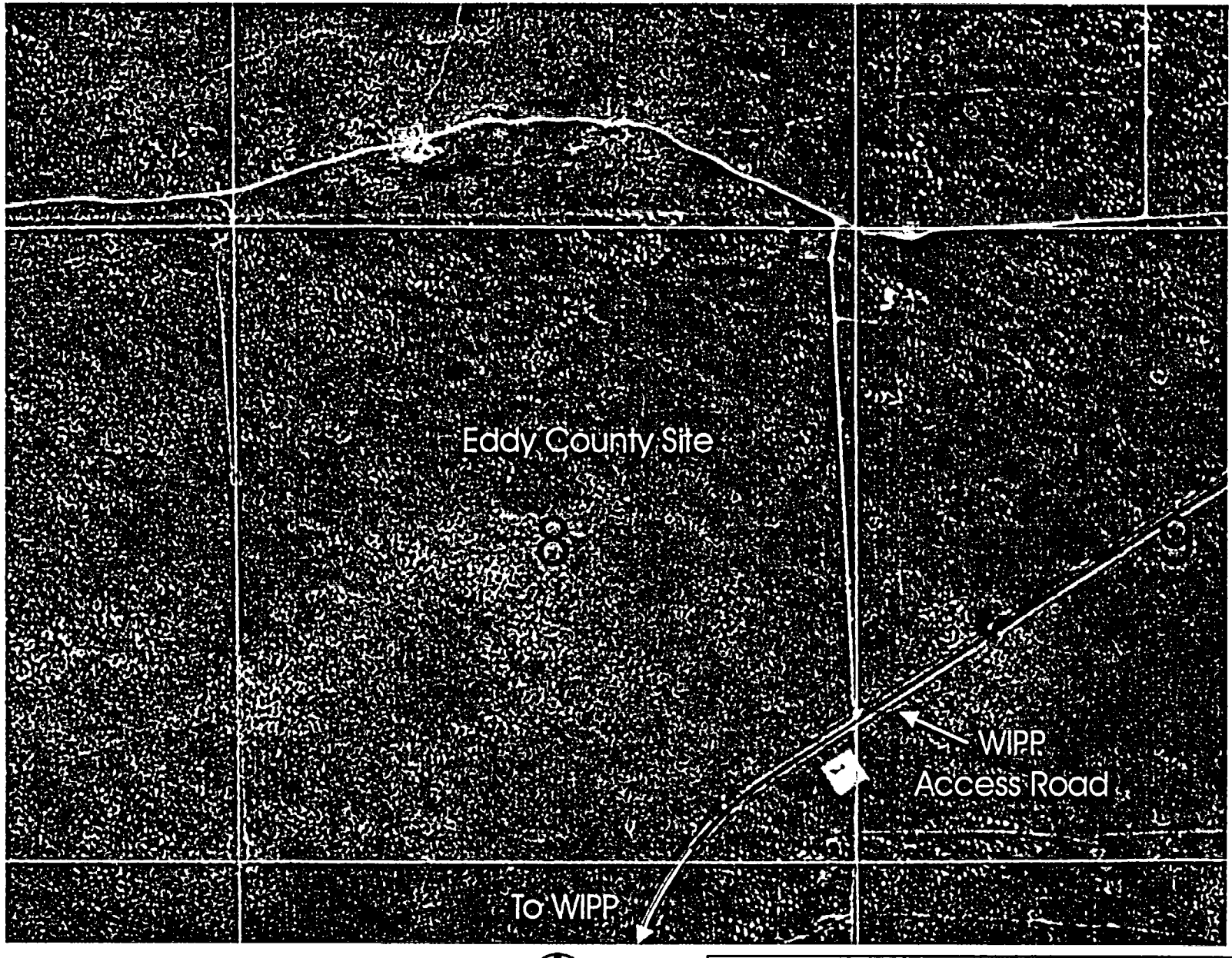
T1 SEPTIC TANK SYSTEM LOCATION (TYPICAL)

600 0 600
Scale: FEET

200 0 200
Scale: METERS

NORTH

FIGURE ER RAI 2-2	PLANNED SEPTIC TANK SYSTEM LOCATIONS
DATE: 5/20/04	



NOTE: Scale not shown, sections are 1.6 km (1 mi) by 1.6 km (1 mi)

NORTH

Figure ER RAI 2-7C.1	AERIAL VIEW OF EDDY COUNTY SITE
DATE: 5/20/04	

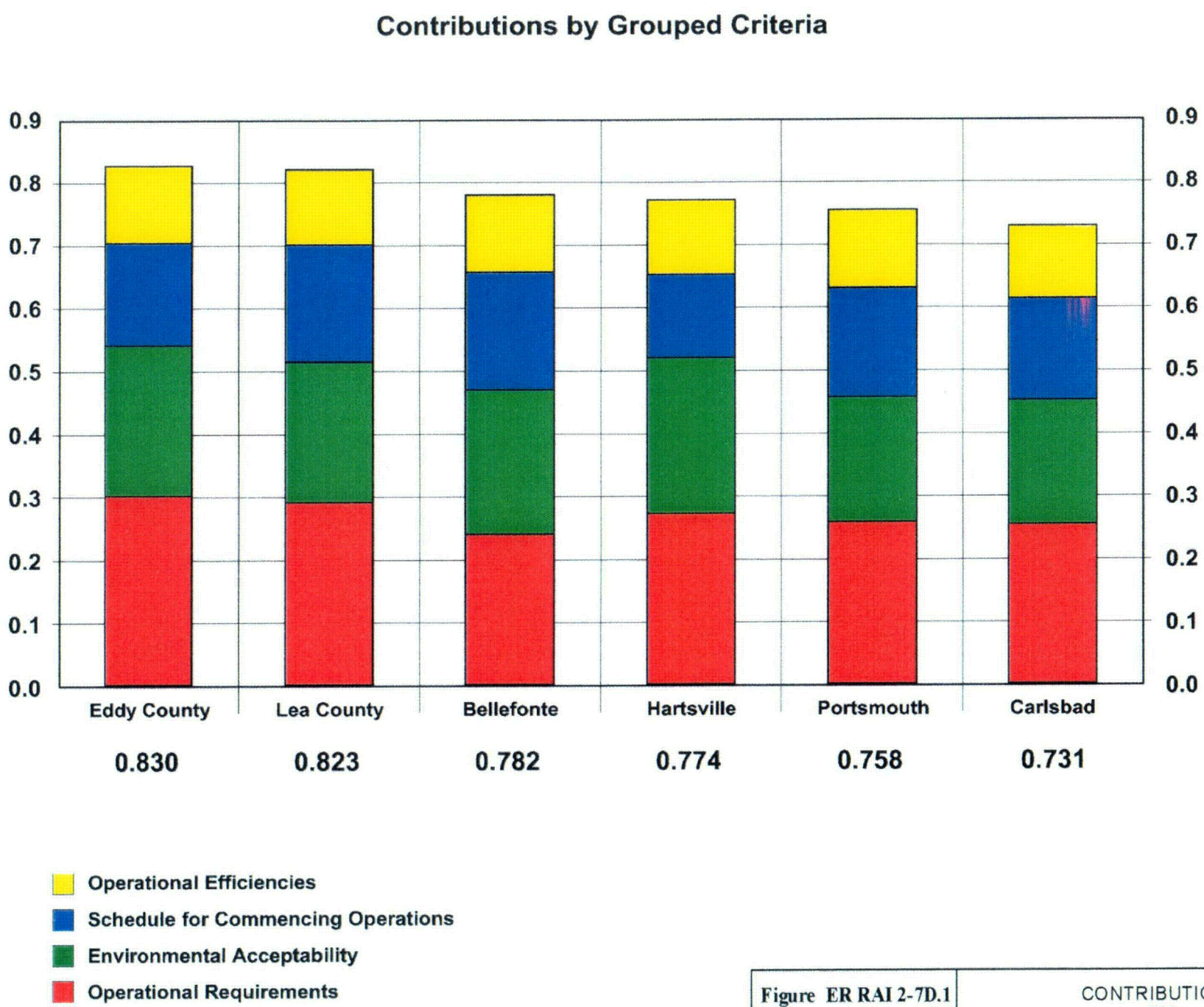


Figure ER RAI 2-7D.1	CONTRIBUTIONS BY GROUPED CRITERIA
DATE: 5/20/04	

C01

Contributions by Criteria

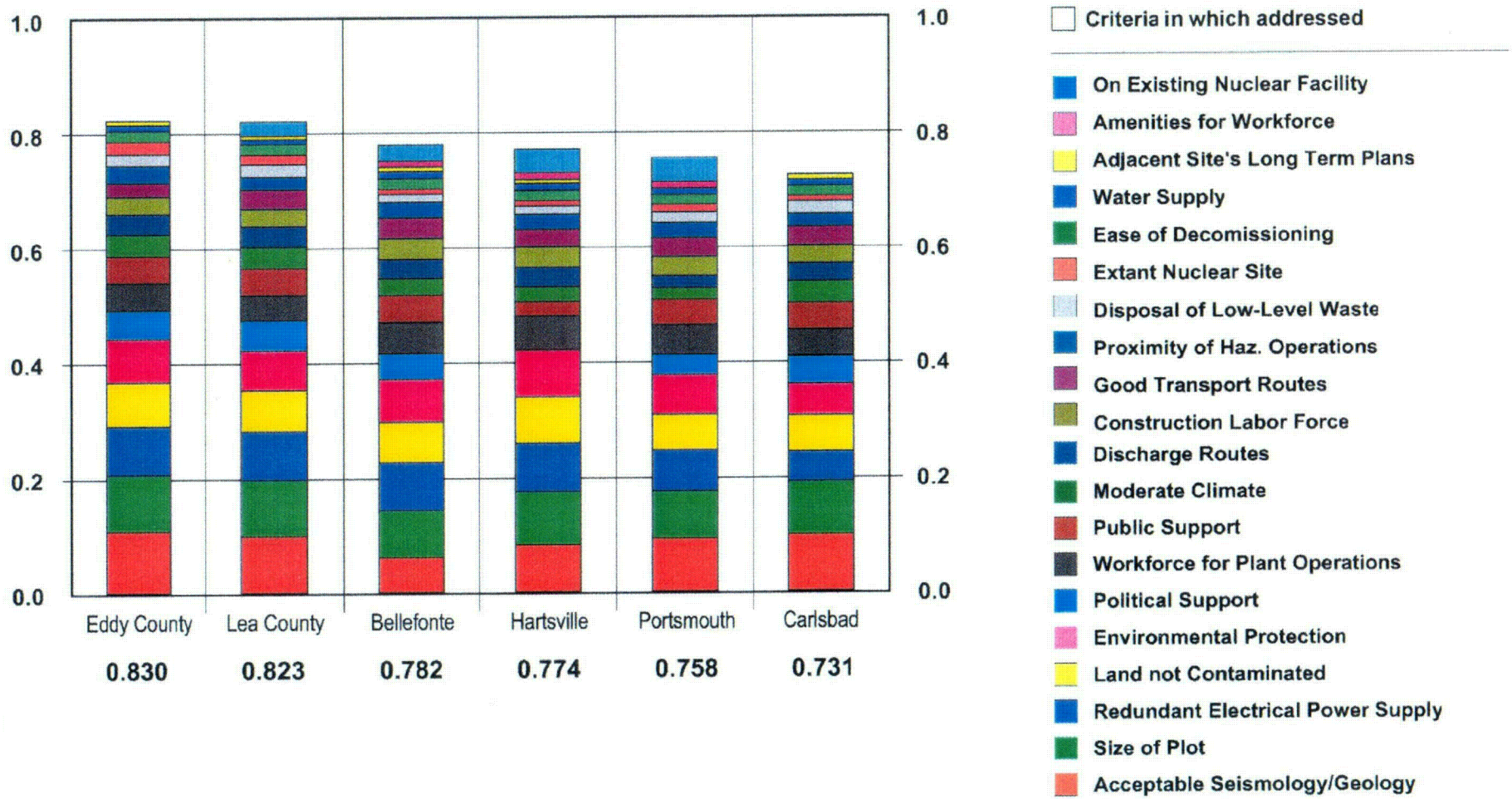
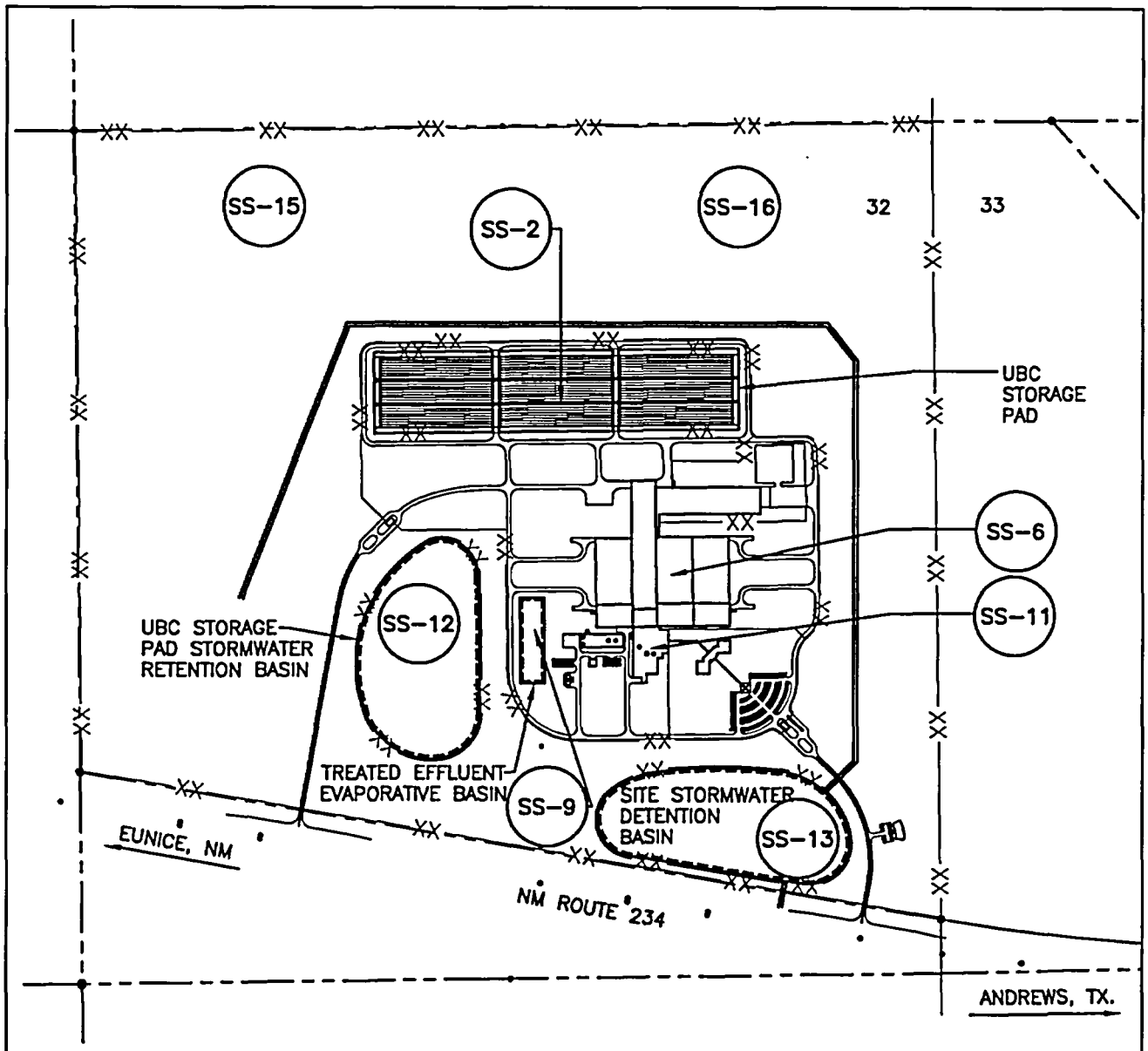


Figure ER RAI 2-7D.2	CONTRIBUTIONS BY CRITERIA
DATE: 5 / 20 / 04	

C02



300 500 0 300 600 METERS

1000 500 0 1000 2000 FEET

NORTH

LEGEND:

SS-2 SOIL SAMPLE (TYPICAL)

NOTE: THE APPROXIMATE SOIL SAMPLE LOCATIONS ARE SHOWN. FOR EXACT LOCATIONS, REFER TO TABLE ER RAI 3-1A.1

FIGURE ER RAI 3-1A	SOIL SAMPLE LOCATIONS
DATE: 5/20/04	

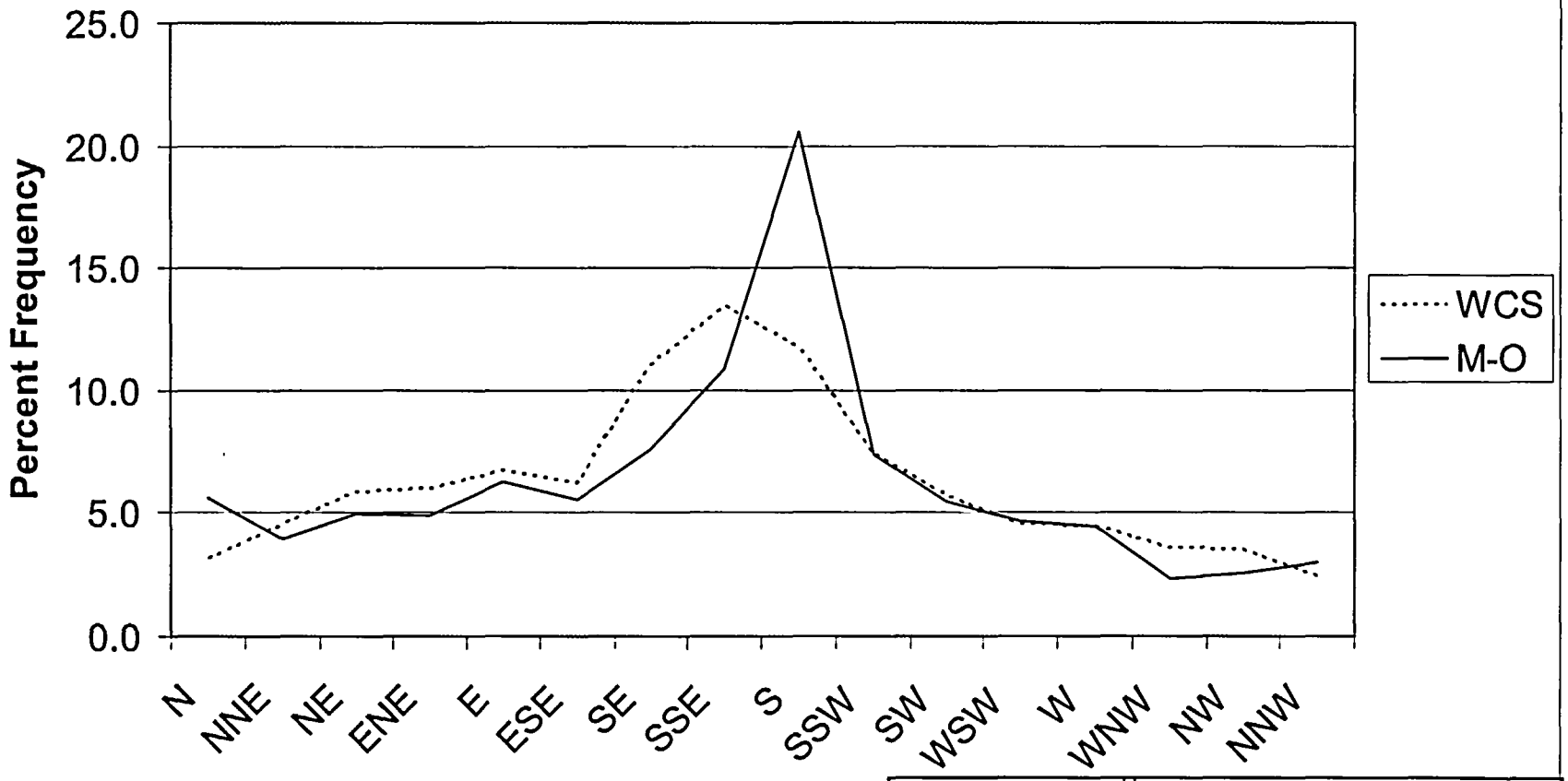
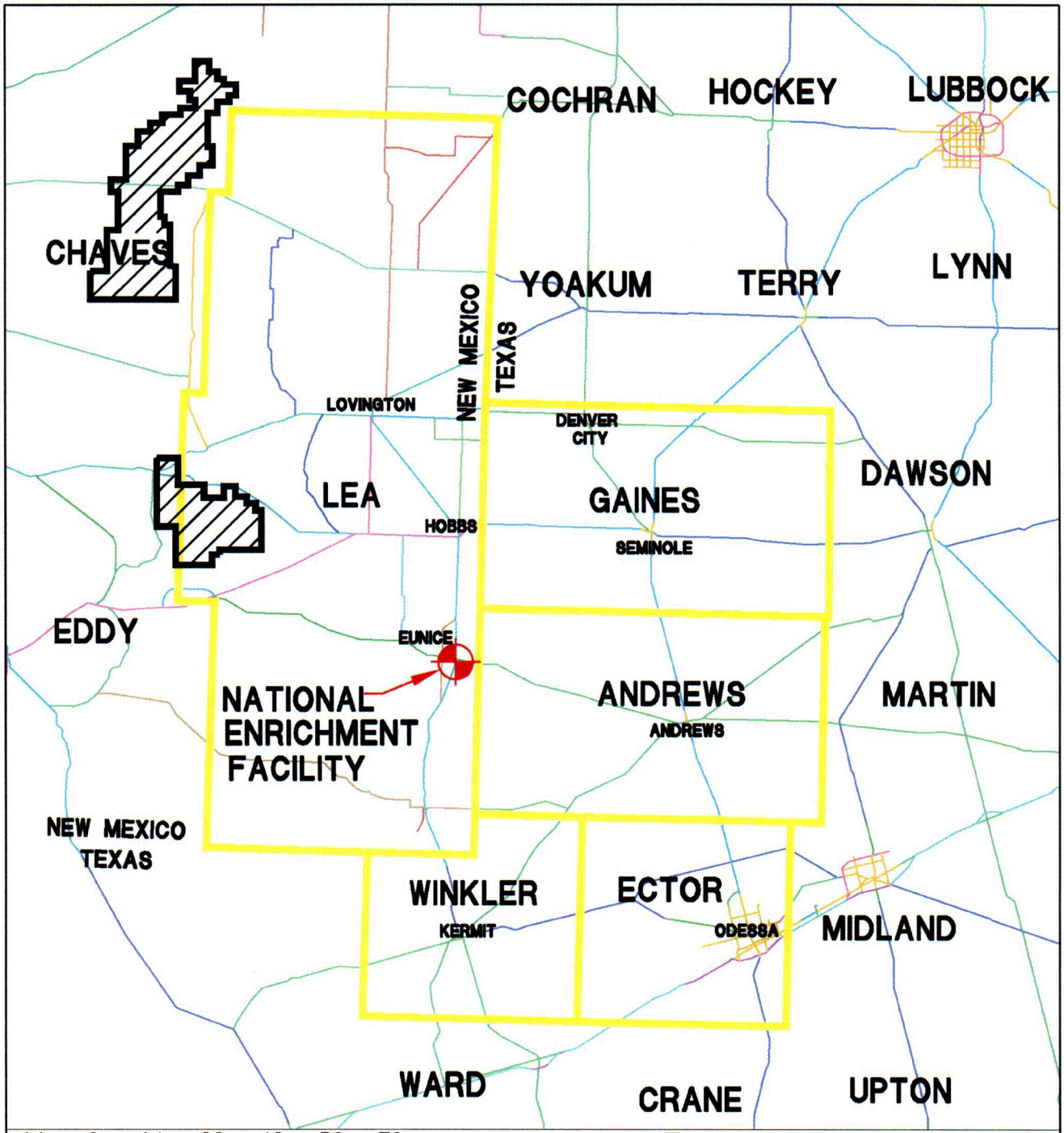


FIGURE ER RAI 3-3	Comparison of Wind Direction Data
DATE: 5/20/04	



14 0 14 28 42 56 70 KM

14 0 14 28 42 MILES

NORTH

MAP SOURCE:
U.S.CENSUS BUREAU
2000 INCORPORATED PLACES

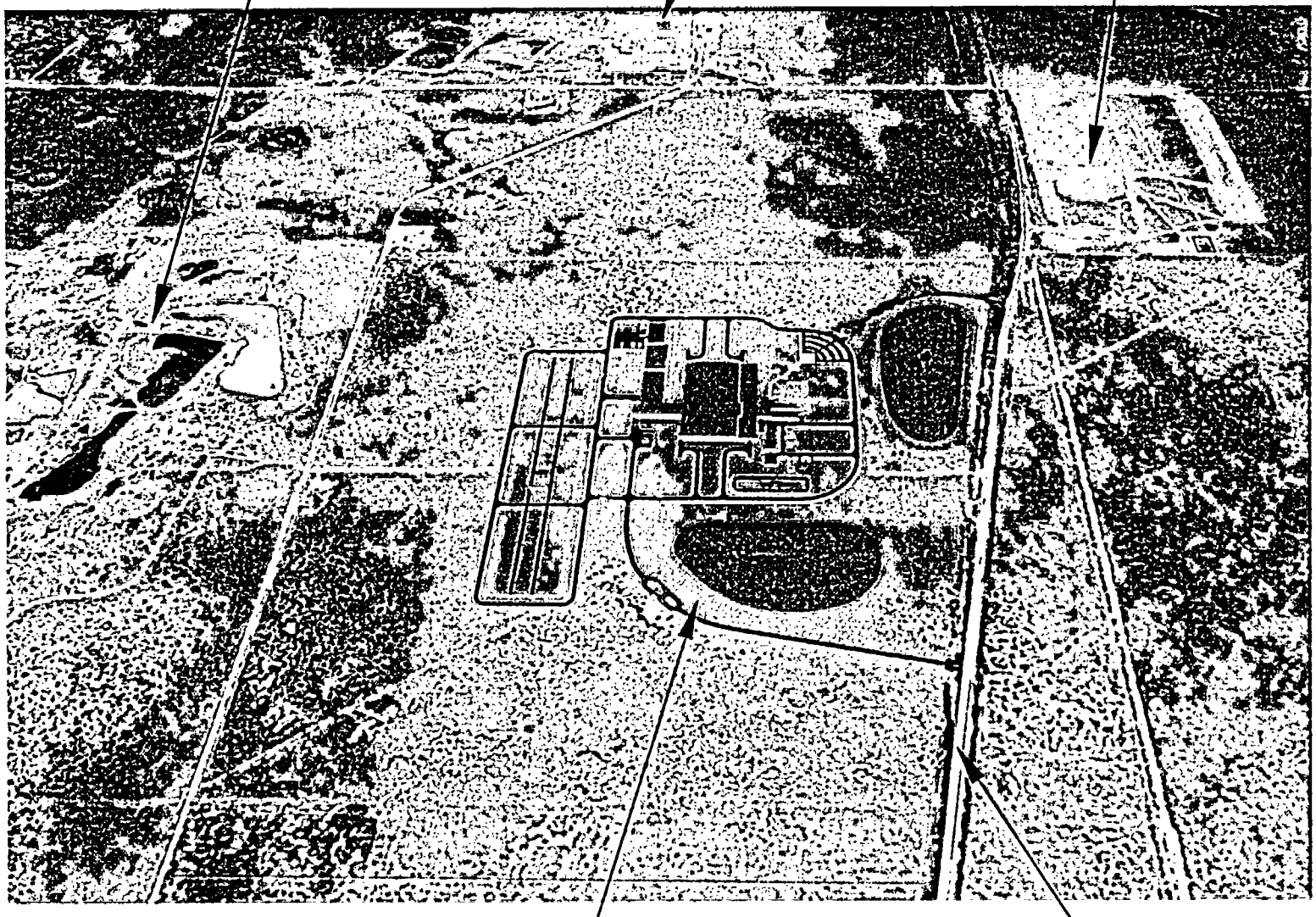
KEY:
APPROXIMATE LOCATION OF PROPOSED ACEC BOUNDARY

FIGURE ER RAI 3-4A

DATE: 5/20/04

COUNTY MAP
PROPOSED AREA OF CRITICAL ENVIRONMENTAL CONCERN (ACEC)
LESSER PRAIRIE CHICKEN

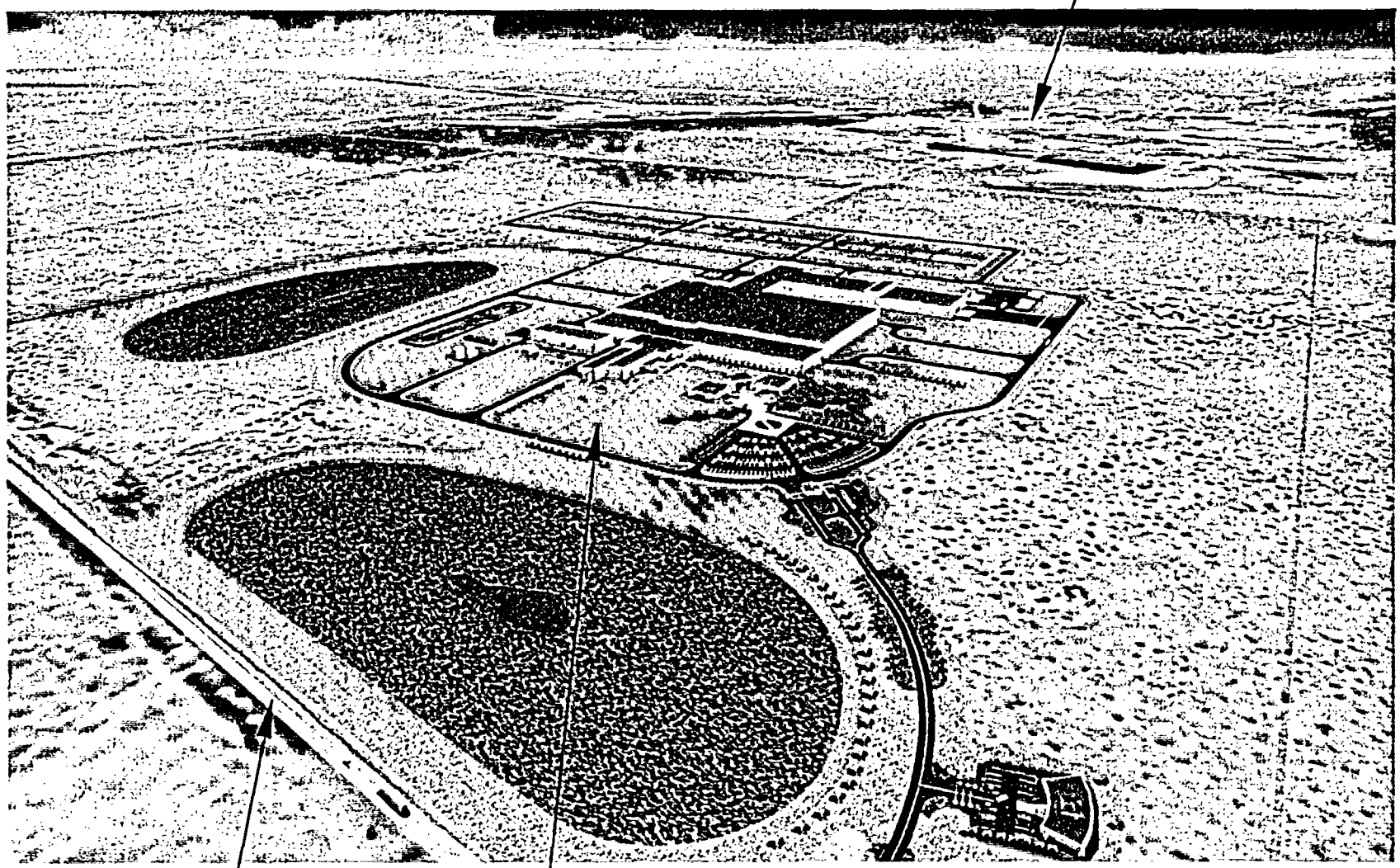
C03-



NOTE:
THE GREEN SHADING IS MEANT TO HIGHLIGHT THE NEF FOOTPRINT. IT IS NOT INDICATIVE OF VEGETATION.

NORTH

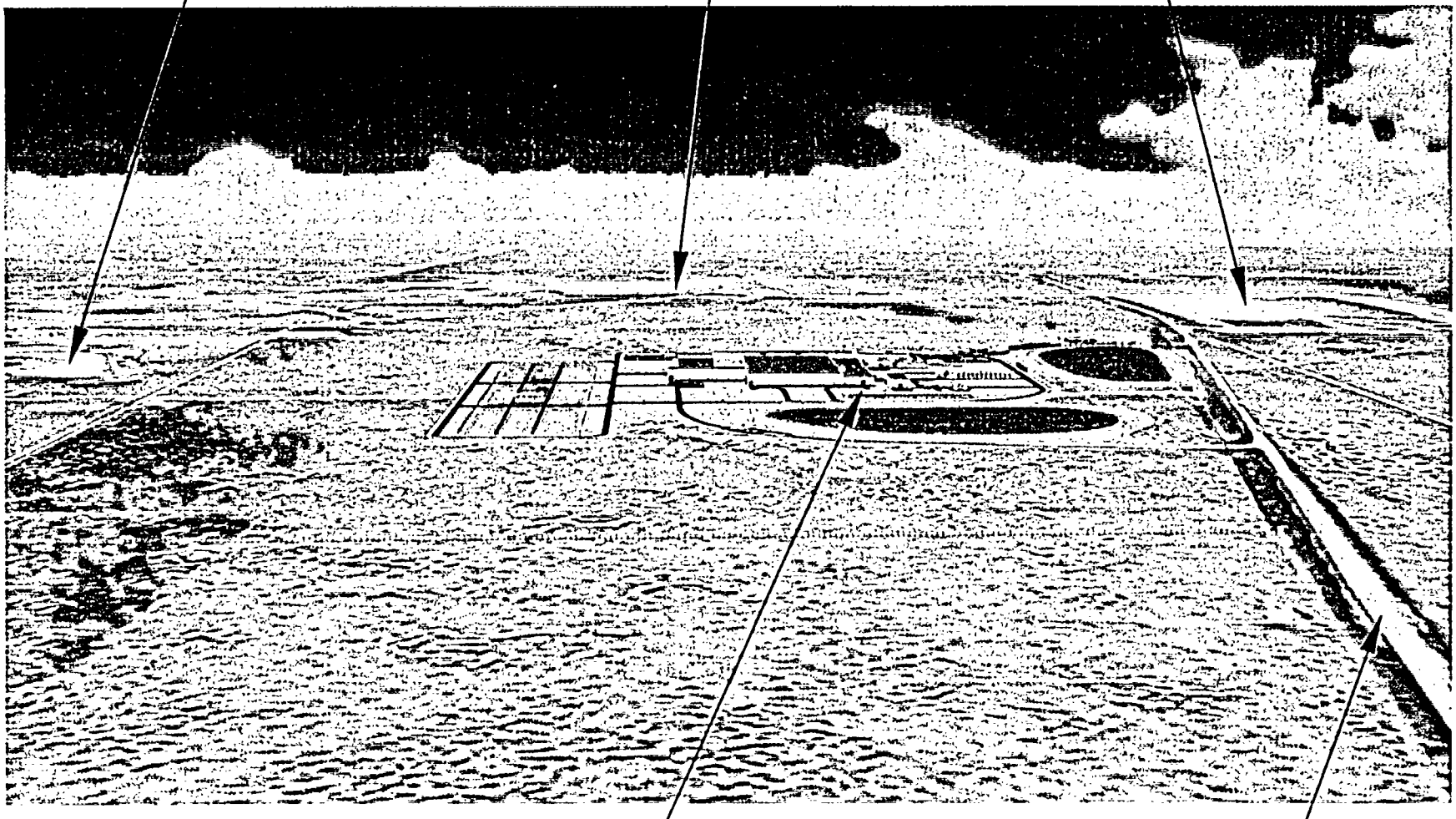
Figure ER RAI 4-1.1	AERIAL VIEW
DATE: 5/20/04	



NOTE:
THE GREEN SHADING IS MEANT TO HIGHLIGHT THE NEF FOOTPRINT. IT IS NOT INDICATIVE OF VEGETATION.

NORTH

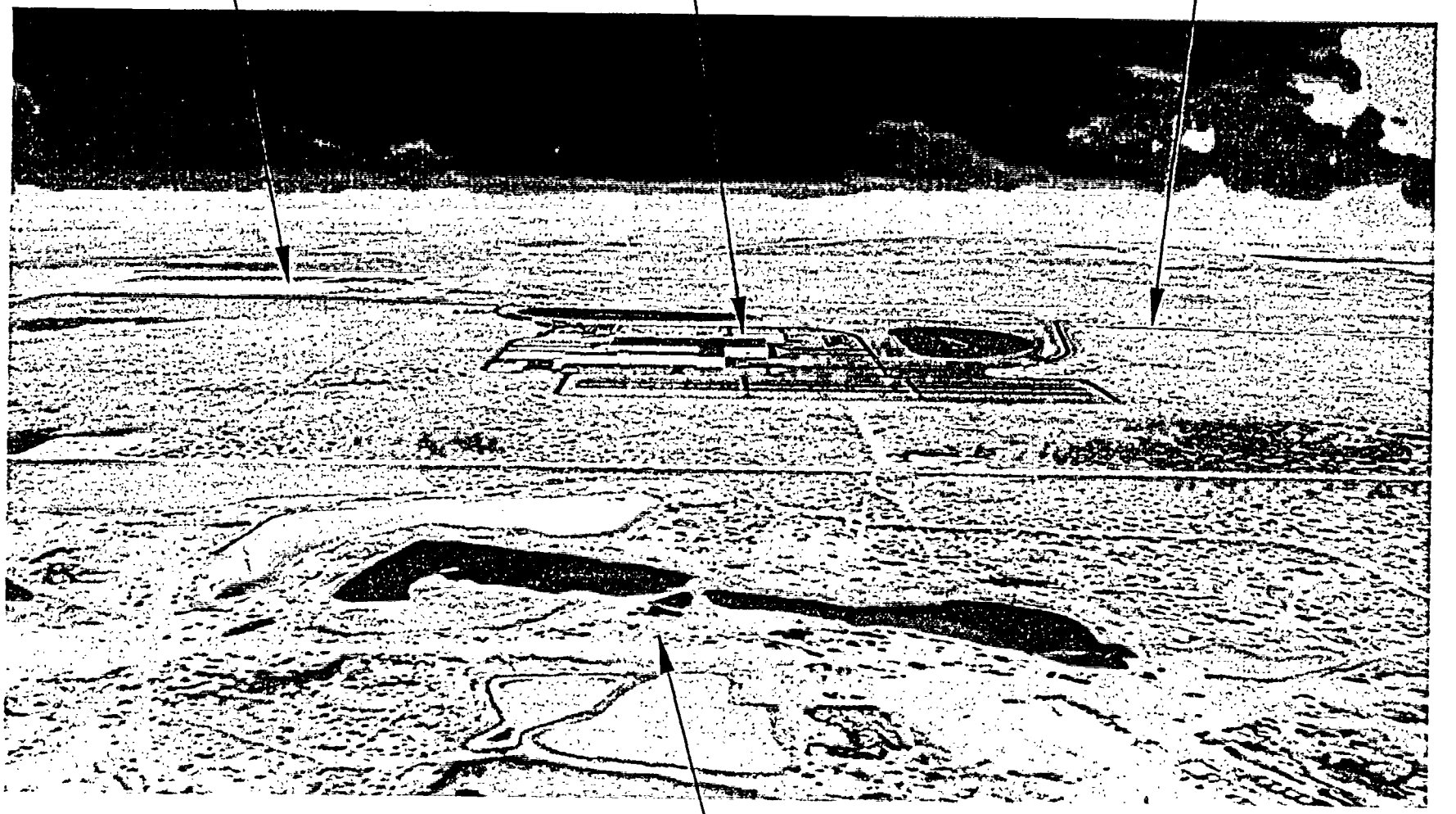
Figure ER RAI 4-1.2	VIEW TO THE NORTHWEST
DATE: 5/20/04	



NOTE:
THE GREEN SHADING IS MEANT TO HIGHLIGHT THE NEF FOOTPRINT. IT IS NOT INDICATIVE OF VEGETATION.

NORTH

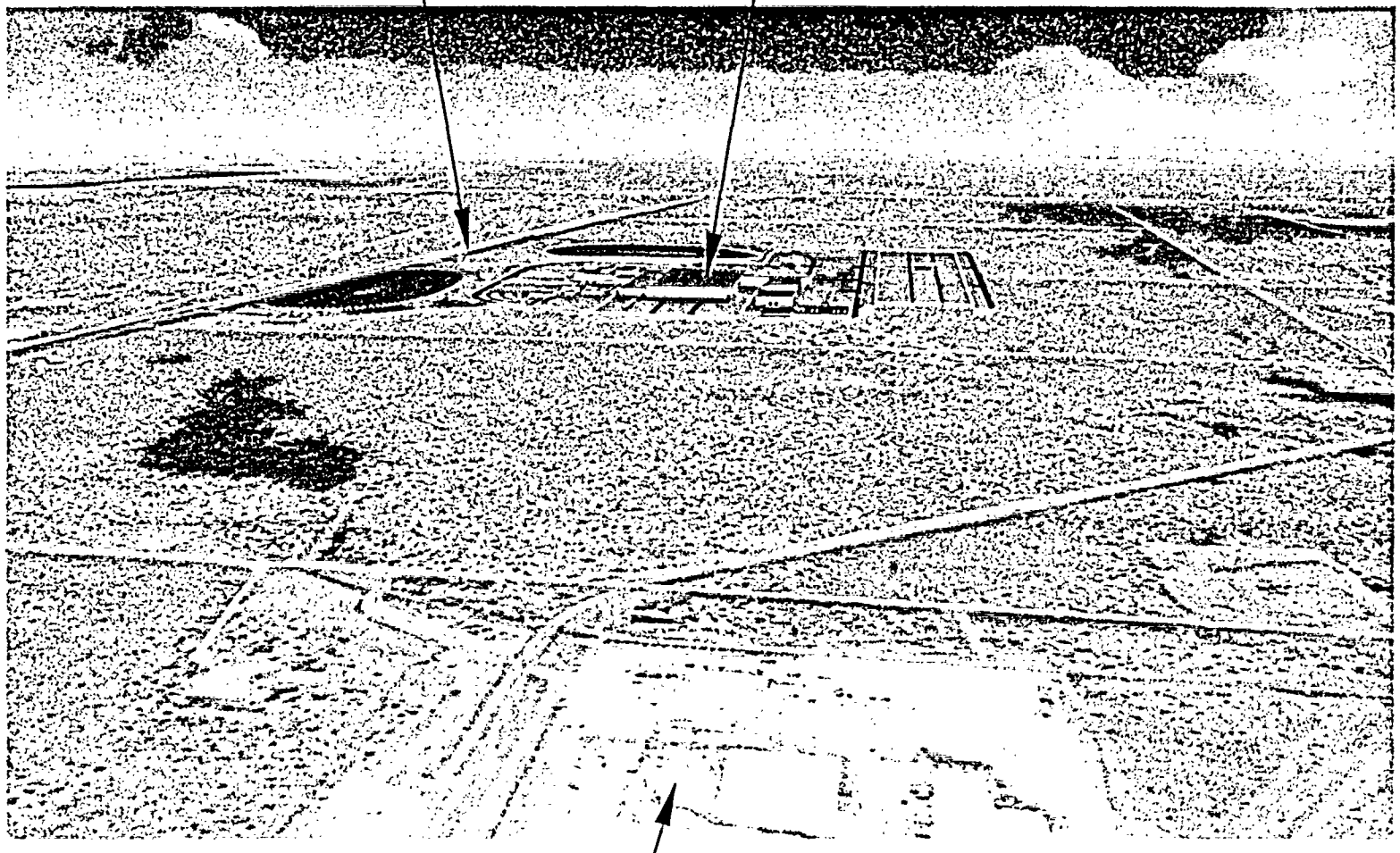
Figure ER RAI 4-1.3	VIEW TO THE EAST
DATE: 5/20/04	



NOTE:
THE GREEN SHADING IS MEANT TO HIGHLIGHT THE NEF FOOTPRINT. IT IS NOT INDICATIVE OF VEGETATION.

NORTH

Figure ER RAI 4-1.4	VIEW TO THE SOUTH
DATE: 5/20/04	



NOTE:
THE GREEN SHADING IS MEANT TO HIGHLIGHT THE NEF FOOTPRINT. IT IS NOT INDICATIVE OF VEGETATION.

NORTH

Figure ER RAI 4-1.5	VIEW TO THE WEST
DATE: 5/20/04	

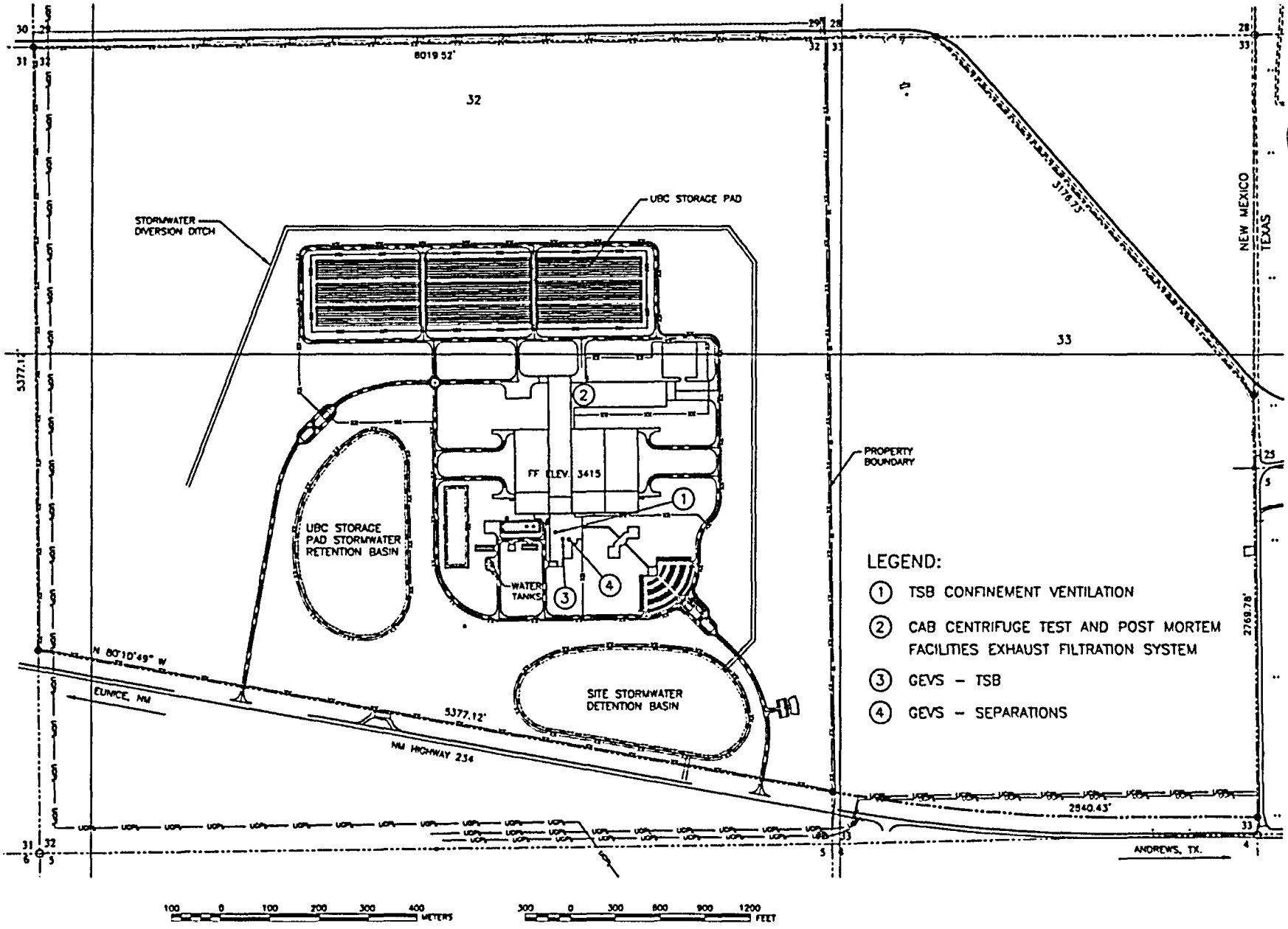


Figure ER RAI 4-4D	RELEASE POINT LOCATIONS
DATE: 5/20/04	

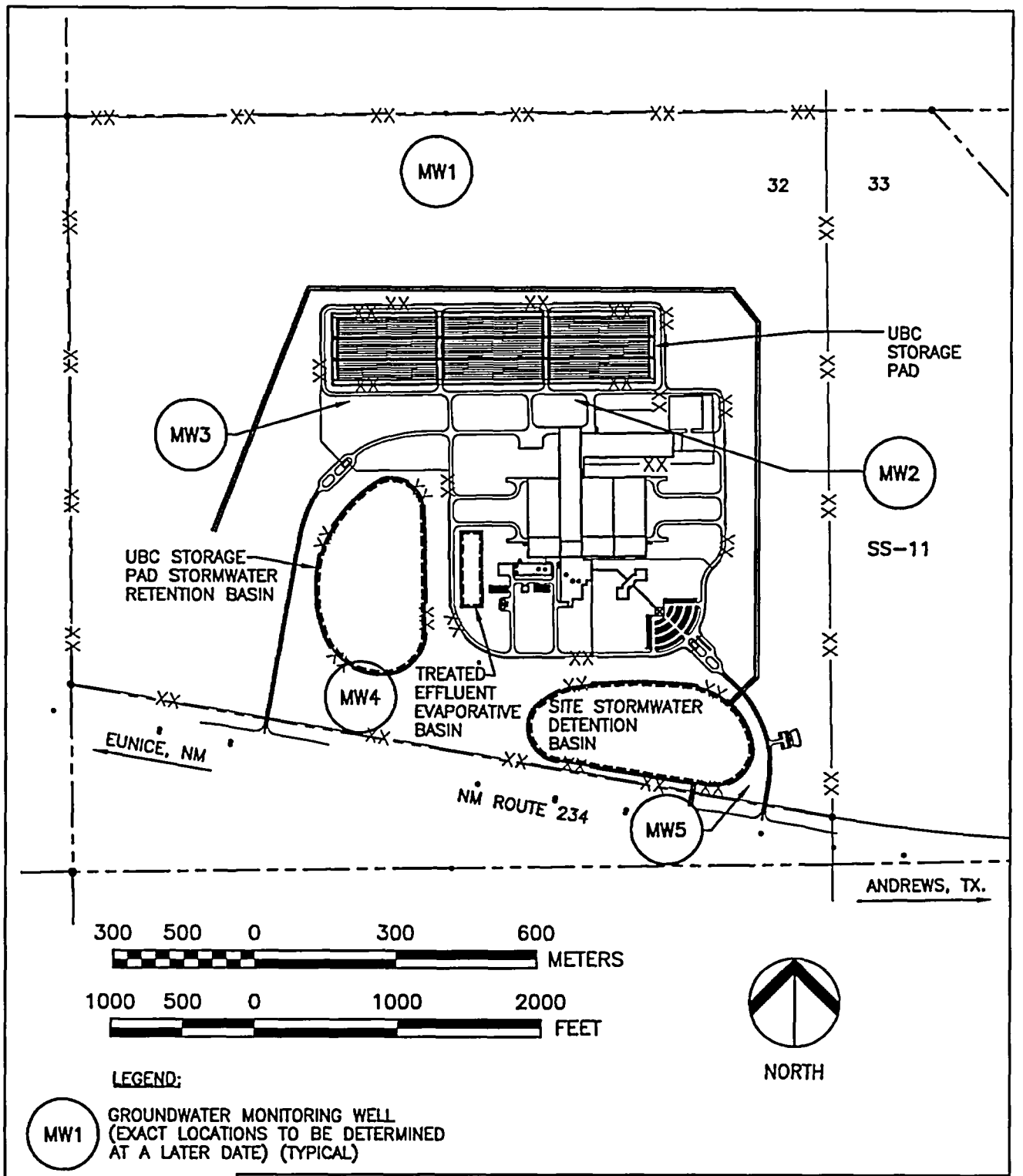


FIGURE ER RAI 6-1C	GROUNDWATER MONITORING WELL LOCATIONS
DATE: 5/20/04	

ATTACHMENT 4

Louisiana Energy Services
Response to April 29, 2004,
Requests for Additional Information

Letter Dated March 12, 2004, from J. Mace (US Army Corps of Engineers)
to G. Harper (Framatome-ANP)
Regarding the Absence of Corps of Engineers' Jurisdictional Waters on the NEF Site

DEPARTMENT OF THE ARMY
ALBUQUERQUE DISTRICT, CORPS OF ENGINEERS
EL PASO REGULATORY OFFICE
PO BOX 6096
FORT BLISS TX 79906-0096

March 17, 2004

Operations Division
Regulatory Branch

George Harper
FRAMATONE ANP, INC.
Solomon Pond Park, 400 Donald Lynch Blvd
Marlborough, MA 01752

Dear Mr. Harper:

This replies to the March 15, 2004, field inspection that I conducted with you and Denise Gallegos regarding the proposed National Enrichment Facility in Eunice, Lea County, New Mexico. We have assigned Action No. 2004 00170 to this activity. The proposed construction site is located in Section 32, Range 38 East, Township 21 South.

We have evaluated the information you provided and studied the project description, other records, and documents available to us. Additionally, as referenced, I visited the site on March 15, 2004. We concur with your findings that no waters of the United States are located within the project site and that there are no Corps of Engineers' jurisdictional waters on the site. Therefore, the project is not regulated under the provisions of Section 404 of the Clean Water Act and a Department of the Army permit will not be required.

Our disclaimer of jurisdiction is only for Section 404 of the Federal Clean Water Act. Other Federal, state and local laws may apply to the activities. Therefore, you should also contact other Federal, state and local regulatory authorities to determine whether the activities may require other authorizations or permits.

This jurisdictional determination will be valid for 5 years from the date of this letter unless new information warrants revision of the determination within that time.

If you have any questions, please feel free to contact me at (915) 568-1359 or e-mail me at james.e.mace@usace.army.mil. For

more information about the regulatory program, please see our web site at www.spa.usace.army.mil/reg.

Sincerely,

James E. Mace
Chief, El Paso Regulatory Office

Copies furnished:

El Paso
NMED

ATTACHMENT 5

Louisiana Energy Services
Response to April 29, 2004,
Requests for Additional Information

Letter Dated April 13, 2004, from R. Krich (Louisiana Energy Services, L.P.)
to J. Parker (New Mexico Environment Department)
Regarding "Registration of X-Ray Radiation Machines for the National Enrichment Facility"

NATIONAL
ENRICHMENT
FACILITY

April 13, 2004

Mr. John Parker, Chief
Radiation Control Bureau
Field Operations Division
New Mexico Environment Department
1190 St. Francis Drive, S2100
P.O. Box 26110
Santa Fe, New Mexico 87502-6110

Subject: Registration of X-Ray Radiation Machines for the National Enrichment Facility

As you are aware, Louisiana Energy Services (LES), L.P. is proposing to construct and operate the National Enrichment Facility (NEF) in Lea County, New Mexico. It is anticipated that the NEF will have one or more x-ray radiation machines used by access security to screen packages and personnel articles entering the secure areas of the plant. Other radiation machines will be used to x-ray certain equipment after assembly.

Although the number and types of x-ray radiation machines that will be required will not be known for several years, the purpose of this letter is to provide your office with advanced notification that LES may be submitting x-ray radiation machine registration applications in accordance with 20.3.2 NMAC (Form NMED 022). As outlined in 20.3.2 NMAC, LES will submit the x-ray radiation machine registrations only if the x-ray radiation machines exceed the exempt specification provided in 20.3.2 NMAC.

Please contact me if you have any questions regarding this matter. I can be reached at (630) 657-2813.

Respectfully,

R. M. Krich
Vice President - Licensing, Safety and Nuclear Engineering

One Sun Plaza 100 Sun Lane NE, Suite 204 Albuquerque, NM 87109 [P] 505 944 0194 [F] 505 944 019

ATTACHMENT 6

Louisiana Energy Services
Response to April 29, 2004,
Requests for Additional Information

Documentation Supplied in Response to Requests

The following documents are provided in this attachment in response to requests contained in RAI 3-4B, RAI 3-4C, and RAI 4-11:

- Atomic Vapor Laser Isotope Separation (AVLIS), New Mexico, Technical Appendices, submitted by the State of New Mexico and Waste Control Specialists, LLC.
- Evaluation of Potential Groundwater Impacts by the WCS Facility in Andrews County, Texas, Prepared for Andrews Industrial Foundation, K. Rainwater, December 1996.
- Geology of the WCS-Flying W Ranch, Andrews County, Texas, Prepared for Andrews Industrial Foundation, Texas Tech University Water Resources Center, April 2000.
- Groundwater Non-radiological Analytical Report for Monitoring Well MW-2, First Sampling Event, analyzed by Severn Trent Laboratory, November 19, 2003.
- Groundwater Non-radiological Analytical Report for Monitoring Well MW-2, Second Sampling Event, analyzed by Severn Trent Laboratory, December 22, 2003.
- Groundwater Non-radiological Analytical Report for Monitoring Well MW-2, Third Sampling Event, analyzed by Severn Trent Laboratory, May 6, 2004.
- Groundwater Radiological Analytical Report for Monitoring Well MW-2, First Sampling Event, analyzed by Framatome ANP Environmental Laboratory, October 30, 2003.
- Groundwater Radiological Analytical Report for Monitoring Well MW-2, Second Sampling Event, analyzed by Framatome ANP Environmental Laboratory, November 26, 2003.
- Groundwater Radiological Analytical Report for Monitoring Well MW-2, Third Sampling Event, analyzed by Framatome ANP Environmental Laboratory, April 27, 2004.
- Hydrogeologic Investigation, Section 32; Township 21 Range 38, Eunice, New Mexico, prepared for Lockwood Greene Engineering & Construction, prepared by Cook-Joyce, Inc., November 19, 2003.
- Lesser Prairie-Chicken (Tympanuchus pallidicinctus), Area of Critical Environmental Concern (ACEC), A Petition to the New Mexico BLM, by Ken Stinnett.
- Lesser Prairie-Chicken Surveys on the National Enrichment Facility Proposed Project Site, Eagle Environmental, Inc., May 2004
- RCRA Permit Application for a Hazardous Waste Storage, Treatment and Disposal Facility, Andrews County, Texas, Section VI, Geology Report, prepared for Waste Control Specialists, Inc., prepared by Terra Dynamics Incorporated, March 1993.
- Report of Preliminary Subsurface Exploration, Proposed National Enrichment Facility, Lea County, New Mexico, prepared for Lockwood Greene, prepared by MACTEC Engineering and Consulting, Inc., October 17, 2003.
- Soil Radiological Analytical Report, First Sampling Event, analyzed by Framatome ANP Environmental Laboratory, November 5, 2003.

- Soil Radiological Analytical Report, Second Sampling Event, analyzed by Framatome ANP Environmental Laboratory, April 27, 2004.
- Soil Non-Radiological Analytical Report, Second Sampling Event, analyzed by Severn Trent Laboratory, April 29, 2004.
- Waste Control Specialists, 2002 Annual Groundwater Monitoring Report, prepared for Waste Control Specialists, LLC, prepared by Cook-Joyce, Inc., January 25, 2003.
- Waste Control Specialists, Section VI, Geology Report, prepared for Waste Control Specialists, prepared by Cook-Joyce, Inc. and Intera, Inc., February 2004. (Includes main body of report, all tables, Figures 6.0-1 through 6.4-17 and Plates 6.2-2 and 6.2-3)

SEVERN TRENT STL

STL Denver
4955 Yarrow Street
Arvada, CO 80002

Tel: 303 736 0100 Fax: 303 431 7171
www.stl-inc.com

ANALYTICAL REPORT

URENCO Project

Lot #: D3J160213

Purchase Order 018511-0403003

John Shaw

Lockwood Greene
1500 International Drive
Spartanburg, SC 29304

STL DENVER

Gail DeRuzzo
Project Manager

November 19, 2003

Table Of Contents

Standard Deliverables

Report Contents	Total Number of Pages
Standard Deliverables *The Cover Letter and the Report Cover page are considered integral parts of this Standard Deliverable package. This report is incomplete unless all pages indicated in this Table of Contents are included.*	

- Table of Contents
- Case Narrative
- Executive Summary – Detection Highlights
- Methods Summary
- Method/Analyst Summary
- Lot Sample Summary
- Analytical Results
- QC Data Association Summary
- Chain-of-Custody

Case Narrative

Enclosed is the report for two samples received at STL's Denver laboratory on October 16, 2003. The results included in this report have been reviewed for compliance with STL Denver's Laboratory Quality Manual. The test results shown in this report meet all requirements of NELAC and any exceptions are noted below.

Dilution factors and footnotes have been provided to assist in the interpretation of the results. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interferences or analytes present at concentrations above the linear calibration curve, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

STL utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameters listed on the analytical methods summary page in accordance with the methods indicated. A summary of quality control parameters is provided below.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Quality Control Summary for Lot D3J160213

Sample Receiving

- The cooler temperatures upon receipt at the Denver laboratory were 2.7, 3.4, and 2.8° C.
- The Trip Blank was received but not listed on the chain of custody. It was logged for volatile organic analysis.
- Triplicate volume was received for sample LES MW2. After discussion with the client, matrix QC was selected for the sample for all parameters that apply.
- Total and Fecal Coliform were collected a day later than all other parameters in order to allow sufficient time to meet the holding time for these tests.
- All sample bottles were received in acceptable condition.

Holding Times

- All holding times were met.

Method Blanks

- The analytes Methylene chloride Method 8260B and Aluminum and Copper Method 6010B were detected in the Method Blanks below the established reporting limits. No corrective action is taken for any values in Method Blanks that are below the requested reporting limits. In addition the sample result for Aluminum is greater than ten times the method blank value.
- All other Method Blanks were within established control limits.

Laboratory Control Samples

- The Laboratory Control Sample recovery for Aroclor 1260 by Method 8082 was above the upper control limit. The associated sample result is still considered valid because no target analytes were detected by Method 8082.

- The Laboratory Control Sample (LCS) recoveries were below the lower control limits for Diazinon, Ethyl parathion, Malathion, Methyl parathion, and Phorate by Method 8141A. The relative percent differences for these analytes were also outside control limits. The surrogate recovery for Chlormefos in the LCS was also outside control limits. The LCSD recoveries were in control and the MS/MSD recoveries for sample LES MW2 and another sample in the QC batch were all in control. This suggests that the method was in control and that there may have been problems with the preparation of the LCS only.

- All other Laboratory Control Samples were within established control limits.

Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

- The Matrix Spike and Matrix Spike Duplicate recoveries were outside control limits for Fluoride Method 300.0A on sample LES MW2. Because the corresponding Laboratory Control Sample and the Method Blank sample were within control limits, these anomalies may be due to matrix interference.

- Due to the result concentration exceeding the calibration range the MS/MSD results for Sulfate on sample LES MW2 are estimated.

- All other MS and MSD samples were within established control limits.

Organics

- The Continuing Calibration Verification (CCV) standards for 4,4'-DDD, Endosulfan II, Hepatchlor, Endrin aldehyde, and Endrin by Method 8081A exceeded the percent difference limits. However, the overall mean percent difference is within control limits, therefore, the CCV is also in control and no corrective action was necessary.

- The Continuing Calibration Verification (CCV) standards for TEPT, Demeton-S, Dimethoate, Merphos, and Naled by Method 8141A exceeded the percent difference limits. However, the overall mean percent difference is within control limits, therefore, the CCV is also in control and no corrective action was necessary. Additionally, the associated sample was non-detect.

EXECUTIVE SUMMARY - Detection Highlights

D3J160213

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
L.E.S. MW2 10/14/03 16:20 001				
4,4'-DDD	0.22	0.050	ug/L	SW846 8081A
Aluminum	480 J	100	ug/L	SW846 6010B
Barium	21	10	ug/L	SW846 6010B
Boron	1600	100	ug/L	SW846 6010B
Chromium	43	10	ug/L	SW846 6010B
Copper	8.6 B,J	10	ug/L	SW846 6010B
Iron	510	100	ug/L	SW846 6010B
Manganese	1000	10	ug/L	SW846 6010B
Molybdenum	40	20	ug/L	SW846 6010B
Nickel	34 B	40	ug/L	SW846 6010B
Zinc	16 B	20	ug/L	SW846 6010B
Acetone	2.8 J	10	ug/L	SW846 8260B
Methylene chloride	0.39 J,B	5.0	ug/L	SW846 8260B
Specific Conductance	6800	2.0	umhos/cm	MCAWW 120.1
Total Dissolved Solids	2500 Q	20	mg/L	MCAWW 160.1
Total Suspended Solids	6.2	4.0	mg/L	MCAWW 160.2
Chloride	1600 Q	300	mg/L	MCAWW 300.0A
Sulfate	2200 Q	500	mg/L	MCAWW 300.0A
Chemical Oxygen Demand (COD)	12 B	20	mg/L	MCAWW 410.4
TRIP BLANK 10/15/03 003				
Acetone	4.1 J	10	ug/L	SW846 8260B
Methylene chloride	0.61 J,B	5.0	ug/L	SW846 8260B

METHODS SUMMARY

D3J160213

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Chemical Oxygen Demand	MCAWW 410.4	MCAWW 410.4
Chloride	MCAWW 300.0A	MCAWW 300.0A
F. Coliform (Enumeration)	SM18 9222D Feca	SM18 9222D
Filterable Residue (TDS)	MCAWW 160.1	MCAWW 160.1
Fluoride	MCAWW 300.0A	MCAWW 300.0A
Inductively Coupled Plasma (ICP) Metals	SW846 6010B	SW846 3010A
Mercury in Liquid Waste (Manual Cold-Vapor)	SW846 7470A	SW846 7470A
Nitrate as N	MCAWW 300.0A	MCAWW 300.0A
Nitrite as N	MCAWW 300.0A	MCAWW 300.0A
Non-Filterable Residue (TSS)	MCAWW 160.2	MCAWW 160.2
Organochlorine Pesticides	SW846 8081A	SW846 3510C
Organophosphorous Compounds by GC	SW846 8141A	SW846 3510
PCBs by SW-846 8082	SW846 8082	SW846 3510C
Semivolatile Organic Compounds by GC/MS	SW846 8270C	SW846 3520C
Specific Conductance	MCAWW 120.1	MCAWW 120.1
Sulfate	MCAWW 300.0A	MCAWW 300.0A
T. Coliform (Enemeration)	SM18 9222B	SM18 9222B
Total Cyanide	MCAWW 335.3	MCAWW 335.3
Volatile Organics by GC/MS	SW846 8260B	SW846 5030B/826

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SM18 "Standard Methods for the Examination of Water and Wastewater", 18th Edition, 1992.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

METHOD / ANALYST SUMMARY

D3J160213

ANALYTICAL METHOD	ANALYST	ANALYST ID
MCAWW 120.1	Nicole Dean	008504
MCAWW 160.1	Mark Angerhofer	005823
MCAWW 160.2	Claire Likar	004382
MCAWW 300.0A	Andrita Scofield	004409
MCAWW 335.3	Ewa Kudla	001167
MCAWW 410.4	Nicole Dean	008504
SM18 9222B	Claire Likar	004382
SM18 9222D Fecal	Claire Likar	004382
SW846 6010B	Kristen Roda	005692
SW846 6010B	Lynn-Anne Trudell	6645
SW846 7470A	Kacey Ono	003371
SW846 8081A	Sonya Dacar	011595
SW846 8082	Sonya Dacar	011595
SW846 8141A	Steve Szocik	002410
SW846 8260B	Greg Meier	006004
SW846 8270C	David Kidd	007536

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SM18 "Standard Methods for the Examination of Water and Wastewater", 18th Edition, 1992.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

D3J160213

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
F2NR9	001	L.E.S. MW2	10/14/03	16:20
F2NT3	002	L.E.S. MW2	10/15/03	17:40
F2NT6	003	TRIP BLANK	10/15/03	

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

LOCKWOOD GREENE

Client Sample ID: L.E.S. MW2

GC/MS Volatiles

Lot-Sample #...: D3J160213-001 Work Order #...: F2NR91A9 Matrix.....: WATER
Date Sampled...: 10/14/03 16:20 Date Received..: 10/16/03
Prep Date.....: 10/27/03 Analysis Date..: 10/27/03
Prep Batch #...: 3302592 Analysis Time..: 13:08
Dilution Factor: 1

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	2.8 J	10	ug/L	2.5
Benzene	ND	1.0	ug/L	0.17
Bromodichloromethane	ND	1.0	ug/L	0.20
Bromoform	ND	1.0	ug/L	0.23
Bromomethane	ND	2.0	ug/L	0.22
2-Butanone (MEK)	ND	5.0	ug/L	2.0
Carbon tetrachloride	ND	1.0	ug/L	0.20
Chlorobenzene	ND	1.0	ug/L	0.13
Chloroethane	ND	2.0	ug/L	0.18
Chloroform	ND	1.0	ug/L	0.17
Chloromethane	ND	2.0	ug/L	0.91
Dibromomethane	ND	1.0	ug/L	0.31
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	0.18
1,2-Dichlorobenzene	ND	1.0	ug/L	0.15
1,3-Dichlorobenzene	ND	1.0	ug/L	0.13
1,4-Dichlorobenzene	ND	1.0	ug/L	0.16
Dichlorodifluoromethane	ND	2.0	ug/L	0.22
1,1-Dichloroethane	ND	1.0	ug/L	0.22
1,2-Dichloroethane	ND	1.0	ug/L	0.26
1,1-Dichloroethene	ND	1.0	ug/L	0.23
1,2-Dichloroethene (total)	ND	1.0	ug/L	0.24
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.14
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.15
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.19
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.20
Ethylbenzene	ND	1.0	ug/L	0.12
2-Hexanone	ND	5.0	ug/L	1.7
Methylene chloride	0.39 J,B	5.0	ug/L	0.21
4-Methyl-2-pentanone	ND	5.0	ug/L	0.98
Styrene	ND	1.0	ug/L	0.14
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.21
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.21
Tetrachloroethene	ND	1.0	ug/L	0.26
Toluene	ND	1.0	ug/L	0.15
1,2,4-Trichlorobenzene	ND	1.0	ug/L	0.21

(Continued on next page)

LOCKWOOD GREENE

Client Sample ID: L.E.S. MW2

GC/MS Volatiles

Lot-Sample #...: D3J160213-001 Work Order #...: F2NR91A9 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,1-Trichloroethane	ND	1.0	ug/L	0.16
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.16
Trichlorofluoromethane	ND	2.0	ug/L	0.24
1,2,3-Trichloropropane	ND	1.0	ug/L	0.33
Vinyl chloride	ND	1.0	ug/L	0.19
Xylenes (total)	ND	2.0	ug/L	0.41
n-Butylbenzene	ND	1.0	ug/L	0.21
sec-Butylbenzene	ND	1.0	ug/L	0.23
Isopropylbenzene	ND	1.0	ug/L	0.17
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.15
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.16
n-Propylbenzene	ND	1.0	ug/L	0.17
tert-Butylbenzene	ND	1.0	ug/L	0.17
Dibromochloromethane	ND	1.0	ug/L	0.19
2-Chlorotoluene	ND	1.0	ug/L	0.17
4-Chlorotoluene	ND	1.0	ug/L	0.21
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	ug/L	0.47
1,3-Dichloropropane	ND	1.0	ug/L	0.22
2,2-Dichloropropane	ND	5.0	ug/L	0.18
1,1-Dichloropropene	ND	1.0	ug/L	0.19
Hexachlorobutadiene	ND	1.0	ug/L	0.18
4-Isopropyltoluene	ND	1.0	ug/L	0.20
Methyl tert-butyl ether	ND	5.0	ug/L	0.38
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.21
m-Xylene & p-Xylene	ND	2.0	ug/L	0.27
o-Xylene	ND	1.0	ug/L	0.15
Bromobenzene	ND	1.0	ug/L	0.17
Bromochloromethane	ND	1.0	ug/L	0.27
Naphthalene	ND	1.0	ug/L	0.50

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	78	(76 - 116)
1,2-Dichloroethane-d4	78	(59 - 129)
4-Bromofluorobenzene	96	(74 - 114)
Toluene-d8	94	(76 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

LOCKWOOD GREENE

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #...: D3J160213-003 Work Order #...: F2NT61AA Matrix.....: WATER
Date Sampled...: 10/15/03 Date Received..: 10/16/03
Prep Date.....: 10/27/03 Analysis Date..: 10/27/03
Prep Batch #...: 3302592 Analysis Time..: 14:23
Dilution Factor: 1

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	4.1 J	10	ug/L	2.5
Benzene	ND	1.0	ug/L	0.17
Bromodichloromethane	ND	1.0	ug/L	0.20
Bromoform	ND	1.0	ug/L	0.23
Bromomethane	ND	2.0	ug/L	0.22
2-Butanone (MEK)	ND	5.0	ug/L	2.0
Carbon tetrachloride	ND	1.0	ug/L	0.20
Chlorobenzene	ND	1.0	ug/L	0.13
Chloroethane	ND	2.0	ug/L	0.18
Chloroform	ND	1.0	ug/L	0.17
Chloromethane	ND	2.0	ug/L	0.91
Dibromomethane	ND	1.0	ug/L	0.31
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	0.18
1,2-Dichlorobenzene	ND	1.0	ug/L	0.15
1,3-Dichlorobenzene	ND	1.0	ug/L	0.13
1,4-Dichlorobenzene	ND	1.0	ug/L	0.16
Dichlorodifluoromethane	ND	2.0	ug/L	0.22
1,1-Dichloroethane	ND	1.0	ug/L	0.22
1,2-Dichloroethane	ND	1.0	ug/L	0.26
1,1-Dichloroethene	ND	1.0	ug/L	0.23
1,2-Dichloroethene (total)	ND	1.0	ug/L	0.24
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.14
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.15
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.19
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.20
Ethylbenzene	ND	1.0	ug/L	0.12
2-Hexanone	ND	5.0	ug/L	1.7
Methylene chloride	0.61 J,B	5.0	ug/L	0.21
4-Methyl-2-pentanone	ND	5.0	ug/L	0.98
Styrene	ND	1.0	ug/L	0.14
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.21
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.21
Tetrachloroethene	ND	1.0	ug/L	0.26
Toluene	ND	1.0	ug/L	0.15
1,2,4-Trichlorobenzene	ND	1.0	ug/L	0.21

(Continued on next page)

LOCKWOOD GREENE

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #...: D3J160213-003 Work Order #...: F2NT61AA Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,1-Trichloroethane	ND	1.0	ug/L	0.16
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.16
Trichlorofluoromethane	ND	2.0	ug/L	0.24
1,2,3-Trichloropropane	ND	1.0	ug/L	0.33
Vinyl chloride	ND	1.0	ug/L	0.19
Xylenes (total)	ND	2.0	ug/L	0.41
n-Butylbenzene	ND	1.0	ug/L	0.21
sec-Butylbenzene	ND	1.0	ug/L	0.23
Isopropylbenzene	ND	1.0	ug/L	0.17
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.15
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.16
n-Propylbenzene	ND	1.0	ug/L	0.17
tert-Butylbenzene	ND	1.0	ug/L	0.17
Dibromochloromethane	ND	1.0	ug/L	0.19
2-Chlorotoluene	ND	1.0	ug/L	0.17
4-Chlorotoluene	ND	1.0	ug/L	0.21
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	ug/L	0.47
1,3-Dichloropropane	ND	1.0	ug/L	0.22
2,2-Dichloropropane	ND	5.0	ug/L	0.18
1,1-Dichloropropene	ND	1.0	ug/L	0.19
Hexachlorobutadiene	ND	1.0	ug/L	0.18
4-Isopropyltoluene	ND	1.0	ug/L	0.20
Methyl tert-butyl ether	ND	5.0	ug/L	0.38
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.21
m-Xylene & p-Xylene	ND	2.0	ug/L	0.27
o-Xylene	ND	1.0	ug/L	0.15
Bromobenzene	ND	1.0	ug/L	0.17
Bromochloromethane	ND	1.0	ug/L	0.27
Naphthalene	ND	1.0	ug/L	0.50

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	93	(76 - 116)
1,2-Dichloroethane-d4	103	(59 - 129)
4-Bromofluorobenzene	97	(74 - 114)
Toluene-d8	90	(76 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

LOCKWOOD GREENE

Client Sample ID: L.E.S. MW2

GC/MS Semivolatiles

Lot-Sample #...: D3J160213-001 Work Order #...: F2NR91CA Matrix.....: WATER
Date Sampled...: 10/14/03 16:20 Date Received..: 10/16/03
Prep Date.....: 10/20/03 Analysis Date..: 11/15/03
Prep Batch #...: 3293438 Analysis Time..: 19:41
Dilution Factor: 1

Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug/L	0.60
Acenaphthylene	ND	10	ug/L	0.60
Acetophenone	ND	10	ug/L	2.0
2-Acetylaminofluorene	ND	100	ug/L	1.0
4-Aminobiphenyl	ND	50	ug/L	1.0
Aniline	ND	10	ug/L	4.0
Anthracene	ND	10	ug/L	3.0
Aramite	ND	20	ug/L	2.0
Benzo(a)anthracene	ND	10	ug/L	0.80
Benzo(b)fluoranthene	ND	10	ug/L	0.90
Benzo(k)fluoranthene	ND	10	ug/L	2.0
Benzo(ghi)perylene	ND	10	ug/L	1.0
Benzo(a)pyrene	ND	10	ug/L	0.80
Benzyl alcohol	ND	10	ug/L	1.0
bis(2-Chloroethoxy) methane	ND	10	ug/L	0.90
bis(2-Chloroethyl)-ether	ND	10	ug/L	3.0
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	0.90
4-Bromophenyl phenyl ether	ND	10	ug/L	0.70
Butyl benzyl phthalate	ND	10	ug/L	1.0
4-Chloroaniline	ND	10	ug/L	3.0
Chlorobenzilate	ND	10	ug/L	1.0
4-Chloro-3-methylphenol	ND	10	ug/L	0.80
2-Chloronaphthalene	ND	10	ug/L	0.70
2-Chlorophenol	ND	10	ug/L	0.80
4-Chlorophenyl phenyl ether	ND	10	ug/L	0.60
Chrysene	ND	10	ug/L	0.80
Diallate	ND	20	ug/L	2.0
Dibenz(a,h)anthracene	ND	10	ug/L	0.90
Dibenzofuran	ND	10	ug/L	0.60
Di-n-butyl phthalate	ND	10	ug/L	0.80
1,2-Dichlorobenzene	ND	10	ug/L	0.80
1,3-Dichlorobenzene	ND	10	ug/L	0.80
1,4-Dichlorobenzene	ND	10	ug/L	1.0

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LOCKWOOD GREENE

Client Sample ID: L.E.S. MW2

GC/MS Semivolatiles

Lot-Sample #...: D3J160213-001 Work Order #...: F2NR91CA Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
3,3'-Dichlorobenzidine	ND	50	ug/L	8.0
2,4-Dichlorophenol	ND	10	ug/L	0.70
2,6-Dichlorophenol	ND	10	ug/L	1.0
Diethyl phthalate	ND	10	ug/L	0.70
Dimethoate	ND	20	ug/L	2.0
7,12-Dimethylbenz(a)-anthracene	ND	20	ug/L	2.0
3,3'-Dimethylbenzidine	ND	20	ug/L	10
2,4-Dimethylphenol	ND	10	ug/L	4.0
Dimethyl phthalate	ND	10	ug/L	0.80
1,3-Dinitrobenzene	ND	10	ug/L	2.0
4,6-Dinitro-2-methylphenol	ND	50	ug/L	6.0
2,4-Dinitrophenol	ND	50	ug/L	6.0
2,4-Dinitrotoluene	ND	10	ug/L	1.0
2,6-Dinitrotoluene	ND	10	ug/L	0.80
Di-n-octyl phthalate	ND	10	ug/L	1.0
Diphenylamine	ND	10	ug/L	1.0
Disulfoton	ND	50	ug/L	6.0
Ethyl methanesulfonate	ND	10	ug/L	2.0
Fluoranthene	ND	10	ug/L	0.70
Fluorene	ND	10	ug/L	0.60
Hexachlorobenzene	ND	10	ug/L	0.80
Hexachlorobutadiene	ND	10	ug/L	1.0
Hexachlorocyclopentadiene	ND	50	ug/L	5.0
Hexachloroethane	ND	10	ug/L	0.80
Hexachloropropene	ND	100	ug/L	1.0
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.80
Isodrin	ND	10	ug/L	3.0
Isophorone	ND	10	ug/L	0.90
Isosafrole	ND	20	ug/L	2.0
Methapyrilene	ND	50	ug/L	30
3-Methylcholanthrene	ND	20	ug/L	3.0
Methyl methanesulfonate	ND	10	ug/L	2.0
2-Methylnaphthalene	ND	10	ug/L	0.80
Methyl parathion	ND	50	ug/L	2.0
2-Methylphenol	ND	10	ug/L	0.90
3-Methylphenol & 4-Methylphenol	ND	10	ug/L	0.80
Naphthalene	ND	10	ug/L	0.80
1,4-Naphthoquinone	ND	50	ug/L	2.0
1-Naphthylamine	ND	10	ug/L	2.0

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LOCKWOOD GREENE

Client Sample ID: L.E.S. MW2

GC/MS Semivolatiles

Lot-Sample #...: D3J160213-001 Work Order #...: F2NR91CA Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2-Naphthylamine	ND	10	ug/L	1.0
2-Nitroaniline	ND	50	ug/L	0.90
3-Nitroaniline	ND	50	ug/L	0.90
4-Nitroaniline	ND	50	ug/L	6.0
Nitrobenzene	ND	10	ug/L	2.0
2-Nitrophenol	ND	10	ug/L	0.80
4-Nitrophenol	ND	50	ug/L	7.0
4-Nitroquinoline-1-oxide	ND	100	ug/L	50
N-Nitrosodi-n-butylamine	ND	10	ug/L	2.0
N-Nitrosodiethylamine	ND	10	ug/L	2.0
N-Nitrosodimethylamine	ND	10	ug/L	0.80
N-Nitrosodiphenylamine	ND	10	ug/L	1.0
N-Nitrosodi-n-propylamine	ND	10	ug/L	0.70
N-Nitrosomethylethylamine	ND	10	ug/L	2.0
N-Nitrosomorpholine	ND	10	ug/L	2.0
N-Nitrosopiperidine	ND	10	ug/L	2.0
N-Nitrosopyrrolidine	ND	10	ug/L	2.0
5-Nitro-o-toluidine	ND	20	ug/L	1.0
Parathion	ND	50	ug/L	2.0
Pentachlorobenzene	ND	10	ug/L	2.0
Pentachloroethane	ND	50	ug/L	2.0
Pentachloronitrobenzene	ND	50	ug/L	2.0
Pentachlorophenol	ND	50	ug/L	5.0
Phenacetin	ND	20	ug/L	1.0
Phenanthrene	ND	10	ug/L	0.70
Phenol	ND	10	ug/L	0.90
Phorate	ND	50	ug/L	1.0
2-Picoline	ND	20	ug/L	1.0
Pronamide	ND	20	ug/L	1.0
Pyrene	ND	10	ug/L	0.80
Pyridine	ND	20	ug/L	10
1,2,4,5-Tetrachlorobenzene	ND	10	ug/L	2.0
2,3,4,6-Tetrachlorophenol	ND	50	ug/L	5.0
Thionazin	ND	10	ug/L	2.0
o-Toluidine	ND	10	ug/L	2.0
1,2,4-Trichlorobenzene	ND	10	ug/L	0.90
2,4,5-Trichlorophenol	ND	10	ug/L	1.0
2,4,6-Trichlorophenol	ND	10	ug/L	0.80

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LOCKWOOD GREENE

Client Sample ID: L.E.S. MW2

GC/MS Semivolatiles

Lot-Sample #...: D3J160213-001 Work Order #...: F2NR91CA Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
O,O,O-Triethylphosphorothioate	ND	50	ug/L	2.0
1,3,5-Trinitrobenzene	ND	50	ug/L	2.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	66	(32 - 116)
Phenol-d5	75	(40 - 111)
Nitrobenzene-d5	84	(53 - 107)
2-Fluorobiphenyl	64	(31 - 105)
2,4,6-Tribromophenol	97	(42 - 122)
Terphenyl-d14	86	(21 - 125)

LOCKWOOD GREENE

Client Sample ID: L.E.S. MW2

GC Semivolatiles

Lot-Sample #...: D3J160213-001 Work Order #...: F2NR91CD Matrix.....: WATER
Date Sampled...: 10/14/03 16:20 Date Received..: 10/16/03
Prep Date.....: 10/20/03 Analysis Date..: 10/28/03
Prep Batch #...: 3293260 Analysis Time..: 16:54
Dilution Factor: 1

Method.....: SW846 8081A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aldrin	ND	0.050	ug/L	0.0070
alpha-BHC	ND	0.050	ug/L	0.010
beta-BHC	ND	0.050	ug/L	0.010
delta-BHC	ND	0.050	ug/L	0.010
gamma-BHC (Lindane)	ND	0.050	ug/L	0.0080
Chlordane (technical)	ND	0.50	ug/L	0.060
4,4'-DDD	**0.22**	**0.050**	**ug/L**	**0.010**
4,4'-DDE	ND	0.050	ug/L	0.010
4,4'-DDT	ND	0.050	ug/L	0.010
Dieldrin	ND	0.050	ug/L	0.0090
Endrin	ND	0.050	ug/L	0.020
Endrin aldehyde	ND	0.050	ug/L	0.010
Endosulfan I	ND	0.050	ug/L	0.020
Endosulfan II	ND	0.050	ug/L	0.010
Endosulfan sulfate	ND	0.050	ug/L	0.010
Heptachlor	ND	0.050	ug/L	0.010
Heptachlor epoxide	ND	0.050	ug/L	0.010
Methoxychlor	ND	0.10	ug/L	0.020
Toxaphene	ND	5.0	ug/L	0.50

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	100	(29 - 125)
Tetrachloro-m-xylene	97	(40 - 115)

LOCKWOOD GREENE

Client Sample ID: L.E.S. MW2

GC Semivolatiles

Lot-Sample #...: D3J160213-001 Work Order #...: F2NR91CC Matrix.....: WATER
Date Sampled...: 10/14/03 16:20 Date Received..: 10/16/03
Prep Date.....: 10/20/03 Analysis Date..: 10/28/03
Prep Batch #...: 3293236 Analysis Time..: 22:13
Dilution Factor: 1

Method.....: SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	1.0	ug/L	0.15
Aroclor 1221	ND	1.0	ug/L	0.25
Aroclor 1232	ND	1.0	ug/L	0.14
Aroclor 1242	ND	1.0	ug/L	0.14
Aroclor 1248	ND	1.0	ug/L	0.15
Aroclor 1254	ND	1.0	ug/L	0.22
Aroclor 1260	ND	1.0	ug/L	0.16

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	98	(52 - 160)
Decachlorobiphenyl	114	(37 - 144)

LOCKWOOD GREENE

Client Sample ID: L.E.S. MW2

GC Semivolatiles

Lot-Sample #...: D3J160213-001 Work Order #...: F2NR91CE Matrix.....: WATER
Date Sampled...: 10/14/03 16:20 Date Received..: 10/16/03
Prep Date.....: 10/21/03 Analysis Date..: 11/05/03
Prep Batch #...: 3294207 Analysis Time..: 13:36
Dilution Factor: 1

Method.....: SW846 8141A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Azinphos-methyl	ND	2.5	ug/L	0.14
Bolstar	ND	0.50	ug/L	0.14
Chlorpyrifos	ND	0.50	ug/L	0.054
Coumaphos	ND	0.50	ug/L	0.079
Demeton (total)	ND	1.0	ug/L	0.19
Diazinon	ND	0.50	ug/L	0.039
Dichlorvos	ND	0.50	ug/L	0.13
Dimethoate	ND	0.50	ug/L	0.18
Disulfoton	ND	0.50	ug/L	0.057
Ethoprop	ND	0.50	ug/L	0.056
Ethyl parathion	ND	0.50	ug/L	0.040
Famphur	ND	1.0	ug/L	0.054
Fensulfothion	ND	2.5	ug/L	0.22
Fenthion	ND	0.50	ug/L	0.061
Malathion	ND	1.2	ug/L	0.050
Merphos	ND	5.0	ug/L	0.063
Methyl parathion	ND	0.50	ug/L	0.061
Mevinphos	ND	6.2	ug/L	0.16
Naled	ND	10	ug/L	0.22
O,O,O-Triethylphosphorothioate	ND	0.50	ug/L	0.15
Phorate	ND	0.50	ug/L	0.075
Ronnel	ND	10	ug/L	0.11
Sulfotepp	ND	0.50	ug/L	0.030
Thionazin	ND	0.50	ug/L	0.059
Tokuthion	ND	0.50	ug/L	0.071
Trichloronate	ND	0.50	ug/L	0.057
EPN	ND	0.50	ug/L	0.050
Demeton-O	ND	1.0	ug/L	0.19
Demeton-S	ND	1.0	ug/L	0.19
Tetrachlorvinphos (Stirophos)	ND	2.5	ug/L	0.056

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Chlormefos	77	(49 - 105)
Ethyl Pirimifos	68	(20 - 121)

LOCKWOOD GREENE

Client Sample ID: L.E.S. MW2

TOTAL Metals

Lot-Sample #...: D3J160213-001 Matrix.....: WATER
Date Sampled...: 10/14/03 16:20 Date Received..: 10/16/03

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 3290479						
Mercury	ND	0.20	ug/L	SW846 7470A	10/22-10/23/03	F2NR91A8
		Dilution Factor: 1		Analysis Time..: 13:27	MDL.....: 0.054	
Prep Batch #...: 3291152						
Silver	ND	10	ug/L	SW846 6010B	10/23-10/25/03	F2NR91AL
		Dilution Factor: 1		Analysis Time..: 18:21	MDL.....: 0.70	
Aluminum	480 J	100	ug/L	SW846 6010B	10/23-10/24/03	F2NR91AM
		Dilution Factor: 1		Analysis Time..: 18:20	MDL.....: 20	
Arsenic	ND	15	ug/L	SW846 6010B	10/23-10/25/03	F2NR91AN
		Dilution Factor: 1		Analysis Time..: 18:21	MDL.....: 4.9	
Barium	21	10	ug/L	SW846 6010B	10/23-10/25/03	F2NR91AP
		Dilution Factor: 1		Analysis Time..: 18:21	MDL.....: 0.37	
Beryllium	ND	5.0	ug/L	SW846 6010B	10/23-10/25/03	F2NR91AQ
		Dilution Factor: 1		Analysis Time..: 18:21	MDL.....: 0.41	
Boron	1600	100	ug/L	SW846 6010B	10/23-10/24/03	F2NR91AR
		Dilution Factor: 1		Analysis Time..: 18:20	MDL.....: 8.3	
Cadmium	ND	5.0	ug/L	SW846 6010B	10/23-10/25/03	F2NR91AT
		Dilution Factor: 1		Analysis Time..: 18:21	MDL.....: 0.27	
Cobalt	ND	10	ug/L	SW846 6010B	10/23-10/25/03	F2NR91AU
		Dilution Factor: 1		Analysis Time..: 18:21	MDL.....: 0.67	
Chromium	43	10	ug/L	SW846 6010B	10/23-10/25/03	F2NR91AV
		Dilution Factor: 1		Analysis Time..: 18:21	MDL.....: 2.1	
Copper	8.6 B,J	10	ug/L	SW846 6010B	10/23-10/25/03	F2NR91AW
		Dilution Factor: 1		Analysis Time..: 18:21	MDL.....: 0.97	
Iron	510	100	ug/L	SW846 6010B	10/23-10/24/03	F2NR91AX
		Dilution Factor: 1		Analysis Time..: 18:20	MDL.....: 19	
Manganese	1000	10	ug/L	SW846 6010B	10/23-10/25/03	F2NR91A0
		Dilution Factor: 1		Analysis Time..: 18:21	MDL.....: 0.54	

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LOCKWOOD GREENE

Client Sample ID: L.E.S. MW2

TOTAL Metals

Lot-Sample #...: D3J160213-001 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Molybdenum	40	20	ug/L	SW846 6010B	10/23-10/25/03	F2NR91A1
		Dilution Factor: 1		Analysis Time..: 18:21	MDL.....: 2.3	
Nickel	34 B	40	ug/L	SW846 6010B	10/23-10/25/03	F2NR91A2
		Dilution Factor: 1		Analysis Time..: 18:21	MDL.....: 4.2	
Lead	ND	3.0	ug/L	SW846 6010B	10/23-10/25/03	F2NR91A3
		Dilution Factor: 1		Analysis Time..: 18:21	MDL.....: 2.1	
Antimony	ND	10	ug/L	SW846 6010B	10/23-10/25/03	F2NR91A4
		Dilution Factor: 1		Analysis Time..: 18:21	MDL.....: 3.6	
Selenium	ND	15	ug/L	SW846 6010B	10/23-10/25/03	F2NR91A5
		Dilution Factor: 1		Analysis Time..: 18:21	MDL.....: 4.6	
Thallium	ND	10	ug/L	SW846 6010B	10/23-10/25/03	F2NR91A6
		Dilution Factor: 1		Analysis Time..: 18:21	MDL.....: 8.1	
Zinc	16 B	20	ug/L	SW846 6010B	10/23-10/25/03	F2NR91A7
		Dilution Factor: 1		Analysis Time..: 18:21	MDL.....: 7.1	

NOTE(S):

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

LOCKWOOD GREENE

Client Sample ID: L.E.S. MW2

General Chemistry

Lot-Sample #...: D3J160213-001 Work Order #...: F2NR9 Matrix.....: WATER
Date Sampled...: 10/14/03 16:20 Date Received..: 10/16/03

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chemical Oxygen Demand (COD)	12 B	20	mg/L	MCAWW 410.4	10/21/03	3296361
		Dilution Factor: 1		Analysis Time..: 16:45	MDL.....: 2.9	
Chloride	1600 Q	300	mg/L	MCAWW 300.0A	10/16/03	3290566
		Dilution Factor: 100		Analysis Time..: 17:55	MDL.....: 20	
Fluoride	ND G	5.0	mg/L	MCAWW 300.0A	10/16/03	3290569
		Dilution Factor: 5		Analysis Time..: 16:29	MDL.....: 0.50	
Nitrate	ND G	2.5	mg/L	MCAWW 300.0A	10/16/03	3290567
		Dilution Factor: 5		Analysis Time..: 16:29	MDL.....: 0.25	
Nitrite	ND G	10	mg/L	MCAWW 300.0A	10/16/03	3290570
		Dilution Factor: 20		Analysis Time..: 17:01	MDL.....: 1.0	
Specific Conductance	6800	2.0	umhos/cm	MCAWW 120.1	10/17/03	3293257
		Dilution Factor: 1		Analysis Time..: 16:00	MDL.....:	
Sulfate	2200 Q	500	mg/L	MCAWW 300.0A	10/16/03	3290568
		Dilution Factor: 100		Analysis Time..: 17:55	MDL.....: 20	
Total Cyanide	ND	0.010	mg/L	MCAWW 335.3	10/22-10/23/03	3296416
		Dilution Factor: 1		Analysis Time..: 13:00	MDL.....: 0.0039	
Total Dissolved Solids	2500 Q	20	mg/L	MCAWW 160.1	10/20/03	3303251
		Dilution Factor: 2		Analysis Time..: 17:00	MDL.....: 6.0	
Total Suspended Solids	6.2	4.0	mg/L	MCAWW 160.2	10/20/03	3294676
		Dilution Factor: 1		Analysis Time..: 20:45	MDL.....: 0.87	

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

LOCKWOOD GREENE

Client Sample ID: L.E.S. MW2

General Chemistry

Lot-Sample #...: D3J160213-002 Work Order #...: F2NT3 Matrix.....: WATER
Date Sampled...: 10/15/03 17:40 Date Received..: 10/16/03

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Fecal Coliform	ND	1.0	CFU/100m	SM18 9222D Fecal	10/16/03	3301603
		Dilution Factor: 1		Analysis Time..: 14:30	MDL.....:	
Total Coliform	ND	1.0	CFU/100m	SM18 9222B	10/16/03	3301601
		Dilution Factor: 1		Analysis Time..: 15:00	MDL.....:	

QC DATA ASSOCIATION SUMMARY

D3J160213

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WATER	MCAWW 120.1		3293257	3293166
	WATER	MCAWW 160.1		3303251	3304079
	WATER	MCAWW 160.2		3294676	3294343
	WATER	MCAWW 300.0A		3290566	3300278
	WATER	MCAWW 300.0A		3290568	3300288
	WATER	MCAWW 300.0A		3290569	3300275
	WATER	MCAWW 300.0A		3290567	3300283
	WATER	MCAWW 300.0A		3290570	3300282
	WATER	SW846 7470A		3290479	3290257
	WATER	SW846 8141A		3294207	3294054
	WATER	SW846 8082		3293236	3293106
	WATER	SW846 8081A		3293260	3293130
	WATER	SW846 8260B		3302592	3304292
	WATER	SW846 8270C		3293438	3293249
	WATER	SW846 6010B		3291152	3291050
	WATER	MCAWW 335.3		3296416	3296234
	WATER	MCAWW 410.4		3296361	3296259
002	WATER	SM18 9222D Fecal		3301603	3301311
	WATER	SM18 9222B		3301601	3301310
003	WATER	SW846 8260B		3302592	3304292

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: D3J160213
MB Lot-Sample #: D3J290000-592

Work Order #...: F3PE71AA

Matrix.....: WATER

Prep Date.....: 10/27/03

Analysis Time..: 12:43

Analysis Date..: 10/27/03

Prep Batch #...: 3302592

Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	10	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
2-Butanone (MEK)	ND	5.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	2.0	ug/L	SW846 8260B
Dibromomethane	ND	1.0	ug/L	SW846 8260B
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
Dichlorodifluoromethane	ND	2.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethene (total)	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	5.0	ug/L	SW846 8260B
Methylene chloride	0.65 J	5.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,2,4-Trichloro-benzene	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: D3J160213 Work Order #...: F3PE71AA Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Trichlorofluoromethane	ND	2.0	ug/L	SW846 8260B
1,2,3-Trichloropropane	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	2.0	ug/L	SW846 8260B
n-Butylbenzene	ND	1.0	ug/L	SW846 8260B
sec-Butylbenzene	ND	1.0	ug/L	SW846 8260B
Isopropylbenzene	ND	1.0	ug/L	SW846 8260B
1,2,4-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
1,3,5-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
n-Propylbenzene	ND	1.0	ug/L	SW846 8260B
tert-Butylbenzene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
2-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
4-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	ug/L	SW846 8260B
1,3-Dichloropropane	ND	1.0	ug/L	SW846 8260B
2,2-Dichloropropane	ND	5.0	ug/L	SW846 8260B
1,1-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Hexachlorobutadiene	ND	1.0	ug/L	SW846 8260B
4-Isopropyltoluene	ND	1.0	ug/L	SW846 8260B
Methyl tert-butyl ether	ND	5.0	ug/L	SW846 8260B
1,2,3-Trichlorobenzene	ND	1.0	ug/L	SW846 8260B
m-Xylene & p-Xylene	ND	2.0	ug/L	SW846 8260B
o-Xylene	ND	1.0	ug/L	SW846 8260B
Bromobenzene	ND	1.0	ug/L	SW846 8260B
Bromochloromethane	ND	1.0	ug/L	SW846 8260B
Naphthalene	ND	1.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	90	(76 - 116)
1,2-Dichloroethane-d4	99	(59 - 129)
4-Bromofluorobenzene	98	(74 - 114)
Toluene-d8	88	(76 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: D3J160213 Work Order #...: F3PE71AC Matrix.....: WATER
LCS Lot-Sample#: D3J290000-592
Prep Date.....: 10/27/03 Analysis Date..: 10/27/03
Prep Batch #...: 3302592 Analysis Time..: 12:18
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Benzene	85	(75 - 116)	SW846 8260B
Chlorobenzene	88	(77 - 117)	SW846 8260B
1,1-Dichloroethene	90	(67 - 125)	SW846 8260B
Toluene	85	(74 - 115)	SW846 8260B
Trichloroethene	92	(80 - 123)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	90	(76 - 116)
1,2-Dichloroethane-d4	98	(59 - 129)
4-Bromofluorobenzene	101	(74 - 114)
Toluene-d8	92	(76 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: D3J160213 Work Order #...: F3PE71AC Matrix.....: WATER
LCS Lot-Sample#: D3J290000-592
Prep Date.....: 10/27/03 Analysis Date..: 10/27/03
Prep Batch #...: 3302592 Analysis Time..: 12:18
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Benzene	10.0	8.53	ug/L	85	SW846 8260B
Chlorobenzene	10.0	8.77	ug/L	88	SW846 8260B
1,1-Dichloroethene	10.0	8.96	ug/L	90	SW846 8260B
Toluene	10.0	8.46	ug/L	85	SW846 8260B
Trichloroethene	10.0	9.20	ug/L	92	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	90	(76 - 116)
1,2-Dichloroethane-d4	98	(59 - 129)
4-Bromofluorobenzene	101	(74 - 114)
Toluene-d8	92	(76 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: D3J160213 Work Order #...: F2NR91C4-MS Matrix.....: WATER
MS Lot-Sample #: D3J160213-001 F2NR91C5-MSD
Date Sampled...: 10/14/03 16:20 Date Received..: 10/16/03
Prep Date.....: 10/27/03 Analysis Date..: 10/27/03
Prep Batch #...: 3302592 Analysis Time..: 13:33
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	85	(75 - 116)			SW846 8260B
	87	(75 - 116)	2.5	(0-20)	SW846 8260B
Chlorobenzene	87	(77 - 117)			SW846 8260B
	89	(77 - 117)	3.0	(0-20)	SW846 8260B
1,1-Dichloroethene	93	(67 - 125)			SW846 8260B
	94	(67 - 125)	1.0	(0-20)	SW846 8260B
Toluene	83	(74 - 115)			SW846 8260B
	86	(74 - 115)	4.2	(0-20)	SW846 8260B
Trichloroethene	93	(80 - 123)			SW846 8260B
	97	(80 - 123)	4.0	(0-20)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	90	(76 - 116)
	91	(76 - 116)
1,2-Dichloroethane-d4	94	(59 - 129)
	103	(59 - 129)
4-Bromofluorobenzene	99	(74 - 114)
	102	(74 - 114)
Toluene-d8	92	(76 - 116)
	89	(76 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: D3J160213 Work Order #...: F2NR91C4-MS Matrix.....: WATER
MS Lot-Sample #: D3J160213-001 F2NR91C5-MSD
Date Sampled...: 10/14/03 16:20 Date Received..: 10/16/03
Prep Date.....: 10/27/03 Analysis Date..: 10/27/03
Prep Batch #...: 3302592 Analysis Time..: 13:33
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Benzene	ND	10.0	8.51	ug/L	85		SW846 8260B
	ND	10.0	8.73	ug/L	87	2.5	SW846 8260B
Chlorobenzene	ND	10.0	8.68	ug/L	87		SW846 8260B
	ND	10.0	8.94	ug/L	89	3.0	SW846 8260B
1,1-Dichloroethene	ND	10.0	9.28	ug/L	93		SW846 8260B
	ND	10.0	9.38	ug/L	94	1.0	SW846 8260B
Toluene	ND	10.0	8.26	ug/L	83		SW846 8260B
	ND	10.0	8.61	ug/L	86	4.2	SW846 8260B
Trichloroethene	ND	10.0	9.29	ug/L	93		SW846 8260B
	ND	10.0	9.67	ug/L	97	4.0	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	90	(76 - 116)
	91	(76 - 116)
1,2-Dichloroethane-d4	94	(59 - 129)
	103	(59 - 129)
4-Bromofluorobenzene	99	(74 - 114)
	102	(74 - 114)
Toluene-d8	92	(76 - 116)
	89	(76 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: D3J160213 Work Order #...: F201F1AA Matrix.....: WATER
MB Lot-Sample #: D3J200000-438

Prep Date.....: 10/20/03 Analysis Time..: 11:24
Analysis Date..: 11/15/03 Prep Batch #...: 3293438
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acenaphthene	ND	10	ug/L	SW846 8270C
Acenaphthylene	ND	10	ug/L	SW846 8270C
Acetophenone	ND	10	ug/L	SW846 8270C
2-Acetylaminofluorene	ND	100	ug/L	SW846 8270C
4-Aminobiphenyl	ND	50	ug/L	SW846 8270C
Aniline	ND	10	ug/L	SW846 8270C
Anthracene	ND	10	ug/L	SW846 8270C
Aramite	ND	20	ug/L	SW846 8270C
Benzo(a)anthracene	ND	10	ug/L	SW846 8270C
Benzo(b)fluoranthene	ND	10	ug/L	SW846 8270C
Benzo(k)fluoranthene	ND	10	ug/L	SW846 8270C
Benzo(ghi)perylene	ND	10	ug/L	SW846 8270C
Benzo(a)pyrene	ND	10	ug/L	SW846 8270C
Benzyl alcohol	ND	10	ug/L	SW846 8270C
bis(2-Chloroethoxy) methane	ND	10	ug/L	SW846 8270C
bis(2-Chloroethyl)-ether	ND	10	ug/L	SW846 8270C
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	SW846 8270C
4-Bromophenyl phenyl ether	ND	10	ug/L	SW846 8270C
Butyl benzyl phthalate	ND	10	ug/L	SW846 8270C
4-Chloroaniline	ND	10	ug/L	SW846 8270C
Chlorobenzilate	ND	10	ug/L	SW846 8270C
4-Chloro-3-methylphenol	ND	10	ug/L	SW846 8270C
2-Chloronaphthalene	ND	10	ug/L	SW846 8270C
2-Chlorophenol	ND	10	ug/L	SW846 8270C
4-Chlorophenyl phenyl ether	ND	10	ug/L	SW846 8270C
Chrysene	ND	10	ug/L	SW846 8270C
Diallate	ND	20	ug/L	SW846 8270C
Dibenz(a,h)anthracene	ND	10	ug/L	SW846 8270C
Dibenzofuran	ND	10	ug/L	SW846 8270C
Di-n-butyl phthalate	ND	10	ug/L	SW846 8270C
1,2-Dichlorobenzene	ND	10	ug/L	SW846 8270C
1,3-Dichlorobenzene	ND	10	ug/L	SW846 8270C
1,4-Dichlorobenzene	ND	10	ug/L	SW846 8270C
3,3'-Dichlorobenzidine	ND	50	ug/L	SW846 8270C
2,4-Dichlorophenol	ND	10	ug/L	SW846 8270C
2,6-Dichlorophenol	ND	10	ug/L	SW846 8270C

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: D3J160213 Work Order #...: F201F1AA Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Diethyl phthalate	ND	10	ug/L	SW846 8270C
Dimethoate	ND	20	ug/L	SW846 8270C
7,12-Dimethylbenz(a)-anthracene	ND	20	ug/L	SW846 8270C
3,3'-Dimethylbenzidine	ND	20	ug/L	SW846 8270C
2,4-Dimethylphenol	ND	10	ug/L	SW846 8270C
Dimethyl phthalate	ND	10	ug/L	SW846 8270C
1,3-Dinitrobenzene	ND	10	ug/L	SW846 8270C
4,6-Dinitro-2-methylphenol	ND	50	ug/L	SW846 8270C
2,4-Dinitrophenol	ND	50	ug/L	SW846 8270C
2,4-Dinitrotoluene	ND	10	ug/L	SW846 8270C
2,6-Dinitrotoluene	ND	10	ug/L	SW846 8270C
Di-n-octyl phthalate	ND	10	ug/L	SW846 8270C
Diphenylamine	ND	10	ug/L	SW846 8270C
Disulfoton	ND	50	ug/L	SW846 8270C
Ethyl methanesulfonate	ND	10	ug/L	SW846 8270C
Fluoranthene	ND	10	ug/L	SW846 8270C
Fluorene	ND	10	ug/L	SW846 8270C
Hexachlorobenzene	ND	10	ug/L	SW846 8270C
Hexachlorobutadiene	ND	10	ug/L	SW846 8270C
Hexachlorocyclopenta-diene	ND	50	ug/L	SW846 8270C
Hexachloroethane	ND	10	ug/L	SW846 8270C
Hexachloropropene	ND	100	ug/L	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	SW846 8270C
Isodrin	ND	10	ug/L	SW846 8270C
Isophorone	ND	10	ug/L	SW846 8270C
Isosafrole	ND	20	ug/L	SW846 8270C
Methapyrilene	ND	50	ug/L	SW846 8270C
3-Methylcholanthrene	ND	20	ug/L	SW846 8270C
Methyl methanesulfonate	ND	10	ug/L	SW846 8270C
2-Methylnaphthalene	ND	10	ug/L	SW846 8270C
Methyl parathion	ND	50	ug/L	SW846 8270C
2-Methylphenol	ND	10	ug/L	SW846 8270C
3-Methylphenol & 4-Methylphenol	ND	10	ug/L	SW846 8270C
Naphthalene	ND	10	ug/L	SW846 8270C
1,4-Naphthoquinone	ND	50	ug/L	SW846 8270C
1-Naphthylamine	ND	10	ug/L	SW846 8270C
2-Naphthylamine	ND	10	ug/L	SW846 8270C
2-Nitroaniline	ND	50	ug/L	SW846 8270C
3-Nitroaniline	ND	50	ug/L	SW846 8270C
4-Nitroaniline	ND	50	ug/L	SW846 8270C
Nitrobenzene	ND	10	ug/L	SW846 8270C

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: D3J160213 Work Order #...: F201F1AA Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
2-Nitrophenol	ND	10	ug/L	SW846 8270C
4-Nitrophenol	ND	50	ug/L	SW846 8270C
4-Nitroquinoline-1-oxide	ND	100	ug/L	SW846 8270C
N-Nitrosodi-n-butylamine	ND	10	ug/L	SW846 8270C
N-Nitrosodiethylamine	ND	10	ug/L	SW846 8270C
N-Nitrosodimethylamine	ND	10	ug/L	SW846 8270C
N-Nitrosodiphenylamine	ND	10	ug/L	SW846 8270C
N-Nitrosodi-n-propylamine	ND	10	ug/L	SW846 8270C
N-Nitrosomethylethylamine	ND	10	ug/L	SW846 8270C
N-Nitrosomorpholine	ND	10	ug/L	SW846 8270C
N-Nitrosopiperidine	ND	10	ug/L	SW846 8270C
N-Nitrosopyrrolidine	ND	10	ug/L	SW846 8270C
5-Nitro-o-toluidine	ND	20	ug/L	SW846 8270C
Parathion	ND	50	ug/L	SW846 8270C
Pentachlorobenzene	ND	10	ug/L	SW846 8270C
Pentachloroethane	ND	50	ug/L	SW846 8270C
Pentachloronitrobenzene	ND	50	ug/L	SW846 8270C
Pentachlorophenol	ND	50	ug/L	SW846 8270C
Phenacetin	ND	20	ug/L	SW846 8270C
Phenanthrene	ND	10	ug/L	SW846 8270C
Phenol	ND	10	ug/L	SW846 8270C
Phorate	ND	50	ug/L	SW846 8270C
2-Picoline	ND	20	ug/L	SW846 8270C
Pronamide	ND	20	ug/L	SW846 8270C
Pyrene	ND	10	ug/L	SW846 8270C
Pyridine	ND	20	ug/L	SW846 8270C
1,2,4,5-Tetrachlorobenzene	ND	10	ug/L	SW846 8270C
2,3,4,6-Tetrachlorophenol	ND	50	ug/L	SW846 8270C
Thionazin	ND	10	ug/L	SW846 8270C
o-Toluidine	ND	10	ug/L	SW846 8270C
1,2,4-Trichlorobenzene	ND	10	ug/L	SW846 8270C
2,4,5-Trichlorophenol	ND	10	ug/L	SW846 8270C
2,4,6-Trichlorophenol	ND	10	ug/L	SW846 8270C
O,O,O-Triethylphosphorothioate	ND	50	ug/L	SW846 8270C
1,3,5-Trinitrobenzene	ND	50	ug/L	SW846 8270C

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: D3J160213 Work Order #...: F201F1AA Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	73	(32 - 116)
Phenol-d5	75	(40 - 111)
Nitrobenzene-d5	76	(53 - 107)
2-Fluorobiphenyl	69	(31 - 105)
2,4,6-Tribromophenol	87	(42 - 122)
Terphenyl-d14	85	(21 - 125)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: D3J160213 Work Order #...: F201F1AC Matrix.....: WATER
LCS Lot-Sample#: D3J200000-438
Prep Date.....: 10/20/03 Analysis Date..: 11/15/03
Prep Batch #...: 3293438 Analysis Time..: 11:49
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Acenaphthene	74	(55 - 97)	SW846 8270C
4-Chloro-3-methylphenol	84	(59 - 106)	SW846 8270C
2-Chlorophenol	71	(59 - 105)	SW846 8270C
1,4-Dichlorobenzene	54	(31 - 98)	SW846 8270C
2,4-Dinitrotoluene	83	(57 - 113)	SW846 8270C
4-Nitrophenol	92	(43 - 118)	SW846 8270C
N-Nitrosodi-n-propyl-amine	81	(51 - 99)	SW846 8270C
Pentachlorophenol	84	(48 - 114)	SW846 8270C
Phenol	71	(56 - 106)	SW846 8270C
Pyrene	82	(51 - 103)	SW846 8270C
1,2,4-Trichloro-benzene	58	(36 - 99)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	72	(54 - 105)
Phenol-d5	75	(55 - 106)
Nitrobenzene-d5	80	(58 - 108)
2-Fluorobiphenyl	73	(53 - 97)
2,4,6-Tribromophenol	97	(62 - 113)
Terphenyl-d14	87	(55 - 109)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: D3J160213 Work Order #...: F201F1AC Matrix.....: WATER
LCS Lot-Sample#: D3J200000-438
Prep Date.....: 10/20/03 Analysis Date..: 11/15/03
Prep Batch #...: 3293438 Analysis Time..: 11:49
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Acenaphthene	100	73.9	ug/L	74	SW846 8270C
4-Chloro-3-methylphenol	150	127	ug/L	84	SW846 8270C
2-Chlorophenol	150	106	ug/L	71	SW846 8270C
1,4-Dichlorobenzene	100	54.2	ug/L	54	SW846 8270C
2,4-Dinitrotoluene	100	82.8	ug/L	83	SW846 8270C
4-Nitrophenol	150	138	ug/L	92	SW846 8270C
N-Nitrosodi-n-propyl-amine	100	80.8	ug/L	81	SW846 8270C
Pentachlorophenol	150	126	ug/L	84	SW846 8270C
Phenol	150	106	ug/L	71	SW846 8270C
Pyrene	100	82.3	ug/L	82	SW846 8270C
1,2,4-Trichloro-benzene	100	57.8	ug/L	58	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	72	(54 - 105)
Phenol-d5	75	(55 - 106)
Nitrobenzene-d5	80	(58 - 108)
2-Fluorobiphenyl	73	(53 - 97)
2,4,6-Tribromophenol	97	(62 - 113)
Terphenyl-d14	87	(55 - 109)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: D3J160213 Work Order #...: F2NR91D8-MS Matrix.....: WATER
MS Lot-Sample #: D3J160213-001 F2NR91D9-MSD
Date Sampled...: 10/14/03 16:20 Date Received..: 10/16/03
Prep Date.....: 10/20/03 Analysis Date..: 11/15/03
Prep Batch #...: 3293438 Analysis Time..: 20:06
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acenaphthene	72	(50 - 96)			SW846 8270C
	70	(50 - 96)	2.8	(0-40)	SW846 8270C
4-Chloro-3-methylphenol	82	(49 - 102)			SW846 8270C
	83	(49 - 102)	6.3	(0-40)	SW846 8270C
2-Chlorophenol	70	(49 - 98)			SW846 8270C
	71	(49 - 98)	6.5	(0-40)	SW846 8270C
1,4-Dichlorobenzene	57	(41 - 92)			SW846 8270C
	56	(41 - 92)	2.9	(0-30)	SW846 8270C
2,4-Dinitrotoluene	87	(51 - 106)			SW846 8270C
	86	(51 - 106)	3.1	(0-40)	SW846 8270C
4-Nitrophenol	100	(34 - 116)			SW846 8270C
	103	(34 - 116)	7.9	(0-40)	SW846 8270C
N-Nitrosodi-n-propyl-amine	81	(46 - 101)			SW846 8270C
	83	(46 - 101)	7.4	(0-40)	SW846 8270C
Pentachlorophenol	85	(34 - 116)			SW846 8270C
	85	(34 - 116)	5.4	(0-40)	SW846 8270C
Phenol	69	(46 - 98)			SW846 8270C
	69	(46 - 98)	6.0	(0-40)	SW846 8270C
Pyrene	78	(39 - 103)			SW846 8270C
	78	(39 - 103)	5.3	(0-40)	SW846 8270C
1,2,4-Trichloro benzene	61	(46 - 92)			SW846 8270C
	63	(46 - 92)	7.0	(0-40)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	70	(32 - 116)
	68	(32 - 116)
Phenol-d5	73	(40 - 111)
	73	(40 - 111)
Nitrobenzene-d5	80	(53 - 107)
	83	(53 - 107)
2-Fluorobiphenyl	67	(31 - 105)
	70	(31 - 105)
2,4,6-Tribromophenol	95	(42 - 122)
	92	(42 - 122)

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: D3J160213 Work Order #...: F2NR91D8-MS Matrix.....: WATER
MS Lot-Sample #: D3J160213-001 F2NR91D9-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Terphenyl-d14	81	(21 - 125)
	81	(21 - 125)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: D3J160213 Work Order #...: F2NR91D8-MS Matrix.....: WATER
MS Lot-Sample #: D3J160213-001 F2NR91D9-MSD
Date Sampled...: 10/14/03 16:20 Date Received..: 10/16/03
Prep Date.....: 10/20/03 Analysis Date..: 11/15/03
Prep Batch #...: 3293438 Analysis Time..: 20:06
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Acenaphthene	ND	101	72.8	ug/L	72		SW846 8270C
	ND	106	74.9	ug/L	70	2.8	SW846 8270C
4-Chloro-3-methylphenol	ND	152	125	ug/L	82		SW846 8270C
	ND	159	133	ug/L	83	6.3	SW846 8270C
2-Chlorophenol	ND	152	106	ug/L	70		SW846 8270C
	ND	159	113	ug/L	71	6.5	SW846 8270C
1,4-Dichlorobenzene	ND	101	57.8	ug/L	57		SW846 8270C
	ND	106	59.4	ug/L	56	2.9	SW846 8270C
2,4-Dinitrotoluene	ND	101	88.2	ug/L	87		SW846 8270C
	ND	106	91.0	ug/L	86	3.1	SW846 8270C
4-Nitrophenol	ND	152	152	ug/L	100		SW846 8270C
	ND	159	164	ug/L	103	7.9	SW846 8270C
N-Nitrosodi-n-propyl-amine	ND	101	81.5	ug/L	81		SW846 8270C
	ND	106	87.8	ug/L	83	7.4	SW846 8270C
Pentachlorophenol	ND	152	128	ug/L	85		SW846 8270C
	ND	159	135	ug/L	85	5.4	SW846 8270C
Phenol	ND	152	104	ug/L	69		SW846 8270C
	ND	159	111	ug/L	69	6.0	SW846 8270C
Pyrene	ND	101	78.5	ug/L	78		SW846 8270C
	ND	106	82.8	ug/L	78	5.3	SW846 8270C
1,2,4-Trichloro-benzene	ND	101	62.1	ug/L	61		SW846 8270C
	ND	106	66.6	ug/L	63	7.0	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	70	(32 - 116)
	68	(32 - 116)
Phenol-d5	73	(40 - 111)
	73	(40 - 111)
Nitrobenzene-d5	80	(53 - 107)
	83	(53 - 107)
2-Fluorobiphenyl	67	(31 - 105)
	70	(31 - 105)
2,4,6-Tribromophenol	95	(42 - 122)
	92	(42 - 122)

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: D3J160213 Work Order #...: F2NR91D8-MS Matrix.....: WATER
MS Lot-Sample #: D3J160213-001 F2NR91D9-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Terphenyl-d14	81	(21 - 125)
	81	(21 - 125)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: D3J160213 Work Order #...: F2X701AA Matrix.....: WATER
MB Lot-Sample #: D3J200000-260

Prep Date.....: 10/20/03 Analysis Time..: 17:38
Analysis Date..: 10/28/03 Prep Batch #...: 3293260
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aldrin	ND	0.050	ug/L	SW846 8081A
alpha-BHC	ND	0.050	ug/L	SW846 8081A
beta-BHC	ND	0.050	ug/L	SW846 8081A
delta-BHC	ND	0.050	ug/L	SW846 8081A
gamma-BHC (Lindane)	ND	0.050	ug/L	SW846 8081A
Chlordane (technical)	ND	0.50	ug/L	SW846 8081A
4,4'-DDD	ND	0.050	ug/L	SW846 8081A
4,4'-DDE	ND	0.050	ug/L	SW846 8081A
4,4'-DDT	ND	0.050	ug/L	SW846 8081A
Dieldrin	ND	0.050	ug/L	SW846 8081A
Endrin	ND	0.050	ug/L	SW846 8081A
Endrin aldehyde	ND	0.050	ug/L	SW846 8081A
Endosulfan I	ND	0.050	ug/L	SW846 8081A
Endosulfan II	ND	0.050	ug/L	SW846 8081A
Endosulfan sulfate	ND	0.050	ug/L	SW846 8081A
Heptachlor	ND	0.050	ug/L	SW846 8081A
Heptachlor epoxide	ND	0.050	ug/L	SW846 8081A
Methoxychlor	ND	0.10	ug/L	SW846 8081A
Toxaphene	ND	5.0	ug/L	SW846 8081A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	101	(29 - 125)
Tetrachloro-m-xylene	92	(40 - 115)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: D3J160213 Work Order #...: F2X701AC Matrix.....: WATER
LCS Lot-Sample#: D3J200000-260
Prep Date.....: 10/20/03 Analysis Date..: 10/28/03
Prep Batch #...: 3293260 Analysis Time..: 16:40
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Aldrin	91	(53 - 122)	SW846 8081A
gamma-BHC (Lindane)	99	(72 - 122)	SW846 8081A
4,4'-DDT	94	(66 - 138)	SW846 8081A
Dieldrin	104	(75 - 128)	SW846 8081A
Endrin	85	(64 - 138)	SW846 8081A
Heptachlor	92	(60 - 126)	SW846 8081A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	106	(65 - 137)
Tetrachloro-m-xylene	80	(40 - 115)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: D3J160213 Work Order #...: F2X701AC Matrix.....: WATER
LCS Lot-Sample#: D3J200000-260
Prep Date.....: 10/20/03 Analysis Date..: 10/28/03
Prep Batch #...: 3293260 Analysis Time..: 16:40
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Aldrin	0.500	0.456	ug/L	91	SW846 8081A
gamma-BHC (Lindane)	0.500	0.493	ug/L	99	SW846 8081A
4,4'-DDT	0.500	0.470	ug/L	94	SW846 8081A
Dieldrin	0.500	0.520	ug/L	104	SW846 8081A
Endrin	0.500	0.426	ug/L	85	SW846 8081A
Heptachlor	0.500	0.460	ug/L	92	SW846 8081A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	106	(65 - 137)
Tetrachloro-m-xylene	80	(40 - 115)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: D3J160213 Work Order #...: F2NR91ED-MS Matrix.....: WATER
MS Lot-Sample #: D3J160213-001 F2NR91EE-MSD
Date Sampled...: 10/14/03 16:20 Date Received..: 10/16/03
Prep Date.....: 10/20/03 Analysis Date..: 10/28/03
Prep Batch #...: 3293260 Analysis Time..: 17:09
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Aldrin	98	(53 - 125)			SW846 8081A
	90	(53 - 125)	8.9	(0-30)	SW846 8081A
gamma-BHC (Lindane)	103	(63 - 128)			SW846 8081A
	93	(63 - 128)	10	(0-30)	SW846 8081A
4,4'-DDT	120	(58 - 147)			SW846 8081A
	113	(58 - 147)	7.4	(0-30)	SW846 8081A
Dieldrin	105	(75 - 128)			SW846 8081A
	99	(75 - 128)	7.1	(0-30)	SW846 8081A
Endrin	96	(64 - 138)			SW846 8081A
	90	(64 - 138)	7.6	(0-30)	SW846 8081A
Heptachlor	101	(53 - 133)			SW846 8081A
	90	(53 - 133)	12	(0-30)	SW846 8081A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	98	(29 - 125)
	89	(29 - 125)
Tetrachloro-m-xylene	81	(40 - 115)
	100	(40 - 115)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: D3J160213 Work Order #...: F2NR91ED-MS Matrix.....: WATER
MS Lot-Sample #: D3J160213-001 F2NR91EE-MSD
Date Sampled...: 10/14/03 16:20 Date Received..: 10/16/03
Prep Date.....: 10/20/03 Analysis Date..: 10/28/03
Prep Batch #...: 3293260 Analysis Time..: 17:09
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Aldrin	ND	0.476	0.464	ug/L	98		SW846 8081A
	ND	0.473	0.425	ug/L	90	8.9	SW846 8081A
gamma-BHC (Lindane)	ND	0.476	0.490	ug/L	103		SW846 8081A
	ND	0.473	0.442	ug/L	93	10	SW846 8081A
4,4'-DDT	ND	0.476	0.573	ug/L	120		SW846 8081A
	ND	0.473	0.532	ug/L	113	7.4	SW846 8081A
Dieldrin	ND	0.476	0.502	ug/L	105		SW846 8081A
	ND	0.473	0.467	ug/L	99	7.1	SW846 8081A
Endrin	ND	0.476	0.457	ug/L	96		SW846 8081A
	ND	0.473	0.424	ug/L	90	7.6	SW846 8081A
Heptachlor	ND	0.476	0.480	ug/L	101		SW846 8081A
	ND	0.473	0.428	ug/L	90	12	SW846 8081A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	98	(29 - 125)
	89	(29 - 125)
Tetrachloro-m-xylene	81	(40 - 115)
	100	(40 - 115)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: D3J160213 Work Order #...: F2X6D1AA Matrix.....: WATER
MB Lot-Sample #: D3J200000-236

Prep Date.....: 10/20/03 Analysis Time..: 21:29
Analysis Date..: 10/28/03 Prep Batch #...: 3293236
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	1.0	ug/L	SW846 8082
Aroclor 1221	ND	1.0	ug/L	SW846 8082
Aroclor 1232	ND	1.0	ug/L	SW846 8082
Aroclor 1242	ND	1.0	ug/L	SW846 8082
Aroclor 1248	ND	1.0	ug/L	SW846 8082
Aroclor 1254	ND	1.0	ug/L	SW846 8082
Aroclor 1260	ND	1.0	ug/L	SW846 8082

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	106	(52 - 160)
Decachlorobiphenyl	114	(37 - 144)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: D3J160213 Work Order #...: F2X6D1AC Matrix.....: WATER
LCS Lot-Sample#: D3J200000-236
Prep Date.....: 10/20/03 Analysis Date..: 10/28/03
Prep Batch #...: 3293236 Analysis Time..: 21:51
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Aroclor 1016	113	(56 - 124)	SW846 8082
Aroclor 1260	126 a	(64 - 120)	SW846 8082

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	96	(52 - 127)
Decachlorobiphenyl	119	(61 - 128)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: D3J160213 Work Order #...: F2X6D1AC Matrix.....: WATER
LCS Lot-Sample#: D3J200000-236
Prep Date.....: 10/20/03 Analysis Date..: 10/28/03
Prep Batch #...: 3293236 Analysis Time..: 21:51
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Aroclor 1016	2.00	2.26	ug/L	113	SW846 8082
Aroclor 1260	2.00	2.52 a	ug/L	126	SW846 8082

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	96	(52 - 127)
Decachlorobiphenyl	119	(61 - 128)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: D3J160213 Work Order #...: F2NR91EA-MS Matrix.....: WATER
MS Lot-Sample #: D3J160213-001 F2NR91EC-MSD
Date Sampled...: 10/14/03 16:20 Date Received..: 10/16/03
Prep Date.....: 10/20/03 Analysis Date..: 10/28/03
Prep Batch #...: 3293236 Analysis Time..: 22:35
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Aroclor 1016	109	(57 - 135)			SW846 8082
	108	(57 - 135)	0.28	(0-30)	SW846 8082
Aroclor 1260	108	(55 - 130)			SW846 8082
	105	(55 - 130)	3.3	(0-30)	SW846 8082

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	102	(52 - 160)
	99	(52 - 160)
Decachlorobiphenyl	115	(37 - 144)
	107	(37 - 144)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: D3J160213 Work Order #...: F2NR91EA-MS Matrix.....: WATER
MS Lot-Sample #: D3J160213-001 F2NR91EC-MSD
Date Sampled...: 10/14/03 16:20 Date Received..: 10/16/03
Prep Date.....: 10/20/03 Analysis Date..: 10/28/03
Prep Batch #...: 3293236 Analysis Time..: 22:35
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Aroclor 1016	ND	1.89	2.06	ug/L	109		SW846 8082
	ND	1.90	2.05	ug/L	108	0.28	SW846 8082
Aroclor 1260	ND	1.89	2.05	ug/L	108		SW846 8082
	ND	1.90	1.99	ug/L	105	3.3	SW846 8082

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	102	(52 - 160)
	99	(52 - 160)
Decachlorobiphenyl	115	(37 - 144)
	107	(37 - 144)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: D3J160213 Work Order #...: F22GQ1AA Matrix.....: WATER
MB Lot-Sample #: D3J210000-207

Prep Date.....: 10/21/03 Analysis Time..: 11:57
Analysis Date..: 11/05/03 Prep Batch #...: 3294207
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Azinphos-methyl	ND	2.5	ug/L	SW846 8141A
Bolstar	ND	0.50	ug/L	SW846 8141A
Chlorpyrifos	ND	0.50	ug/L	SW846 8141A
Coumaphos	ND	0.50	ug/L	SW846 8141A
Demeton (total)	ND	1.0	ug/L	SW846 8141A
Diazinon	ND	0.50	ug/L	SW846 8141A
Dichlorvos	ND	0.50	ug/L	SW846 8141A
Dimethoate	ND	0.50	ug/L	SW846 8141A
Disulfoton	ND	0.50	ug/L	SW846 8141A
Ethoprop	ND	0.50	ug/L	SW846 8141A
Ethyl parathion	ND	0.50	ug/L	SW846 8141A
Famphur	ND	1.0	ug/L	SW846 8141A
Fensulfothion	ND	2.5	ug/L	SW846 8141A
Fenthion	ND	0.50	ug/L	SW846 8141A
Malathion	ND	1.2	ug/L	SW846 8141A
Merphos	ND	5.0	ug/L	SW846 8141A
Methyl parathion	ND	0.50	ug/L	SW846 8141A
Mevinphos	ND	6.2	ug/L	SW846 8141A
Naled	ND	10	ug/L	SW846 8141A
O,O,O-Triethylphosphoro-thioate	ND	0.50	ug/L	SW846 8141A
Phorate	ND	0.50	ug/L	SW846 8141A
Ronnel	ND	10	ug/L	SW846 8141A
Sulfotepp	ND	0.50	ug/L	SW846 8141A
Thionazin	ND	0.50	ug/L	SW846 8141A
Tokuthion	ND	0.50	ug/L	SW846 8141A
Trichloronate	ND	0.50	ug/L	SW846 8141A
EPN	ND	0.50	ug/L	SW846 8141A
Demeton-O	ND	1.0	ug/L	SW846 8141A
Demeton-S	ND	1.0	ug/L	SW846 8141A
Tetrachlorvinphos (Stirop	ND	2.5	ug/L	SW846 8141A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Chlormefos	76	(49 - 105)
Ethyl Pirimifos	30	(20 - 121)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: D3J160213 Work Order #...: F22GQ1AC-LCS Matrix.....: WATER
LCS Lot-Sample#: D3J210000-207 F22GQ1AD-LCSD
Prep Date.....: 10/21/03 Analysis Date..: 11/05/03
Prep Batch #...: 3294207 Analysis Time..: 12:30
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Demeton (total)	32	(20 - 107)			SW846 8141A
	88 p	(20 - 107)	94	(0-40)	SW846 8141A
Diazinon	42 a	(58 - 108)			SW846 8141A
	82 p	(58 - 108)	65	(0-40)	SW846 8141A
Ethyl parathion	36 a	(62 - 118)			SW846 8141A
	73 p	(62 - 118)	68	(0-40)	SW846 8141A
Malathion	30 a	(33 - 109)			SW846 8141A
	63 p	(33 - 109)	71	(0-40)	SW846 8141A
Methyl parathion	40 a	(50 - 127)			SW846 8141A
	80 p	(50 - 127)	65	(0-40)	SW846 8141A
Phorate	42 a	(54 - 101)			SW846 8141A
	85 p	(54 - 101)	67	(0-40)	SW846 8141A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Chlormefos	44 *	(49 - 105)
	81	(49 - 105)
Ethyl Pirimifos	30	(20 - 121)
	90	(20 - 121)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

p Relative percent difference (RPD) is outside stated control limits.

* Surrogate recovery is outside stated control limits.

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: D3J160213 Work Order #...: F22GQ1AC-LCS Matrix.....: WATER
LCS Lot-Sample#: D3J210000-207 F22GQ1AD-LCSD
Prep Date.....: 10/21/03 Analysis Date..: 11/05/03
Prep Batch #...: 3294207 Analysis Time..: 12:30
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Demeton (total)	2.00	0.636	ug/L	32		SW846 8141A
	2.00	1.76 p	ug/L	88	94	SW846 8141A
Diazinon	2.00	0.844 a	ug/L	42		SW846 8141A
	2.00	1.65 p	ug/L	82	65	SW846 8141A
Ethyl parathion	2.00	0.718 a	ug/L	36		SW846 8141A
	2.00	1.46 p	ug/L	73	68	SW846 8141A
Malathion	2.00	0.600 a	ug/L	30		SW846 8141A
	2.00	1.26 p	ug/L	63	71	SW846 8141A
Methyl parathion	2.00	0.806 a	ug/L	40		SW846 8141A
	2.00	1.59 p	ug/L	80	65	SW846 8141A
Phorate	2.00	0.848 a	ug/L	42		SW846 8141A
	2.00	1.70 p	ug/L	85	67	SW846 8141A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Chlormefos	44 *	(49 - 105)
	81	(49 - 105)
Ethyl Pirimifos	30	(20 - 121)
	90	(20 - 121)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

p Relative percent difference (RPD) is outside stated control limits.

* Surrogate recovery is outside stated control limits.

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: D3J160213 Work Order #...: F2LGF1A5-MS Matrix.....: WATER
MS Lot-Sample #: D3J150262-001 F2LGF1A6-MSD
Date Sampled...: 10/14/03 08:00 Date Received..: 10/15/03
Prep Date.....: 10/21/03 Analysis Date..: 11/05/03
Prep Batch #...: 3294207 Analysis Time..: 17:51
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Demeton (total)	69	(20 - 107)			SW846 8141A
	78	(20 - 107)	14	(0-40)	SW846 8141A
Diazinon	71	(58 - 108)			SW846 8141A
	74	(58 - 108)	5.8	(0-40)	SW846 8141A
Ethyl parathion	76	(62 - 118)			SW846 8141A
	79	(62 - 118)	4.2	(0-40)	SW846 8141A
Malathion	76	(33 - 109)			SW846 8141A
	79	(33 - 109)	4.4	(0-40)	SW846 8141A
Methyl parathion	84	(50 - 127)			SW846 8141A
	87	(50 - 127)	2.8	(0-40)	SW846 8141A
Phorate	79	(54 - 101)			SW846 8141A
	78	(54 - 101)	1.0	(0-40)	SW846 8141A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Chlormefos	81	(49 - 105)
	85	(49 - 105)
Ethyl Pirimifos	69	(20 - 121)
	74	(20 - 121)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: D3J160213 Work Order #...: F2LGF1A5-MS Matrix.....: WATER
MS Lot-Sample #: D3J150262-001 F2LGF1A6-MSD
Date Sampled...: 10/14/03 08:00 Date Received..: 10/15/03
Prep Date.....: 10/21/03 Analysis Date..: 11/05/03
Prep Batch #...: 3294207 Analysis Time..: 17:51
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Demeton (total)	ND	1.88	1.29	ug/L	69		SW846 8141A
	ND	1.89	1.48	ug/L	78	14	SW846 8141A
Diazinon	ND	1.88	1.33	ug/L	71		SW846 8141A
	ND	1.89	1.41	ug/L	74	5.8	SW846 8141A
Ethyl parathion	ND	1.88	1.43	ug/L	76		SW846 8141A
	ND	1.89	1.49	ug/L	79	4.2	SW846 8141A
Malathion	ND	1.88	1.44	ug/L	76		SW846 8141A
	ND	1.89	1.50	ug/L	79	4.4	SW846 8141A
Methyl parathion	ND	1.88	1.59	ug/L	84		SW846 8141A
	ND	1.89	1.63	ug/L	87	2.8	SW846 8141A
Phorate	ND	1.88	1.48	ug/L	79		SW846 8141A
	ND	1.89	1.46	ug/L	78	1.0	SW846 8141A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Chlormefos	81	(49 - 105)
	85	(49 - 105)
Ethyl Pirimifos	69	(20 - 121)
	74	(20 - 121)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: D3J160213 Work Order #...: F2NR91EF-MS Matrix.....: WATER
MS Lot-Sample #: D3J160213-001 F2NR91EG-MSD
Date Sampled...: 10/14/03 16:20 Date Received..: 10/16/03
Prep Date.....: 10/21/03 Analysis Date..: 11/05/03
Prep Batch #...: 3294207 Analysis Time..: 14:09
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Demeton (total)	40	(20 - 107)			SW846 8141A
	27	(20 - 107)	38	(0-40)	SW846 8141A
Diazinon	64	(58 - 108)			SW846 8141A
	73	(58 - 108)	13	(0-40)	SW846 8141A
Ethyl parathion	62	(62 - 118)			SW846 8141A
	69	(62 - 118)	10	(0-40)	SW846 8141A
Malathion	45	(33 - 109)			SW846 8141A
	54	(33 - 109)	16	(0-40)	SW846 8141A
Methyl parathion	61	(50 - 127)			SW846 8141A
	68	(50 - 127)	12	(0-40)	SW846 8141A
Phorate	58	(54 - 101)			SW846 8141A
	57	(54 - 101)	0.82	(0-40)	SW846 8141A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Chlormefos	60	(49 - 105)
	69	(49 - 105)
Ethyl Pirimifos	64	(20 - 121)
	73	(20 - 121)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: D3J160213 Work Order #...: F2NR91EF-MS Matrix.....: WATER
MS Lot-Sample #: D3J160213-001 F2NR91EG-MSD
Date Sampled...: 10/14/03 16:20 Date Received..: 10/16/03
Prep Date.....: 10/21/03 Analysis Date..: 11/05/03
Prep Batch #...: 3294207 Analysis Time..: 14:09
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Demeton (total)	ND	1.89	0.764	ug/L	40		SW846 8141A
	ND	1.90	0.518	ug/L	27	38	SW846 8141A
Diazinon	ND	1.89	1.22	ug/L	64		SW846 8141A
	ND	1.90	1.39	ug/L	73	13	SW846 8141A
Ethyl parathion	ND	1.89	1.18	ug/L	62		SW846 8141A
	ND	1.90	1.31	ug/L	69	10	SW846 8141A
Malathion	ND	1.89	0.862	ug/L	45		SW846 8141A
	ND	1.90	1.02	ug/L	54	16	SW846 8141A
Methyl parathion	ND	1.89	1.15	ug/L	61		SW846 8141A
	ND	1.90	1.29	ug/L	68	12	SW846 8141A
Phorate	ND	1.89	1.09	ug/L	58		SW846 8141A
	ND	1.90	1.08	ug/L	57	0.82	SW846 8141A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Chlormefos	60	(49 - 105)
	69	(49 - 105)
Ethyl Pirimifos	64	(20 - 121)
	73	(20 - 121)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: D3J160213 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: D3J170000-479 Prep Batch #...: 3290479						
Mercury	ND	0.20	ug/L	SW846 7470A	10/22-10/23/03	F2TWN1AA
		Dilution Factor: 1				
		Analysis Time..: 12:56				
MB Lot-Sample #: D3J180000-152 Prep Batch #...: 3291152						
Aluminum	30 B	100	ug/L	SW846 6010B	10/23-10/24/03	F2XEF1AC
		Dilution Factor: 1				
		Analysis Time..: 17:15				
Antimony	ND	10	ug/L	SW846 6010B	10/23-10/24/03	F2XEF1AT
		Dilution Factor: 1				
		Analysis Time..: 20:06				
Arsenic	ND	15	ug/L	SW846 6010B	10/23-10/24/03	F2XEF1AD
		Dilution Factor: 1				
		Analysis Time..: 20:06				
Barium	ND	10	ug/L	SW846 6010B	10/23-10/24/03	F2XEF1AE
		Dilution Factor: 1				
		Analysis Time..: 20:06				
Beryllium	ND	5.0	ug/L	SW846 6010B	10/23-10/24/03	F2XEF1AF
		Dilution Factor: 1				
		Analysis Time..: 20:06				
Boron	ND	100	ug/L	SW846 6010B	10/23-10/24/03	F2XEF1AG
		Dilution Factor: 1				
		Analysis Time..: 17:15				
Cadmium	ND	5.0	ug/L	SW846 6010B	10/23-10/24/03	F2XEF1AH
		Dilution Factor: 1				
		Analysis Time..: 20:06				
Chromium	ND	10	ug/L	SW846 6010B	10/23-10/24/03	F2XEF1AK
		Dilution Factor: 1				
		Analysis Time..: 20:06				
Cobalt	ND	10	ug/L	SW846 6010B	10/23-10/24/03	F2XEF1AJ
		Dilution Factor: 1				
		Analysis Time..: 20:06				

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: D3J160213 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	1.3 B	10	ug/L	SW846 6010B	10/23-10/24/03	F2XEF1AL
		Dilution Factor: 1				
		Analysis Time..: 20:06				
Iron	ND	100	ug/L	SW846 6010B	10/23-10/24/03	F2XEF1AM
		Dilution Factor: 1				
		Analysis Time..: 17:15				
Lead	ND	3.0	ug/L	SW846 6010B	10/23-10/24/03	F2XEF1AR
		Dilution Factor: 1				
		Analysis Time..: 20:06				
Manganese	ND	10	ug/L	SW846 6010B	10/23-10/24/03	F2XEF1AN
		Dilution Factor: 1				
		Analysis Time..: 20:06				
Molybdenum	ND	20	ug/L	SW846 6010B	10/23-10/24/03	F2XEF1AP
		Dilution Factor: 1				
		Analysis Time..: 20:06				
Nickel	ND	40	ug/L	SW846 6010B	10/23-10/24/03	F2XEF1AQ
		Dilution Factor: 1				
		Analysis Time..: 20:06				
Selenium	ND	15	ug/L	SW846 6010B	10/23-10/24/03	F2XEF1AU
		Dilution Factor: 1				
		Analysis Time..: 20:06				
Silver	ND	10	ug/L	SW846 6010B	10/23-10/24/03	F2XEF1AA
		Dilution Factor: 1				
		Analysis Time..: 20:06				
Thallium	ND	10	ug/L	SW846 6010B	10/23-10/24/03	F2XEF1AV
		Dilution Factor: 1				
		Analysis Time..: 20:06				
Zinc	ND	20	ug/L	SW846 6010B	10/23-10/24/03	F2XEF1AW
		Dilution Factor: 1				
		Analysis Time..: 20:06				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Lot-Sample #...: D3J160213 Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP-BATCH #
Aluminum	97	(86 - 108)			SW846 6010B	10/23-10/24/03	3291152
	100	(86 - 108)	3.0	(0-20)	SW846 6010B	10/23-10/24/03	3291152
		Dilution Factor: 1			Analysis Time..: 17:20		
Antimony	99	(88 - 108)			SW846 6010B	10/23-10/24/03	3291152
	101	(88 - 108)	2.5	(0-20)	SW846 6010B	10/23-10/24/03	3291152
		Dilution Factor: 1			Analysis Time..: 20:11		
Arsenic	100	(89 - 109)			SW846 6010B	10/23-10/24/03	3291152
	103	(89 - 109)	2.4	(0-20)	SW846 6010B	10/23-10/24/03	3291152
		Dilution Factor: 1			Analysis Time..: 20:11		
Barium	104	(93 - 113)			SW846 6010B	10/23-10/24/03	3291152
	107	(93 - 113)	2.5	(0-20)	SW846 6010B	10/23-10/24/03	3291152
		Dilution Factor: 1			Analysis Time..: 20:11		
Beryllium	99	(88 - 112)			SW846 6010B	10/23-10/24/03	3291152
	102	(88 - 112)	3.1	(0-20)	SW846 6010B	10/23-10/24/03	3291152
		Dilution Factor: 1			Analysis Time..: 20:11		
Boron	96	(89 - 110)			SW846 6010B	10/23-10/24/03	3291152
	97	(89 - 110)	1.1	(0-20)	SW846 6010B	10/23-10/24/03	3291152
		Dilution Factor: 1			Analysis Time..: 17:20		
Cadmium	101	(89 - 110)			SW846 6010B	10/23-10/24/03	3291152
	104	(89 - 110)	3.3	(0-20)	SW846 6010B	10/23-10/24/03	3291152
		Dilution Factor: 1			Analysis Time..: 20:11		
Chromium	103	(89 - 112)			SW846 6010B	10/23-10/24/03	3291152
	106	(89 - 112)	3.1	(0-20)	SW846 6010B	10/23-10/24/03	3291152
		Dilution Factor: 1			Analysis Time..: 20:11		
Cobalt	100	(86 - 107)			SW846 6010B	10/23-10/24/03	3291152
	103	(86 - 107)	2.8	(0-20)	SW846 6010B	10/23-10/24/03	3291152
		Dilution Factor: 1			Analysis Time..: 20:11		
Copper	101	(86 - 110)			SW846 6010B	10/23-10/24/03	3291152
	104	(86 - 110)	2.7	(0-20)	SW846 6010B	10/23-10/24/03	3291152
		Dilution Factor: 1			Analysis Time..: 20:11		

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Lot-Sample #...: D3J160213 Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP-BATCH #
Iron	96	(88 - 110)			SW846 6010B	10/23-10/24/03	3291152
	97	(88 - 110)	1.5	(0-20)	SW846 6010B	10/23-10/24/03	3291152
		Dilution Factor: 1			Analysis Time..: 17:20		
Lead	101	(91 - 111)			SW846 6010B	10/23-10/24/03	3291152
	104	(91 - 111)	3.1	(0-20)	SW846 6010B	10/23-10/24/03	3291152
		Dilution Factor: 1			Analysis Time..: 20:11		
Manganese	102	(90 - 110)			SW846 6010B	10/23-10/24/03	3291152
	105	(90 - 110)	2.7	(0-20)	SW846 6010B	10/23-10/24/03	3291152
		Dilution Factor: 1			Analysis Time..: 20:11		
Molybdenum	99	(83 - 109)			SW846 6010B	10/23-10/24/03	3291152
	102	(83 - 109)	2.8	(0-20)	SW846 6010B	10/23-10/24/03	3291152
		Dilution Factor: 1			Analysis Time..: 20:11		
Nickel	100	(90 - 110)			SW846 6010B	10/23-10/24/03	3291152
	103	(90 - 110)	2.6	(0-20)	SW846 6010B	10/23-10/24/03	3291152
		Dilution Factor: 1			Analysis Time..: 20:11		
Selenium	98	(88 - 110)			SW846 6010B	10/23-10/24/03	3291152
	101	(88 - 110)	2.8	(0-20)	SW846 6010B	10/23-10/24/03	3291152
		Dilution Factor: 1			Analysis Time..: 20:11		
Silver	100	(85 - 114)			SW846 6010B	10/23-10/24/03	3291152
	103	(85 - 114)	2.8	(0-20)	SW846 6010B	10/23-10/24/03	3291152
		Dilution Factor: 1			Analysis Time..: 20:11		
Thallium	99	(88 - 108)			SW846 6010B	10/23-10/24/03	3291152
	101	(88 - 108)	2.5	(0-20)	SW846 6010B	10/23-10/24/03	3291152
		Dilution Factor: 1			Analysis Time..: 20:11		
Zinc	96	(85 - 110)			SW846 6010B	10/23-10/24/03	3291152
	99	(85 - 110)	3.0	(0-20)	SW846 6010B	10/23-10/24/03	3291152
		Dilution Factor: 1			Analysis Time..: 20:11		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Lot-Sample #...: D3J160213 Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Aluminum	2000	1940	ug/L	97		SW846 6010B	10/23-10/24/03	3291152
	2000	1990	ug/L	100	3.0	SW846 6010B	10/23-10/24/03	3291152
			Dilution Factor: 1			Analysis Time..: 17:20		
Antimony	500	495	ug/L	99		SW846 6010B	10/23-10/24/03	3291152
	500	507	ug/L	101	2.5	SW846 6010B	10/23-10/24/03	3291152
			Dilution Factor: 1			Analysis Time..: 20:11		
Arsenic	2000	2000	ug/L	100		SW846 6010B	10/23-10/24/03	3291152
	2000	2050	ug/L	103	2.4	SW846 6010B	10/23-10/24/03	3291152
			Dilution Factor: 1			Analysis Time..: 20:11		
Barium	2000	2090	ug/L	104		SW846 6010B	10/23-10/24/03	3291152
	2000	2140	ug/L	107	2.5	SW846 6010B	10/23-10/24/03	3291152
			Dilution Factor: 1			Analysis Time..: 20:11		
Beryllium	50.0	49.6	ug/L	99		SW846 6010B	10/23-10/24/03	3291152
	50.0	51.2	ug/L	102	3.1	SW846 6010B	10/23-10/24/03	3291152
			Dilution Factor: 1			Analysis Time..: 20:11		
Boron	1000	956	ug/L	96		SW846 6010B	10/23-10/24/03	3291152
	1000	966	ug/L	97	1.1	SW846 6010B	10/23-10/24/03	3291152
			Dilution Factor: 1			Analysis Time..: 17:20		
Cadmium	50.0	50.4	ug/L	101		SW846 6010B	10/23-10/24/03	3291152
	50.0	52.1	ug/L	104	3.3	SW846 6010B	10/23-10/24/03	3291152
			Dilution Factor: 1			Analysis Time..: 20:11		
Chromium	200	205	ug/L	103		SW846 6010B	10/23-10/24/03	3291152
	200	212	ug/L	106	3.1	SW846 6010B	10/23-10/24/03	3291152
			Dilution Factor: 1			Analysis Time..: 20:11		
Cobalt	500	500	ug/L	100		SW846 6010B	10/23-10/24/03	3291152
	500	514	ug/L	103	2.8	SW846 6010B	10/23-10/24/03	3291152
			Dilution Factor: 1			Analysis Time..: 20:11		
Copper	250	254	ug/L	101		SW846 6010B	10/23-10/24/03	3291152
	250	261	ug/L	104	2.7	SW846 6010B	10/23-10/24/03	3291152
			Dilution Factor: 1			Analysis Time..: 20:11		

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Lot-Sample #...: D3J160213 Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Iron	1000	955	ug/L	96		SW846 6010B	10/23-10/24/03	3291152
	1000	970	ug/L	97	1.5	SW846 6010B	10/23-10/24/03	3291152
			Dilution Factor: 1			Analysis Time..: 17:20		
Lead	500	504	ug/L	101		SW846 6010B	10/23-10/24/03	3291152
	500	521	ug/L	104	3.1	SW846 6010B	10/23-10/24/03	3291152
			Dilution Factor: 1			Analysis Time..: 20:11		
Manganese	500	510	ug/L	102		SW846 6010B	10/23-10/24/03	3291152
	500	525	ug/L	105	2.7	SW846 6010B	10/23-10/24/03	3291152
			Dilution Factor: 1			Analysis Time..: 20:11		
Molybdenum	1000	993	ug/L	99		SW846 6010B	10/23-10/24/03	3291152
	1000	1020	ug/L	102	2.8	SW846 6010B	10/23-10/24/03	3291152
			Dilution Factor: 1			Analysis Time..: 20:11		
Nickel	500	500	ug/L	100		SW846 6010B	10/23-10/24/03	3291152
	500	513	ug/L	103	2.6	SW846 6010B	10/23-10/24/03	3291152
			Dilution Factor: 1			Analysis Time..: 20:11		
Selenium	2000	1970	ug/L	98		SW846 6010B	10/23-10/24/03	3291152
	2000	2020	ug/L	101	2.8	SW846 6010B	10/23-10/24/03	3291152
			Dilution Factor: 1			Analysis Time..: 20:11		
Silver	50.0	49.9	ug/L	100		SW846 6010B	10/23-10/24/03	3291152
	50.0	51.3	ug/L	103	2.8	SW846 6010B	10/23-10/24/03	3291152
			Dilution Factor: 1			Analysis Time..: 20:11		
Thallium	2000	1980	ug/L	99		SW846 6010B	10/23-10/24/03	3291152
	2000	2030	ug/L	101	2.5	SW846 6010B	10/23-10/24/03	3291152
			Dilution Factor: 1			Analysis Time..: 20:11		
Zinc	500	479	ug/L	96		SW846 6010B	10/23-10/24/03	3291152
	500	494	ug/L	99	3.0	SW846 6010B	10/23-10/24/03	3291152
			Dilution Factor: 1			Analysis Time..: 20:11		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: D3J160213 Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: D3J170000-479 Prep Batch #...: 3290479					
Mercury	101	(84 - 114)	SW846 7470A	10/22-10/23/03	F2TWN1AC
		Dilution Factor: 1	Analysis Time..: 12:58		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: D3J160213 Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: D3J170000-479 Prep Batch #...: 3290479							
Mercury	5.00	5.04	ug/L	101	SW846 7470A	10/22-10/23/03	F2TWN1AC

Dilution Factor: 1 Analysis Time..: 12:58

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: D3J160213 Matrix.....: WATER
Date Sampled...: 10/07/03 12:00 Date Received..: 10/08/03

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: D3J080173-004 Prep Batch #...: 3291152							
Barium	102	(85 - 120)			SW846 6010B	10/23-10/25/03	F13CM1CN
	101	(85 - 120)	0.46	(0-25)	SW846 6010B	10/23-10/25/03	F13CM1CP
		Dilution Factor: 1					
		Analysis Time..: 18:07					
Beryllium	94	(79 - 121)			SW846 6010B	10/23-10/25/03	F13CM1CQ
	92	(79 - 121)	2.3	(0-25)	SW846 6010B	10/23-10/25/03	F13CM1CR
		Dilution Factor: 1					
		Analysis Time..: 18:07					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: D3J160213 Matrix.....: WATER
Date Sampled...: 10/07/03 12:00 Date Received..: 10/08/03

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: D3J080173-004 Prep Batch #...: 3291152									
Barium									
	12	2000	2050	ug/L	102		SW846 6010B	10/23-10/25/03	F13CM1CN
	12	2000	2040	ug/L	101	0.46	SW846 6010B	10/23-10/25/03	F13CM1CP
			Dilution Factor: 1						
			Analysis Time..: 18:07						
Beryllium									
	ND	50.0	46.9	ug/L	94		SW846 6010B	10/23-10/25/03	F13CM1CQ
	ND	50.0	45.8	ug/L	92	2.3	SW846 6010B	10/23-10/25/03	F13CM1CR
			Dilution Factor: 1						
			Analysis Time..: 18:07						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: D3J160213 Matrix.....: WATER
Date Sampled...: 10/14/03 16:20 Date Received..: 10/16/03

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: D3J160213-001 Prep Batch #...: 3290479							
Mercury	99	(84 - 114)			SW846 7470A	10/22-10/23/03	F2NR91C2
	101	(84 - 114)	2.0	(0-10)	SW846 7470A	10/22-10/23/03	F2NR91C3
		Dilution Factor: 1					
		Analysis Time..: 13:29					
MS Lot-Sample #: D3J160213-001 Prep Batch #...: 3291152							
Aluminum	117	(83 - 119)			SW846 6010B	10/23-10/24/03	F2NR91DK
	114	(83 - 119)	2.0	(0-25)	SW846 6010B	10/23-10/24/03	F2NR91DL
		Dilution Factor: 1					
		Analysis Time..: 18:24					
Antimony	106	(81 - 124)			SW846 6010B	10/23-10/25/03	F2NR91CR
	102	(81 - 124)	3.4	(0-25)	SW846 6010B	10/23-10/25/03	F2NR91CT
		Dilution Factor: 1					
		Analysis Time..: 18:25					
Arsenic	111	(84 - 124)			SW846 6010B	10/23-10/25/03	F2NR91DM
	107	(84 - 124)	4.0	(0-25)	SW846 6010B	10/23-10/25/03	F2NR91DN
		Dilution Factor: 1					
		Analysis Time..: 18:25					
Barium	104	(85 - 120)			SW846 6010B	10/23-10/25/03	F2NR91DP
	101	(85 - 120)	3.5	(0-25)	SW846 6010B	10/23-10/25/03	F2NR91DQ
		Dilution Factor: 1					
		Analysis Time..: 18:25					
Beryllium	96	(79 - 121)			SW846 6010B	10/23-10/25/03	F2NR91DR
	94	(79 - 121)	1.4	(0-25)	SW846 6010B	10/23-10/25/03	F2NR91DT
		Dilution Factor: 1					
		Analysis Time..: 18:25					
Boron	101	(87 - 113)			SW846 6010B	10/23-10/24/03	F2NR91DU
	98	(87 - 113)	1.3	(0-25)	SW846 6010B	10/23-10/24/03	F2NR91DV
		Dilution Factor: 1					
		Analysis Time..: 18:24					
Cadmium	99	(82 - 119)			SW846 6010B	10/23-10/25/03	F2NR91DW
	96	(82 - 119)	3.1	(0-25)	SW846 6010B	10/23-10/25/03	F2NR91DX
		Dilution Factor: 1					
		Analysis Time..: 18:25					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: D3J160213 Matrix.....: WATER
Date Sampled...: 10/14/03 16:20 Date Received..: 10/16/03

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Chromium	101	(73 - 135)			SW846 6010B	10/23-10/25/03	F2NR91D2
	91	(73 - 135)	8.4	(0-25)	SW846 6010B	10/23-10/25/03	F2NR91D3
		Dilution Factor: 1					
		Analysis Time..: 18:25					
Cobalt	102	(82 - 119)			SW846 6010B	10/23-10/25/03	F2NR91D0
	98	(82 - 119)	3.8	(0-25)	SW846 6010B	10/23-10/25/03	F2NR91D1
		Dilution Factor: 1					
		Analysis Time..: 18:25					
Copper	116	(82 - 129)			SW846 6010B	10/23-10/25/03	F2NR91D4
	111	(82 - 129)	3.9	(0-25)	SW846 6010B	10/23-10/25/03	F2NR91D5
		Dilution Factor: 1					
		Analysis Time..: 18:25					
Iron	97	(52 - 155)			SW846 6010B	10/23-10/24/03	F2NR91D6
	90	(52 - 155)	4.8	(0-25)	SW846 6010B	10/23-10/24/03	F2NR91D7
		Dilution Factor: 1					
		Analysis Time..: 18:24					
Lead	106	(89 - 121)			SW846 6010B	10/23-10/25/03	F2NR91CP
	101	(89 - 121)	4.4	(0-25)	SW846 6010B	10/23-10/25/03	F2NR91CQ
		Dilution Factor: 1					
		Analysis Time..: 18:25					
Manganese	105	(79 - 121)			SW846 6010B	10/23-10/25/03	F2NR91CH
	95	(79 - 121)	3.2	(0-25)	SW846 6010B	10/23-10/25/03	F2NR91CJ
		Dilution Factor: 1					
		Analysis Time..: 18:25					
Molybdenum	102	(83 - 109)			SW846 6010B	10/23-10/25/03	F2NR91CK
	99	(83 - 109)	2.7	(0-25)	SW846 6010B	10/23-10/25/03	F2NR91CL
		Dilution Factor: 1					
		Analysis Time..: 18:25					
Nickel	97	(84 - 120)			SW846 6010B	10/23-10/25/03	F2NR91CM
	93	(84 - 120)	4.3	(0-25)	SW846 6010B	10/23-10/25/03	F2NR91CN
		Dilution Factor: 1					
		Analysis Time..: 18:25					
Selenium	118	(71 - 140)			SW846 6010B	10/23-10/25/03	F2NR91CU
	113	(71 - 140)	4.6	(0-25)	SW846 6010B	10/23-10/25/03	F2NR91CV
		Dilution Factor: 1					
		Analysis Time..: 18:25					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: D3J160213 Matrix.....: WATER
Date Sampled...: 10/14/03 16:20 Date Received..: 10/16/03

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Silver	119	(75 - 141)			SW846 6010B	10/23-10/25/03	F2NR91DH
	114	(75 - 141)	4.7	(0-25)	SW846 6010B	10/23-10/25/03	F2NR91DJ
		Dilution Factor: 1					
		Analysis Time..: 18:25					
Thallium	105	(90 - 116)			SW846 6010B	10/23-10/25/03	F2NR91CW
	102	(90 - 116)	3.8	(0-25)	SW846 6010B	10/23-10/25/03	F2NR91CX
		Dilution Factor: 1					
		Analysis Time..: 18:25					
Zinc	106	(60 - 137)			SW846 6010B	10/23-10/25/03	F2NR91C0
	102	(60 - 137)	4.1	(0-25)	SW846 6010B	10/23-10/25/03	F2NR91C1
		Dilution Factor: 1					
		Analysis Time..: 18:25					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: D3J160213 Matrix.....: WATER
Date Sampled...: 10/14/03 16:20 Date Received..: 10/16/03

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: D3J160213-001 Prep Batch #...: 3290479									
Mercury									
	ND	5.00	4.93	ug/L	99		SW846 7470A	10/22-10/23/03	F2NR91C2
	ND	5.00	5.03	ug/L	101	2.0	SW846 7470A	10/22-10/23/03	F2NR91C3
			Dilution Factor: 1						
			Analysis Time..: 13:29						
MS Lot-Sample #: D3J160213-001 Prep Batch #...: 3291152									
Aluminum									
	480	2000	2810	ug/L	117		SW846 6010B	10/23-10/24/03	F2NR91DK
	480	2000	2760	ug/L	114	2.0	SW846 6010B	10/23-10/24/03	F2NR91DL
			Dilution Factor: 1						
			Analysis Time..: 18:24						
Antimony									
	ND	500	528	ug/L	106		SW846 6010B	10/23-10/25/03	F2NR91CR
	ND	500	510	ug/L	102	3.4	SW846 6010B	10/23-10/25/03	F2NR91CT
			Dilution Factor: 1						
			Analysis Time..: 18:25						
Arsenic									
	ND	2000	2230	ug/L	111		SW846 6010B	10/23-10/25/03	F2NR91DM
	ND	2000	2150	ug/L	107	4.0	SW846 6010B	10/23-10/25/03	F2NR91DN
			Dilution Factor: 1						
			Analysis Time..: 18:25						
Barium									
	21	2000	2110	ug/L	104		SW846 6010B	10/23-10/25/03	F2NR91DP
	21	2000	2040	ug/L	101	3.5	SW846 6010B	10/23-10/25/03	F2NR91DQ
			Dilution Factor: 1						
			Analysis Time..: 18:25						
Beryllium									
	ND	50.0	47.8	ug/L	96		SW846 6010B	10/23-10/25/03	F2NR91DR
	ND	50.0	47.2	ug/L	94	1.4	SW846 6010B	10/23-10/25/03	F2NR91DT
			Dilution Factor: 1						
			Analysis Time..: 18:25						
Boron									
	1600	1000	2650	ug/L	101		SW846 6010B	10/23-10/24/03	F2NR91DU
	1600	1000	2620	ug/L	98	1.3	SW846 6010B	10/23-10/24/03	F2NR91DV
			Dilution Factor: 1						
			Analysis Time..: 18:24						

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: D3J160213 Matrix.....: WATER
Date Sampled...: 10/14/03 16:20 Date Received..: 10/16/03

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cadmium									
	ND	50.0	49.6	ug/L	99		SW846 6010B	10/23-10/25/03	F2NR91DW
	ND	50.0	48.1	ug/L	96	3.1	SW846 6010B	10/23-10/25/03	F2NR91DX
			Dilution Factor: 1						
			Analysis Time..: 18:25						
Chromium									
	43	200	245	ug/L	101		SW846 6010B	10/23-10/25/03	F2NR91D2
	43	200	225	ug/L	91	8.4	SW846 6010B	10/23-10/25/03	F2NR91D3
			Dilution Factor: 1						
			Analysis Time..: 18:25						
Cobalt									
	ND	500	509	ug/L	102		SW846 6010B	10/23-10/25/03	F2NR91D0
	ND	500	490	ug/L	98	3.8	SW846 6010B	10/23-10/25/03	F2NR91D1
			Dilution Factor: 1						
			Analysis Time..: 18:25						
Copper									
	8.6	250	298	ug/L	116		SW846 6010B	10/23-10/25/03	F2NR91D4
	8.6	250	286	ug/L	111	3.9	SW846 6010B	10/23-10/25/03	F2NR91D5
			Dilution Factor: 1						
			Analysis Time..: 18:25						
Iron									
	510	1000	1490	ug/L	97		SW846 6010B	10/23-10/24/03	F2NR91D6
	510	1000	1420	ug/L	90	4.8	SW846 6010B	10/23-10/24/03	F2NR91D7
			Dilution Factor: 1						
			Analysis Time..: 18:24						
Lead									
	ND	500	529	ug/L	106		SW846 6010B	10/23-10/25/03	F2NR91CP
	ND	500	506	ug/L	101	4.4	SW846 6010B	10/23-10/25/03	F2NR91CQ
			Dilution Factor: 1						
			Analysis Time..: 18:25						
Manganese									
	1000	500	1530	ug/L	105		SW846 6010B	10/23-10/25/03	F2NR91CH
	1000	500	1490	ug/L	95	3.2	SW846 6010B	10/23-10/25/03	F2NR91CJ
			Dilution Factor: 1						
			Analysis Time..: 18:25						

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: D3J160213 Matrix.....: WATER
Date Sampled...: 10/14/03 16:20 Date Received..: 10/16/03

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Molybdenum									
	40	1000	1060	ug/L	102		SW846 6010B	10/23-10/25/03	F2NR91CK
	40	1000	1030	ug/L	99	2.7	SW846 6010B	10/23-10/25/03	F2NR91CL
			Dilution Factor: 1						
			Analysis Time..: 18:25						
Nickel									
	34	500	520	ug/L	97		SW846 6010B	10/23-10/25/03	F2NR91CM
	34	500	498	ug/L	93	4.3	SW846 6010B	10/23-10/25/03	F2NR91CN
			Dilution Factor: 1						
			Analysis Time..: 18:25						
Selenium									
	ND	2000	2370	ug/L	118		SW846 6010B	10/23-10/25/03	F2NR91CU
	ND	2000	2260	ug/L	113	4.6	SW846 6010B	10/23-10/25/03	F2NR91CV
			Dilution Factor: 1						
			Analysis Time..: 18:25						
Silver									
	ND	50.0	59.7	ug/L	119		SW846 6010B	10/23-10/25/03	F2NR91DH
	ND	50.0	57.0	ug/L	114	4.7	SW846 6010B	10/23-10/25/03	F2NR91DJ
			Dilution Factor: 1						
			Analysis Time..: 18:25						
Thallium									
	ND	2000	2110	ug/L	105		SW846 6010B	10/23-10/25/03	F2NR91CW
	ND	2000	2030	ug/L	102	3.8	SW846 6010B	10/23-10/25/03	F2NR91CX
			Dilution Factor: 1						
			Analysis Time..: 18:25						
Zinc									
	16	500	546	ug/L	106		SW846 6010B	10/23-10/25/03	F2NR91C0
	16	500	524	ug/L	102	4.1	SW846 6010B	10/23-10/25/03	F2NR91C1
			Dilution Factor: 1						
			Analysis Time..: 18:25						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: D3J160213 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chemical Oxygen Demand (COD)		Work Order #: F29L11AA		MB Lot-Sample #:	D3J230000-361	
	ND	20	mg/L	MCAWW 410.4	10/21/03	3296361
		Dilution Factor: 1				
		Analysis Time..: 16:45				
Chloride		Work Order #: F3HM01AA		MB Lot-Sample #:	D3J170000-566	
	ND	3.0	mg/L	MCAWW 300.0A	10/16/03	3290566
		Dilution Factor: 1				
		Analysis Time..: 13:37				
Fecal Coliform		Work Order #: F3LPV1AA		MB Lot-Sample #:	D3J280000-603	
	ND	1.0	CFU/100m	SM18 9222D Fecal	10/16/03	3301603
		Dilution Factor: 1				
		Analysis Time..: 14:30				
Fluoride		Work Order #: F3HMF1AA		MB Lot-Sample #:	D3J170000-569	
	ND	1.0	mg/L	MCAWW 300.0A	10/16/03	3290569
		Dilution Factor: 1				
		Analysis Time..: 13:37				
Nitrate		Work Order #: F3HNK1AA		MB Lot-Sample #:	D3J170000-567	
	ND	0.50	mg/L	MCAWW 300.0A	10/16/03	3290567
		Dilution Factor: 1				
		Analysis Time..: 13:37				
Nitrite		Work Order #: F3HNG1AA		MB Lot-Sample #:	D3J170000-570	
	ND	0.50	mg/L	MCAWW 300.0A	10/16/03	3290570
		Dilution Factor: 1				
		Analysis Time..: 13:37				
Specific Conductance		Work Order #: F20C11AA		MB Lot-Sample #:	D3J200000-257	
	ND	2.0	umhos/cm	MCAWW 120.1	10/17/03	3293257
		Dilution Factor: 1				
		Analysis Time..: 16:00				
Sulfate		Work Order #: F3HPF1AA		MB Lot-Sample #:	D3J170000-568	
	ND	5.0	mg/L	MCAWW 300.0A	10/16/03	3290568
		Dilution Factor: 1				
		Analysis Time..: 13:37				
Total Coliform		Work Order #: F3LPR1AA		MB Lot-Sample #:	D3J280000-601	
	ND	1.0	CFU/100m	SM18 9222B	10/16/03	3301601
		Dilution Factor: 1				
		Analysis Time..: 15:00				

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METHOD BLANK REPORT

General Chemistry

Client Lot #...: D3J160213 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Cyanide		Work Order #: F288Q1AA		MB Lot-Sample #: D3J230000-416		
	ND	0.010	mg/L	MCAWW 335.3	10/22-10/23/03	3296416
		Dilution Factor: 1				
		Analysis Time..: 13:00				
Total Dissolved Solids		Work Order #: F3T8A1AA		MB Lot-Sample #: D3J300000-251		
	ND	10	mg/L	MCAWW 160.1	10/20/03	3303251
		Dilution Factor: 1				
		Analysis Time..: 17:00				
Total Suspended Solids		Work Order #: F24V01AA		MB Lot-Sample #: D3J210000-676		
	ND	4.0	mg/L	MCAWW 160.2	10/20/03	3294676
		Dilution Factor: 1				
		Analysis Time..: 20:45				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Lot-Sample #...: D3J160213 Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chemical Oxygen Demand (COD)		WO#:F29L11AC-LCS/F29L11AD-LCSD LCS Lot-Sample#: D3J230000-361					
	94	(86 - 114)			MCAWW 410.4	10/21/03	3296361
	94	(86 - 114)	0.0	(0-11)	MCAWW 410.4	10/21/03	3296361
		Dilution Factor: 1			Analysis Time..: 16:45		
Chloride		WO#:F3HM01AC-LCS/F3HM01AD-LCSD LCS Lot-Sample#: D3J170000-566					
	96	(90 - 110)			MCAWW 300.0A	10/16/03	3290566
	96	(90 - 110)	0.88	(0-10)	MCAWW 300.0A	10/16/03	3290566
		Dilution Factor: 1			Analysis Time..: 13:15		
Fluoride		WO#:F3HMF1AC-LCS/F3HMF1AD-LCSD LCS Lot-Sample#: D3J170000-569					
	98	(90 - 110)			MCAWW 300.0A	10/16/03	3290569
	100	(90 - 110)	1.3	(0-10)	MCAWW 300.0A	10/16/03	3290569
		Dilution Factor: 1			Analysis Time..: 13:15		
Nitrate		WO#:F3HNK1AC-LCS/F3HNK1AD-LCSD LCS Lot-Sample#: D3J170000-567					
	95	(90 - 110)			MCAWW 300.0A	10/16/03	3290567
	94	(90 - 110)	0.26	(0-10)	MCAWW 300.0A	10/16/03	3290567
		Dilution Factor: 1			Analysis Time..: 13:15		
Nitrite		WO#:F3HNG1AC-LCS/F3HNG1AD-LCSD LCS Lot-Sample#: D3J170000-570					
	102	(90 - 110)			MCAWW 300.0A	10/16/03	3290570
	99	(90 - 110)	3.2	(0-10)	MCAWW 300.0A	10/16/03	3290570
		Dilution Factor: 1			Analysis Time..: 13:15		
Specific Conductance		WO#:F20C11AC-LCS/F20C11AD-LCSD LCS Lot-Sample#: D3J200000-257					
	101	(89 - 109)			MCAWW 120.1	10/17/03	3293257
	102	(89 - 109)	1.1	(0-7.0)	MCAWW 120.1	10/17/03	3293257
		Dilution Factor: 1			Analysis Time..: 16:00		
Sulfate		WO#:F3HPF1AC-LCS/F3HPF1AD-LCSD LCS Lot-Sample#: D3J170000-568					
	92	(90 - 110)			MCAWW 300.0A	10/16/03	3290568
	92	(90 - 110)	0.43	(0-10)	MCAWW 300.0A	10/16/03	3290568
		Dilution Factor: 1			Analysis Time..: 13:15		
Total Dissolved Solids		WO#:F3T8A1AC-LCS/F3T8A1AD-LCSD LCS Lot-Sample#: D3J300000-251					
	99	(86 - 106)			MCAWW 160.1	10/20/03	3303251
	104	(86 - 106)	4.9	(0-20)	MCAWW 160.1	10/20/03	3303251
		Dilution Factor: 1			Analysis Time..: 00:00		

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Lot-Sample #...: D3J160213 Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Suspended Solids		WO#:F24V01AC-LCS/F24V01AD-LCSD				LCS Lot-Sample#: D3J210000-676	
	96	(86 - 114)			MCAWW 160.2	10/20/03	3294676
	92	(86 - 114)	3.8	(0-20)	MCAWW 160.2	10/20/03	3294676

Dilution Factor: 1 Analysis Time..: 20:45

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Lot-Sample #...: D3J160213 Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chemical Oxygen Demand (COD)			WO#:F29L11AC-LCS/F29L11AD-LCSD			LCS Lot-Sample#: D3J230000-361		
	100	94.1	mg/L	94		MCAWW 410.4	10/21/03	3296361
	100	94.1	mg/L	94	0.0	MCAWW 410.4	10/21/03	3296361
			Dilution Factor: 1			Analysis Time..: 16:45		
Chloride			WO#:F3HM01AC-LCS/F3HM01AD-LCSD			LCS Lot-Sample#: D3J170000-566		
	20.0	19.3	mg/L	96		MCAWW 300.0A	10/16/03	3290566
	20.0	19.1	mg/L	96	0.88	MCAWW 300.0A	10/16/03	3290566
			Dilution Factor: 1			Analysis Time..: 13:15		
Fluoride			WO#:F3HMF1AC-LCS/F3HMF1AD-LCSD			LCS Lot-Sample#: D3J170000-569		
	4.00	3.93	mg/L	98		MCAWW 300.0A	10/16/03	3290569
	4.00	3.98	mg/L	100	1.3	MCAWW 300.0A	10/16/03	3290569
			Dilution Factor: 1			Analysis Time..: 13:15		
Nitrate			WO#:F3HNK1AC-LCS/F3HNK1AD-LCSD			LCS Lot-Sample#: D3J170000-567		
	4.00	3.79	mg/L	95		MCAWW 300.0A	10/16/03	3290567
	4.00	3.78	mg/L	94	0.26	MCAWW 300.0A	10/16/03	3290567
			Dilution Factor: 1			Analysis Time..: 13:15		
Nitrite			WO#:F3HNG1AC-LCS/F3HNG1AD-LCSD			LCS Lot-Sample#: D3J170000-570		
	4.00	4.08	mg/L	102		MCAWW 300.0A	10/16/03	3290570
	4.00	3.95	mg/L	99	3.2	MCAWW 300.0A	10/16/03	3290570
			Dilution Factor: 1			Analysis Time..: 13:15		
Specific Conductance			WO#:F20C11AC-LCS/F20C11AD-LCSD			LCS Lot-Sample#: D3J200000-257		
	1010	1020	umhos/cm	101		MCAWW 120.1	10/17/03	3293257
	1010	1030	umhos/cm	102	1.1	MCAWW 120.1	10/17/03	3293257
			Dilution Factor: 1			Analysis Time..: 16:00		
Sulfate			WO#:F3HPF1AC-LCS/F3HPF1AD-LCSD			LCS Lot-Sample#: D3J170000-568		
	20.0	18.4	mg/L	92		MCAWW 300.0A	10/16/03	3290568
	20.0	18.3	mg/L	92	0.43	MCAWW 300.0A	10/16/03	3290568
			Dilution Factor: 1			Analysis Time..: 13:15		
Total Dissolved Solids			WO#:F3T8A1AC-LCS/F3T8A1AD-LCSD			LCS Lot-Sample#: D3J300000-251		
	500	494	mg/L	99		MCAWW 160.1	10/20/03	3303251
	500	519	mg/L	104	4.9	MCAWW 160.1	10/20/03	3303251
			Dilution Factor: 1			Analysis Time..: 00:00		

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LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Lot-Sample #...: D3J160213 Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Suspended Solids		WO#:F24V01AC-LCS/F24V01AD-LCSD				LCS Lot-Sample#: D3J210000-676		
	250	239	mg/L	96		MCAWW 160.2	10/20/03	3294676
	250	230	mg/L	92	3.8	MCAWW 160.2	10/20/03	3294676

Dilution Factor: 1 Analysis Time..: 20:45

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: D3J160213 Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Cyanide		Work Order #: F288Q1AC	LCS Lot-Sample#: D3J230000-416		
	99	(89 - 109)	MCAWW 335.3	10/22-10/23/03	3296416

Dilution Factor: 1 Analysis Time..: 13:00

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: D3J160213 Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Cyanide			Work Order #:	F288Q1AC	LCS Lot-Sample#:	D3J230000-416	
	0.100	0.0987	mg/L	99	MCAWW 335.3	10/22-10/23/03	3296416
			Dilution Factor: 1		Analysis Time..: 13:00		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: D3J160213 Matrix.....: WATER
Date Sampled...: 10/14/03 16:55 Date Received..: 10/16/03

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chemical Oxygen Demand (COD)		WO#: F2NR91EK-MS/F2NR91EL-MSD				MS Lot-Sample #: D3J160213-001	
	86	(74 - 109)			MCAWW 410.4	10/21/03	3296361
	77	(74 - 109)	8.2	(0-11)	MCAWW 410.4	10/21/03	3296361
		Dilution Factor: 1					
		Analysis Time..: 16:45					
Chloride		WO#: F2NHE1CD-MS/F2NHE1CE-MSD				MS Lot-Sample #: D3J160175-001	
	109	(80 - 120)			MCAWW 300.0A	10/16/03	3290566
	111	(80 - 120)	0.91	(0-10)	MCAWW 300.0A	10/16/03	3290566
		Dilution Factor: 1					
		Analysis Time..: 15:35					
Chloride		WO#: F2NR91C6-MS/F2NR91C7-MSD				MS Lot-Sample #: D3J160213-001	
	108	(80 - 120)			MCAWW 300.0A	10/16/03	3290566
	108	(80 - 120)	0.52	(0-10)	MCAWW 300.0A	10/16/03	3290566
		Dilution Factor: 1					
		Analysis Time..: 18:06					
Fluoride		WO#: F2NR91C8-MS/F2NR91C9-MSD				MS Lot-Sample #: D3J160213-001	
	131 N	(80 - 120)			MCAWW 300.0A	10/16/03	3290569
	130 N	(80 - 120)	0.27	(0-10)	MCAWW 300.0A	10/16/03	3290569
		Dilution Factor: 1					
		Analysis Time..: 16:40					
Nitrate		WO#: F2NHE1CF-MS/F2NHE1CG-MSD				MS Lot-Sample #: D3J160175-001	
	111	(80 - 120)			MCAWW 300.0A	10/16/03	3290567
	113	(80 - 120)	1.5	(0-10)	MCAWW 300.0A	10/16/03	3290567
		Dilution Factor: 1					
		Analysis Time..: 15:35					
Nitrate		WO#: F2NR91DA-MS/F2NR91DC-MSD				MS Lot-Sample #: D3J160213-001	
	107	(80 - 120)			MCAWW 300.0A	10/16/03	3290567
	107	(80 - 120)	0.48	(0-10)	MCAWW 300.0A	10/16/03	3290567
		Dilution Factor: 1					
		Analysis Time..: 16:40					
Nitrite		WO#: F2NR91DD-MS/F2NR91DE-MSD				MS Lot-Sample #: D3J160213-001	
	112	(80 - 120)			MCAWW 300.0A	10/16/03	3290570
	115	(80 - 120)	2.5	(0-10)	MCAWW 300.0A	10/16/03	3290570
		Dilution Factor: 1					
		Analysis Time..: 17:33					

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: D3J160213 Matrix.....: WATER
Date Sampled...: 10/14/03 16:55 Date Received..: 10/16/03

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Sulfate		WO#: F2NHE1CH-MS/F2NHE1CJ-MSD				MS Lot-Sample #: D3J160175-001	
	112	(80 - 120)			MCAWW 300.0A	10/16/03	3290568
	113	(80 - 120)	0.69	(0-10)	MCAWW 300.0A	10/16/03	3290568
		Dilution Factor: 1					
		Analysis Time..: 15:35					
Sulfate		WO#: F2NR91DF-MS/F2NR91DG-MSD				MS Lot-Sample #: D3J160213-001	
	114 I	(80 - 120)			MCAWW 300.0A	10/16/03	3290568
	115 I	(80 - 120)	0.47	(0-10)	MCAWW 300.0A	10/16/03	3290568
		Dilution Factor: 1					
		Analysis Time..: 18:06					
Total Cyanide		WO#: F2NR91EH-MS/F2NR91EJ-MSD				MS Lot-Sample #: D3J160213-001	
	95	(78 - 120)			MCAWW 335.3	10/22-10/23/03	3296416
	96	(78 - 120)	0.62	(0-20)	MCAWW 335.3	10/22-10/23/03	3296416
		Dilution Factor: 1					
		Analysis Time..: 13:00					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

I Estimated result. Result concentration exceeds the calibration range.

N Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: D3J160213 Matrix.....: WATER
Date Sampled...: 10/14/03 16:55 Date Received..: 10/16/03

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chemical Oxygen Demand (COD)			WO#: F2NR91EK-MS/F2NR91EL-MSD				MS Lot-Sample #: D3J160213-001		
	12	50.0	55.1	mg/L	86		MCAWW 410.4	10/21/03	3296361
	12	50.0	50.7	mg/L	77	8.2	MCAWW 410.4	10/21/03	3296361
			Dilution Factor: 1						
			Analysis Time..: 16:45						
Chloride			WO#: F2NHE1CD-MS/F2NHE1CE-MSD				MS Lot-Sample #: D3J160175-001		
	11	25.0	38.1	mg/L	109		MCAWW 300.0A	10/16/03	3290566
	11	25.0	38.5	mg/L	111	0.91	MCAWW 300.0A	10/16/03	3290566
			Dilution Factor: 1						
			Analysis Time..: 15:35						
Chloride			WO#: F2NR91C6-MS/F2NR91C7-MSD				MS Lot-Sample #: D3J160213-001		
	1600	2500	4300	mg/L	108		MCAWW 300.0A	10/16/03	3290566
	1600	2500	4320	mg/L	108	0.52	MCAWW 300.0A	10/16/03	3290566
			Dilution Factor: 1						
			Analysis Time..: 18:06						
Fluoride			WO#: F2NR91C8-MS/F2NR91C9-MSD				MS Lot-Sample #: D3J160213-001		
	ND	25.0	32.7 N	mg/L	131		MCAWW 300.0A	10/16/03	3290569
	ND	25.0	32.6 N	mg/L	130	0.27	MCAWW 300.0A	10/16/03	3290569
			Dilution Factor: 1						
			Analysis Time..: 16:40						
Nitrate			WO#: F2NHE1CF-MS/F2NHE1CG-MSD				MS Lot-Sample #: D3J160175-001		
	2.5	5.00	8.01	mg/L	111		MCAWW 300.0A	10/16/03	3290567
	2.5	5.00	8.13	mg/L	113	1.5	MCAWW 300.0A	10/16/03	3290567
			Dilution Factor: 1						
			Analysis Time..: 15:35						
Nitrate			WO#: F2NR91DA-MS/F2NR91DC-MSD				MS Lot-Sample #: D3J160213-001		
	ND	25.0	26.8	mg/L	107		MCAWW 300.0A	10/16/03	3290567
	ND	25.0	26.7	mg/L	107	0.48	MCAWW 300.0A	10/16/03	3290567
			Dilution Factor: 1						
			Analysis Time..: 16:40						
Nitrite			WO#: F2NR91DD-MS/F2NR91DE-MSD				MS Lot-Sample #: D3J160213-001		
	ND	100	112	mg/L	112		MCAWW 300.0A	10/16/03	3290570
	ND	100	115	mg/L	115	2.5	MCAWW 300.0A	10/16/03	3290570
			Dilution Factor: 1						
			Analysis Time..: 17:33						

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: D3J160213 Matrix.....: WATER
Date Sampled...: 10/14/03 16:55 Date Received..: 10/16/03

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Sulfate			WO#: F2NHE1CH-MS/F2NHE1CJ-MSD				MS Lot-Sample #: D3J160175-001		
	11	25.0	38.8	mg/L	112		MCAWW 300.0A	10/16/03	3290568
	11	25.0	39.1	mg/L	113	0.69	MCAWW 300.0A	10/16/03	3290568
			Dilution Factor: 1						
			Analysis Time..: 15:35						
Sulfate			WO#: F2NR91DF-MS/F2NR91DG-MSD				MS Lot-Sample #: D3J160213-001		
	2200	2500	5050 I	mg/L	114		MCAWW 300.0A	10/16/03	3290568
	2200	2500	5070 I	mg/L	115	0.47	MCAWW 300.0A	10/16/03	3290568
			Dilution Factor: 1						
			Analysis Time..: 18:06						
Total Cyanide			WO#: F2NR91EH-MS/F2NR91EJ-MSD				MS Lot-Sample #: D3J160213-001		
	ND	0.100	0.0951	mg/L	95		MCAWW 335.3	10/22-10/23/03	3296416
	ND	0.100	0.0957	mg/L	96	0.62	MCAWW 335.3	10/22-10/23/03	3296416
			Dilution Factor: 1						
			Analysis Time..: 13:00						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

I Estimated result. Result concentration exceeds the calibration range.

N Spiked analyte recovery is outside stated control limits.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: D3J160213 Work Order #...: F2NR9-SMP Matrix.....: WATER
F2NR9-DUP
Date Sampled...: 10/14/03 16:20 Date Received..: 10/16/03

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Specific Conductance						SD Lot-Sample #:	D3J160213-001	
	6800	6800	umhos/cm	0.15	(0-7.0)	MCAWW 120.1	10/17/03	3293257

Dilution Factor: 1 Analysis Time..: 16:00

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: D3J160213 Work Order #...: F2RJM-SMP F2RJM-DUP Matrix.....: WATER

Date Sampled...: 10/14/03 16:10 Date Received..: 10/16/03

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Suspended Solids						SD Lot-Sample #: D3J170113-002		
	73 Q	78 Q	mg/L	7.4	(0-20)	MCAWW 160.2	10/20/03	3294676

Dilution Factor: 2 Analysis Time..: 20:45

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: D3J160213 Work Order #...: F2NT3-SMP F2NT3-DUP Matrix.....: WATER

Date Sampled...: 10/15/03 17:40 Date Received..: 10/16/03

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Coliform						SD Lot-Sample #:	D3J160213-002	
	ND	ND	CFU/100m	0	(0-20)	SM18 9222B	10/16/03	3301601
			Dilution Factor: 1			Analysis Time..: 15:00		
Fecal Coliform						SD Lot-Sample #:	D3J160213-002	
	ND	ND	CFU/100m	0	(0-20)	SM18 9222D Fecal	10/16/03	3301603
			Dilution Factor: 1			Analysis Time..: 14:30		

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: D3J160213 Work Order #...: F2KGH-SMP Matrix.....: WATER
F2KGH-DUP

Date Sampled...: 10/14/03 08:12 Date Received..: 10/15/03

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Dissolved Solids						SD Lot-Sample #:	D3J150159-007	
	450	470	mg/L	3.9	(0-20)	MCAWW 160.1	10/20/03	3303251

Dilution Factor: 1 Analysis Time..: 17:00

Severn Trent Laboratories, Inc. 5055 Yarrow Street Arvada, CO 80002

COOK-JOYCE INC. / L.E.S.	Project Manager: Doug Granger (CJI)	Date: 10-14-03	Chain of Custody Number: 281514
Address: 812 W. 11th	Telephone Number (Area Code)/Fax Number: 512-474-9097	Lab Number:	Page ___ of ___
City: AUSTIN; State: TX; Zip Code: 78701	Site Contact: Doug Granger; Lab Contact:		
Project Name and Location (State): LES. MW2	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.: 03070			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil		Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Metals	Analysis (Attach list if more space is needed): Volatiles	Semivolatiles	Metals	OC Pesticides	OP Pesticides	PCB	Cyanide	COD	TSS	Fecal Coliform	Total Coliform	General Chemistry	Trip Blank	Special Instructions/ Conditions of Receipt
L.E.S. MW2	10/14/03	1620		✓				✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
L.E.S. MW2	10/15/03	1740		✓										✓										✓	✓			

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☒ Archive For 3 Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☒ 21 Days ☐ Other ___

QC Requirements (Specify):

	Date	Time		Date	Time
Relinquished By: [signature]	10/15/03	1800	1. Received By: [signature]	10/16/03	0915
Relinquished By:			2. Received By:		
Relinquished By:			3. Received By:		

Comments:

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

SEVERN TRENT STL

STL Denver
4955 Yarrow Street
Arvada, CO 80002

Tel: 303 736 0100 Fax: 303 431 7171
www.stl-inc.com

ANALYTICAL REPORT

URENCO Project

Lot #: D3K120128

Purchase Order 018511-0403003

John Shaw

Lockwood Greene
1500 International Drive
Spartanburg, SC 29304

STL DENVER

Gail DeRuzzo
Project Manager

December 22, 2003

Table Of Contents

Standard Deliverables

Report Contents	Total Number of Pages
Standard Deliverables *The Cover Letter and the Report Cover page are considered integral parts of this Standard Deliverable package. This report is incomplete unless all pages indicated in this Table of Contents are included.*	

- **Table of Contents**
- **Case Narrative**
- **Executive Summary – Detection Highlights**
- **Methods Summary**
- **Method/Analyst Summary**
- **Lot Sample Summary**
- **Analytical Results**
- **QC Data Association Summary**
- **Chain-of-Custody**

Lot #: D3K120128

Case Narrative

Enclosed is the report for two samples received at STL's Denver laboratory on November 12, 2003. The results included in this report have been reviewed for compliance with STL Denver's Laboratory Quality Manual. The test results shown in this report meet all requirements of NELAC and any exceptions are noted below.

Dilution factors and footnotes have been provided to assist in the interpretation of the results. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interferences or analytes present at concentrations above the linear calibration curve, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

STL utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameters listed on the analytical methods summary page in accordance with the methods indicated. A summary of quality control parameters is provided below.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Quality Control Summary for Lot D3K120128

Sample Receiving

- The cooler temperature upon receipt at the Denver laboratory was 3.1° C.
- All sample bottles were received in acceptable condition.

Holding Times

- All holding times were met.

Trip Blank

- Methylene chloride was detected in the Trip Blank below the reporting limit. The detection in the associated sample may be due to laboratory or field contamintation.

Method Blanks

- The analytes Barium, Boron, and Silver Method 6010B were detected in the Method Blanks below the established reporting limits. No corrective action is taken for any values in Method Blanks that are below the requested reporting limits. In addition the sample results for Barium and Boron were greater than ten times the method blank values.
- All other Method Blanks were within established control limits.

Laboratory Control Samples

- All Laboratory Control Samples were within established control limits.

Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

- The Matrix Spike and/or Matrix Spike Duplicate recoveries were outside control limits for Antimony and Molybdenum Method 6010B in QC batch 3317761. Because the corresponding Laboratory

Control Sample and the Method Blank sample were within control limits, these anomalies may be due to matrix interference.

- Due to the result concentration exceeding the calibration range the MS/MSD results for Sulfate are estimated.

- The percent recoveries of the MS/MSD and/or the relative percent difference were not calculated for Aluminum, Iron, and Manganese in Method 6010B because the sample concentrations were greater than four times the spike amounts.

- The method required MS/MSD could not be performed for Methods 8270C, 8081, and 8082 due to insufficient sample volume, however, LCS/LCSD pairs were analyzed to demonstrate method precision.

- All other MS and MSD samples were within established control limits.

Organics

- The surrogate recovery for Tetrachloro-m-xylene was above the upper control limit for sample LES MW2 by Method 8081A. The other surrogate, Decachlorobiphenyl, was in control. The sample results are still considered valid because no target analytes were detected. Matrix interference was evident.

- The second source Initial Calibration Verification (ICV) standard for Methyl methanesulfonate by Method 8270C exceeded the percent difference (%D) limits. However, the overall mean percent difference for all compounds is within control limits, therefore, the ICV is also in control and no corrective action was necessary.

- The Continuing Calibration Verification (CCV) standards for Demeton-S, EPN, and Naled by Method 8141A exceeded the percent difference limits. However, the overall mean percent difference is within control limits, therefore, the CCV is also in control and no corrective action was necessary. Additionally, the associated sample was non-detect.

Inorganics

- The method required sample duplicate could not be performed for Fecal Coliform due to insufficient sample volume.

- The serial dilution of a digestate in the analytical batch for Barium and Zinc were outside control limits indicating physical and chemical interferences. The associated sample results are flagged "L".

EXECUTIVE SUMMARY - Detection Highlights

D3K120128

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
LES MW2 11/11/03 12:00 001				
Silver	0.89 B,J	10	ug/L	SW846 6010B
Aluminum	58 B	100	ug/L	SW846 6010B
Barium	16 J,L	10	ug/L	SW846 6010B
Boron	1700 J	100	ug/L	SW846 6010B
Cobalt	0.84 B	10	ug/L	SW846 6010B
Chromium	3.6 B	10	ug/L	SW846 6010B
Copper	4.0 B	10	ug/L	SW846 6010B
Iron	35 B	100	ug/L	SW846 6010B
Manganese	670	10	ug/L	SW846 6010B
Molybdenum	39	20	ug/L	SW846 6010B
Zinc	7.8 B,L	20	ug/L	SW846 6010B
Methylene chloride	0.28 J	5.0	ug/L	SW846 8260B
Specific Conductance	7200	2.0	umhos/cm	MCAWW 120.1
Total Dissolved Solids	6000 Q	40	mg/L	MCAWW 160.1
Total Suspended Solids	2.8 B	4.0	mg/L	MCAWW 160.2
Chloride	1800 Q	300	mg/L	MCAWW 300.0A
Sulfate	2400 Q	500	mg/L	MCAWW 300.0A
Chemical Oxygen Demand (COD)	14 B	20	mg/L	MCAWW 410.4
TRIP BLANK 11/11/03 002				
Methylene chloride	0.48 J	5.0	ug/L	SW846 8260B

METHODS SUMMARY

D3K120128

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Chemical Oxygen Demand	MCAWW 410.4	MCAWW 410.4
Chloride	MCAWW 300.0A	MCAWW 300.0A
F. Coliform (Enumeration)	SM18 9222D Feca	SM18 9222D
Filterable Residue (TDS)	MCAWW 160.1	MCAWW 160.1
Fluoride	MCAWW 300.0A	MCAWW 300.0A
Inductively Coupled Plasma (ICP) Metals	SW846 6010B	SW846 3010A
Mercury in Liquid Waste (Manual Cold-Vapor)	SW846 7470A	SW846 7470A
Nitrate as N	MCAWW 300.0A	MCAWW 300.0A
Nitrite as N	MCAWW 300.0A	MCAWW 300.0A
Non-Filterable Residue (TSS)	MCAWW 160.2	MCAWW 160.2
Organochlorine Pesticides	SW846 8081A	SW846 3510C
Organophosphorous Compounds by GC	SW846 8141A	SW846 3510
PCBs by SW-846 8082	SW846 8082	SW846 3510C
Semivolatile Organic Compounds by GC/MS	SW846 8270C	SW846 3520C
Specific Conductance	MCAWW 120.1	MCAWW 120.1
Sulfate	MCAWW 300.0A	MCAWW 300.0A
T. Coliform (Enemeration)	SM18 9222B	SM18 9222B
Total Cyanide	MCAWW 335.3	MCAWW 335.3
Volatile Organics by GC/MS	SW846 8260B	SW846 5030B/826

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SM18 "Standard Methods for the Examination of Water and Wastewater", 18th Edition, 1992.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

METHOD / ANALYST SUMMARY

D3K120128

ANALYTICAL METHOD	ANALYST	ANALYST ID
MCAWW 120.1	Nicole Dean	008504
MCAWW 160.1	Mark Angerhofer	005823
MCAWW 160.2	Claire Likar	004382
MCAWW 300.0A	Andrita Scofield	004409
MCAWW 335.3	Ewa Kudla	001167
MCAWW 410.4	Nicole Dean	008504
SM18 9222B	Maria Fayard	002596
SM18 9222D Fecal	Maria Fayard	002596
SW846 6010B	Kristen Roda	005692
SW846 6010B	Lynn-Anne Trudell	006645
SW846 7470A	Kacey Ono	003371
SW846 8081A	Steve Szocik	002410
SW846 8082	Sonya Dacar	011595
SW846 8141A	Steve Szocik	002410
SW846 8260B	Greg Meier	006004
SW846 8270C	David Kidd	007536

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SM18 "Standard Methods for the Examination of Water and Wastewater", 18th Edition, 1992.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

D3K120128

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
F4L7C	001	LES MW2	11/11/03	12:00
F4L7W	002	TRIP BLANK	11/11/03	

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

LOCKWOOD GREENE

Client Sample ID: LES MW2

GC/MS Volatiles

Lot-Sample #...: D3K120128-001 Work Order #...: F4L7C1A8 Matrix.....: WATER
Date Sampled...: 11/11/03 12:00 Date Received..: 11/12/03
Prep Date.....: 11/21/03 Analysis Date..: 11/21/03
Prep Batch #...: 3327096 Analysis Time..: 15:39
Dilution Factor: 1

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	10	ug/L	2.5
Benzene	ND	1.0	ug/L	0.17
Bromodichloromethane	ND	1.0	ug/L	0.20
Bromoform	ND	1.0	ug/L	0.23
Bromomethane	ND	2.0	ug/L	0.22
2-Butanone (MEK)	ND	5.0	ug/L	2.0
Carbon tetrachloride	ND	1.0	ug/L	0.20
Chlorobenzene	ND	1.0	ug/L	0.13
Chloroethane	ND	2.0	ug/L	0.18
Chloroform	ND	1.0	ug/L	0.17
Chloromethane	ND	2.0	ug/L	0.91
Dibromomethane	ND	1.0	ug/L	0.31
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	0.18
1,2-Dichlorobenzene	ND	1.0	ug/L	0.15
1,3-Dichlorobenzene	ND	1.0	ug/L	0.13
1,4-Dichlorobenzene	ND	1.0	ug/L	0.16
Dichlorodifluoromethane	ND	2.0	ug/L	0.22
1,1-Dichloroethane	ND	1.0	ug/L	0.22
1,2-Dichloroethane	ND	1.0	ug/L	0.26
1,1-Dichloroethene	ND	1.0	ug/L	0.23
1,2-Dichloroethene (total)	ND	1.0	ug/L	0.24
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.14
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.15
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.19
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.20
Ethylbenzene	ND	1.0	ug/L	0.12
2-Hexanone	ND	5.0	ug/L	1.7
Methylene chloride	0.28 J	5.0	ug/L	0.21
4-Methyl-2-pentanone	ND	5.0	ug/L	0.98
Styrene	ND	1.0	ug/L	0.14
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.21
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.21
Tetrachloroethene	ND	1.0	ug/L	0.26
Toluene	ND	1.0	ug/L	0.15
1,2,4-Trichlorobenzene	ND	1.0	ug/L	0.21

(Continued on next page)

LOCKWOOD GREENE

Client Sample ID: LES MW2

GC/MS Volatiles

Lot-Sample #...: D3K120128-001 Work Order #...: F4L7C1A8 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,1-Trichloroethane	ND	1.0	ug/L	0.16
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.16
Trichlorofluoromethane	ND	2.0	ug/L	0.24
1,2,3-Trichloropropane	ND	1.0	ug/L	0.33
Vinyl chloride	ND	1.0	ug/L	0.19
Xylenes (total)	ND	2.0	ug/L	0.41
n-Butylbenzene	ND	1.0	ug/L	0.21
sec-Butylbenzene	ND	1.0	ug/L	0.23
Isopropylbenzene	ND	1.0	ug/L	0.17
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.15
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.16
n-Propylbenzene	ND	1.0	ug/L	0.17
tert-Butylbenzene	ND	1.0	ug/L	0.17
Dibromochloromethane	ND	1.0	ug/L	0.19
2-Chlorotoluene	ND	1.0	ug/L	0.17
4-Chlorotoluene	ND	1.0	ug/L	0.21
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	ug/L	0.47
1,3-Dichloropropane	ND	1.0	ug/L	0.22
2,2-Dichloropropane	ND	5.0	ug/L	0.18
1,1-Dichloropropene	ND	1.0	ug/L	0.19
Hexachlorobutadiene	ND	1.0	ug/L	0.18
4-Isopropyltoluene	ND	1.0	ug/L	0.20
Methyl tert-butyl ether	ND	5.0	ug/L	0.38
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.21
m-Xylene & p-Xylene	ND	2.0	ug/L	0.27
o-Xylene	ND	1.0	ug/L	0.15
Bromobenzene	ND	1.0	ug/L	0.17
Bromochloromethane	ND	1.0	ug/L	0.27
Naphthalene	ND	1.0	ug/L	0.50

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	96	(76 - 116)
1,2-Dichloroethane-d4	107	(59 - 129)
4-Bromofluorobenzene	91	(74 - 114)
Toluene-d8	98	(76 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

LOCKWOOD GREENE

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #...: D3K120128-002 Work Order #...: F4L7W1AA Matrix.....: WATER
Date Sampled...: 11/11/03 Date Received..: 11/12/03
Prep Date.....: 11/21/03 Analysis Date..: 11/21/03
Prep Batch #...: 3327096 Analysis Time..: 16:03
Dilution Factor: 1

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	10	ug/L	2.5
Benzene	ND	1.0	ug/L	0.17
Bromodichloromethane	ND	1.0	ug/L	0.20
Bromoform	ND	1.0	ug/L	0.23
Bromomethane	ND	2.0	ug/L	0.22
2-Butanone (MEK)	ND	5.0	ug/L	2.0
Carbon tetrachloride	ND	1.0	ug/L	0.20
Chlorobenzene	ND	1.0	ug/L	0.13
Chloroethane	ND	2.0	ug/L	0.18
Chloroform	ND	1.0	ug/L	0.17
Chloromethane	ND	2.0	ug/L	0.91
Dibromomethane	ND	1.0	ug/L	0.31
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	0.18
1,2-Dichlorobenzene	ND	1.0	ug/L	0.15
1,3-Dichlorobenzene	ND	1.0	ug/L	0.13
1,4-Dichlorobenzene	ND	1.0	ug/L	0.16
Dichlorodifluoromethane	ND	2.0	ug/L	0.22
1,1-Dichloroethane	ND	1.0	ug/L	0.22
1,2-Dichloroethane	ND	1.0	ug/L	0.26
1,1-Dichloroethene	ND	1.0	ug/L	0.23
1,2-Dichloroethene (total)	ND	1.0	ug/L	0.24
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.14
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.15
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.19
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.20
Ethylbenzene	ND	1.0	ug/L	0.12
2-Hexanone	ND	5.0	ug/L	1.7
Methylene chloride	0.48 J	5.0	ug/L	0.21
4-Methyl-2-pentanone	ND	5.0	ug/L	0.98
Styrene	ND	1.0	ug/L	0.14
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.21
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.21
Tetrachloroethene	ND	1.0	ug/L	0.26
Toluene	ND	1.0	ug/L	0.15
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.21

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LOCKWOOD GREENE

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #...: D3K120128-002 Work Order #...: F4L7W1AA Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,1-Trichloroethane	ND	1.0	ug/L	0.16
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.16
Trichlorofluoromethane	ND	2.0	ug/L	0.24
1,2,3-Trichloropropane	ND	1.0	ug/L	0.33
Vinyl chloride	ND	1.0	ug/L	0.19
Xylenes (total)	ND	2.0	ug/L	0.41
n-Butylbenzene	ND	1.0	ug/L	0.21
sec-Butylbenzene	ND	1.0	ug/L	0.23
Isopropylbenzene	ND	1.0	ug/L	0.17
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.15
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.16
n-Propylbenzene	ND	1.0	ug/L	0.17
tert-Butylbenzene	ND	1.0	ug/L	0.17
Dibromochloromethane	ND	1.0	ug/L	0.19
2-Chlorotoluene	ND	1.0	ug/L	0.17
4-Chlorotoluene	ND	1.0	ug/L	0.21
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	ug/L	0.47
1,3-Dichloropropane	ND	1.0	ug/L	0.22
2,2-Dichloropropane	ND	5.0	ug/L	0.18
1,1-Dichloropropene	ND	1.0	ug/L	0.19
Hexachlorobutadiene	ND	1.0	ug/L	0.18
4-Isopropyltoluene	ND	1.0	ug/L	0.20
Methyl tert-butyl ether	ND	5.0	ug/L	0.38
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.21
m-Xylene & p-Xylene	ND	2.0	ug/L	0.27
o-Xylene	ND	1.0	ug/L	0.15
Bromobenzene	ND	1.0	ug/L	0.17
Bromochloromethane	ND	1.0	ug/L	0.27
Naphthalene	ND	1.0	ug/L	0.50

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	95	(76 - 116)
1,2-Dichloroethane-d4	100	(59 - 129)
4-Bromofluorobenzene	93	(74 - 114)
Toluene-d8	102	(76 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

LOCKWOOD GREENE

Client Sample ID: LES MW2

GC/MS Semivolatiles

Lot-Sample #...: D3K120128-001 Work Order #...: F4L7C1A9 Matrix.....: WATER
Date Sampled...: 11/11/03 12:00 Date Received..: 11/12/03
Prep Date.....: 11/14/03 Analysis Date..: 12/11/03
Prep Batch #...: 3318453 Analysis Time..: 02:25
Dilution Factor: 1

Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug/L	0.60
Acenaphthylene	ND	10	ug/L	0.60
Acetophenone	ND	10	ug/L	2.0
2-Acetylaminofluorene	ND	100	ug/L	1.0
4-Aminobiphenyl	ND	50	ug/L	1.0
Aniline	ND	10	ug/L	4.0
Anthracene	ND	10	ug/L	3.0
Aramite	ND	20	ug/L	2.0
Benzo(a)anthracene	ND	10	ug/L	0.80
Benzo(b)fluoranthene	ND	10	ug/L	0.90
Benzo(k)fluoranthene	ND	10	ug/L	2.0
Benzo(ghi)perylene	ND	10	ug/L	1.0
Benzo(a)pyrene	ND	10	ug/L	0.80
Benzyl alcohol	ND	10	ug/L	1.0
bis(2-Chloroethoxy) methane	ND	10	ug/L	0.90
bis(2-Chloroethyl)-ether	ND	10	ug/L	3.0
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	0.90
4-Bromophenyl phenyl ether	ND	10	ug/L	0.70
Butyl benzyl phthalate	ND	10	ug/L	1.0
4-Chloroaniline	ND	10	ug/L	3.0
Chlorobenzilate	ND	10	ug/L	1.0
4-Chloro-3-methylphenol	ND	10	ug/L	0.80
2-Chloronaphthalene	ND	10	ug/L	0.70
2-Chlorophenol	ND	10	ug/L	0.80
4-Chlorophenyl phenyl ether	ND	10	ug/L	0.60
Chrysene	ND	10	ug/L	0.80
Diallate	ND	20	ug/L	2.0
Dibenz(a,h)anthracene	ND	10	ug/L	0.90
Dibenzofuran	ND	10	ug/L	0.60
Di-n-butyl phthalate	ND	10	ug/L	0.80
1,2-Dichlorobenzene	ND	10	ug/L	0.80
1,3-Dichlorobenzene	ND	10	ug/L	0.80
1,4-Dichlorobenzene	ND	10	ug/L	1.0

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LOCKWOOD GREENE

Client Sample ID: LES MW2

GC/MS Semivolatiles

Lot-Sample #...: D3K120128-001 Work Order #...: F4L7C1A9 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
3,3'-Dichlorobenzidine	ND	50	ug/L	8.0
2,4-Dichlorophenol	ND	10	ug/L	0.70
2,6-Dichlorophenol	ND	10	ug/L	1.0
Diethyl phthalate	ND	10	ug/L	0.70
Dimethoate	ND	20	ug/L	2.0
7,12-Dimethylbenz(a)-anthracene	ND	20	ug/L	2.0
3,3'-Dimethylbenzidine	ND	20	ug/L	10
2,4-Dimethylphenol	ND	10	ug/L	4.0
Dimethyl phthalate	ND	10	ug/L	0.80
1,3-Dinitrobenzene	ND	10	ug/L	2.0
4,6-Dinitro-2-methylphenol	ND	50	ug/L	6.0
2,4-Dinitrophenol	ND	50	ug/L	6.0
2,4-Dinitrotoluene	ND	10	ug/L	1.0
2,6-Dinitrotoluene	ND	10	ug/L	0.80
Di-n-octyl phthalate	ND	10	ug/L	1.0
Diphenylamine	ND	10	ug/L	1.0
Disulfoton	ND	50	ug/L	6.0
Ethyl methanesulfonate	ND	10	ug/L	2.0
Fluoranthene	ND	10	ug/L	0.70
Fluorene	ND	10	ug/L	0.60
Hexachlorobenzene	ND	10	ug/L	0.80
Hexachlorobutadiene	ND	10	ug/L	1.0
Hexachlorocyclopentadiene	ND	50	ug/L	5.0
Hexachloroethane	ND	10	ug/L	0.80
Hexachloropropene	ND	100	ug/L	1.0
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.80
Isodrin	ND	10	ug/L	3.0
Isophorone	ND	10	ug/L	0.90
Isosafrole	ND	20	ug/L	2.0
Methapyrilene	ND	50	ug/L	30
3-Methylcholanthrene	ND	20	ug/L	3.0
Methyl methanesulfonate	ND	10	ug/L	2.0
2-Methylnaphthalene	ND	10	ug/L	0.80
Methyl parathion	ND	50	ug/L	2.0
2-Methylphenol	ND	10	ug/L	0.90
3-Methylphenol & 4-Methylphenol	ND	10	ug/L	0.80
Naphthalene	ND	10	ug/L	0.80
1,4-Naphthoquinone	ND	50	ug/L	2.0
1-Naphthylamine	ND	10	ug/L	2.0

(Continued on next page)

LOCKWOOD GREENE

Client Sample ID: LES MW2

GC/MS Semivolatiles

Lot-Sample #...: D3K120128-001 Work Order #...: F4L7C1A9 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2-Naphthylamine	ND	10	ug/L	1.0
2-Nitroaniline	ND	50	ug/L	0.90
3-Nitroaniline	ND	50	ug/L	0.90
4-Nitroaniline	ND	50	ug/L	6.0
Nitrobenzene	ND	10	ug/L	2.0
2-Nitrophenol	ND	10	ug/L	0.80
4-Nitrophenol	ND	50	ug/L	7.0
4-Nitroquinoline-1-oxide	ND	100	ug/L	50
N-Nitrosodi-n-butylamine	ND	10	ug/L	2.0
N-Nitrosodiethylamine	ND	10	ug/L	2.0
N-Nitrosodimethylamine	ND	10	ug/L	0.80
N-Nitrosodiphenylamine	ND	10	ug/L	1.0
N-Nitrosodi-n-propylamine	ND	10	ug/L	0.70
N-Nitrosomethylethylamine	ND	10	ug/L	2.0
N-Nitrosomorpholine	ND	10	ug/L	2.0
N-Nitrosopiperidine	ND	10	ug/L	2.0
N-Nitrosopyrrolidine	ND	10	ug/L	2.0
5-Nitro-o-toluidine	ND	20	ug/L	1.0
Parathion	ND	50	ug/L	2.0
Pentachlorobenzene	ND	10	ug/L	2.0
Pentachloroethane	ND	50	ug/L	2.0
Pentachloronitrobenzene	ND	50	ug/L	2.0
Pentachlorophenol	ND	50	ug/L	5.0
Phenacetin	ND	20	ug/L	1.0
Phenanthrene	ND	10	ug/L	0.70
Phenol	ND	10	ug/L	0.90
Phorate	ND	50	ug/L	1.0
2-Picoline	ND	20	ug/L	1.0
Pronamide	ND	20	ug/L	1.0
Pyrene	ND	10	ug/L	0.80
Pyridine	ND	20	ug/L	10
1,2,4,5-Tetrachlorobenzene	ND	10	ug/L	2.0
2,3,4,6-Tetrachlorophenol	ND	50	ug/L	5.0
Thionazin	ND	10	ug/L	2.0
o-Toluidine	ND	10	ug/L	2.0
1,2,4-Trichlorobenzene	ND	10	ug/L	0.90
2,4,5-Trichlorophenol	ND	10	ug/L	1.0
2,4,6-Trichlorophenol	ND	10	ug/L	0.80

(Continued on next page)

LOCKWOOD GREENE

Client Sample ID: LES MW2

GC/MS Semivolatiles

Lot-Sample #...: D3K120128-001 Work Order #...: F4L7C1A9 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
O,O,O-Triethylphosphorothioate	ND	50	ug/L	2.0
1,3,5-Trinitrobenzene	ND	50	ug/L	2.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	66	(32 - 116)
Phenol-d5	73	(40 - 111)
Nitrobenzene-d5	79	(53 - 107)
2-Fluorobiphenyl	70	(31 - 105)
2,4,6-Tribromophenol	74	(42 - 122)
Terphenyl-d14	84	(21 - 125)

LOCKWOOD GREENE

Client Sample ID: LES MW2

GC Semivolatiles

Lot-Sample #...: D3K120128-001 Work Order #...: F4L7C1CC Matrix.....: WATER
Date Sampled...: 11/11/03 12:00 Date Received..: 11/12/03
Prep Date.....: 11/17/03 Analysis Date..: 12/12/03
Prep Batch #...: 3321203 Analysis Time..: 23:49
Dilution Factor: 1

Method.....: SW846 8081A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aldrin	ND	0.050	ug/L	0.0070
alpha-BHC	ND	0.050	ug/L	0.010
beta-BHC	ND	0.050	ug/L	0.010
delta-BHC	ND	0.050	ug/L	0.010
gamma-BHC (Lindane)	ND	0.050	ug/L	0.0080
Chlordane (technical)	ND	0.50	ug/L	0.060
4,4'-DDD	ND	0.050	ug/L	0.010
4,4'-DDE	ND	0.050	ug/L	0.010
4,4'-DDT	ND	0.050	ug/L	0.010
Dieldrin	ND	0.050	ug/L	0.0090
Endrin	ND	0.050	ug/L	0.020
Endrin aldehyde	ND	0.050	ug/L	0.010
Endosulfan I	ND	0.050	ug/L	0.020
Endosulfan II	ND	0.050	ug/L	0.010
Endosulfan sulfate	ND	0.050	ug/L	0.010
Heptachlor	ND	0.050	ug/L	0.010
Heptachlor epoxide	ND	0.050	ug/L	0.010
Methoxychlor	ND	0.10	ug/L	0.020
Toxaphene	ND	5.0	ug/L	0.50

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	93	(29 - 125)
Tetrachloro-m-xylene	117 *	(40 - 115)

NOTE(S):

* Surrogate recovery is outside stated control limits.

LOCKWOOD GREENE

Client Sample ID: LBS MW2

GC Semivolatiles

Lot-Sample #...: D3K120128-001 Work Order #...: F4L7C1CA Matrix.....: WATER
Date Sampled...: 11/11/03 12:00 Date Received..: 11/12/03
Prep Date.....: 11/17/03 Analysis Date..: 12/07/03
Prep Batch #...: 3321215 Analysis Time..: 19:55
Dilution Factor: 1

Method.....: SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	1.0	ug/L	0.15
Aroclor 1221	ND	1.0	ug/L	0.25
Aroclor 1232	ND	1.0	ug/L	0.14
Aroclor 1242	ND	1.0	ug/L	0.14
Aroclor 1248	ND	1.0	ug/L	0.15
Aroclor 1254	ND	1.0	ug/L	0.22
Aroclor 1260	ND	1.0	ug/L	0.16

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	95	(52 - 160)
Decachlorobiphenyl	89	(37 - 144)

LOCKWOOD GREENE

Client Sample ID: LES MW2

GC Semivolatiles

Lot-Sample #...: D3K120128-001 Work Order #...: F4L7C1CD Matrix.....: WATER
Date Sampled...: 11/11/03 12:00 Date Received..: 11/12/03
Prep Date.....: 11/18/03 Analysis Date..: 12/02/03
Prep Batch #...: 3322194 Analysis Time..: 15:15
Dilution Factor: 1

Method.....: SW846 8141A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Azinphos-methyl	ND	2.5	ug/L	0.14
Bolstar	ND	0.50	ug/L	0.14
Chlorpyrifos	ND	0.50	ug/L	0.054
Coumaphos	ND	0.50	ug/L	0.079
Demeton (total)	ND	1.0	ug/L	0.19
Diazinon	ND	0.50	ug/L	0.039
Dichlorvos	ND	0.50	ug/L	0.13
Dimethoate	ND	0.50	ug/L	0.18
Disulfoton	ND	0.50	ug/L	0.057
Ethoprop	ND	0.50	ug/L	0.056
Ethyl parathion	ND	0.50	ug/L	0.040
Famphur	ND	1.0	ug/L	0.054
Fensulfothion	ND	2.5	ug/L	0.22
Fenthion	ND	0.50	ug/L	0.061
Malathion	ND	1.2	ug/L	0.050
Merphos	ND	5.0	ug/L	0.063
Methyl parathion	ND	0.50	ug/L	0.061
Mevinphos	ND	6.2	ug/L	0.16
Naled	ND	10	ug/L	0.22
O,O,O-Triethylphosphoro-thioate	ND	0.50	ug/L	0.15
Phorate	ND	0.50	ug/L	0.075
Ronnel	ND	10	ug/L	0.11
Sulfotepp	ND	0.50	ug/L	0.030
Thionazin	ND	0.50	ug/L	0.059
Tokuthion	ND	0.50	ug/L	0.071
Trichloronate	ND	0.50	ug/L	0.057
EPN	ND	0.50	ug/L	0.050
Demeton-O	ND	1.0	ug/L	0.19
Demeton-S	ND	1.0	ug/L	0.19
Tetrachlorvinphos (Stirophos)	ND	2.5	ug/L	0.056

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Chlormefos	89	(49 - 105)
Ethyl Pirimifos	80	(20 - 121)

LOCKWOOD GREENE

Client Sample ID: LES MW2

TOTAL Metals

Lot-Sample #...: D3K120128-001 Matrix.....: WATER
Date Sampled...: 11/11/03 12:00 Date Received..: 11/12/03

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 3317398						
Mercury	ND	0.20	ug/L	SW846 7470A	11/18/03	F4L7C1A7
		Dilution Factor: 1		Analysis Time..: 18:13	MDL.....: 0.054	
Prep Batch #...: 3317761						
Silver	0.89 B,J	10	ug/L	SW846 6010B	11/19-11/20/03	F4L7C1AK
		Dilution Factor: 1		Analysis Time..: 18:07	MDL.....: 0.70	
Aluminum	58 B	100	ug/L	SW846 6010B	11/19-11/21/03	F4L7C1AL
		Dilution Factor: 1		Analysis Time..: 23:05	MDL.....: 20	
Arsenic	ND	15	ug/L	SW846 6010B	11/19-11/20/03	F4L7C1AM
		Dilution Factor: 1		Analysis Time..: 18:07	MDL.....: 4.9	
Barium	16 J,L	10	ug/L	SW846 6010B	11/19-11/20/03	F4L7C1AN
		Dilution Factor: 1		Analysis Time..: 18:07	MDL.....: 0.37	
Beryllium	ND	5.0	ug/L	SW846 6010B	11/19-11/20/03	F4L7C1AP
		Dilution Factor: 1		Analysis Time..: 18:07	MDL.....: 0.41	
Boron	1700 J	100	ug/L	SW846 6010B	11/19-11/21/03	F4L7C1AQ
		Dilution Factor: 1		Analysis Time..: 23:05	MDL.....: 8.3	
Cadmium	ND	5.0	ug/L	SW846 6010B	11/19-11/20/03	F4L7C1AR
		Dilution Factor: 1		Analysis Time..: 18:07	MDL.....: 0.27	
Cobalt	0.84 B	10	ug/L	SW846 6010B	11/19-11/20/03	F4L7C1AT
		Dilution Factor: 1		Analysis Time..: 18:07	MDL.....: 0.67	
Chromium	3.6 B	10	ug/L	SW846 6010B	11/19-11/20/03	F4L7C1AU
		Dilution Factor: 1		Analysis Time..: 18:07	MDL.....: 2.1	
Copper	4.0 B	10	ug/L	SW846 6010B	11/19-11/20/03	F4L7C1AV
		Dilution Factor: 1		Analysis Time..: 18:07	MDL.....: 0.97	
Iron	35 B	100	ug/L	SW846 6010B	11/19-11/21/03	F4L7C1AW
		Dilution Factor: 1		Analysis Time..: 23:05	MDL.....: 19	
Manganese	670	10	ug/L	SW846 6010B	11/19-11/21/03	F4L7C1AX
		Dilution Factor: 1		Analysis Time..: 23:05	MDL.....: 0.54	

(Continued on next page)

LOCKWOOD GREENE

Client Sample ID: LES MW2

TOTAL Metals

Lot-Sample #...: D3K120128-001 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Molybdenum	39	20	ug/L	SW846 6010B	11/19-11/20/03	F4L7C1A0
		Dilution Factor: 1		Analysis Time..: 18:07	MDL.....: 2.3	
Nickel	ND	40	ug/L	SW846 6010B	11/19-11/20/03	F4L7C1A1
		Dilution Factor: 1		Analysis Time..: 18:07	MDL.....: 4.2	
Lead	ND L	3.0	ug/L	SW846 6010B	11/19-11/20/03	F4L7C1A2
		Dilution Factor: 1		Analysis Time..: 18:07	MDL.....: 2.1	
Antimony	ND	10	ug/L	SW846 6010B	11/19-11/20/03	F4L7C1A3
		Dilution Factor: 1		Analysis Time..: 18:07	MDL.....: 3.6	
Selenium	ND	15	ug/L	SW846 6010B	11/19-11/20/03	F4L7C1A4
		Dilution Factor: 1		Analysis Time..: 18:07	MDL.....: 4.6	
Thallium	ND	10	ug/L	SW846 6010B	11/19-11/20/03	F4L7C1A5
		Dilution Factor: 1		Analysis Time..: 18:07	MDL.....: 8.1	
Zinc	7.8 B,L	20	ug/L	SW846 6010B	11/19-11/20/03	F4L7C1A6
		Dilution Factor: 1		Analysis Time..: 18:07	MDL.....: 7.1	

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

L Serial dilution of a digestate in the analytical batch indicates that physical and chemical interferences are present.

LOCKWOOD GREENE

Client Sample ID: LES MW2

General Chemistry

Lot-Sample #...: D3K120128-001 Work Order #...: F4L7C Matrix.....: WATER
Date Sampled...: 11/11/03 12:00 Date Received..: 11/12/03

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chemical Oxygen Demand (COD)	14 B	20	mg/L	MCAWW 410.4	11/23/03	3327118
		Dilution Factor: 1		Analysis Time..: 13:40	MDL.....: 2.9	
Chloride	1800 Q	300	mg/L	MCAWW 300.0A	11/12/03	3317591
		Dilution Factor: 100		Analysis Time..: 18:20	MDL.....: 20	
Fecal Coliform	ND	1.0	CFU/100m	SM18 9222D Fecal	11/12/03	3321262
		Dilution Factor: 1		Analysis Time..: 11:00	MDL.....:	
Fluoride	ND G	5.0	mg/L	MCAWW 300.0A	11/12/03	3317590
		Dilution Factor: 5		Analysis Time..: 17:58	MDL.....: 0.50	
Nitrate	ND G	2.5	mg/L	MCAWW 300.0A	11/12/03	3317593
		Dilution Factor: 5		Analysis Time..: 17:58	MDL.....: 0.25	
Nitrite	ND G	2.5	mg/L	MCAWW 300.0A	11/12/03	3317594
		Dilution Factor: 5		Analysis Time..: 17:58	MDL.....: 0.25	
Specific Conductance	7200	2.0	umhos/cm	MCAWW 120.1	11/17/03	3321475
		Dilution Factor: 1		Analysis Time..: 12:00	MDL.....:	
Sulfate	2400 Q	500	mg/L	MCAWW 300.0A	11/12/03	3317592
		Dilution Factor: 100		Analysis Time..: 18:20	MDL.....: 20	
Total Coliform	ND	1.0	CFU/100m	SM18 9222B	11/12/03	3321264
		Dilution Factor: 1		Analysis Time..: 11:00	MDL.....:	
Total Cyanide	ND	0.010	mg/L	MCAWW 335.3	11/19/03	3324356
		Dilution Factor: 1		Analysis Time..: 13:00	MDL.....: 0.0039	
Total Dissolved Solids	6000 Q	40	mg/L	MCAWW 160.1	11/17/03	3329641
		Dilution Factor: 4		Analysis Time..: 18:00	MDL.....: 12	
Total Suspended Solids	2.8 B	4.0	mg/L	MCAWW 160.2	11/17/03	3324539
		Dilution Factor: 1		Analysis Time..: 20:00	MDL.....: 0.87	

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

QC DATA ASSOCIATION SUMMARY

D3K120128

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WATER	MCAWW 120.1		3321475	3322095
	WATER	MCAWW 160.1		3329641	3330150
	WATER	MCAWW 160.2		3324539	3324286
	WATER	MCAWW 300.0A		3317591	3317295
	WATER	MCAWW 300.0A		3317592	3317302
	WATER	MCAWW 300.0A		3317590	3317291
	WATER	MCAWW 300.0A		3317593	3317301
	WATER	MCAWW 300.0A		3317594	3317297
	WATER	SM18 9222D Fecal		3321262	
	WATER	SW846 7470A		3317398	3317175
	WATER	SM18 9222B		3321264	
	WATER	SW846 8141A		3322194	3322082
	WATER	SW846 8082		3321215	
	WATER	SW846 8081A		3321203	
	WATER	SW846 8260B		3327096	3327009
	WATER	SW846 8270C		3318453	
	WATER	SW846 6010B		3317761	3317382
	WATER	MCAWW 335.3		3324356	3324184
	WATER	MCAWW 410.4		3327118	3327030
002	WATER	SW846 8260B		3327096	3327009

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: D3K120128 Work Order #...: F5G461AA Matrix.....: WATER
MB Lot-Sample #: D3K230000-096

Prep Date.....: 11/21/03 Analysis Time..: 09:08
Analysis Date..: 11/21/03 Prep Batch #...: 3327096
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	10	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
2-Butanone (MEK)	ND	5.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	2.0	ug/L	SW846 8260B
Dibromomethane	ND	1.0	ug/L	SW846 8260B
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
Dichlorodifluoromethane	ND	2.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethene (total)	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	5.0	ug/L	SW846 8260B
Methylene chloride	ND	5.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,2,4-Trichloro-benzene	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: D3K120128 Work Order #...: F5G461AA Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Trichlorofluoromethane	ND	2.0	ug/L	SW846 8260B
1,2,3-Trichloropropane	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	2.0	ug/L	SW846 8260B
n-Butylbenzene	ND	1.0	ug/L	SW846 8260B
sec-Butylbenzene	ND	1.0	ug/L	SW846 8260B
Isopropylbenzene	ND	1.0	ug/L	SW846 8260B
1,2,4-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
1,3,5-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
n-Propylbenzene	ND	1.0	ug/L	SW846 8260B
tert-Butylbenzene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
2-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
4-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	ug/L	SW846 8260B
1,3-Dichloropropane	ND	1.0	ug/L	SW846 8260B
2,2-Dichloropropane	ND	5.0	ug/L	SW846 8260B
1,1-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Hexachlorobutadiene	ND	1.0	ug/L	SW846 8260B
4-Isopropyltoluene	ND	1.0	ug/L	SW846 8260B
Methyl tert-butyl ether	ND	5.0	ug/L	SW846 8260B
1,2,3-Trichlorobenzene	ND	1.0	ug/L	SW846 8260B
m-Xylene & p-Xylene	ND	2.0	ug/L	SW846 8260B
o-Xylene	ND	1.0	ug/L	SW846 8260B
Bromobenzene	ND	1.0	ug/L	SW846 8260B
Bromochloromethane	ND	1.0	ug/L	SW846 8260B
Naphthalene	ND	1.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	90	(76 - 116)
1,2-Dichloroethane-d4	86	(59 - 129)
4-Bromofluorobenzene	85	(74 - 114)
Toluene-d8	102	(76 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: D3K120128 Work Order #...: F5G461AC Matrix.....: WATER
LCS Lot-Sample#: D3K230000-096
Prep Date.....: 11/21/03 Analysis Date..: 11/21/03
Prep Batch #...: 3327096 Analysis Time..: 08:43
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Benzene	**91**	**(75 - 116)**	**SW846 8260B**
Chlorobenzene	**87**	**(77 - 117)**	**SW846 8260B**
1,1-Dichloroethene	**92**	**(67 - 125)**	**SW846 8260B**
Toluene	**93**	**(74 - 115)**	**SW846 8260B**
Trichloroethene	**95**	**(80 - 123)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	90	(76 - 116)
1,2-Dichloroethane-d4	86	(59 - 129)
4-Bromofluorobenzene	88	(74 - 114)
Toluene-d8	104	(76 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: D3K120128 Work Order #...: F5G461AC Matrix.....: WATER
LCS Lot-Sample#: D3K230000-096
Prep Date.....: 11/21/03 Analysis Date..: 11/21/03
Prep Batch #...: 3327096 Analysis Time..: 08:43
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Benzene	10.0	9.09	ug/L	91	SW846 8260B
Chlorobenzene	10.0	8.72	ug/L	87	SW846 8260B
1,1-Dichloroethene	10.0	9.16	ug/L	92	SW846 8260B
Toluene	10.0	9.29	ug/L	93	SW846 8260B
Trichloroethene	10.0	9.51	ug/L	95	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	90	(76 - 116)
1,2-Dichloroethane-d4	86	(59 - 129)
4-Bromofluorobenzene	88	(74 - 114)
Toluene-d8	104	(76 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: D3K120128 Work Order #...: F41HD1AC-MS Matrix.....: WATER
MS Lot-Sample #: D3K170149-001 F41HD1AD-MSD
Date Sampled...: 11/14/03 15:18 Date Received..: 11/14/03
Prep Date.....: 11/21/03 Analysis Date..: 11/21/03
Prep Batch #...: 3327096 Analysis Time..: 09:56
Dilution Factor: 133.3

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	94	(75 - 116)			SW846 8260B
	99	(75 - 116)	4.2	(0-20)	SW846 8260B
Chlorobenzene	96	(77 - 117)			SW846 8260B
	93	(77 - 117)	3.2	(0-20)	SW846 8260B
1,1-Dichloroethene	82	(67 - 125)			SW846 8260B
	84	(67 - 125)	2.4	(0-20)	SW846 8260B
Toluene	99	(74 - 115)			SW846 8260B
	99	(74 - 115)	0.42	(0-20)	SW846 8260B
Trichloroethene	98	(80 - 123)			SW846 8260B
	100	(80 - 123)	1.9	(0-20)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	88	(76 - 116)
	93	(76 - 116)
1,2-Dichloroethane-d4	88	(59 - 129)
	88	(59 - 129)
4-Bromofluorobenzene	92	(74 - 114)
	89	(74 - 114)
Toluene-d8	109	(76 - 116)
	96	(76 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: D3K120128 Work Order #...: F41HD1AC-MS Matrix.....: WATER
MS Lot-Sample #: D3K170149-001 F41HD1AD-MSD
Date Sampled...: 11/14/03 15:18 Date Received..: 11/14/03
Prep Date.....: 11/21/03 Analysis Date..: 11/21/03
Prep Batch #...: 3327096 Analysis Time..: 09:56
Dilution Factor: 133.3

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Benzene	ND	1330	1260	ug/L	94		SW846 8260B
	ND	1330	1310	ug/L	99	4.2	SW846 8260B
Chlorobenzene	ND	1330	1280	ug/L	96		SW846 8260B
	ND	1330	1240	ug/L	93	3.2	SW846 8260B
1,1-Dichloroethene	ND	1330	1100	ug/L	82		SW846 8260B
	ND	1330	1120	ug/L	84	2.4	SW846 8260B
Toluene	ND	1330	1320	ug/L	99		SW846 8260B
	ND	1330	1330	ug/L	99	0.42	SW846 8260B
Trichloroethene	30	1330	1340	ug/L	98		SW846 8260B
	30	1330	1360	ug/L	100	1.9	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	88	(76 - 116)
	93	(76 - 116)
1,2-Dichloroethane-d4	88	(59 - 129)
	88	(59 - 129)
4-Bromofluorobenzene	92	(74 - 114)
	89	(74 - 114)
Toluene-d8	109	(76 - 116)
	96	(76 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: D3K120128 Work Order #...: F4V7P1AA Matrix.....: WATER
MB Lot-Sample #: D3K140000-453
Prep Date.....: 11/14/03 Analysis Time..: 23:07
Analysis Date..: 12/10/03 Prep Batch #...: 3318453
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acenaphthene	ND	10	ug/L	SW846 8270C
Acenaphthylene	ND	10	ug/L	SW846 8270C
Acetophenone	ND	10	ug/L	SW846 8270C
2-Acetylaminofluorene	ND	100	ug/L	SW846 8270C
4-Aminobiphenyl	ND	50	ug/L	SW846 8270C
Aniline	ND	10	ug/L	SW846 8270C
Anthracene	ND	10	ug/L	SW846 8270C
Aramite	ND	20	ug/L	SW846 8270C
Benzo(a)anthracene	ND	10	ug/L	SW846 8270C
Benzo(b)fluoranthene	ND	10	ug/L	SW846 8270C
Benzo(k)fluoranthene	ND	10	ug/L	SW846 8270C
Benzo(ghi)perylene	ND	10	ug/L	SW846 8270C
Benzo(a)pyrene	ND	10	ug/L	SW846 8270C
Benzyl alcohol	ND	10	ug/L	SW846 8270C
bis(2-Chloroethoxy) methane	ND	10	ug/L	SW846 8270C
bis(2-Chloroethyl)-ether	ND	10	ug/L	SW846 8270C
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	SW846 8270C
4-Bromophenyl phenyl ether	ND	10	ug/L	SW846 8270C
Butyl benzyl phthalate	ND	10	ug/L	SW846 8270C
4-Chloroaniline	ND	10	ug/L	SW846 8270C
Chlorobenzilate	ND	10	ug/L	SW846 8270C
4-Chloro-3-methylphenol	ND	10	ug/L	SW846 8270C
2-Chloronaphthalene	ND	10	ug/L	SW846 8270C
2-Chlorophenol	ND	10	ug/L	SW846 8270C
4-Chlorophenyl phenyl ether	ND	10	ug/L	SW846 8270C
Chrysene	ND	10	ug/L	SW846 8270C
Diallate	ND	20	ug/L	SW846 8270C
Dibenz(a,h)anthracene	ND	10	ug/L	SW846 8270C
Dibenzofuran	ND	10	ug/L	SW846 8270C
Di-n-butyl phthalate	ND	10	ug/L	SW846 8270C
1,2-Dichlorobenzene	ND	10	ug/L	SW846 8270C
1,3-Dichlorobenzene	ND	10	ug/L	SW846 8270C
1,4-Dichlorobenzene	ND	10	ug/L	SW846 8270C
3,3'-Dichlorobenzidine	ND	50	ug/L	SW846 8270C
2,4-Dichlorophenol	ND	10	ug/L	SW846 8270C
2,6-Dichlorophenol	ND	10	ug/L	SW846 8270C

(Continued on next page)

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: D3K120128 Work Order #...: F4V7P1AA Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Diethyl phthalate	ND	10	ug/L	SW846 8270C
Dimethoate	ND	20	ug/L	SW846 8270C
7,12-Dimethylbenz(a)-anthracene	ND	20	ug/L	SW846 8270C
3,3'-Dimethylbenzidine	ND	20	ug/L	SW846 8270C
2,4-Dimethylphenol	ND	10	ug/L	SW846 8270C
Dimethyl phthalate	ND	10	ug/L	SW846 8270C
1,3-Dinitrobenzene	ND	10	ug/L	SW846 8270C
4,6-Dinitro-2-methylphenol	ND	50	ug/L	SW846 8270C
2,4-Dinitrophenol	ND	50	ug/L	SW846 8270C
2,4-Dinitrotoluene	ND	10	ug/L	SW846 8270C
2,6-Dinitrotoluene	ND	10	ug/L	SW846 8270C
Di-n-octyl phthalate	ND	10	ug/L	SW846 8270C
Diphenylamine	ND	10	ug/L	SW846 8270C
Disulfoton	ND	50	ug/L	SW846 8270C
Ethyl methanesulfonate	ND	10	ug/L	SW846 8270C
Fluoranthene	ND	10	ug/L	SW846 8270C
Fluorene	ND	10	ug/L	SW846 8270C
Hexachlorobenzene	ND	10	ug/L	SW846 8270C
Hexachlorobutadiene	ND	10	ug/L	SW846 8270C
Hexachlorocyclopenta-diene	ND	50	ug/L	SW846 8270C
Hexachloroethane	ND	10	ug/L	SW846 8270C
Hexachloropropene	ND	100	ug/L	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	SW846 8270C
Isodrin	ND	10	ug/L	SW846 8270C
Isophorone	ND	10	ug/L	SW846 8270C
Isosafrole	ND	20	ug/L	SW846 8270C
Methapyrilene	ND	50	ug/L	SW846 8270C
3-Methylcholanthrene	ND	20	ug/L	SW846 8270C
Methyl methanesulfonate	ND	10	ug/L	SW846 8270C
2-Methylnaphthalene	ND	10	ug/L	SW846 8270C
Methyl parathion	ND	50	ug/L	SW846 8270C
2-Methylphenol	ND	10	ug/L	SW846 8270C
3-Methylphenol & 4-Methylphenol	ND	10	ug/L	SW846 8270C
Naphthalene	ND	10	ug/L	SW846 8270C
1,4-Naphthoquinone	ND	50	ug/L	SW846 8270C
1-Naphthylamine	ND	10	ug/L	SW846 8270C
2-Naphthylamine	ND	10	ug/L	SW846 8270C
2-Nitroaniline	ND	50	ug/L	SW846 8270C
3-Nitroaniline	ND	50	ug/L	SW846 8270C
4-Nitroaniline	ND	50	ug/L	SW846 8270C
Nitrobenzene	ND	10	ug/L	SW846 8270C

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: D3K120128 Work Order #...: F4V7P1AA Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
2-Nitrophenol	ND	10	ug/L	SW846 8270C
4-Nitrophenol	ND	50	ug/L	SW846 8270C
4-Nitroquinoline-1-oxide	ND	100	ug/L	SW846 8270C
N-Nitrosodi-n-butylamine	ND	10	ug/L	SW846 8270C
N-Nitrosodiethylamine	ND	10	ug/L	SW846 8270C
N-Nitrosodimethylamine	ND	10	ug/L	SW846 8270C
N-Nitrosodiphenylamine	ND	10	ug/L	SW846 8270C
N-Nitrosodi-n-propylamine	ND	10	ug/L	SW846 8270C
N-Nitrosomethylethylamine	ND	10	ug/L	SW846 8270C
N-Nitrosomorpholine	ND	10	ug/L	SW846 8270C
N-Nitrosopiperidine	ND	10	ug/L	SW846 8270C
N-Nitrosopyrrolidine	ND	10	ug/L	SW846 8270C
5-Nitro-o-toluidine	ND	20	ug/L	SW846 8270C
Parathion	ND	50	ug/L	SW846 8270C
Pentachlorobenzene	ND	10	ug/L	SW846 8270C
Pentachloroethane	ND	50	ug/L	SW846 8270C
Pentachloronitrobenzene	ND	50	ug/L	SW846 8270C
Pentachlorophenol	ND	50	ug/L	SW846 8270C
Phenacetin	ND	20	ug/L	SW846 8270C
Phenanthrene	ND	10	ug/L	SW846 8270C
Phenol	ND	10	ug/L	SW846 8270C
Phorate	ND	50	ug/L	SW846 8270C
2-Picoline	ND	20	ug/L	SW846 8270C
Pronamide	ND	20	ug/L	SW846 8270C
Pyrene	ND	10	ug/L	SW846 8270C
Pyridine	ND	20	ug/L	SW846 8270C
1,2,4,5-Tetrachlorobenzene	ND	10	ug/L	SW846 8270C
2,3,4,6-Tetrachlorophenol	ND	50	ug/L	SW846 8270C
Thionazin	ND	10	ug/L	SW846 8270C
o-Toluidine	ND	10	ug/L	SW846 8270C
1,2,4-Trichlorobenzene	ND	10	ug/L	SW846 8270C
2,4,5-Trichlorophenol	ND	10	ug/L	SW846 8270C
2,4,6-Trichlorophenol	ND	10	ug/L	SW846 8270C
O,O,O-Triethylphosphorothioate	ND	50	ug/L	SW846 8270C
1,3,5-Trinitrobenzene	ND	50	ug/L	SW846 8270C

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: D3K120128 Work Order #...: F4V7P1AA Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	70	(32 - 116)
Phenol-d5	72	(40 - 111)
Nitrobenzene-d5	70	(53 - 107)
2-Fluorobiphenyl	62	(31 - 105)
2,4,6-Tribromophenol	69	(42 - 122)
Terphenyl-d14	77	(21 - 125)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: D3K120128 Work Order #...: F4V7P1AC-LCS Matrix.....: WATER
LCS Lot-Sample#: D3K140000-453 F4V7P1AD-LCSD
Prep Date.....: 11/14/03 Analysis Date..: 12/10/03
Prep Batch #...: 3318453 Analysis Time..: 23:32
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acenaphthene	73	(55 - 97)			SW846 8270C
	68	(55 - 97)	7.0	(0-30)	SW846 8270C
4-Chloro-3-methylphenol	77	(59 - 106)			SW846 8270C
	77	(59 - 106)	0.26	(0-40)	SW846 8270C
2-Chlorophenol	80	(59 - 105)			SW846 8270C
	78	(59 - 105)	3.1	(0-40)	SW846 8270C
1,4-Dichlorobenzene	63	(31 - 98)			SW846 8270C
	53	(31 - 98)	17	(0-40)	SW846 8270C
2,4-Dinitrotoluene	71	(57 - 113)			SW846 8270C
	68	(57 - 113)	4.3	(0-40)	SW846 8270C
4-Nitrophenol	67	(43 - 118)			SW846 8270C
	62	(43 - 118)	7.2	(0-40)	SW846 8270C
N-Nitrosodi-n-propyl-amine	73	(51 - 99)			SW846 8270C
	71	(51 - 99)	3.4	(0-40)	SW846 8270C
Pentachlorophenol	73	(48 - 114)			SW846 8270C
	70	(48 - 114)	4.0	(0-40)	SW846 8270C
Phenol	81	(56 - 106)			SW846 8270C
	80	(56 - 106)	2.1	(0-40)	SW846 8270C
Pyrene	73	(51 - 103)			SW846 8270C
	72	(51 - 103)	1.2	(0-40)	SW846 8270C
1,2,4-Trichloro-benzene	62	(36 - 99)			SW846 8270C
	54	(36 - 99)	14	(0-40)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	75	(54 - 105)
	72	(54 - 105)
Phenol-d5	79	(55 - 106)
	76	(55 - 106)
Nitrobenzene-d5	78	(58 - 108)
	76	(58 - 108)
2-Fluorobiphenyl	66	(53 - 97)
	54	(53 - 97)
2,4,6-Tribromophenol	76	(62 - 113)
	73	(62 - 113)
Terphenyl-d14	78	(55 - 109)

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: D3K120128 Work Order #...: F4V7P1AC-LCS Matrix.....: WATER
LCS Lot-Sample#: D3K140000-453 F4V7P1AD-LCSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
	77	(55 - 109)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: D3K120128 Work Order #...: F4V7P1AC-LCS Matrix.....: WATER
LCS Lot-Sample#: D3K140000-453 F4V7P1AD-LCSD
Prep Date.....: 11/14/03 Analysis Date..: 12/10/03
Prep Batch #...: 3318453 Analysis Time..: 23:32
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Acenaphthene	100	72.7	ug/L	73		SW846 8270C
	100	67.8	ug/L	68	7.0	SW846 8270C
4-Chloro-3-methylphenol	150	115	ug/L	77		SW846 8270C
	150	115	ug/L	77	0.26	SW846 8270C
2-Chlorophenol	150	120	ug/L	80		SW846 8270C
	150	117	ug/L	78	3.1	SW846 8270C
1,4-Dichlorobenzene	100	63.3	ug/L	63		SW846 8270C
	100	53.2	ug/L	53	17	SW846 8270C
2,4-Dinitrotoluene	100	70.5	ug/L	71		SW846 8270C
	100	67.6	ug/L	68	4.3	SW846 8270C
4-Nitrophenol	150	101	ug/L	67		SW846 8270C
	150	93.6	ug/L	62	7.2	SW846 8270C
N-Nitrosodi-n-propyl-amine	100	73.2	ug/L	73		SW846 8270C
	100	70.7	ug/L	71	3.4	SW846 8270C
Pentachlorophenol	150	109	ug/L	73		SW846 8270C
	150	105	ug/L	70	4.0	SW846 8270C
Phenol	150	122	ug/L	81		SW846 8270C
	150	120	ug/L	80	2.1	SW846 8270C
Pyrene	100	72.5	ug/L	73		SW846 8270C
	100	71.7	ug/L	72	1.2	SW846 8270C
1,2,4-Trichloro-benzene	100	62.2	ug/L	62		SW846 8270C
	100	54.3	ug/L	54	14	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	75	(54 - 105)
	72	(54 - 105)
Phenol-d5	79	(55 - 106)
	76	(55 - 106)
Nitrobenzene-d5	78	(58 - 108)
	76	(58 - 108)
2-Fluorobiphenyl	66	(53 - 97)
	54	(53 - 97)
2,4,6-Tribromophenol	76	(62 - 113)
	73	(62 - 113)
Terphenyl-d14	78	(55 - 109)

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: D3K120128 Work Order #...: F4V7P1AC-LCS Matrix.....: WATER
LCS Lot-Sample#: D3K140000-453 F4V7P1AD-LCSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
	77	(55 - 109)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: D3K120128 Work Order #...: F40V71AA Matrix.....: WATER
MB Lot-Sample #: D3K170000-203

Prep Date.....: 11/17/03 Analysis Time..: 06:57
Analysis Date..: 12/13/03 Prep Batch #...: 3321203
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aldrin	ND	0.050	ug/L	SW846 8081A
alpha-BHC	ND	0.050	ug/L	SW846 8081A
beta-BHC	ND	0.050	ug/L	SW846 8081A
delta-BHC	ND	0.050	ug/L	SW846 8081A
gamma-BHC (Lindane)	ND	0.050	ug/L	SW846 8081A
Chlordane (technical)	ND	0.50	ug/L	SW846 8081A
4,4'-DDD	ND	0.050	ug/L	SW846 8081A
4,4'-DDE	ND	0.050	ug/L	SW846 8081A
4,4'-DDT	ND	0.050	ug/L	SW846 8081A
Dieldrin	ND	0.050	ug/L	SW846 8081A
Endrin	ND	0.050	ug/L	SW846 8081A
Endrin aldehyde	ND	0.050	ug/L	SW846 8081A
Endosulfan I	ND	0.050	ug/L	SW846 8081A
Endosulfan II	ND	0.050	ug/L	SW846 8081A
Endosulfan sulfate	ND	0.050	ug/L	SW846 8081A
Heptachlor	ND	0.050	ug/L	SW846 8081A
Heptachlor epoxide	ND	0.050	ug/L	SW846 8081A
Methoxychlor	ND	0.10	ug/L	SW846 8081A
Toxaphene	ND	5.0	ug/L	SW846 8081A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	83	(29 - 125)
Tetrachloro-m-xylene	84	(40 - 115)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: D3K120128 Work Order #...: F40V71AC-LCS Matrix.....: WATER
LCS Lot-Sample#: D3K170000-203 F40V71AD-LCSD
Prep Date.....: 11/17/03 Analysis Date..: 12/12/03
Prep Batch #...: 3321203 Analysis Time..: 22:52
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Aldrin	104	(53 - 122)			SW846 8081A
	102	(53 - 122)	1.8	(0-30)	SW846 8081A
gamma-BHC (Lindane)	105	(72 - 122)			SW846 8081A
	107	(72 - 122)	1.8	(0-30)	SW846 8081A
4,4'-DDT	107	(66 - 138)			SW846 8081A
	108	(66 - 138)	1.2	(0-30)	SW846 8081A
Dieldrin	112	(75 - 128)			SW846 8081A
	113	(75 - 128)	0.78	(0-30)	SW846 8081A
Endrin	109	(64 - 138)			SW846 8081A
	110	(64 - 138)	1.5	(0-30)	SW846 8081A
Heptachlor	101	(60 - 126)			SW846 8081A
	101	(60 - 126)	0.46	(0-30)	SW846 8081A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	77	(65 - 137)
	91	(65 - 137)
Tetrachloro-m-xylene	89	(40 - 115)
	85	(40 - 115)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: D3K120128 Work Order #...: F40V71AC-LCS Matrix.....: WATER
LCS Lot-Sample#: D3K170000-203 F40V71AD-LCSD
Prep Date.....: 11/17/03 Analysis Date..: 12/12/03
Prep Batch #...: 3321203 Analysis Time..: 22:52
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Aldrin	0.500	0.520	ug/L	104		SW846 8081A
	0.500	0.511	ug/L	102	1.8	SW846 8081A
gamma-BHC (Lindane)	0.500	0.525	ug/L	105		SW846 8081A
	0.500	0.535	ug/L	107	1.8	SW846 8081A
4,4'-DDT	0.500	0.534	ug/L	107		SW846 8081A
	0.500	0.540	ug/L	108	1.2	SW846 8081A
Dieldrin	0.500	0.559	ug/L	112		SW846 8081A
	0.500	0.564	ug/L	113	0.78	SW846 8081A
Endrin	0.500	0.543	ug/L	109		SW846 8081A
	0.500	0.551	ug/L	110	1.5	SW846 8081A
Heptachlor	0.500	0.507	ug/L	101		SW846 8081A
	0.500	0.505	ug/L	101	0.46	SW846 8081A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	77	(65 - 137)
	91	(65 - 137)
Tetrachloro-m-xylene	89	(40 - 115)
	85	(40 - 115)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: D3K120128 Work Order #...: F40WT1AA Matrix.....: WATER
MB Lot-Sample #: D3K170000-215
Prep Date.....: 11/17/03 Analysis Time..: 18:49
Analysis Date..: 12/07/03 Prep Batch #...: 3321215
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	1.0	ug/L	SW846 8082
Aroclor 1221	ND	1.0	ug/L	SW846 8082
Aroclor 1232	ND	1.0	ug/L	SW846 8082
Aroclor 1242	ND	1.0	ug/L	SW846 8082
Aroclor 1248	ND	1.0	ug/L	SW846 8082
Aroclor 1254	ND	1.0	ug/L	SW846 8082
Aroclor 1260	ND	1.0	ug/L	SW846 8082

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	103	(52 - 160)
Decachlorobiphenyl	103	(37 - 144)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: D3K120128 Work Order #...: F40WT1AC-LCS Matrix.....: WATER
LCS Lot-Sample#: D3K170000-215 F40WT1AD-LCSD
Prep Date.....: 11/17/03 Analysis Date..: 12/07/03
Prep Batch #...: 3321215 Analysis Time..: 19:11
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Aroclor 1016	104	(56 - 124)			SW846 8082
	109	(56 - 124)	4.7	(0-30)	SW846 8082
Aroclor 1260	115	(64 - 120)			SW846 8082
	118	(64 - 120)	2.9	(0-30)	SW846 8082

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	89	(52 - 127)
	96	(52 - 127)
Decachlorobiphenyl	78	(61 - 128)
	81	(61 - 128)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: D3K120128 Work Order #...: F40WT1AC-LCS Matrix.....: WATER
LCS Lot-Sample#: D3K170000-215 F40WT1AD-LCSD
Prep Date.....: 11/17/03 Analysis Date..: 12/07/03
Prep Batch #...: 3321215 Analysis Time..: 19:11
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Aroclor 1016	2.00	2.09	ug/L	104		SW846 8082
	2.00	2.19	ug/L	109	4.7	SW846 8082
Aroclor 1260	2.00	2.29	ug/L	115		SW846 8082
	2.00	2.36	ug/L	118	2.9	SW846 8082

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	89	(52 - 127)
	96	(52 - 127)
Decachlorobiphenyl	78	(61 - 128)
	81	(61 - 128)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: D3K120128 Work Order #...: F42M71AA Matrix.....: WATER
MB Lot-Sample #: D3K180000-194
Prep Date.....: 11/18/03 Analysis Time..: 14:08
Analysis Date..: 12/02/03 Prep Batch #...: 3322194
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Azinphos-methyl	ND	2.5	ug/L	SW846 8141A
Bolstar	ND	0.50	ug/L	SW846 8141A
Chlorpyrifos	ND	0.50	ug/L	SW846 8141A
Coumaphos	ND	0.50	ug/L	SW846 8141A
Demeton (total)	ND	1.0	ug/L	SW846 8141A
Diazinon	ND	0.50	ug/L	SW846 8141A
Dichlorvos	ND	0.50	ug/L	SW846 8141A
Dimethoate	ND	0.50	ug/L	SW846 8141A
Disulfoton	ND	0.50	ug/L	SW846 8141A
Ethoprop	ND	0.50	ug/L	SW846 8141A
Ethyl parathion	ND	0.50	ug/L	SW846 8141A
Famphur	ND	1.0	ug/L	SW846 8141A
Fensulfothion	ND	2.5	ug/L	SW846 8141A
Fenthion	ND	0.50	ug/L	SW846 8141A
Malathion	ND	1.2	ug/L	SW846 8141A
Merphos	ND	5.0	ug/L	SW846 8141A
Methyl parathion	ND	0.50	ug/L	SW846 8141A
Mevinphos	ND	6.2	ug/L	SW846 8141A
Naled	ND	10	ug/L	SW846 8141A
O,O,O-Triethylphosphorothioate	ND	0.50	ug/L	SW846 8141A
Phorate	ND	0.50	ug/L	SW846 8141A
Ronnel	ND	10	ug/L	SW846 8141A
Sulfotepp	ND	0.50	ug/L	SW846 8141A
Thionazin	ND	0.50	ug/L	SW846 8141A
Tokuthion	ND	0.50	ug/L	SW846 8141A
Trichloronate	ND	0.50	ug/L	SW846 8141A
EPN	ND	0.50	ug/L	SW846 8141A
Demeton-O	ND	1.0	ug/L	SW846 8141A
Demeton-S	ND	1.0	ug/L	SW846 8141A
Tetrachlorvinphos (Stirop	ND	2.5	ug/L	SW846 8141A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Chlormefos	90	(49 - 105)
Ethyl Pirimifos	89	(20 - 121)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: D3K120128 Work Order #...: F42M71AC Matrix.....: WATER
LCS Lot-Sample#: D3K180000-194
Prep Date.....: 11/18/03 Analysis Date..: 12/02/03
Prep Batch #...: 3322194 Analysis Time..: 14:41
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Demeton (total)	74	(20 - 107)	SW846 8141A
Diazinon	82	(58 - 108)	SW846 8141A
Ethyl parathion	90	(62 - 118)	SW846 8141A
Malathion	72	(33 - 109)	SW846 8141A
Methyl parathion	85	(50 - 127)	SW846 8141A
Phorate	82	(54 - 101)	SW846 8141A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Chlormefos	82	(49 - 105)
Ethyl Pirimifos	86	(20 - 121)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: D3K120128 Work Order #...: F42M71AC Matrix.....: WATER
LCS Lot-Sample#: D3K180000-194
Prep Date.....: 11/18/03 Analysis Date..: 12/02/03
Prep Batch #...: 3322194 Analysis Time..: 14:41
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Demeton (total)	4.00	2.96	ug/L	74	SW846 8141A
Diazinon	4.00	3.30	ug/L	82	SW846 8141A
Ethyl parathion	4.00	3.60	ug/L	90	SW846 8141A
Malathion	4.00	2.90	ug/L	72	SW846 8141A
Methyl parathion	4.00	3.39	ug/L	85	SW846 8141A
Phorate	4.00	3.29	ug/L	82	SW846 8141A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Chlormefos	82	(49 - 105)
Ethyl Pirimifos	86	(20 - 121)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Lot-Sample #...: D3K120128 Work Order #...: F4REN1AJ Matrix.....: WATER
MS Lot-Sample #: D3K130311-004
Date Sampled...: 11/12/03 01:00 Date Received..: 11/13/03
Prep Date.....: 11/18/03 Analysis Date..: 12/02/03
Prep Batch #...: 3322194
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Demeton (total)	75	(20 - 107)	SW846 8141A
Diazinon	84	(58 - 108)	SW846 8141A
Ethyl parathion	94	(62 - 118)	SW846 8141A
Malathion	83	(33 - 109)	SW846 8141A
Methyl parathion	89	(50 - 127)	SW846 8141A
Phorate	85	(54 - 101)	SW846 8141A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Chlormefos	75	(49 - 105)
Ethyl Pirimifos	83	(20 - 121)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC Semivolatiles

Lot-Sample #...: D3K120128 Work Order #...: F4REN1AJ Matrix.....: WATER
MS Lot-Sample #: D3K130311-004
Date Sampled...: 11/12/03 01:00 Date Received..: 11/13/03
Prep Date.....: 11/18/03 Analysis Date..: 12/02/03
Prep Batch #...: 3322194
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Demeton (total)	ND	4.22	3.16	ug/L	75	SW846 8141A
Diazinon	ND	4.22	3.56	ug/L	84	SW846 8141A
Ethyl parathion	ND	4.22	3.97	ug/L	94	SW846 8141A
Malathion	ND	4.22	3.50	ug/L	83	SW846 8141A
Methyl parathion	ND	4.22	3.74	ug/L	89	SW846 8141A
Phorate	ND	4.22	3.60	ug/L	85	SW846 8141A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Chlormefos	75	(49 - 105)
Ethyl Pirimifos	83	(20 - 121)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: D3K120128 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: D3K130000-398 Prep Batch #...: 3317398						
Mercury	ND	0.20	ug/L	SW846 7470A	11/18/03	F4QF21AA
		Dilution Factor: 1				
		Analysis Time..: 18:09				
MB Lot-Sample #: D3K130000-761 Prep Batch #...: 3317761						
Aluminum	ND	100	ug/L	SW846 6010B	11/19-11/21/03	F4R8N1AA
		Dilution Factor: 1				
		Analysis Time..: 22:52				
Antimony	ND	10	ug/L	SW846 6010B	11/19-11/20/03	F4R8N1AC
		Dilution Factor: 1				
		Analysis Time..: 17:53				
Arsenic	ND	15	ug/L	SW846 6010B	11/19-11/20/03	F4R8N1AD
		Dilution Factor: 1				
		Analysis Time..: 17:53				
Barium	1.3 B	10	ug/L	SW846 6010B	11/19-11/20/03	F4R8N1AE
		Dilution Factor: 1				
		Analysis Time..: 17:53				
Beryllium	ND	5.0	ug/L	SW846 6010B	11/19-11/20/03	F4R8N1AF
		Dilution Factor: 1				
		Analysis Time..: 17:53				
Boron	9.6 B	100	ug/L	SW846 6010B	11/19-11/21/03	F4R8N1DH
		Dilution Factor: 1				
		Analysis Time..: 22:52				
Cadmium	ND	5.0	ug/L	SW846 6010B	11/19-11/20/03	F4R8N1AG
		Dilution Factor: 1				
		Analysis Time..: 17:53				
Chromium	ND	10	ug/L	SW846 6010B	11/19-11/20/03	F4R8N1A1
		Dilution Factor: 1				
		Analysis Time..: 17:53				
Cobalt	ND	10	ug/L	SW846 6010B	11/19-11/20/03	F4R8N1AJ
		Dilution Factor: 1				
		Analysis Time..: 17:53				

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: D3K120128 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	ND	10	ug/L	SW846 6010B	11/19-11/20/03	F4R8N1AK
		Dilution Factor: 1				
		Analysis Time..: 17:53				
Iron	ND	100	ug/L	SW846 6010B	11/19-11/21/03	F4R8N1AL
		Dilution Factor: 1				
		Analysis Time..: 22:52				
Lead	ND	3.0	ug/L	SW846 6010B	11/19-11/20/03	F4R8N1AM
		Dilution Factor: 1				
		Analysis Time..: 17:53				
Manganese	ND	10	ug/L	SW846 6010B	11/19-11/21/03	F4R8N1AP
		Dilution Factor: 1				
		Analysis Time..: 22:52				
Molybdenum	ND	20	ug/L	SW846 6010B	11/19-11/20/03	F4R8N1DJ
		Dilution Factor: 1				
		Analysis Time..: 17:53				
Nickel	ND	40	ug/L	SW846 6010B	11/19-11/20/03	F4R8N1AQ
		Dilution Factor: 1				
		Analysis Time..: 17:53				
Selenium	ND	15	ug/L	SW846 6010B	11/19-11/20/03	F4R8N1AT
		Dilution Factor: 1				
		Analysis Time..: 17:53				
Silver	1.4 B	10	ug/L	SW846 6010B	11/19-11/20/03	F4R8N1AU
		Dilution Factor: 1				
		Analysis Time..: 17:53				
Thallium	ND	10	ug/L	SW846 6010B	11/19-11/20/03	F4R8N1AW
		Dilution Factor: 1				
		Analysis Time..: 17:53				
Zinc	ND	20	ug/L	SW846 6010B	11/19-11/20/03	F4R8N1A0
		Dilution Factor: 1				
		Analysis Time..: 17:53				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Lot-Sample #...: D3K120128 Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP-BATCH #
Aluminum	97	(86 - 108)			SW846 6010B	11/19-11/21/03	3317761
	100	(86 - 108)	2.8	(0-20)	SW846 6010B	11/19-11/21/03	3317761
		Dilution Factor: 1			Analysis Time..: 22:57		
Antimony	94	(88 - 108)			SW846 6010B	11/19-11/20/03	3317761
	99	(88 - 108)	5.4	(0-20)	SW846 6010B	11/19-11/20/03	3317761
		Dilution Factor: 1			Analysis Time..: 17:57		
Arsenic	96	(89 - 109)			SW846 6010B	11/19-11/20/03	3317761
	98	(89 - 109)	2.5	(0-20)	SW846 6010B	11/19-11/20/03	3317761
		Dilution Factor: 1			Analysis Time..: 17:57		
Barium	105	(93 - 113)			SW846 6010B	11/19-11/20/03	3317761
	107	(93 - 113)	2.4	(0-20)	SW846 6010B	11/19-11/20/03	3317761
		Dilution Factor: 1			Analysis Time..: 17:57		
Beryllium	94	(88 - 112)			SW846 6010B	11/19-11/20/03	3317761
	97	(88 - 112)	3.4	(0-20)	SW846 6010B	11/19-11/20/03	3317761
		Dilution Factor: 1			Analysis Time..: 17:57		
Boron	96	(89 - 110)			SW846 6010B	11/19-11/21/03	3317761
	100	(89 - 110)	4.3	(0-20)	SW846 6010B	11/19-11/21/03	3317761
		Dilution Factor: 1			Analysis Time..: 22:57		
Cadmium	96	(89 - 110)			SW846 6010B	11/19-11/20/03	3317761
	100	(89 - 110)	3.1	(0-20)	SW846 6010B	11/19-11/20/03	3317761
		Dilution Factor: 1			Analysis Time..: 17:57		
Chromium	95	(89 - 112)			SW846 6010B	11/19-11/20/03	3317761
	98	(89 - 112)	2.9	(0-20)	SW846 6010B	11/19-11/20/03	3317761
		Dilution Factor: 1			Analysis Time..: 17:57		
Cobalt	95	(86 - 107)			SW846 6010B	11/19-11/20/03	3317761
	97	(86 - 107)	2.7	(0-20)	SW846 6010B	11/19-11/20/03	3317761
		Dilution Factor: 1			Analysis Time..: 17:57		
Copper	97	(86 - 110)			SW846 6010B	11/19-11/20/03	3317761
	100	(86 - 110)	2.4	(0-20)	SW846 6010B	11/19-11/20/03	3317761
		Dilution Factor: 1			Analysis Time..: 17:57		

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Lot-Sample #...: D3K120128 Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP-BATCH #
Iron	97	(88 - 110)			SW846 6010B	11/19-11/21/03	3317761
	99	(88 - 110)	2.5	(0-20)	SW846 6010B	11/19-11/21/03	3317761
		Dilution Factor: 1			Analysis Time..: 22:57		
Lead	98	(91 - 111)			SW846 6010B	11/19-11/20/03	3317761
	100	(91 - 111)	1.9	(0-20)	SW846 6010B	11/19-11/20/03	3317761
		Dilution Factor: 1			Analysis Time..: 17:57		
Manganese	98	(90 - 110)			SW846 6010B	11/19-11/21/03	3317761
	100	(90 - 110)	2.5	(0-20)	SW846 6010B	11/19-11/21/03	3317761
		Dilution Factor: 1			Analysis Time..: 22:57		
Molybdenum	91	(83 - 109)			SW846 6010B	11/19-11/20/03	3317761
	96	(83 - 109)	6.1	(0-20)	SW846 6010B	11/19-11/20/03	3317761
		Dilution Factor: 1			Analysis Time..: 17:57		
Nickel	99	(90 - 110)			SW846 6010B	11/19-11/20/03	3317761
	101	(90 - 110)	2.3	(0-20)	SW846 6010B	11/19-11/20/03	3317761
		Dilution Factor: 1			Analysis Time..: 17:57		
Selenium	97	(88 - 110)			SW846 6010B	11/19-11/20/03	3317761
	99	(88 - 110)	2.1	(0-20)	SW846 6010B	11/19-11/20/03	3317761
		Dilution Factor: 1			Analysis Time..: 17:57		
Silver	102	(85 - 114)			SW846 6010B	11/19-11/20/03	3317761
	104	(85 - 114)	2.1	(0-20)	SW846 6010B	11/19-11/20/03	3317761
		Dilution Factor: 1			Analysis Time..: 17:57		
Thallium	97	(88 - 108)			SW846 6010B	11/19-11/20/03	3317761
	99	(88 - 108)	2.6	(0-20)	SW846 6010B	11/19-11/20/03	3317761
		Dilution Factor: 1			Analysis Time..: 17:57		
Zinc	94	(85 - 110)			SW846 6010B	11/19-11/20/03	3317761
	96	(85 - 110)	2.0	(0-20)	SW846 6010B	11/19-11/20/03	3317761
		Dilution Factor: 1			Analysis Time..: 17:57		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Lot-Sample #...: D3K120128 Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Aluminum	2000	1950	ug/L	97		SW846 6010B	11/19-11/21/03	3317761
	2000	2000	ug/L	100	2.8	SW846 6010B	11/19-11/21/03	3317761
			Dilution Factor: 1			Analysis Time..: 22:57		
Antimony	500	468	ug/L	94		SW846 6010B	11/19-11/20/03	3317761
	500	494	ug/L	99	5.4	SW846 6010B	11/19-11/20/03	3317761
			Dilution Factor: 1			Analysis Time..: 17:57		
Arsenic	2000	1920	ug/L	96		SW846 6010B	11/19-11/20/03	3317761
	2000	1970	ug/L	98	2.5	SW846 6010B	11/19-11/20/03	3317761
			Dilution Factor: 1			Analysis Time..: 17:57		
Barium	2000	2090	ug/L	105		SW846 6010B	11/19-11/20/03	3317761
	2000	2140	ug/L	107	2.4	SW846 6010B	11/19-11/20/03	3317761
			Dilution Factor: 1			Analysis Time..: 17:57		
Beryllium	50.0	47.0	ug/L	94		SW846 6010B	11/19-11/20/03	3317761
	50.0	48.7	ug/L	97	3.4	SW846 6010B	11/19-11/20/03	3317761
			Dilution Factor: 1			Analysis Time..: 17:57		
Boron	1000	956	ug/L	96		SW846 6010B	11/19-11/21/03	3317761
	1000	998	ug/L	100	4.3	SW846 6010B	11/19-11/21/03	3317761
			Dilution Factor: 1			Analysis Time..: 22:57		
Cadmium	50.0	48.2	ug/L	96		SW846 6010B	11/19-11/20/03	3317761
	50.0	49.8	ug/L	100	3.1	SW846 6010B	11/19-11/20/03	3317761
			Dilution Factor: 1			Analysis Time..: 17:57		
Chromium	200	189	ug/L	95		SW846 6010B	11/19-11/20/03	3317761
	200	195	ug/L	98	2.9	SW846 6010B	11/19-11/20/03	3317761
			Dilution Factor: 1			Analysis Time..: 17:57		
Cobalt	500	474	ug/L	95		SW846 6010B	11/19-11/20/03	3317761
	500	487	ug/L	97	2.7	SW846 6010B	11/19-11/20/03	3317761
			Dilution Factor: 1			Analysis Time..: 17:57		
Copper	250	243	ug/L	97		SW846 6010B	11/19-11/20/03	3317761
	250	249	ug/L	100	2.4	SW846 6010B	11/19-11/20/03	3317761
			Dilution Factor: 1			Analysis Time..: 17:57		

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Lot-Sample #...: D3K120128 Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Iron	1000	968	ug/L	97		SW846 6010B	11/19-11/21/03	3317761
	1000	992	ug/L	99	2.5	SW846 6010B	11/19-11/21/03	3317761
		Dilution Factor: 1				Analysis Time..: 22:57		
Lead	500	492	ug/L	98		SW846 6010B	11/19-11/20/03	3317761
	500	501	ug/L	100	1.9	SW846 6010B	11/19-11/20/03	3317761
		Dilution Factor: 1				Analysis Time..: 17:57		
Manganese	500	488	ug/L	98		SW846 6010B	11/19-11/21/03	3317761
	500	501	ug/L	100	2.5	SW846 6010B	11/19-11/21/03	3317761
		Dilution Factor: 1				Analysis Time..: 22:57		
Molybdenum	1000	907	ug/L	91		SW846 6010B	11/19-11/20/03	3317761
	1000	964	ug/L	96	6.1	SW846 6010B	11/19-11/20/03	3317761
		Dilution Factor: 1				Analysis Time..: 17:57		
Nickel	500	493	ug/L	99		SW846 6010B	11/19-11/20/03	3317761
	500	504	ug/L	101	2.3	SW846 6010B	11/19-11/20/03	3317761
		Dilution Factor: 1				Analysis Time..: 17:57		
Selenium	2000	1950	ug/L	97		SW846 6010B	11/19-11/20/03	3317761
	2000	1990	ug/L	99	2.1	SW846 6010B	11/19-11/20/03	3317761
		Dilution Factor: 1				Analysis Time..: 17:57		
Silver	50.0	50.8	ug/L	102		SW846 6010B	11/19-11/20/03	3317761
	50.0	51.9	ug/L	104	2.1	SW846 6010B	11/19-11/20/03	3317761
		Dilution Factor: 1				Analysis Time..: 17:57		
Thallium	2000	1930	ug/L	97		SW846 6010B	11/19-11/20/03	3317761
	2000	1980	ug/L	99	2.6	SW846 6010B	11/19-11/20/03	3317761
		Dilution Factor: 1				Analysis Time..: 17:57		
Zinc	500	468	ug/L	94		SW846 6010B	11/19-11/20/03	3317761
	500	478	ug/L	96	2.0	SW846 6010B	11/19-11/20/03	3317761
		Dilution Factor: 1				Analysis Time..: 17:57		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: D3K120128 Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: D3K130000-398 Prep Batch #...: 3317398					
Mercury	95	(84 - 114)	SW846 7470A	11/18/03	F4QF21AC
		Dilution Factor: 1	Analysis Time..: 18:11		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: D3K120128 Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: D3K130000-398 Prep Batch #...: 3317398							
Mercury	5.00	4.76	ug/L	95	SW846 7470A	11/18/03	F4QF21AC
			Dilution Factor: 1		Analysis Time..: 18:11		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: D3K120128 Matrix.....: WATER
Date Sampled...: 11/11/03 12:00 Date Received..: 11/12/03

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: D3K120128-001 Prep Batch #...: 3317398							
Mercury	98	(84 - 114)			SW846 7470A	11/18/03	F4L7C1CJ
	99	(84 - 114)	1.6	(0-10)	SW846 7470A	11/18/03	F4L7C1CK

Dilution Factor: 1
Analysis Time..: 18:15

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: D3K120128 Matrix.....: WATER
Date Sampled...: 11/11/03 12:00 Date Received..: 11/12/03

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: D3K120128-001 Prep Batch #...: 3317398									
Mercury									
	ND	5.00	4.88	ug/L	98		SW846 7470A	11/18/03	F4L7C1CJ
	ND	5.00	4.96	ug/L	99	1.6	SW846 7470A	11/18/03	F4L7C1CK

Dilution Factor: 1
Analysis Time..: 18:15

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: D3K120128 Matrix.....: WATER
Date Sampled...: 11/07/03 14:00 Date Received..: 11/07/03

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: D3K070365-001 Prep Batch #...: 3317761							
Aluminum	NC,MSB	(83 - 119)			SW846 6010B	11/19-11/21/03	F4E321C1
	NC,MSB	(83 - 119)		(0-25)	SW846 6010B	11/19-11/21/03	F4E321C2
		Dilution Factor: 1					
		Analysis Time..: 23:41					
Antimony	38 N	(81 - 124)			SW846 6010B	11/19-11/20/03	F4E321C3
	44 N	(81 - 124)	13	(0-25)	SW846 6010B	11/19-11/20/03	F4E321C4
		Dilution Factor: 1					
		Analysis Time..: 18:49					
Arsenic	95	(84 - 124)			SW846 6010B	11/19-11/20/03	F4E321C5
	95	(84 - 124)	0.51	(0-25)	SW846 6010B	11/19-11/20/03	F4E321C6
		Dilution Factor: 1					
		Analysis Time..: 18:49					
Barium	92	(85 - 120)			SW846 6010B	11/19-11/20/03	F4E321C7
	95	(85 - 120)	2.4	(0-25)	SW846 6010B	11/19-11/20/03	F4E321C8
		Dilution Factor: 1					
		Analysis Time..: 18:49					
Beryllium	84	(79 - 121)			SW846 6010B	11/19-11/20/03	F4E321C9
	84	(79 - 121)	0.06	(0-25)	SW846 6010B	11/19-11/20/03	F4E321DA
		Dilution Factor: 1					
		Analysis Time..: 18:49					
Boron	93	(87 - 113)			SW846 6010B	11/19-11/21/03	F4E321EH
	101	(87 - 113)	6.1	(0-25)	SW846 6010B	11/19-11/21/03	F4E321EJ
		Dilution Factor: 1					
		Analysis Time..: 23:41					
Cadmium	85	(82 - 119)			SW846 6010B	11/19-11/20/03	F4E321DC
	85	(82 - 119)	0.09	(0-25)	SW846 6010B	11/19-11/20/03	F4E321DD
		Dilution Factor: 1					
		Analysis Time..: 18:49					
Chromium	84	(73 - 135)			SW846 6010B	11/19-11/20/03	F4E321EE
	83	(73 - 135)	1.2	(0-25)	SW846 6010B	11/19-11/20/03	F4E321EF
		Dilution Factor: 1					
		Analysis Time..: 18:49					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: D3K120128 Matrix.....: WATER
Date Sampled...: 11/07/03 14:00 Date Received..: 11/07/03

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	86	(82 - 119)			SW846 6010B	11/19-11/20/03	F4E321DG
	87	(82 - 119)	0.12	(0-25)	SW846 6010B	11/19-11/20/03	F4E321DH
		Dilution Factor: 1					
		Analysis Time..: 18:49					
Copper	103	(82 - 129)			SW846 6010B	11/19-11/20/03	F4E321DJ
	104	(82 - 129)	0.55	(0-25)	SW846 6010B	11/19-11/20/03	F4E321DK
		Dilution Factor: 1					
		Analysis Time..: 18:49					
Iron	NC,MSB	(52 - 155)			SW846 6010B	11/19-11/21/03	F4E321DL
	NC,MSB	(52 - 155)		(0-25)	SW846 6010B	11/19-11/21/03	F4E321DM
		Dilution Factor: 1					
		Analysis Time..: 23:41					
Lead	90	(89 - 121)			SW846 6010B	11/19-11/20/03	F4E321DN
	91	(89 - 121)	0.69	(0-25)	SW846 6010B	11/19-11/20/03	F4E321DP
		Dilution Factor: 1					
		Analysis Time..: 18:49					
Manganese	NC,MSB	(79 - 121)			SW846 6010B	11/19-11/21/03	F4E321DT
	NC,MSB	(79 - 121)		(0-25)	SW846 6010B	11/19-11/21/03	F4E321DU
		Dilution Factor: 1					
		Analysis Time..: 23:41					
Molybdenum	81 N	(83 - 109)			SW846 6010B	11/19-11/20/03	F4E321EL
	83	(83 - 109)	2.7	(0-25)	SW846 6010B	11/19-11/20/03	F4E321EM
		Dilution Factor: 1					
		Analysis Time..: 18:49					
Nickel	86	(84 - 120)			SW846 6010B	11/19-11/20/03	F4E321DV
	86	(84 - 120)	0.54	(0-25)	SW846 6010B	11/19-11/20/03	F4E321DW
		Dilution Factor: 1					
		Analysis Time..: 18:49					
Selenium	105	(71 - 140)			SW846 6010B	11/19-11/20/03	F4E321D1
	106	(71 - 140)	0.74	(0-25)	SW846 6010B	11/19-11/20/03	F4E321D2
		Dilution Factor: 1					
		Analysis Time..: 18:49					
Silver	103	(75 - 141)			SW846 6010B	11/19-11/20/03	F4E321D3
	102	(75 - 141)	0.65	(0-25)	SW846 6010B	11/19-11/20/03	F4E321D4
		Dilution Factor: 1					
		Analysis Time..: 18:49					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: D3K120128 Matrix.....: WATER
Date Sampled...: 11/07/03 14:00 Date Received..: 11/07/03

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	93	(90 - 116)			SW846 6010B	11/19-11/20/03	F4E321D7
	93	(90 - 116)	0.42	(0-25)	SW846 6010B	11/19-11/20/03	F4E321D8
		Dilution Factor: 1					
		Analysis Time..: 18:49					
Zinc	90	(60 - 137)			SW846 6010B	11/19-11/20/03	F4E321EC
	90	(60 - 137)	0.11	(0-25)	SW846 6010B	11/19-11/20/03	F4E321ED
		Dilution Factor: 1					
		Analysis Time..: 18:49					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

NC The recovery and/or RPD were not calculated.

MSB The recovery and RPD were not calculated because the sample amount was greater than four times the spike amount.

N Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: D3K120128 Matrix.....: WATER
Date Sampled...: 11/07/03 14:00 Date Received..: 11/07/03

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: D3K070365-001 Prep Batch #...: 3317761									
Aluminum									
	100000	2000	209000	ug/L			SW846 6010B	11/19-11/21/03	F4E321C1
			Qualifiers: NC,MSB						
	100000	2000	201000	ug/L			SW846 6010B	11/19-11/21/03	F4E321C2
			Qualifiers: NC,MSB						
			Dilution Factor: 1						
			Analysis Time..: 23:41						
Antimony									
	ND	500	193 N	ug/L	38		SW846 6010B	11/19-11/20/03	F4E321C3
	ND	500	220 N	ug/L	44	13	SW846 6010B	11/19-11/20/03	F4E321C4
			Dilution Factor: 1						
			Analysis Time..: 18:49						
Arsenic									
	14	2000	1910	ug/L	95		SW846 6010B	11/19-11/20/03	F4E321C5
	14	2000	1920	ug/L	95	0.51	SW846 6010B	11/19-11/20/03	F4E321C6
			Dilution Factor: 1						
			Analysis Time..: 18:49						
Barium									
	970	2000	2800	ug/L	92		SW846 6010B	11/19-11/20/03	F4E321C7
	970	2000	2870	ug/L	95	2.4	SW846 6010B	11/19-11/20/03	F4E321C8
			Dilution Factor: 1						
			Analysis Time..: 18:49						
Beryllium									
	20	50.0	62.0	ug/L	84		SW846 6010B	11/19-11/20/03	F4E321C9
	20	50.0	61.9	ug/L	84	0.06	SW846 6010B	11/19-11/20/03	F4E321DA
			Dilution Factor: 1						
			Analysis Time..: 18:49						
Boron									
	290	1000	1220	ug/L	93		SW846 6010B	11/19-11/21/03	F4E321EH
	290	1000	1300	ug/L	101	6.1	SW846 6010B	11/19-11/21/03	F4E321EJ
			Dilution Factor: 1						
			Analysis Time..: 23:41						
Cadmium									
	10	50.0	52.9	ug/L	85		SW846 6010B	11/19-11/20/03	F4E321DC
	10	50.0	52.9	ug/L	85	0.09	SW846 6010B	11/19-11/20/03	F4E321DD
			Dilution Factor: 1						
			Analysis Time..: 18:49						

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: D3K120128 Matrix.....: WATER
Date Sampled...: 11/07/03 14:00 Date Received..: 11/07/03

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Chromium									
	45	200	213	ug/L	84		SW846 6010B	11/19-11/20/03	F4E321EE
	45	200	211	ug/L	83	1.2	SW846 6010B	11/19-11/20/03	F4E321EF
			Dilution Factor: 1						
			Analysis Time..: 18:49						
Cobalt									
	190	500	624	ug/L	86		SW846 6010B	11/19-11/20/03	F4E321DG
	190	500	625	ug/L	87	0.12	SW846 6010B	11/19-11/20/03	F4E321DH
			Dilution Factor: 1						
			Analysis Time..: 18:49						
Copper									
	140	250	399	ug/L	103		SW846 6010B	11/19-11/20/03	F4E321DJ
	140	250	401	ug/L	104	0.55	SW846 6010B	11/19-11/20/03	F4E321DK
			Dilution Factor: 1						
			Analysis Time..: 18:49						
Iron									
	52000	1000	62400	ug/L			SW846 6010B	11/19-11/21/03	F4E321DL
			Qualifiers: NC,MSB						
	52000	1000	61900	ug/L			SW846 6010B	11/19-11/21/03	F4E321DM
			Qualifiers: NC,MSB						
			Dilution Factor: 1						
			Analysis Time..: 23:41						
Lead									
	130	500	577	ug/L	90		SW846 6010B	11/19-11/20/03	F4E321DN
	130	500	581	ug/L	91	0.69	SW846 6010B	11/19-11/20/03	F4E321DP
			Dilution Factor: 1						
			Analysis Time..: 18:49						
Manganese									
	17000	500	18800	ug/L			SW846 6010B	11/19-11/21/03	F4E321DT
			Qualifiers: NC,MSB						
	17000	500	19200	ug/L			SW846 6010B	11/19-11/21/03	F4E321DU
			Qualifiers: NC,MSB						
			Dilution Factor: 1						
			Analysis Time..: 23:41						
Molybdenum									
	10	1000	820 N	ug/L	81		SW846 6010B	11/19-11/20/03	F4E321EL
	10	1000	842	ug/L	83	2.7	SW846 6010B	11/19-11/20/03	F4E321EM
			Dilution Factor: 1						
			Analysis Time..: 18:49						

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: D3K120128 Matrix.....: WATER
Date Sampled...: 11/07/03 14:00 Date Received..: 11/07/03

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Nickel									
	210	500	636	ug/L	86		SW846 6010B	11/19-11/20/03	F4E321DV
	210	500	640	ug/L	86	0.54	SW846 6010B	11/19-11/20/03	F4E321DW
			Dilution Factor: 1						
			Analysis Time..: 18:49						
Selenium									
	34	2000	2140	ug/L	105		SW846 6010B	11/19-11/20/03	F4E321D1
	34	2000	2160	ug/L	106	0.74	SW846 6010B	11/19-11/20/03	F4E321D2
			Dilution Factor: 1						
			Analysis Time..: 18:49						
Silver									
	5.1	50.0	56.5	ug/L	103		SW846 6010B	11/19-11/20/03	F4E321D3
	5.1	50.0	56.2	ug/L	102	0.65	SW846 6010B	11/19-11/20/03	F4E321D4
			Dilution Factor: 1						
			Analysis Time..: 18:49						
Thallium									
	ND	2000	1850	ug/L	93		SW846 6010B	11/19-11/20/03	F4E321D7
	ND	2000	1860	ug/L	93	0.42	SW846 6010B	11/19-11/20/03	F4E321D8
			Dilution Factor: 1						
			Analysis Time..: 18:49						
Zinc									
	1000	500	1460	ug/L	90		SW846 6010B	11/19-11/20/03	F4E321EC
	1000	500	1450	ug/L	90	0.11	SW846 6010B	11/19-11/20/03	F4E321ED
			Dilution Factor: 1						
			Analysis Time..: 18:49						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

NC The recovery and/or RPD were not calculated.

MSB The recovery and RPD were not calculated because the sample amount was greater than four times the spike amount.

N Spiked analyte recovery is outside stated control limits.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: D3K120128 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chemical Oxygen Demand (COD)		Work Order #: F5G561AA		MB Lot-Sample #:	D3K230000-118	
	ND	20	mg/L	MCAWW 410.4	11/23/03	3327118
		Dilution Factor: 1				
		Analysis Time..: 13:40				
Chloride		Work Order #: F4RKQ1AA		MB Lot-Sample #:	D3K130000-591	
	ND	3.0	mg/L	MCAWW 300.0A	11/12/03	3317591
		Dilution Factor: 1				
		Analysis Time..: 12:54				
Fecal Coliform		Work Order #: F403L1AA		MB Lot-Sample #:	D3K170000-262	
	ND	1.0	CFU/100m	SM18 9222D Fecal	11/12/03	3321262
		Dilution Factor: 1				
		Analysis Time..: 11:00				
Fluoride		Work Order #: F4RHV1AA		MB Lot-Sample #:	D3K130000-590	
	ND	1.0	mg/L	MCAWW 300.0A	11/12/03	3317590
		Dilution Factor: 1				
		Analysis Time..: 12:54				
Nitrate		Work Order #: F4RNA1AA		MB Lot-Sample #:	D3K130000-593	
	ND	0.50	mg/L	MCAWW 300.0A	11/12/03	3317593
		Dilution Factor: 1				
		Analysis Time..: 12:54				
Nitrite		Work Order #: F4RLP1AA		MB Lot-Sample #:	D3K130000-594	
	ND	0.50	mg/L	MCAWW 300.0A	11/12/03	3317594
		Dilution Factor: 1				
		Analysis Time..: 12:54				
Specific Conductance		Work Order #: F42QA1AA		MB Lot-Sample #:	D3K170000-475	
	ND	2.0	umhos/cm	MCAWW 120.1	11/17/03	3321475
		Dilution Factor: 1				
		Analysis Time..: 12:00				
Sulfate		Work Order #: F4RNG1AA		MB Lot-Sample #:	D3K130000-592	
	ND	5.0	mg/L	MCAWW 300.0A	11/12/03	3317592
		Dilution Factor: 1				
		Analysis Time..: 12:54				
Total Coliform		Work Order #: F403R1AA		MB Lot-Sample #:	D3K170000-264	
	ND	1.0	CFU/100m	SM18 9222B	11/12/03	3321264
		Dilution Factor: 1				
		Analysis Time..: 11:00				

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METHOD BLANK REPORT

General Chemistry

Client Lot #...: D3K120128 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Cyanide		Work Order #: F48JP1AA		MB Lot-Sample #:	D3K200000-356	
	ND	0.010	mg/L	MCAWW 335.3	11/19/03	3324356
		Dilution Factor: 1				
		Analysis Time..: 13:00				
Total Dissolved Solids		Work Order #: F5NND1AA		MB Lot-Sample #:	D3K250000-641	
	ND	10	mg/L	MCAWW 160.1	11/17/03	3329641
		Dilution Factor: 1				
		Analysis Time..: 18:00				
Total Suspended Solids		Work Order #: F49R21AA		MB Lot-Sample #:	D3K200000-539	
	ND	4.0	mg/L	MCAWW 160.2	11/17/03	3324539
		Dilution Factor: 1				
		Analysis Time..: 20:00				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Lot-Sample #...: D3K120128 Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chemical Oxygen Demand (COD)		WO#:F5G561AC-LCS/F5G561AD-LCSD LCS Lot-Sample#: D3K230000-118					
	95	(86 - 114)			MCAWW 410.4	11/23/03	3327118
	94	(86 - 114)	0.34	(0-11)	MCAWW 410.4	11/23/03	3327118
		Dilution Factor: 1			Analysis Time..: 13:40		
Chloride		WO#:F4RKQ1AC-LCS/F4RKQ1AD-LCSD LCS Lot-Sample#: D3K130000-591					
	102	(90 - 110)			MCAWW 300.0A	11/12/03	3317591
	103	(90 - 110)	0.68	(0-10)	MCAWW 300.0A	11/12/03	3317591
		Dilution Factor: 1			Analysis Time..: 12:31		
Fluoride		WO#:F4RHV1AC-LCS/F4RHV1AD-LCSD LCS Lot-Sample#: D3K130000-590					
	105	(90 - 110)			MCAWW 300.0A	11/12/03	3317590
	106	(90 - 110)	0.95	(0-10)	MCAWW 300.0A	11/12/03	3317590
		Dilution Factor: 1			Analysis Time..: 12:31		
Nitrate		WO#:F4RNA1AC-LCS/F4RNA1AD-LCSD LCS Lot-Sample#: D3K130000-593					
	100	(90 - 110)			MCAWW 300.0A	11/12/03	3317593
	100	(90 - 110)	0.25	(0-10)	MCAWW 300.0A	11/12/03	3317593
		Dilution Factor: 1			Analysis Time..: 12:31		
Nitrite		WO#:F4RLP1AC-LCS/F4RLP1AD-LCSD LCS Lot-Sample#: D3K130000-594					
	110	(90 - 110)			MCAWW 300.0A	11/12/03	3317594
	108	(90 - 110)	1.1	(0-10)	MCAWW 300.0A	11/12/03	3317594
		Dilution Factor: 1			Analysis Time..: 12:31		
Specific Conductance		WO#:F42QA1AC-LCS/F42QA1AD-LCSD LCS Lot-Sample#: D3K170000-475					
	103	(89 - 109)			MCAWW 120.1	11/17/03	3321475
	101	(89 - 109)	1.6	(0-7.0)	MCAWW 120.1	11/17/03	3321475
		Dilution Factor: 1			Analysis Time..: 12:00		
Sulfate		WO#:F4RNG1AC-LCS/F4RNG1AD-LCSD LCS Lot-Sample#: D3K130000-592					
	100	(90 - 110)			MCAWW 300.0A	11/12/03	3317592
	100	(90 - 110)	0.35	(0-10)	MCAWW 300.0A	11/12/03	3317592
		Dilution Factor: 1			Analysis Time..: 12:31		
Total Dissolved Solids		WO#:F5NND1AC-LCS/F5NND1AD-LCSD LCS Lot-Sample#: D3K250000-641					
	102	(86 - 106)			MCAWW 160.1	11/17/03	3329641
	104	(86 - 106)	1.4	(0-20)	MCAWW 160.1	11/17/03	3329641
		Dilution Factor: 1			Analysis Time..: 18:00		

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Lot-Sample #...: D3K120128 Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Suspended Solids		WO#:F49R21AC-LCS/F49R21AD-LCSD				LCS Lot-Sample#: D3K200000-539	
	102	(86 - 114)			MCAWW 160.2	11/17/03	3324539
	102	(86 - 114)	0.39	(0-20)	MCAWW 160.2	11/17/03	3324539

Dilution Factor: 1 Analysis Time..: 20:00

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Lot-Sample #...: D3K120128 Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chemical Oxygen Demand (COD)			WO#:F5G561AC-LCS/F5G561AD-LCSD			LCS Lot-Sample#: D3K230000-118		
	100	94.6	mg/L	95		MCAWW 410.4	11/23/03	3327118
	100	94.3	mg/L	94	0.34	MCAWW 410.4	11/23/03	3327118
			Dilution Factor: 1			Analysis Time..: 13:40		
Chloride			WO#:F4RKQ1AC-LCS/F4RKQ1AD-LCSD			LCS Lot-Sample#: D3K130000-591		
	20.0	20.5	mg/L	102		MCAWW 300.0A	11/12/03	3317591
	20.0	20.6	mg/L	103	0.68	MCAWW 300.0A	11/12/03	3317591
			Dilution Factor: 1			Analysis Time..: 12:31		
Fluoride			WO#:F4RHV1AC-LCS/F4RHV1AD-LCSD			LCS Lot-Sample#: D3K130000-590		
	4.00	4.19	mg/L	105		MCAWW 300.0A	11/12/03	3317590
	4.00	4.23	mg/L	106	0.95	MCAWW 300.0A	11/12/03	3317590
			Dilution Factor: 1			Analysis Time..: 12:31		
Nitrate			WO#:F4RNA1AC-LCS/F4RNA1AD-LCSD			LCS Lot-Sample#: D3K130000-593		
	4.00	3.99	mg/L	100		MCAWW 300.0A	11/12/03	3317593
	4.00	3.98	mg/L	100	0.25	MCAWW 300.0A	11/12/03	3317593
			Dilution Factor: 1			Analysis Time..: 12:31		
Nitrite			WO#:F4RLP1AC-LCS/F4RLP1AD-LCSD			LCS Lot-Sample#: D3K130000-594		
	4.00	4.39	mg/L	110		MCAWW 300.0A	11/12/03	3317594
	4.00	4.34	mg/L	108	1.1	MCAWW 300.0A	11/12/03	3317594
			Dilution Factor: 1			Analysis Time..: 12:31		
Specific Conductance			WO#:F42QA1AC-LCS/F42QA1AD-LCSD			LCS Lot-Sample#: D3K170000-475		
	1000	1030	umhos/cm	103		MCAWW 120.1	11/17/03	3321475
	1000	1010	umhos/cm	101	1.6	MCAWW 120.1	11/17/03	3321475
			Dilution Factor: 1			Analysis Time..: 12:00		
Sulfate			WO#:F4RNG1AC-LCS/F4RNG1AD-LCSD			LCS Lot-Sample#: D3K130000-592		
	20.0	20.0	mg/L	100		MCAWW 300.0A	11/12/03	3317592
	20.0	19.9	mg/L	100	0.35	MCAWW 300.0A	11/12/03	3317592
			Dilution Factor: 1			Analysis Time..: 12:31		
Total Dissolved Solids			WO#:F5NND1AC-LCS/F5NND1AD-LCSD			LCS Lot-Sample#: D3K250000-641		
	500	511	mg/L	102		MCAWW 160.1	11/17/03	3329641
	500	518	mg/L	104	1.4	MCAWW 160.1	11/17/03	3329641
			Dilution Factor: 1			Analysis Time..: 18:00		

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Lot-Sample #...: D3K120128 Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Suspended Solids		WO#:F49R21AC-LCS/F49R21AD-LCSD				LCS Lot-Sample#: D3K200000-539		
	250	254	mg/L	102		MCAWW 160.2	11/17/03	3324539
	250	255	mg/L	102	0.39	MCAWW 160.2	11/17/03	3324539

Dilution Factor: 1 Analysis Time..: 20:00

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: D3K120128 Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Cyanide		Work Order #: F48JP1AC	LCS Lot-Sample#: D3K200000-356		
	107	(89 - 109)	MCAWW 335.3	11/19/03	3324356

Dilution Factor: 1 Analysis Time..: 13:00

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: D3K120128 Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Cyanide			Work Order #: F48JP1AC		LCS Lot-Sample#: D3K200000-356		
	0.100	0.107	mg/L	107	MCAWW 335.3	11/19/03	3324356
			Dilution Factor: 1		Analysis Time..: 13:00		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: D3K120128 Matrix.....: WATER
Date Sampled...: 11/13/03 12:40 Date Received..: 11/14/03

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chemical Oxygen Demand (COD)		WO#: F4V9C1AH-MS/F4V9C1AJ-MSD				MS Lot-Sample #: D3K140280-007	
	97	(86 - 114)			MCAWW 410.4	11/23/03	3327119
	101	(86 - 114)	2.2	(0-11)	MCAWW 410.4	11/23/03	3327119
		Dilution Factor: 1					
		Analysis Time..: 13:40					
Chloride		WO#: F4L8K1CK-MS/F4L8K1CL-MSD				MS Lot-Sample #: D3K120125-007	
	106	(80 - 120)			MCAWW 300.0A	11/12/03	3317591
	107	(80 - 120)	0.71	(0-10)	MCAWW 300.0A	11/12/03	3317591
		Dilution Factor: 1					
		Analysis Time..: 17:01					
Fluoride		WO#: F4L8K1CH-MS/F4L8K1CJ-MSD				MS Lot-Sample #: D3K120125-007	
	102	(80 - 120)			MCAWW 300.0A	11/12/03	3317590
	102	(80 - 120)	0.19	(0-10)	MCAWW 300.0A	11/12/03	3317590
		Dilution Factor: 1					
		Analysis Time..: 17:01					
Nitrate		WO#: F4L8K1CP-MS/F4L8K1CQ-MSD				MS Lot-Sample #: D3K120125-007	
	99	(80 - 120)			MCAWW 300.0A	11/12/03	3317593
	100	(80 - 120)	0.56	(0-10)	MCAWW 300.0A	11/12/03	3317593
		Dilution Factor: 1					
		Analysis Time..: 17:01					
Nitrite		WO#: F4L8K1CM-MS/F4L8K1CN-MSD				MS Lot-Sample #: D3K120125-007	
	109	(80 - 120)			MCAWW 300.0A	11/12/03	3317594
	109	(80 - 120)	0.18	(0-10)	MCAWW 300.0A	11/12/03	3317594
		Dilution Factor: 1					
		Analysis Time..: 17:01					
Sulfate		WO#: F4L8K1CR-MS/F4L8K1CT-MSD				MS Lot-Sample #: D3K120125-007	
	116 I	(80 - 120)			MCAWW 300.0A	11/12/03	3317592
	117 I	(80 - 120)	0.28	(0-10)	MCAWW 300.0A	11/12/03	3317592
		Dilution Factor: 1					
		Analysis Time..: 17:01					
Total Cyanide		WO#: F4MEW1AP-MS/F4MEW1AQ-MSD				MS Lot-Sample #: D3K120149-001	
	104	(78 - 120)			MCAWW 335.3	11/19/03	3324356
	105	(78 - 120)	0.94	(0-20)	MCAWW 335.3	11/19/03	3324356
		Dilution Factor: 1					
		Analysis Time..: 13:00					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

I Estimated result. Result concentration exceeds the calibration range.

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: D3K120128 Matrix.....: WATER
Date Sampled...: 11/13/03 12:40 Date Received..: 11/14/03

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chemical Oxygen Demand (COD)			WO#: F4V9C1AH-MS/F4V9C1AJ-MSD				MS Lot-Sample #: D3K140280-007		
	40	50.0	88.8	mg/L	97		MCAWW 410.4	11/23/03	3327119
	40	50.0	90.8	mg/L	101	2.2	MCAWW 410.4	11/23/03	3327119
			Dilution Factor: 1						
			Analysis Time..: 13:40						
Chloride			WO#: F4L8K1CK-MS/F4L8K1CL-MSD				MS Lot-Sample #: D3K120125-007		
	22	25.0	48.7	mg/L	106		MCAWW 300.0A	11/12/03	3317591
	22	25.0	49.1	mg/L	107	0.71	MCAWW 300.0A	11/12/03	3317591
			Dilution Factor: 1						
			Analysis Time..: 17:01						
Fluoride			WO#: F4L8K1CH-MS/F4L8K1CJ-MSD				MS Lot-Sample #: D3K120125-007		
	ND	5.00	5.12	mg/L	102		MCAWW 300.0A	11/12/03	3317590
	ND	5.00	5.11	mg/L	102	0.19	MCAWW 300.0A	11/12/03	3317590
			Dilution Factor: 1						
			Analysis Time..: 17:01						
Nitrate			WO#: F4L8K1CP-MS/F4L8K1CQ-MSD				MS Lot-Sample #: D3K120125-007		
	0.36	5.00	5.33	mg/L	99		MCAWW 300.0A	11/12/03	3317593
	0.36	5.00	5.36	mg/L	100	0.56	MCAWW 300.0A	11/12/03	3317593
			Dilution Factor: 1						
			Analysis Time..: 17:01						
Nitrite			WO#: F4L8K1CM-MS/F4L8K1CN-MSD				MS Lot-Sample #: D3K120125-007		
	ND	5.00	5.46	mg/L	109		MCAWW 300.0A	11/12/03	3317594
	ND	5.00	5.47	mg/L	109	0.18	MCAWW 300.0A	11/12/03	3317594
			Dilution Factor: 1						
			Analysis Time..: 17:01						
Sulfate			WO#: F4L8K1CR-MS/F4L8K1CT-MSD				MS Lot-Sample #: D3K120125-007		
	41	25.0	69.5 I	mg/L	116		MCAWW 300.0A	11/12/03	3317592
	41	25.0	69.7 I	mg/L	117	0.28	MCAWW 300.0A	11/12/03	3317592
			Dilution Factor: 1						
			Analysis Time..: 17:01						
Total Cyanide			WO#: F4MEW1AP-MS/F4MEW1AQ-MSD				MS Lot-Sample #: D3K120149-001		
	ND	0.100	0.105	mg/L	104		MCAWW 335.3	11/19/03	3324356
	ND	0.100	0.106	mg/L	105	0.94	MCAWW 335.3	11/19/03	3324356
			Dilution Factor: 1						
			Analysis Time..: 13:00						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

I Estimated result. Result concentration exceeds the calibration range.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: D3K120128 Work Order #...: F4M33-SMP Matrix.....: WATER
F4M33-DUP
Date Sampled...: 11/12/03 06:05 Date Received..: 11/12/03

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Suspended Solids						SD Lot-Sample #:	D3K120185-002	
	80 Q	80 Q	mg/L	0.0	(0-20)	MCAWW 160.2	11/17/03	3324539

Dilution Factor: 2.5 Analysis Time..: 20:00

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: D3K120128 Work Order #...: F4MR6-SMP Matrix.....: WATER
F4MR6-DUP
Date Sampled...: 11/10/03 15:45 Date Received..: 11/12/03

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Dissolved Solids						SD Lot-Sample #: D3K120173-016		
	460	460	mg/L	1.1	(0-20)	MCAWW 160.1	11/17/03	3329641

Dilution Factor: 1 Analysis Time..: 18:00

Chain of Custody Record

3.1° 11.12

SEVERN TRENT **STL**

Severn Trent Laboratories, Inc.

STL Denver
4955 Yarrow Street
Arvada, CO 80002

STL-4124 (0901)

Client: Cook-Joyce Inc	Project Manager: Doug Grayer	Date: 11-11-03	Chain of Custody Number: 295419
Address: 812 W. 11th	Telephone Number (Area Code)/Fax Number: 512-474-9097	Lab Number	Page ____ of ____
City: Austin; State: TX; Zip Code: 78701	Site Contact	Lab Contact: Gail DeRuzzo	
Project Name and Location (State): Lockwood	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.: 54609			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed.	Soil		Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	H2S2O3	VOA	SVOA	Pest/PCB	OP Pest	Cyanide	Metals	TC Cl, F, SO4	TC NO3, NO2	TDS, TSS	Sp. Cond	COD	Fecal/Total Coliform	Special Instructions/ Conditions of Receipt
LES MW2	11-11-03	1200		X				8	1	1	3	1		2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☒ Archive For 3 Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☒ 21 Days ☐ Other ____

QC Requirements (Specify)

1. Relinquished By: [signature]	Date: 11-11-03	Time: 1330	1. Received By: [signature]	Date: 11/12/03	Time: 0830
2. Relinquished By	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

SEVERN TRENT STL

STL Denver
4955 Yarrow Street
Arvada, CO 80002

Tel: 303 736 0100 Fax: 303 431 7171
www.stl-inc.com

ANALYTICAL REPORT

2004X00404

URENCO Project

Lot #: D4C310153

Purchase Order 018511-0403003

Carl Jackson

Lockwood Greene
1500 International Drive
Spartanburg, SC 29304

STL DENVER

Gail DeRuzzo
Project Manager

May 6, 2004

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- Executive Summary – Detection Highlights
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- Method/Analyst Summary
- Lot Sample Summary
- Analytical Results
- QC Data Association Summary
- Chain-of-Custody

Case Narrative

Enclosed is the report for three samples received at STL's Denver laboratory on March 31, 2004. The results included in this report have been reviewed for compliance with STL Denver's Laboratory Quality Manual. The test results shown in this report meet all requirements of NELAC and any exceptions are noted below.

Dilution factors and footnotes have been provided to assist in the interpretation of the results. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interferences or analytes present at concentrations above the linear calibration curve, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

STL utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameters listed on the analytical methods summary page in accordance with the methods indicated. A summary of quality control parameters is provided below.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Quality Control Summary for Lot D4C310153

Sample Receiving

- The cooler temperature upon receipt at the Denver laboratory was 3.6° C.
- All sample bottles were received in acceptable condition.

Holding Times

- All holding times were met.

Method Blanks

- The analytes Methylene chloride by Method 8260B, Aluminum by Method 6010B, and Chemical Oxygen Demand (COD) by Method 410.4 were detected in the Method Blanks below the established reporting limits. No corrective action is taken for any values in Method Blanks that are below the requested reporting limits.
- All other Method Blanks were within established control limits.

Laboratory Control Samples

- All Laboratory Control Samples were within established control limits.

Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

- The Matrix Spike and/or Matrix Spike Duplicate recoveries were outside control limits for 1,1-Dichloroethene by Method 8260B and COD by Method 410.4. Because the corresponding Laboratory Control Samples and the Method Blank samples were within control limits, these anomalies may be due to matrix interference.
- The method required MS/MSDs could not be performed for Methods 8270C, 8081A, 8082, and 8141A due to insufficient sample volume, however, LCS/LCSD pairs were analyzed to demonstrate method precision.

- All other MS and MSD samples were within established control limits.

Organics

- The second source Initial Calibration Verification (ICV) standard for 1,1-Dichloroethene and Hexachlorobutadiene by Method 8260B exceeded the control limits (65-135%). However, the overall mean percent RSD for all compounds is within control limits, therefore, the ICAL is also in control and no corrective action was necessary.

- The Continuing Calibration Verification (CCV) standards for Demeton-S, O,O,O-Triethylphosphorothioate, Dichlorvos, Azinphos-methyl, Mevinphos, Dimethoate, Malathion, Tetrachlorvinphos, and Naled by Method 8141A exceeded the percent difference limits in various runs and columns. However, the overall mean percent difference is within control limits, therefore, the CCV is also in control and no corrective action was necessary. Additionally, the associated sample was non-detect.

- The Continuing Calibration Verification (CCV) standards for Endrin and Endrin aldehyde by Method 8081A exceeded the percent difference limits in various runs and columns. However, the overall mean percent difference is within control limits, therefore, the CCV is also in control and no corrective action was necessary. Additionally, the associated sample was non-detect.

Inorganics

- The calibration blank result exceed's STL's reporting limit for Thallium. The sample result is non-detect, therefore, there is no impact on the data.

EXECUTIVE SUMMARY - Detection Highlights

D4C310153

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
L.E.S. MW-2 03/29/04 16:35 001				
Aluminum	120 J	100	ug/L	SW846 6010B
Barium	14	10	ug/L	SW846 6010B
Boron	1800	100	ug/L	SW846 6010B
Chromium	6.3 B	10	ug/L	SW846 6010B
Copper	3.5 B	10	ug/L	SW846 6010B
Iron	39 B	100	ug/L	SW846 6010B
Manganese	900	10	ug/L	SW846 6010B
Molybdenum	40	20	ug/L	SW846 6010B
Nickel	8.8 B	40	ug/L	SW846 6010B
Zinc	11 B	20	ug/L	SW846 6010B
Methylene chloride	0.59 J,B	5.0	ug/L	SW846 8260B
Specific Conductance	9700	2.0	umhos/cm	MCAWW 120.1
Total Dissolved Solids	6300 Q	20	mg/L	MCAWW 160.1
Total Suspended Solids	7.6	4.0	mg/L	MCAWW 160.2
Chloride	1700 Q	300	mg/L	MCAWW 300.0A
Sulfate	2400 Q	500	mg/L	MCAWW 300.0A
Fluoride	0.81 B,G	5.0	mg/L	MCAWW 300.0A
Nitrate	0.44 B,G	2.5	mg/L	MCAWW 300.0A
Nitrite	1.1 B,G	2.5	mg/L	MCAWW 300.0A
Chemical Oxygen Demand (COD)	20 J	20	mg/L	MCAWW 410.4
TRIP BLANK 03/30/04 003				
Methylene chloride	0.63 J,B	5.0	ug/L	SW846 8260B

METHODS SUMMARY

D4C310153

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Chemical Oxygen Demand	MCAWW 410.4	MCAWW 410.4
Chloride	MCAWW 300.0A	MCAWW 300.0A
F. Coliform (Enumeration)	SM18 9222D Feca	SM18 9222D
Filterable Residue (TDS)	MCAWW 160.1	MCAWW 160.1
Fluoride	MCAWW 300.0A	MCAWW 300.0A
Inductively Coupled Plasma (ICP) Metals	SW846 6010B	SW846 3010A
Mercury in Liquid Waste (Manual Cold-Vapor)	SW846 7470A	SW846 7470A
Nitrate as N	MCAWW 300.0A	MCAWW 300.0A
Nitrite as N	MCAWW 300.0A	MCAWW 300.0A
Non-Filterable Residue (TSS)	MCAWW 160.2	MCAWW 160.2
Organochlorine Pesticides	SW846 8081A	SW846 3510C
Organophosphorous Compounds by GC	SW846 8141A	SW846 3510
PCBs by SW-846 8082	SW846 8082	SW846 3510C
Semivolatile Organic Compounds by GC/MS	SW846 8270C	SW846 3520C
Specific Conductance	MCAWW 120.1	MCAWW 120.1
Sulfate	MCAWW 300.0A	MCAWW 300.0A
T. Coliform (Enemeration)	SM18 9222B	SM18 9222B
Total Cyanide	MCAWW 335.3	MCAWW 335.3
Volatile Organics by GC/MS	SW846 8260B	SW846 5030B/826

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SM18 "Standard Methods for the Examination of Water and Wastewater", 18th Edition, 1992.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

METHOD / ANALYST SUMMARY

D4C310153

ANALYTICAL METHOD	ANALYST	ANALYST ID
MCAWW 120.1	Maria Fayard	002596
MCAWW 160.1	Jean Carrier	008763
MCAWW 160.2	Jean Carrier	008763
MCAWW 300.0A	Andrita Scofield	004409
MCAWW 335.3	Ewa Kudla	001167
MCAWW 410.4	Nicole Dean	008504
SM18 9222B	Maria Fayard	002596
SM18 9222D Fecal	Maria Fayard	002596
SW846 6010B	Lynn-Anne Trudell	6645
SW846 7470A	Kacey Ono	003371
SW846 8081A	Dennis Jonsrud	009226
SW846 8082	Steve Jetter	011748
SW846 8141A	Sonya Dacar	011595
SW846 8260B	Jason Reinhardt	013454
SW846 8270C	Rwanda Todea	005716

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SM18 "Standard Methods for the Examination of Water and Wastewater", 18th Edition, 1992.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

D4C310153

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
GC8WL	001	L.E.S. MW-2	03/29/04	16:3
GC8WT	002	L.E.S. MW-2	03/30/04	12:4
GC8WX	003	TRIP BLANK	03/30/04	

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

LOCKWOOD GREENE

Client Sample ID: L.E.S. MW-2

GC/MS Volatiles

Lot-Sample #...: D4C310153-001 Work Order #...: GC8WL1A8 Matrix.....: WATER
Date Sampled...: 03/29/04 16:35 Date Received..: 03/31/04
Prep Date.....: 04/07/04 Analysis Date..: 04/08/04
Prep Batch #...: 4099587 Analysis Time..: 04:30
Dilution Factor: 1

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	10	ug/L	2.5
Benzene	ND	1.0	ug/L	0.17
Bromodichloromethane	ND	1.0	ug/L	0.20
Bromoform	ND	1.0	ug/L	0.23
Bromomethane	ND	2.0	ug/L	0.22
2-Butanone (MEK)	ND	5.0	ug/L	2.0
Carbon tetrachloride	ND	1.0	ug/L	0.20
Chlorobenzene	ND	1.0	ug/L	0.13
Chloroethane	ND	2.0	ug/L	0.18
Chloroform	ND	1.0	ug/L	0.17
Chloromethane	ND	2.0	ug/L	0.91
Dibromomethane	ND	1.0	ug/L	0.31
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	0.18
1,2-Dichlorobenzene	ND	1.0	ug/L	0.15
1,3-Dichlorobenzene	ND	1.0	ug/L	0.13
1,4-Dichlorobenzene	ND	1.0	ug/L	0.16
Dichlorodifluoromethane	ND	2.0	ug/L	0.22
1,1-Dichloroethane	ND	1.0	ug/L	0.22
1,2-Dichloroethane	ND	1.0	ug/L	0.26
1,1-Dichloroethene	ND	1.0	ug/L	0.23
1,2-Dichloroethene (total)	ND	1.0	ug/L	0.24
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.14
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.15
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.19
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.20
Ethylbenzene	ND	1.0	ug/L	0.12
2-Hexanone	ND	5.0	ug/L	1.7
Methylene chloride	0.59 J,B	5.0	ug/L	0.21
4-Methyl-2-pentanone	ND	5.0	ug/L	0.98
Styrene	ND	1.0	ug/L	0.14
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.21
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.21
Tetrachloroethene	ND	1.0	ug/L	0.26
Toluene	ND	1.0	ug/L	0.15
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.21

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LOCKWOOD GREENE

Client Sample ID: L.E.S. MW-2

GC/MS Volatiles

Lot-Sample #...: D4C310153-001 Work Order #...: GC8WL1A8 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,1-Trichloroethane	ND	1.0	ug/L	0.16
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.16
Trichlorofluoromethane	ND	2.0	ug/L	0.24
1,2,3-Trichloropropane	ND	1.0	ug/L	0.33
Vinyl chloride	ND	1.0	ug/L	0.19
Xylenes (total)	ND	2.0	ug/L	0.41
n-Butylbenzene	ND	1.0	ug/L	0.21
sec-Butylbenzene	ND	1.0	ug/L	0.23
Isopropylbenzene	ND	1.0	ug/L	0.17
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.15
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.16
n-Propylbenzene	ND	1.0	ug/L	0.17
tert-Butylbenzene	ND	1.0	ug/L	0.17
Dibromochloromethane	ND	1.0	ug/L	0.19
2-Chlorotoluene	ND	1.0	ug/L	0.17
4-Chlorotoluene	ND	1.0	ug/L	0.21
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	ug/L	0.47
1,3-Dichloropropane	ND	1.0	ug/L	0.22
2,2-Dichloropropane	ND	5.0	ug/L	0.18
1,1-Dichloropropene	ND	1.0	ug/L	0.19
Hexachlorobutadiene	ND	1.0	ug/L	0.18
4-Isopropyltoluene	ND	1.0	ug/L	0.20
Methyl tert-butyl ether	ND	5.0	ug/L	0.38
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.21
m-Xylene & p-Xylene	ND	2.0	ug/L	0.27
o-Xylene	ND	1.0	ug/L	0.15
Bromobenzene	ND	1.0	ug/L	0.17
Bromochloromethane	ND	1.0	ug/L	0.27
Naphthalene	ND	1.0	ug/L	0.50

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	93	(76 - 116)
1,2-Dichloroethane-d4	76	(59 - 129)
4-Bromofluorobenzene	84	(74 - 114)
Toluene-d8	83	(76 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

LOCKWOOD GREENE

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #...: D4C310153-003 Work Order #...: GC8WX1AA Matrix.....: WATER
Date Sampled...: 03/30/04 Date Received..: 03/31/04
Prep Date.....: 04/07/04 Analysis Date..: 04/08/04
Prep Batch #...: 4099587 Analysis Time..: 00:52
Dilution Factor: 1

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	10	ug/L	2.5
Benzene	ND	1.0	ug/L	0.17
Bromodichloromethane	ND	1.0	ug/L	0.20
Bromoform	ND	1.0	ug/L	0.23
Bromomethane	ND	2.0	ug/L	0.22
2-Butanone (MEK)	ND	5.0	ug/L	2.0
Carbon tetrachloride	ND	1.0	ug/L	0.20
Chlorobenzene	ND	1.0	ug/L	0.13
Chloroethane	ND	2.0	ug/L	0.18
Chloroform	ND	1.0	ug/L	0.17
Chloromethane	ND	2.0	ug/L	0.91
Dibromomethane	ND	1.0	ug/L	0.31
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	0.18
1,2-Dichlorobenzene	ND	1.0	ug/L	0.15
1,3-Dichlorobenzene	ND	1.0	ug/L	0.13
1,4-Dichlorobenzene	ND	1.0	ug/L	0.16
Dichlorodifluoromethane	ND	2.0	ug/L	0.22
1,1-Dichloroethane	ND	1.0	ug/L	0.22
1,2-Dichloroethane	ND	1.0	ug/L	0.26
1,1-Dichloroethene	ND	1.0	ug/L	0.23
1,2-Dichloroethene (total)	ND	1.0	ug/L	0.24
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.14
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.15
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.19
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.20
Ethylbenzene	ND	1.0	ug/L	0.12
2-Hexanone	ND	5.0	ug/L	1.7
Methylene chloride	0.63 J,B	5.0	ug/L	0.21
4-Methyl-2-pentanone	ND	5.0	ug/L	0.98
Styrene	ND	1.0	ug/L	0.14
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.21
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.21
Tetrachloroethene	ND	1.0	ug/L	0.26
Toluene	ND	1.0	ug/L	0.15
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.21

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LOCKWOOD GREENE

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #...: D4C310153-003 Work Order #...: GC8WX1AA Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,1-Trichloroethane	ND	1.0	ug/L	0.16
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.16
Trichlorofluoromethane	ND	2.0	ug/L	0.24
1,2,3-Trichloropropane	ND	1.0	ug/L	0.33
Vinyl chloride	ND	1.0	ug/L	0.19
Xylenes (total)	ND	2.0	ug/L	0.41
n-Butylbenzene	ND	1.0	ug/L	0.21
sec-Butylbenzene	ND	1.0	ug/L	0.23
Isopropylbenzene	ND	1.0	ug/L	0.17
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.15
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.16
n-Propylbenzene	ND	1.0	ug/L	0.17
tert-Butylbenzene	ND	1.0	ug/L	0.17
Dibromochloromethane	ND	1.0	ug/L	0.19
2-Chlorotoluene	ND	1.0	ug/L	0.17
4-Chlorotoluene	ND	1.0	ug/L	0.21
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	ug/L	0.47
1,3-Dichloropropane	ND	1.0	ug/L	0.22
2,2-Dichloropropane	ND	5.0	ug/L	0.18
1,1-Dichloropropene	ND	1.0	ug/L	0.19
Hexachlorobutadiene	ND	1.0	ug/L	0.18
4-Isopropyltoluene	ND	1.0	ug/L	0.20
Methyl tert-butyl ether	ND	5.0	ug/L	0.38
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.21
m-Xylene & p-Xylene	ND	2.0	ug/L	0.27
o-Xylene	ND	1.0	ug/L	0.15
Bromobenzene	ND	1.0	ug/L	0.17
Bromochloromethane	ND	1.0	ug/L	0.27
Naphthalene	ND	1.0	ug/L	0.50

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	90	(76 - 116)
1,2-Dichloroethane-d4	75	(59 - 129)
4-Bromofluorobenzene	85	(74 - 114)
Toluene-d8	85	(76 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

LOCKWOOD GREENE

Client Sample ID: L.E.S. MW-2

GC/MS Semivolatiles

Lot-Sample #...: D4C310153-001 Work Order #...: GC8WL1A9 Matrix.....: WATER
Date Sampled...: 03/29/04 16:35 Date Received..: 03/31/04
Prep Date.....: 04/02/04 Analysis Date..: 04/16/04
Prep Batch #...: 4093267 Analysis Time..: 14:52
Dilution Factor: 1

Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug/L	0.60
Acenaphthylene	ND	10	ug/L	0.60
Acetophenone	ND	10	ug/L	2.0
2-Acetylaminofluorene	ND	100	ug/L	2.0
4-Aminobiphenyl	ND	50	ug/L	2.0
Aniline	ND	10	ug/L	4.0
Anthracene	ND	10	ug/L	3.0
Aramite	ND	20	ug/L	2.0
Benzo(a)anthracene	ND	10	ug/L	0.80
Benzo(b)fluoranthene	ND	10	ug/L	0.90
Benzo(k)fluoranthene	ND	10	ug/L	2.0
Benzo(ghi)perylene	ND	10	ug/L	1.0
Benzo(a)pyrene	ND	10	ug/L	0.80
Benzyl alcohol	ND	10	ug/L	1.0
bis(2-Chloroethoxy) methane	ND	10	ug/L	0.90
bis(2-Chloroethyl)-ether	ND	10	ug/L	3.0
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	0.90
4-Bromophenyl phenyl ether	ND	10	ug/L	0.70
Butyl benzyl phthalate	ND	10	ug/L	1.0
4-Chloroaniline	ND	10	ug/L	3.0
Chlorobenzilate	ND	10	ug/L	2.0
4-Chloro-3-methylphenol	ND	10	ug/L	0.80
2-Chloronaphthalene	ND	10	ug/L	0.70
2-Chlorophenol	ND	10	ug/L	0.80
4-Chlorophenyl phenyl ether	ND	10	ug/L	0.60
Chrysene	ND	10	ug/L	0.80
Diallate	ND	20	ug/L	2.0
Dibenz(a,h)anthracene	ND	10	ug/L	0.90
Dibenzofuran	ND	10	ug/L	0.60
Di-n-butyl phthalate	ND	10	ug/L	0.80
1,2-Dichlorobenzene	ND	10	ug/L	0.80
1,3-Dichlorobenzene	ND	10	ug/L	0.80
1,4-Dichlorobenzene	ND	10	ug/L	1.0

(Continued on next page)

LOCKWOOD GREENE

Client Sample ID: L.E.S. MW-2

GC/MS Semivolatiles

Lot-Sample #...: D4C310153-001 Work Order #...: GC8WL1A9 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
3,3'-Dichlorobenzidine	ND	50	ug/L	8.0
2,4-Dichlorophenol	ND	10	ug/L	0.70
2,6-Dichlorophenol	ND	10	ug/L	2.0
Diethyl phthalate	ND	10	ug/L	0.70
Dimethoate	ND	20	ug/L	2.0
7,12-Dimethylbenz(a)-anthracene	ND	20	ug/L	3.0
3,3'-Dimethylbenzidine	ND	20	ug/L	4.0
2,4-Dimethylphenol	ND	10	ug/L	4.0
Dimethyl phthalate	ND	10	ug/L	0.80
1,3-Dinitrobenzene	ND	10	ug/L	2.0
4,6-Dinitro-2-methylphenol	ND	50	ug/L	6.0
2,4-Dinitrophenol	ND	50	ug/L	6.0
2,4-Dinitrotoluene	ND	10	ug/L	1.0
2,6-Dinitrotoluene	ND	10	ug/L	0.80
Di-n-octyl phthalate	ND	10	ug/L	1.0
Diphenylamine	ND	10	ug/L	2.0
Disulfoton	ND	50	ug/L	2.0
Ethyl methanesulfonate	ND	10	ug/L	2.0
Fluoranthene	ND	10	ug/L	0.70
Fluorene	ND	10	ug/L	0.60
Hexachlorobenzene	ND	10	ug/L	0.80
Hexachlorobutadiene	ND	10	ug/L	1.0
Hexachlorocyclopentadiene	ND	50	ug/L	5.0
Hexachloroethane	ND	10	ug/L	0.80
Hexachloropropene	ND	100	ug/L	1.0
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.80
Isodrin	ND	10	ug/L	5.0
Isophorone	ND	10	ug/L	0.90
Isosafrole	ND	20	ug/L	3.0
Methapyrilene	ND	50	ug/L	20
3-Methylcholanthrene	ND	20	ug/L	1.0
Methyl methanesulfonate	ND	10	ug/L	2.0
2-Methylnaphthalene	ND	10	ug/L	0.80
Methyl parathion	ND	50	ug/L	2.0
2-Methylphenol	ND	10	ug/L	0.90
3-Methylphenol & 4-Methylphenol	ND	10	ug/L	0.80
Naphthalene	ND	10	ug/L	0.80
1,4-Naphthoquinone	ND	50	ug/L	2.0
1-Naphthylamine	ND	10	ug/L	1.0

(Continued on next page)

LOCKWOOD GREENE

Client Sample ID: L.E.S. MW-2

GC/MS Semivolatiles

Lot-Sample #...: D4C310153-001 Work Order #...: GC8WL1A9 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2-Naphthylamine	ND	10	ug/L	1.0
2-Nitroaniline	ND	50	ug/L	0.90
3-Nitroaniline	ND	50	ug/L	0.90
4-Nitroaniline	ND	50	ug/L	6.0
Nitrobenzene	ND	10	ug/L	2.0
2-Nitrophenol	ND	10	ug/L	0.80
4-Nitrophenol	ND	50	ug/L	7.0
4-Nitroquinoline-1-oxide	ND	100	ug/L	5.0
N-Nitrosodi-n-butylamine	ND	10	ug/L	2.0
N-Nitrosodiethylamine	ND	10	ug/L	2.0
N-Nitrosodimethylamine	ND	10	ug/L	0.80
N-Nitrosodiphenylamine	ND	10	ug/L	1.0
N-Nitrosodi-n-propylamine	ND	10	ug/L	0.70
N-Nitrosomethylethylamine	ND	10	ug/L	2.0
N-Nitrosomorpholine	ND	10	ug/L	2.0
N-Nitrosopiperidine	ND	10	ug/L	2.0
N-Nitrosopyrrolidine	ND	10	ug/L	2.0
5-Nitro-o-toluidine	ND	20	ug/L	2.0
Parathion	ND	50	ug/L	2.0
Pentachlorobenzene	ND	10	ug/L	2.0
Pentachloroethane	ND	50	ug/L	2.0
Pentachloronitrobenzene	ND	50	ug/L	2.0
Pentachlorophenol	ND	50	ug/L	5.0
Phenacetin	ND	20	ug/L	2.0
Phenanthrene	ND	10	ug/L	0.70
Phenol	ND	10	ug/L	0.90
Phorate	ND	50	ug/L	2.0
2-Picoline	ND	20	ug/L	3.0
Pronamide	ND	20	ug/L	2.0
Pyrene	ND	10	ug/L	0.80
Pyridine	ND	20	ug/L	10
1,2,4,5-Tetrachlorobenzene	ND	10	ug/L	2.0
2,3,4,6-Tetrachlorophenol	ND	50	ug/L	2.0
Thionazin	ND	10	ug/L	2.0
o-Toluidine	ND	10	ug/L	2.0
1,2,4-Trichlorobenzene	ND	10	ug/L	0.90
2,4,5-Trichlorophenol	ND	10	ug/L	1.0
2,4,6-Trichlorophenol	ND	10	ug/L	0.80

(Continued on next page)

LOCKWOOD GREENE

Client Sample ID: L.E.S. MW-2

GC/MS Semivolatiles

Lot-Sample #...: D4C310153-001 Work Order #...: GC8WL1A9 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
O,O,O-Triethylphosphorothioate	ND	50	ug/L	2.0
1,3,5-Trinitrobenzene	ND	50	ug/L	2.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	74	(32 - 116)
Phenol-d5	77	(40 - 111)
Nitrobenzene-d5	76	(53 - 107)
2-Fluorobiphenyl	57	(31 - 105)
2,4,6-Tribromophenol	54	(42 - 122)
Terphenyl-d14	67	(21 - 125)

LOCKWOOD GREENE

Client Sample ID: L.E.S. MW-2

GC Semivolatiles

Lot-Sample #...: D4C310153-001 Work Order #...: GC8WL1CC Matrix.....: WATER
Date Sampled...: 03/29/04 16:35 Date Received..: 03/31/04
Prep Date.....: 03/31/04 Analysis Date..: 04/15/04
Prep Batch #...: 4091410 Analysis Time..: 17:06
Dilution Factor: 1

Method.....: SW846 8081A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aldrin	ND	0.050	ug/L	0.0070
alpha-BHC	ND	0.050	ug/L	0.010
beta-BHC	ND	0.050	ug/L	0.010
delta-BHC	ND	0.050	ug/L	0.010
gamma-BHC (Lindane)	ND	0.050	ug/L	0.0080
Chlordane (technical)	ND	0.50	ug/L	0.060
4,4'-DDD	ND	0.050	ug/L	0.010
4,4'-DDE	ND	0.050	ug/L	0.010
4,4'-DDT	ND	0.050	ug/L	0.010
Dieldrin	ND	0.050	ug/L	0.0090
Endrin	ND	0.050	ug/L	0.020
Endrin aldehyde	ND	0.050	ug/L	0.010
Endosulfan I	ND	0.050	ug/L	0.020
Endosulfan II	ND	0.050	ug/L	0.010
Endosulfan sulfate	ND	0.050	ug/L	0.010
Heptachlor	ND	0.050	ug/L	0.010
Heptachlor epoxide	ND	0.050	ug/L	0.010
Methoxychlor	ND	0.10	ug/L	0.020
Toxaphene	ND	5.0	ug/L	0.50

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	84	(12 - 153)
Tetrachloro-m-xylene	91	(55 - 113)

LOCKWOOD GREENE

Client Sample ID: L.E.S. MW-2

GC Semivolatiles

Lot-Sample #...: D4C310153-001 Work Order #...: GC8WL1CA Matrix.....: WATER
Date Sampled...: 03/29/04 16:35 Date Received..: 03/31/04
Prep Date.....: 03/31/04 Analysis Date..: 04/01/04
Prep Batch #...: 4091394 Analysis Time..: 18:19
Dilution Factor: 1
Method.....: SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	1.0	ug/L	0.15
Aroclor 1221	ND	1.0	ug/L	0.25
Aroclor 1232	ND	1.0	ug/L	0.14
Aroclor 1242	ND	1.0	ug/L	0.14
Aroclor 1248	ND	1.0	ug/L	0.15
Aroclor 1254	ND	1.0	ug/L	0.22
Aroclor 1260	ND	1.0	ug/L	0.16

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	105	(51 - 122)
Decachlorobiphenyl	89	(41 - 138)

LOCKWOOD GREENE

Client Sample ID: L.E.S. MW-2

GC Semivolatiles

Lot-Sample #...: D4C310153-001 Work Order #...: GC8WL1CD Matrix.....: WATER
Date Sampled...: 03/29/04 16:35 Date Received..: 03/31/04
Prep Date.....: 04/05/04 Analysis Date..: 04/12/04
Prep Batch #...: 4096147 Analysis Time..: 20:18
Dilution Factor: 1

Method.....: SW846 8141A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Azinphos-methyl	ND	2.5	ug/L	0.14
Bolstar	ND	0.50	ug/L	0.14
Chlorpyrifos	ND	0.50	ug/L	0.054
Coumaphos	ND	0.50	ug/L	0.079
Demeton (total)	ND	1.0	ug/L	0.19
Diazinon	ND	0.50	ug/L	0.039
Dichlorvos	ND	0.50	ug/L	0.13
Dimethoate	ND	0.50	ug/L	0.18
Disulfoton	ND	0.50	ug/L	0.057
Ethoprop	ND	0.50	ug/L	0.056
Ethyl parathion	ND	0.50	ug/L	0.040
Famphur	ND	1.0	ug/L	0.054
Fensulfothion	ND	2.5	ug/L	0.22
Fenthion	ND	0.50	ug/L	0.061
Malathion	ND	1.2	ug/L	0.050
Merphos	ND	5.0	ug/L	0.063
Methyl parathion	ND	0.50	ug/L	0.061
Mevinphos	ND	6.2	ug/L	0.16
Naled	ND	10	ug/L	0.22
O,O,O-Triethylphosphoro-thioate	ND	0.50	ug/L	0.15
Phorate	ND	0.50	ug/L	0.075
Ronnel	ND	10	ug/L	0.11
Sulfotepp	ND	0.50	ug/L	0.030
Thionazin	ND	0.50	ug/L	0.059
Tokuthion	ND	0.50	ug/L	0.071
Trichloronate	ND	0.50	ug/L	0.057
EPN	ND	0.50	ug/L	0.050
Demeton-O	ND	1.0	ug/L	0.19
Demeton-S	ND	1.0	ug/L	0.19
Tetrachlorvinphos (Stirophos)	ND	2.5	ug/L	0.056

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Chlormefos	92	(48 - 114)
Ethyl Pirimifos	72	(68 - 98)

LOCKWOOD GREENE

Client Sample ID: L.E.S. MW-2

TOTAL Metals

Lot-Sample #...: D4C310153-001 Matrix.....: WATER
Date Sampled...: 03/29/04 16:35 Date Received..: 03/31/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4092277						
Mercury	ND	0.20	ug/L	SW846 7470A	04/06/04	GC8WL1A7
		Dilution Factor: 1		Analysis Time..: 17:33	MDL.....: 0.054	
Prep Batch #...: 4092620						
Silver	ND	10	ug/L	SW846 6010B	04/06-04/17/04	GC8WL1AK
		Dilution Factor: 1		Analysis Time..: 08:56	MDL.....: 0.70	
Aluminum	120 J	100	ug/L	SW846 6010B	04/06-04/29/04	GC8WL1AL
		Dilution Factor: 1		Analysis Time..: 03:14	MDL.....: 20	
Arsenic	ND	15	ug/L	SW846 6010B	04/06-04/17/04	GC8WL1AM
		Dilution Factor: 1		Analysis Time..: 08:56	MDL.....: 4.9	
Barium	14	10	ug/L	SW846 6010B	04/06-04/17/04	GC8WL1AN
		Dilution Factor: 1		Analysis Time..: 08:56	MDL.....: 0.37	
Beryllium	ND	5.0	ug/L	SW846 6010B	04/06-04/17/04	GC8WL1AP
		Dilution Factor: 1		Analysis Time..: 08:56	MDL.....: 0.41	
Boron	1800	100	ug/L	SW846 6010B	04/06-04/29/04	GC8WL1AQ
		Dilution Factor: 1		Analysis Time..: 03:14	MDL.....: 8.3	
Cadmium	ND	5.0	ug/L	SW846 6010B	04/06-04/17/04	GC8WL1AR
		Dilution Factor: 1		Analysis Time..: 08:56	MDL.....: 0.27	
Cobalt	ND	10	ug/L	SW846 6010B	04/06-04/17/04	GC8WL1AT
		Dilution Factor: 1		Analysis Time..: 08:56	MDL.....: 0.67	
Chromium	6.3 B	10	ug/L	SW846 6010B	04/06-04/17/04	GC8WL1AU
		Dilution Factor: 1		Analysis Time..: 08:56	MDL.....: 2.1	
Copper	3.5 B	10	ug/L	SW846 6010B	04/06-04/17/04	GC8WL1AV
		Dilution Factor: 1		Analysis Time..: 08:56	MDL.....: 0.97	
Iron	39 B	100	ug/L	SW846 6010B	04/06-04/17/04	GC8WL1AW
		Dilution Factor: 1		Analysis Time..: 08:56	MDL.....: 19	
Manganese	900	10	ug/L	SW846 6010B	04/06-04/17/04	GC8WL1AX
		Dilution Factor: 1		Analysis Time..: 08:56	MDL.....: 0.54	

(Continued on next page)

LOCKWOOD GREENE

Client Sample ID: L.E.S. MW-2

TOTAL Metals

Lot-Sample #...: D4C310153-001 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Molybdenum	40	20	ug/L	SW846 6010B	04/06-04/17/04	GC8WL1A0
		Dilution Factor: 1		Analysis Time..: 08:56	MDL.....: 2.3	
Nickel	8.8 B	40	ug/L	SW846 6010B	04/06-04/17/04	GC8WL1A1
		Dilution Factor: 1		Analysis Time..: 08:56	MDL.....: 4.2	
Lead	ND	3.0	ug/L	SW846 6010B	04/06-04/17/04	GC8WL1A2
		Dilution Factor: 1		Analysis Time..: 08:56	MDL.....: 2.1	
Antimony	ND	10	ug/L	SW846 6010B	04/06-04/17/04	GC8WL1A3
		Dilution Factor: 1		Analysis Time..: 08:56	MDL.....: 3.6	
Selenium	ND	15	ug/L	SW846 6010B	04/06-04/17/04	GC8WL1A4
		Dilution Factor: 1		Analysis Time..: 08:56	MDL.....: 4.6	
Thallium	ND	10	ug/L	SW846 6010B	04/06-04/17/04	GC8WL1A5
		Dilution Factor: 1		Analysis Time..: 08:56	MDL.....: 8.1	
Zinc	11 B	20	ug/L	SW846 6010B	04/06-04/17/04	GC8WL1A6
		Dilution Factor: 1		Analysis Time..: 08:56	MDL.....: 7.1	

NOTE(S):

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

LOCKWOOD GREENE

Client Sample ID: L.E.S. MW-2

General Chemistry

Lot-Sample #...: D4C310153-001 Work Order #...: GC8WL Matrix.....: WATER
Date Sampled...: 03/29/04 16:35 Date Received..: 03/31/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chemical Oxygen Demand (COD)	20 J	20	mg/L	MCAWW 410.4	04/08/04	4099309
	Dilution Factor: 1			Analysis Time..: 11:15	MDL.....: 2.9	
Chloride	1700 Q	300	mg/L	MCAWW 300.0A	03/31/04	4092263
	Dilution Factor: 100			Analysis Time..: 16:21	MDL.....: 20	
Fluoride	0.81 B,G	5.0	mg/L	MCAWW 300.0A	03/31/04	4092264
	Dilution Factor: 5			Analysis Time..: 15:34	MDL.....: 0.50	
Nitrate	0.44 B,G	2.5	mg/L	MCAWW 300.0A	03/31/04	4092265
	Dilution Factor: 5			Analysis Time..: 15:34	MDL.....: 0.25	
Nitrite	1.1 B,G	2.5	mg/L	MCAWW 300.0A	03/31/04	4092266
	Dilution Factor: 5			Analysis Time..: 15:34	MDL.....: 0.25	
Specific Conductance	9700	2.0	umhos/cm	MCAWW 120.1	04/09/04	4103197
	Dilution Factor: 1			Analysis Time..: 16:00	MDL.....:	
Sulfate	2400 Q	500	mg/L	MCAWW 300.0A	03/31/04	4092262
	Dilution Factor: 100			Analysis Time..: 16:21	MDL.....: 20	
Total Cyanide	ND	0.010	mg/L	MCAWW 335.3	04/05/04	4096601
	Dilution Factor: 1			Analysis Time..: 14:00	MDL.....: 0.0039	
Total Dissolved Solids	6300 Q	20	mg/L	MCAWW 160.1	04/02/04	4093379
	Dilution Factor: 2			Analysis Time..: 12:30	MDL.....: 7.2	
Total Suspended Solids	7.6	4.0	mg/L	MCAWW 160.2	04/01/04	4092561
	Dilution Factor: 1			Analysis Time..: 18:00	MDL.....: 0.87	

NOTE(S):

RL Reporting Limit

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

B Estimated result. Result is less than RL.

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

LOCKWOOD GREENE

Client Sample ID: L.E.S. MW-2

General Chemistry

Lot-Sample #...: D4C310153-002 Work Order #...: GC8WT Matrix.....: WATER
Date Sampled...: 03/30/04 12:46 Date Received..: 03/31/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Fecal Coliform	ND	1.0	CFU/100m	SM18 9222D Fecal	03/31/04	4096595
		Dilution Factor: 1		Analysis Time..: 11:00	MDL.....:	
Total Coliform	ND	1.0	CFU/100m	SM18 9222B	03/31/04	4096596
		Dilution Factor: 1		Analysis Time..: 11:00	MDL.....:	

QC DATA ASSOCIATION SUMMARY

D4C310153

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WATER	MCAWW 120.1		4103197	4103088
	WATER	MCAWW 160.1		4093379	4096267
	WATER	MCAWW 160.2		4092561	4093173
	WATER	MCAWW 300.0A		4092263	4100224
	WATER	MCAWW 300.0A		4092262	4092120
	WATER	MCAWW 300.0A		4092264	4100208
	WATER	MCAWW 300.0A		4092265	4100231
	WATER	MCAWW 300.0A		4092266	4100226
	WATER	SW846 7470A		4092277	4092142
	WATER	SW846 8141A		4096147	
	WATER	SW846 8082		4091394	
	WATER	SW846 8081A		4091410	
	WATER	SW846 8260B		4099587	4099330
	WATER	SW846 8270C		4093267	
	WATER	SW846 6010B		4092620	4092293
	WATER	MCAWW 335.3		4096601	4096322
	WATER	MCAWW 410.4		4099309	4099149
002	WATER	SM18 9222D Fecal		4096595	
	WATER	SM18 9222B		4096596	
003	WATER	SW846 8260B		4099587	4099330

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: D4C310153 Work Order #...: GDT7J1AA Matrix.....: WATER
MB Lot-Sample #: D4D080000-587

Prep Date.....: 04/07/04 Analysis Time..: 19:55
Analysis Date..: 04/07/04 Prep Batch #...: 4099587
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	10	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
2-Butanone (MEK)	ND	5.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	2.0	ug/L	SW846 8260B
Dibromomethane	ND	1.0	ug/L	SW846 8260B
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
Dichlorodifluoromethane	ND	2.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethene (total)	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	5.0	ug/L	SW846 8260B
Methylene chloride	0.48 J	5.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,2,4-Trichloro-benzene	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: D4C310153 Work Order #...: GDT7J1AA Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Trichlorofluoromethane	ND	2.0	ug/L	SW846 8260B
1,2,3-Trichloropropane	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	2.0	ug/L	SW846 8260B
n-Butylbenzene	ND	1.0	ug/L	SW846 8260B
sec-Butylbenzene	ND	1.0	ug/L	SW846 8260B
Isopropylbenzene	ND	1.0	ug/L	SW846 8260B
1,2,4-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
1,3,5-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
n-Propylbenzene	ND	1.0	ug/L	SW846 8260B
tert-Butylbenzene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
2-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
4-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	ug/L	SW846 8260B
1,3-Dichloropropane	ND	1.0	ug/L	SW846 8260B
2,2-Dichloropropane	ND	5.0	ug/L	SW846 8260B
1,1-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Hexachlorobutadiene	ND	1.0	ug/L	SW846 8260B
4-Isopropyltoluene	ND	1.0	ug/L	SW846 8260B
Methyl tert-butyl ether	ND	5.0	ug/L	SW846 8260B
1,2,3-Trichlorobenzene	ND	1.0	ug/L	SW846 8260B
m-Xylene & p-Xylene	ND	2.0	ug/L	SW846 8260B
o-Xylene	ND	1.0	ug/L	SW846 8260B
Bromobenzene	ND	1.0	ug/L	SW846 8260B
Bromochloromethane	ND	1.0	ug/L	SW846 8260B
Naphthalene	ND	1.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	94	(76 - 116)
1,2-Dichloroethane-d4	76	(59 - 129)
4-Bromofluorobenzene	88	(74 - 114)
Toluene-d8	86	(76 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: D4C310153 Work Order #...: GDT7J1AC Matrix.....: WATER
LCS Lot-Sample#: D4D080000-587
Prep Date.....: 04/07/04 Analysis Date..: 04/07/04
Prep Batch #...: 4099587 Analysis Time..: 19:35
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Benzene	97	(75 - 116)	SW846 8260B
Chlorobenzene	92	(77 - 117)	SW846 8260B
1,1-Dichloroethene	102	(67 - 125)	SW846 8260B
Toluene	86	(74 - 115)	SW846 8260B
Trichloroethene	114	(80 - 123)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	89	(76 - 116)
1,2-Dichloroethane-d4	72	(59 - 129)
4-Bromofluorobenzene	84	(74 - 114)
Toluene-d8	82	(76 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: D4C310153 Work Order #...: GDT7J1AC Matrix.....: WATER
LCS Lot-Sample#: D4D080000-587
Prep Date.....: 04/07/04 Analysis Date..: 04/07/04
Prep Batch #...: 4099587 Analysis Time..: 19:35
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Benzene	10.0	9.70	ug/L	97	SW846 8260B
Chlorobenzene	10.0	9.21	ug/L	92	SW846 8260B
1,1-Dichloroethene	10.0	10.2	ug/L	102	SW846 8260B
Toluene	10.0	8.64	ug/L	86	SW846 8260B
Trichloroethene	10.0	11.4	ug/L	114	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	89	(76 - 116)
1,2-Dichloroethane-d4	72	(59 - 129)
4-Bromofluorobenzene	84	(74 - 114)
Toluene-d8	82	(76 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: D4C310153 Work Order #...: GDCH91EW-MS Matrix.....: WATER
MS Lot-Sample #: D4D010203-001 GDCH91EX-MSD
Date Sampled...: 03/29/04 16:50 Date Received..: 04/01/04
Prep Date.....: 04/07/04 Analysis Date..: 04/07/04
Prep Batch #...: 4099587 Analysis Time..: 21:56
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	98	(75 - 116)			SW846 8260B
	100	(75 - 116)	1.2	(0-20)	SW846 8260B
Chlorobenzene	93	(77 - 117)			SW846 8260B
	93	(77 - 117)	0.23	(0-20)	SW846 8260B
1,1-Dichloroethene	156 a	(67 - 125)			SW846 8260B
	159 a	(67 - 125)	1.7	(0-20)	SW846 8260B
Toluene	88	(74 - 115)			SW846 8260B
	88	(74 - 115)	0.63	(0-20)	SW846 8260B
Trichloroethene	116	(80 - 123)			SW846 8260B
	117	(80 - 123)	0.89	(0-20)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	91	(76 - 116)
	93	(76 - 116)
1,2-Dichloroethane-d4	74	(59 - 129)
	76	(59 - 129)
4-Bromofluorobenzene	84	(74 - 114)
	86	(74 - 114)
Toluene-d8	85	(76 - 116)
	85	(76 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: D4C310153 Work Order #...: GDCH91EW-MS Matrix.....: WATER
MS Lot-Sample #: D4D010203-001 GDCH91EX-MSD
Date Sampled...: 03/29/04 16:50 Date Received..: 04/01/04
Prep Date.....: 04/07/04 Analysis Date..: 04/07/04
Prep Batch #...: 4099587 Analysis Time..: 21:56
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Benzene	0.18	10.0	10.0	ug/L	98		SW846 8260B
	0.18	10.0	10.1	ug/L	100	1.2	SW846 8260B
Chlorobenzene	ND	10.0	9.32	ug/L	93		SW846 8260B
	ND	10.0	9.34	ug/L	93	0.23	SW846 8260B
1,1-Dichloroethene	ND	10.0	15.6	ug/L	156 a		SW846 8260B
	ND	10.0	15.9	ug/L	159 a	1.7	SW846 8260B
Toluene	ND	10.0	8.82	ug/L	88		SW846 8260B
	ND	10.0	8.76	ug/L	88	0.63	SW846 8260B
Trichloroethene	2.2	10.0	13.8	ug/L	116		SW846 8260B
	2.2	10.0	13.9	ug/L	117	0.89	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	91	(76 - 116)
	93	(76 - 116)
1,2-Dichloroethane-d4	74	(59 - 129)
	76	(59 - 129)
4-Bromofluorobenzene	84	(74 - 114)
	86	(74 - 114)
Toluene-d8	85	(76 - 116)
	85	(76 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: D4C310153 Work Order #...: GDEXW1AA Matrix.....: WATER
MB Lot-Sample #: D4D020000-267

Prep Date.....: 04/02/04 Analysis Time..: 17:41
Analysis Date..: 04/06/04 Prep Batch #...: 4093267
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acenaphthene	ND	10	ug/L	SW846 8270C
Acenaphthylene	ND	10	ug/L	SW846 8270C
Acetophenone	ND	10	ug/L	SW846 8270C
2-Acetylaminofluorene	ND	100	ug/L	SW846 8270C
4-Aminobiphenyl	ND	50	ug/L	SW846 8270C
Aniline	ND	10	ug/L	SW846 8270C
Anthracene	ND	10	ug/L	SW846 8270C
Aramite	ND	20	ug/L	SW846 8270C
Benzo(a)anthracene	ND	10	ug/L	SW846 8270C
Benzo(b)fluoranthene	ND	10	ug/L	SW846 8270C
Benzo(k)fluoranthene	ND	10	ug/L	SW846 8270C
Benzo(ghi)perylene	ND	10	ug/L	SW846 8270C
Benzo(a)pyrene	ND	10	ug/L	SW846 8270C
Benzyl alcohol	ND	10	ug/L	SW846 8270C
bis(2-Chloroethoxy) methane	ND	10	ug/L	SW846 8270C
bis(2-Chloroethyl)-ether	ND	10	ug/L	SW846 8270C
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	SW846 8270C
4-Bromophenyl phenyl ether	ND	10	ug/L	SW846 8270C
Butyl benzyl phthalate	ND	10	ug/L	SW846 8270C
4-Chloroaniline	ND	10	ug/L	SW846 8270C
Chlorobenzilate	ND	10	ug/L	SW846 8270C
4-Chloro-3-methylphenol	ND	10	ug/L	SW846 8270C
2-Chloronaphthalene	ND	10	ug/L	SW846 8270C
2-Chlorophenol	ND	10	ug/L	SW846 8270C
4-Chlorophenyl phenyl ether	ND	10	ug/L	SW846 8270C
Chrysene	ND	10	ug/L	SW846 8270C
Diallate	ND	20	ug/L	SW846 8270C
Dibenz(a,h)anthracene	ND	10	ug/L	SW846 8270C
Dibenzofuran	ND	10	ug/L	SW846 8270C
Di-n-butyl phthalate	ND	10	ug/L	SW846 8270C
1,2-Dichlorobenzene	ND	10	ug/L	SW846 8270C
1,3-Dichlorobenzene	ND	10	ug/L	SW846 8270C
1,4-Dichlorobenzene	ND	10	ug/L	SW846 8270C
3,3'-Dichlorobenzidine	ND	50	ug/L	SW846 8270C
2,4-Dichlorophenol	ND	10	ug/L	SW846 8270C
2,6-Dichlorophenol	ND	10	ug/L	SW846 8270C

(Continued on next page)

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: D4C310153 Work Order #...: GDEXW1AA Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Diethyl phthalate	ND	10	ug/L	SW846 8270C
Dimethoate	ND	20	ug/L	SW846 8270C
7,12-Dimethylbenz(a)-anthracene	ND	20	ug/L	SW846 8270C
3,3'-Dimethylbenzidine	ND	20	ug/L	SW846 8270C
2,4-Dimethylphenol	ND	10	ug/L	SW846 8270C
Dimethyl phthalate	ND	10	ug/L	SW846 8270C
1,3-Dinitrobenzene	ND	10	ug/L	SW846 8270C
4,6-Dinitro-2-methylphenol	ND	50	ug/L	SW846 8270C
2,4-Dinitrophenol	ND	50	ug/L	SW846 8270C
2,4-Dinitrotoluene	ND	10	ug/L	SW846 8270C
2,6-Dinitrotoluene	ND	10	ug/L	SW846 8270C
Di-n-octyl phthalate	ND	10	ug/L	SW846 8270C
Diphenylamine	ND	10	ug/L	SW846 8270C
Disulfoton	ND	50	ug/L	SW846 8270C
Ethyl methanesulfonate	ND	10	ug/L	SW846 8270C
Fluoranthene	ND	10	ug/L	SW846 8270C
Fluorene	ND	10	ug/L	SW846 8270C
Hexachlorobenzene	ND	10	ug/L	SW846 8270C
Hexachlorobutadiene	ND	10	ug/L	SW846 8270C
Hexachlorocyclopenta-diene	ND	50	ug/L	SW846 8270C
Hexachloroethane	ND	10	ug/L	SW846 8270C
Hexachloropropene	ND	100	ug/L	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	SW846 8270C
Isodrin	ND	10	ug/L	SW846 8270C
Isophorone	ND	10	ug/L	SW846 8270C
Isosafrole	ND	20	ug/L	SW846 8270C
Methapyrilene	ND	50	ug/L	SW846 8270C
3-Methylcholanthrene	ND	20	ug/L	SW846 8270C
Methyl methanesulfonate	ND	10	ug/L	SW846 8270C
2-Methylnaphthalene	ND	10	ug/L	SW846 8270C
Methyl parathion	ND	50	ug/L	SW846 8270C
2-Methylphenol	ND	10	ug/L	SW846 8270C
3-Methylphenol & 4-Methylphenol	ND	10	ug/L	SW846 8270C
Naphthalene	ND	10	ug/L	SW846 8270C
1,4-Naphthoquinone	ND	50	ug/L	SW846 8270C
1-Naphthylamine	ND	10	ug/L	SW846 8270C
2-Naphthylamine	ND	10	ug/L	SW846 8270C
2-Nitroaniline	ND	50	ug/L	SW846 8270C
3-Nitroaniline	ND	50	ug/L	SW846 8270C
4-Nitroaniline	ND	50	ug/L	SW846 8270C
Nitrobenzene	ND	10	ug/L	SW846 8270C

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: D4C310153 Work Order #...: GDEXW1AA Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
2-Nitrophenol	ND	10	ug/L	SW846 8270C
4-Nitrophenol	ND	50	ug/L	SW846 8270C
4-Nitroquinoline-1-oxide	ND	100	ug/L	SW846 8270C
N-Nitrosodi-n-butylamine	ND	10	ug/L	SW846 8270C
N-Nitrosodiethylamine	ND	10	ug/L	SW846 8270C
N-Nitrosodimethylamine	ND	10	ug/L	SW846 8270C
N-Nitrosodiphenylamine	ND	10	ug/L	SW846 8270C
N-Nitrosodi-n-propylamine	ND	10	ug/L	SW846 8270C
N-Nitrosomethylethylamine	ND	10	ug/L	SW846 8270C
N-Nitrosomorpholine	ND	10	ug/L	SW846 8270C
N-Nitrosopiperidine	ND	10	ug/L	SW846 8270C
N-Nitrosopyrrolidine	ND	10	ug/L	SW846 8270C
5-Nitro-o-toluidine	ND	20	ug/L	SW846 8270C
Parathion	ND	50	ug/L	SW846 8270C
Pentachlorobenzene	ND	10	ug/L	SW846 8270C
Pentachloroethane	ND	50	ug/L	SW846 8270C
Pentachloronitrobenzene	ND	50	ug/L	SW846 8270C
Pentachlorophenol	ND	50	ug/L	SW846 8270C
Phenacetin	ND	20	ug/L	SW846 8270C
Phenanthrene	ND	10	ug/L	SW846 8270C
Phenol	ND	10	ug/L	SW846 8270C
Phorate	ND	50	ug/L	SW846 8270C
2-Picoline	ND	20	ug/L	SW846 8270C
Pronamide	ND	20	ug/L	SW846 8270C
Pyrene	ND	10	ug/L	SW846 8270C
Pyridine	ND	20	ug/L	SW846 8270C
1,2,4,5-Tetrachlorobenzene	ND	10	ug/L	SW846 8270C
2,3,4,6-Tetrachlorophenol	ND	50	ug/L	SW846 8270C
Thionazin	ND	10	ug/L	SW846 8270C
o-Toluidine	ND	10	ug/L	SW846 8270C
1,2,4-Trichlorobenzene	ND	10	ug/L	SW846 8270C
2,4,5-Trichlorophenol	ND	10	ug/L	SW846 8270C
2,4,6-Trichlorophenol	ND	10	ug/L	SW846 8270C
O,O,O-Triethylphosphorothioate	ND	50	ug/L	SW846 8270C
1,3,5-Trinitrobenzene	ND	50	ug/L	SW846 8270C

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: D4C310153 Work Order #...: GDEXW1AA Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	74	(32 - 116)
Phenol-d5	74	(40 - 111)
Nitrobenzene-d5	69	(53 - 107)
2-Fluorobiphenyl	68	(31 - 105)
2,4,6-Tribromophenol	81	(42 - 122)
Terphenyl-d14	71	(21 - 125)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: D4C310153 Work Order #...: GDEXW1AC-LCS Matrix.....: WATER
LCS Lot-Sample#: D4D020000-267 GDEXW1AD-LCSD
Prep Date.....: 04/02/04 Analysis Date..: 04/06/04
Prep Batch #...: 4093267 Analysis Time..: 18:09
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acenaphthene	63	(55 - 97)			SW846 8270C
	65	(55 - 97)	3.1	(0-30)	SW846 8270C
4-Chloro-3-methylphenol	68	(59 - 106)			SW846 8270C
	70	(59 - 106)	3.2	(0-40)	SW846 8270C
2-Chlorophenol	71	(59 - 105)			SW846 8270C
	72	(59 - 105)	0.40	(0-40)	SW846 8270C
1,4-Dichlorobenzene	63	(31 - 98)			SW846 8270C
	63	(31 - 98)	0.35	(0-40)	SW846 8270C
2,4-Dinitrotoluene	65	(57 - 113)			SW846 8270C
	69	(57 - 113)	5.0	(0-40)	SW846 8270C
4-Nitrophenol	56	(43 - 118)			SW846 8270C
	59	(43 - 118)	5.9	(0-40)	SW846 8270C
N-Nitrosodi-n-propyl-amine	58	(51 - 99)			SW846 8270C
	58	(51 - 99)	0.91	(0-40)	SW846 8270C
Pentachlorophenol	78	(48 - 114)			SW846 8270C
	82	(48 - 114)	4.8	(0-40)	SW846 8270C
Phenol	66	(56 - 106)			SW846 8270C
	66	(56 - 106)	0.74	(0-40)	SW846 8270C
Pyrene	55	(51 - 103)			SW846 8270C
	59	(51 - 103)	6.1	(0-40)	SW846 8270C
1,2,4-Trichloro-benzene	67	(36 - 99)			SW846 8270C
	69	(36 - 99)	2.2	(0-40)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	62	(54 - 105)
	64	(54 - 105)
Phenol-d5	64	(55 - 106)
	65	(55 - 106)
Nitrobenzene-d5	61	(58 - 108)
	61	(58 - 108)
2-Fluorobiphenyl	59	(53 - 97)
	59	(53 - 97)
2,4,6-Tribromophenol	72	(62 - 113)
	74	(62 - 113)
Terphenyl-d14	59	(55 - 109)

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: D4C310153 Work Order #...: GDEXW1AC-LCS Matrix.....: WATER
LCS Lot-Sample#: D4D020000-267 GDEXW1AD-LCSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
	62	(55 - 109)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters .

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: D4C310153 Work Order #...: GDEXW1AC-LCS Matrix.....: WATER
LCS Lot-Sample#: D4D020000-267 GDEXW1AD-LCSD
Prep Date.....: 04/02/04 Analysis Date..: 04/06/04
Prep Batch #...: 4093267 Analysis Time..: 18:09
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Acenaphthene	100	63.3	ug/L	63		SW846 8270C
	100	65.3	ug/L	65	3.1	SW846 8270C
4-Chloro-3-methylphenol	150	102	ug/L	68		SW846 8270C
	150	105	ug/L	70	3.2	SW846 8270C
2-Chlorophenol	150	107	ug/L	71		SW846 8270C
	150	107	ug/L	72	0.40	SW846 8270C
1,4-Dichlorobenzene	100	63.2	ug/L	63		SW846 8270C
	100	63.0	ug/L	63	0.35	SW846 8270C
2,4-Dinitrotoluene	100	65.4	ug/L	65		SW846 8270C
	100	68.8	ug/L	69	5.0	SW846 8270C
4-Nitrophenol	150	84.1	ug/L	56		SW846 8270C
	150	89.2	ug/L	59	5.9	SW846 8270C
N-Nitrosodi-n-propyl-amine	100	57.8	ug/L	58		SW846 8270C
	100	58.3	ug/L	58	0.91	SW846 8270C
Pentachlorophenol	150	117	ug/L	78		SW846 8270C
	150	123	ug/L	82	4.8	SW846 8270C
Phenol	150	98.9	ug/L	66		SW846 8270C
	150	99.6	ug/L	66	0.74	SW846 8270C
Pyrene	100	55.1	ug/L	55		SW846 8270C
	100	58.5	ug/L	59	6.1	SW846 8270C
1,2,4-Trichloro-benzene	100	67.1	ug/L	67		SW846 8270C
	100	68.5	ug/L	69	2.2	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	62	(54 - 105)
	64	(54 - 105)
Phenol-d5	64	(55 - 106)
	65	(55 - 106)
Nitrobenzene-d5	61	(58 - 108)
	61	(58 - 108)
2-Fluorobiphenyl	59	(53 - 97)
	59	(53 - 97)
2,4,6-Tribromophenol	72	(62 - 113)
	74	(62 - 113)
Terphenyl-d14	59	(55 - 109)

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: D4C310153 Work Order #...: GDEXW1AC-LCS Matrix.....: WATER
LCS Lot-Sample#: D4D020000-267 GDEXW1AD-LCSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
	62	(55 - 109)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: D4C310153 Work Order #...: GC9FX1AA Matrix.....: WATER
MB Lot-Sample #: D4C310000-410

Prep Date.....: 03/31/04 Analysis Time..: 17:35
Analysis Date..: 04/15/04 Prep Batch #...: 4091410
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aldrin	ND	0.050	ug/L	SW846 8081A
alpha-BHC	ND	0.050	ug/L	SW846 8081A
beta-BHC	ND	0.050	ug/L	SW846 8081A
delta-BHC	ND	0.050	ug/L	SW846 8081A
gamma-BHC (Lindane)	ND	0.050	ug/L	SW846 8081A
Chlordane (technical)	ND	0.50	ug/L	SW846 8081A
4,4'-DDD	ND	0.050	ug/L	SW846 8081A
4,4'-DDE	ND	0.050	ug/L	SW846 8081A
4,4'-DDT	ND	0.050	ug/L	SW846 8081A
Dieldrin	ND	0.050	ug/L	SW846 8081A
Endrin	ND	0.050	ug/L	SW846 8081A
Endrin aldehyde	ND	0.050	ug/L	SW846 8081A
Endosulfan I	ND	0.050	ug/L	SW846 8081A
Endosulfan II	ND	0.050	ug/L	SW846 8081A
Endosulfan sulfate	ND	0.050	ug/L	SW846 8081A
Heptachlor	ND	0.050	ug/L	SW846 8081A
Heptachlor epoxide	ND	0.050	ug/L	SW846 8081A
Methoxychlor	ND	0.10	ug/L	SW846 8081A
Toxaphene	ND	5.0	ug/L	SW846 8081A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	88	(12 - 153)
Tetrachloro-m-xylene	87	(55 - 113)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: D4C310153 Work Order #...: GC9FX1AC-LCS Matrix.....: WATER
LCS Lot-Sample#: D4C310000-410 GC9FX1AD-LCSD
Prep Date.....: 03/31/04 Analysis Date..: 04/15/04
Prep Batch #...: 4091410 Analysis Time..: 16:09
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Aldrin	97	(56 - 126)			SW846 8081A
	96	(56 - 126)	0.49	(0-30)	SW846 8081A
gamma-BHC (Lindane)	100	(72 - 126)			SW846 8081A
	100	(72 - 126)	0.54	(0-30)	SW846 8081A
4,4'-DDT	93	(76 - 135)			SW846 8081A
	94	(76 - 135)	0.88	(0-30)	SW846 8081A
Dieldrin	99	(80 - 132)			SW846 8081A
	100	(80 - 132)	0.77	(0-30)	SW846 8081A
Endrin	84	(63 - 144)			SW846 8081A
	83	(63 - 144)	1.3	(0-30)	SW846 8081A
Heptachlor	94	(63 - 124)			SW846 8081A
	95	(63 - 124)	0.78	(0-30)	SW846 8081A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	83	(56 - 136)
	89	(56 - 136)
Tetrachloro-m-xylene	83	(49 - 111)
	84	(49 - 111)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: D4C310153 Work Order #...: GC9FX1AC-LCS Matrix.....: WATER
LCS Lot-Sample#: D4C310000-410 GC9FX1AD-LCSD
Prep Date.....: 03/31/04 Analysis Date..: 04/15/04
Prep Batch #...: 4091410 Analysis Time..: 16:09
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Aldrin	0.500	0.485	ug/L	97		SW846 8081A
	0.500	0.482	ug/L	96	0.49	SW846 8081A
gamma-BHC (Lindane)	0.500	0.498	ug/L	100		SW846 8081A
	0.500	0.500	ug/L	100	0.54	SW846 8081A
4,4'-DDT	0.500	0.464	ug/L	93		SW846 8081A
	0.500	0.468	ug/L	94	0.88	SW846 8081A
Dieldrin	0.500	0.496	ug/L	99		SW846 8081A
	0.500	0.499	ug/L	100	0.77	SW846 8081A
Endrin	0.500	0.420	ug/L	84		SW846 8081A
	0.500	0.414	ug/L	83	1.3	SW846 8081A
Heptachlor	0.500	0.469	ug/L	94		SW846 8081A
	0.500	0.473	ug/L	95	0.78	SW846 8081A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	83	(56 - 136)
	89	(56 - 136)
Tetrachloro-m-xylene	83	(49 - 111)
	84	(49 - 111)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: D4C310153
MB Lot-Sample #: D4C310000-394
Work Order #...: GC9D31AA
Matrix.....: WATER
Prep Date.....: 03/31/04
Analysis Time..: 16:36
Analysis Date..: 04/01/04
Prep Batch #...: 4091394
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	1.0	ug/L	SW846 8082
Aroclor 1221	ND	1.0	ug/L	SW846 8082
Aroclor 1232	ND	1.0	ug/L	SW846 8082
Aroclor 1242	ND	1.0	ug/L	SW846 8082
Aroclor 1248	ND	1.0	ug/L	SW846 8082
Aroclor 1254	ND	1.0	ug/L	SW846 8082
Aroclor 1260	ND	1.0	ug/L	SW846 8082

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	93	(51 - 122)
Decachlorobiphenyl	94	(41 - 138)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: D4C310153 Work Order #...: GC9D31AC-LCS Matrix.....: WATER
LCS Lot-Sample#: D4C310000-394 GC9D31AD-LCSD
Prep Date.....: 03/31/04 Analysis Date..: 04/01/04
Prep Batch #...: 4091394 Analysis Time..: 17:02
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Aroclor 1016	118	(58 - 128)			SW846 8082
	122	(58 - 128)	3.0	(0-30)	SW846 8082
Aroclor 1260	106	(69 - 140)			SW846 8082
	108	(69 - 140)	1.9	(0-30)	SW846 8082

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	92	(42 - 120)
	98	(42 - 120)
Decachlorobiphenyl	96	(56 - 136)
	92	(56 - 136)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: D4C310153 Work Order #...: GC9D31AC-LCS Matrix.....: WATER
LCS Lot-Sample#: D4C310000-394 GC9D31AD-LCSD
Prep Date.....: 03/31/04 Analysis Date..: 04/01/04
Prep Batch #...: 4091394 Analysis Time..: 17:02
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Aroclor 1016	2.00	2.36	ug/L	118		SW846 8082
	2.00	2.44	ug/L	122	3.0	SW846 8082
Aroclor 1260	2.00	2.13	ug/L	106		SW846 8082
	2.00	2.17	ug/L	108	1.9	SW846 8082

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	92	(42 - 120)
	98	(42 - 120)
Decachlorobiphenyl	96	(56 - 136)
	92	(56 - 136)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: D4C310153 Work Order #...: GDH0G1AA Matrix.....: WATER
MB Lot-Sample #: D4D050000-147

Prep Date.....: 04/05/04 Analysis Time..: 18:38
Analysis Date..: 04/12/04 Prep Batch #...: 4096147
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Azinphos-methyl	ND	2.5	ug/L	SW846 8141A
Bolstar	ND	0.50	ug/L	SW846 8141A
Chlorpyrifos	ND	0.50	ug/L	SW846 8141A
Coumaphos	ND	0.50	ug/L	SW846 8141A
Demeton (total)	ND	1.0	ug/L	SW846 8141A
Diazinon	ND	0.50	ug/L	SW846 8141A
Dichlorvos	ND	0.50	ug/L	SW846 8141A
Dimethoate	ND	0.50	ug/L	SW846 8141A
Disulfoton	ND	0.50	ug/L	SW846 8141A
Ethoprop	ND	0.50	ug/L	SW846 8141A
Ethyl parathion	ND	0.50	ug/L	SW846 8141A
Famphur	ND	1.0	ug/L	SW846 8141A
Fensulfothion	ND	2.5	ug/L	SW846 8141A
Fenthion	ND	0.50	ug/L	SW846 8141A
Malathion	ND	1.2	ug/L	SW846 8141A
Merphos	ND	5.0	ug/L	SW846 8141A
Methyl parathion	ND	0.50	ug/L	SW846 8141A
Mevinphos	ND	6.2	ug/L	SW846 8141A
Naled	ND	10	ug/L	SW846 8141A
O,O,O-Triethylphosphoro-thioate	ND	0.50	ug/L	SW846 8141A
Phorate	ND	0.50	ug/L	SW846 8141A
Ronnel	ND	10	ug/L	SW846 8141A
Sulfotepp	ND	0.50	ug/L	SW846 8141A
Thionazin	ND	0.50	ug/L	SW846 8141A
Tokuthion	ND	0.50	ug/L	SW846 8141A
Trichloronate	ND	0.50	ug/L	SW846 8141A
EPN	ND	0.50	ug/L	SW846 8141A
Demeton-O	ND	1.0	ug/L	SW846 8141A
Demeton-S	ND	1.0	ug/L	SW846 8141A
Tetrachlorvinphos (Stirop	ND	2.5	ug/L	SW846 8141A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Chlormefos	109	(48 - 114)
Ethyl Pirimifos	82	(68 - 98)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: D4C310153 Work Order #...: GDH0G1AC-LCS Matrix.....: WATER
LCS Lot-Sample#: D4D050000-147 GDH0G1AD-LCSD
Prep Date.....: 04/05/04 Analysis Date..: 04/12/04
Prep Batch #...: 4096147 Analysis Time..: 19:11
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Demeton (total)	77	(47 - 100)			SW846 8141A
	73	(47 - 100)	4.7	(0-40)	SW846 8141A
Diazinon	103	(70 - 103)			SW846 8141A
	96	(70 - 103)	6.7	(0-40)	SW846 8141A
Ethyl parathion	79	(49 - 122)			SW846 8141A
	86	(49 - 122)	8.5	(0-40)	SW846 8141A
Malathion	69	(56 - 106)			SW846 8141A
	73	(56 - 106)	6.4	(0-40)	SW846 8141A
Methyl parathion	80	(68 - 105)			SW846 8141A
	85	(68 - 105)	5.7	(0-40)	SW846 8141A
Phorate	99	(62 - 104)			SW846 8141A
	92	(62 - 104)	6.9	(0-40)	SW846 8141A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Chlormefos	104	(48 - 114)
	95	(48 - 114)
Ethyl Pirimifos	83	(68 - 98)
	82	(68 - 98)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: D4C310153 Work Order #...: GDH0G1AC-LCS Matrix.....: WATER
LCS Lot-Sample#: D4D050000-147 GDH0G1AD-LCSD
Prep Date.....: 04/05/04 Analysis Date..: 04/12/04
Prep Batch #...: 4096147 Analysis Time..: 19:11
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Demeton (total)	4.00	3.06	ug/L	77		SW846 8141A
	4.00	2.92	ug/L	73	4.7	SW846 8141A
Diazinon	4.00	4.10	ug/L	103		SW846 8141A
	4.00	3.84	ug/L	96	6.7	SW846 8141A
Ethyl parathion	4.00	3.15	ug/L	79		SW846 8141A
	4.00	3.43	ug/L	86	8.5	SW846 8141A
Malathion	4.00	2.75	ug/L	69		SW846 8141A
	4.00	2.93	ug/L	73	6.4	SW846 8141A
Methyl parathion	4.00	3.22	ug/L	80		SW846 8141A
	4.00	3.41	ug/L	85	5.7	SW846 8141A
Phorate	4.00	3.96	ug/L	99		SW846 8141A
	4.00	3.69	ug/L	92	6.9	SW846 8141A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Chlormefos	104	(48 - 114)
	95	(48 - 114)
Ethyl Pirimifos	83	(68 - 98)
	82	(68 - 98)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: D4C310153 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: D4D010000-277 Prep Batch #...: 4092277						
Mercury	ND	0.20	ug/L	SW846 7470A	04/06/04	GDA841AA
		Dilution Factor: 1				
		Analysis Time..: 17:15				
MB Lot-Sample #: D4D010000-620 Prep Batch #...: 4092620						
Aluminum	42 B	100	ug/L	SW846 6010B	04/06-04/29/04	GDD581AA
		Dilution Factor: 1				
		Analysis Time..: 03:00				
Antimony	ND	10	ug/L	SW846 6010B	04/06-04/17/04	GDD581C9
		Dilution Factor: 1				
		Analysis Time..: 08:42				
Arsenic	ND	15	ug/L	SW846 6010B	04/06-04/17/04	GDD581C2
		Dilution Factor: 1				
		Analysis Time..: 08:42				
Barium	ND	10	ug/L	SW846 6010B	04/06-04/17/04	GDD581AC
		Dilution Factor: 1				
		Analysis Time..: 08:42				
Beryllium	ND	5.0	ug/L	SW846 6010B	04/06-04/17/04	GDD581AD
		Dilution Factor: 1				
		Analysis Time..: 08:42				
Boron	ND	100	ug/L	SW846 6010B	04/06-04/29/04	GDD581C3
		Dilution Factor: 1				
		Analysis Time..: 03:00				
Cadmium	ND	5.0	ug/L	SW846 6010B	04/06-04/17/04	GDD581C4
		Dilution Factor: 1				
		Analysis Time..: 08:42				
Chromium	ND	10	ug/L	SW846 6010B	04/06-04/17/04	GDD581C6
		Dilution Factor: 1				
		Analysis Time..: 08:42				
Cobalt	ND	10	ug/L	SW846 6010B	04/06-04/17/04	GDD581C5
		Dilution Factor: 1				
		Analysis Time..: 08:42				

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: D4C310153 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	ND	10	ug/L	SW846 6010B	04/06-04/17/04	GDD581AF
		Dilution Factor: 1				
		Analysis Time..: 08:42				
Iron	ND	100	ug/L	SW846 6010B	04/06-04/17/04	GDD581AG
		Dilution Factor: 1				
		Analysis Time..: 08:42				
Lead	ND	3.0	ug/L	SW846 6010B	04/06-04/29/04	GDD581C8
		Dilution Factor: 1				
		Analysis Time..: 03:00				
Manganese	ND	10	ug/L	SW846 6010B	04/06-04/17/04	GDD581AJ
		Dilution Factor: 1				
		Analysis Time..: 08:42				
Molybdenum	ND	20	ug/L	SW846 6010B	04/06-04/17/04	GDD581C7
		Dilution Factor: 1				
		Analysis Time..: 08:42				
Nickel	ND	40	ug/L	SW846 6010B	04/06-04/17/04	GDD581AK
		Dilution Factor: 1				
		Analysis Time..: 08:42				
Selenium	ND	15	ug/L	SW846 6010B	04/06-04/17/04	GDD581DA
		Dilution Factor: 1				
		Analysis Time..: 08:42				
Silver	ND	10	ug/L	SW846 6010B	04/06-04/17/04	GDD581C1
		Dilution Factor: 1				
		Analysis Time..: 08:42				
Thallium	ND	10	ug/L	SW846 6010B	04/06-04/17/04	GDD581DC
		Dilution Factor: 1				
		Analysis Time..: 08:42				
Zinc	ND	20	ug/L	SW846 6010B	04/06-04/17/04	GDD581AN
		Dilution Factor: 1				
		Analysis Time..: 08:42				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Lot-Sample #...: D4C310153 Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP-BATCH #
Aluminum	91	(86 - 108)			SW846 6010B	04/06-04/29/04	4092620
	93	(86 - 108)	1.6	(0-20)	SW846 6010B	04/06-04/29/04	4092620
		Dilution Factor: 1			Analysis Time..: 03:04		
Antimony	95	(88 - 108)			SW846 6010B	04/06-04/17/04	4092620
	98	(88 - 108)	3.6	(0-20)	SW846 6010B	04/06-04/17/04	4092620
		Dilution Factor: 1			Analysis Time..: 08:47		
Arsenic	95	(89 - 109)			SW846 6010B	04/06-04/17/04	4092620
	98	(89 - 109)	3.2	(0-20)	SW846 6010B	04/06-04/17/04	4092620
		Dilution Factor: 1			Analysis Time..: 08:47		
Barium	102	(93 - 113)			SW846 6010B	04/06-04/17/04	4092620
	104	(93 - 113)	2.3	(0-20)	SW846 6010B	04/06-04/17/04	4092620
		Dilution Factor: 1			Analysis Time..: 08:47		
Beryllium	94	(88 - 112)			SW846 6010B	04/06-04/17/04	4092620
	97	(88 - 112)	3.5	(0-20)	SW846 6010B	04/06-04/17/04	4092620
		Dilution Factor: 1			Analysis Time..: 08:47		
Boron	93	(89 - 110)			SW846 6010B	04/06-04/29/04	4092620
	96	(89 - 110)	3.1	(0-20)	SW846 6010B	04/06-04/29/04	4092620
		Dilution Factor: 1			Analysis Time..: 03:04		
Cadmium	92	(89 - 110)			SW846 6010B	04/06-04/17/04	4092620
	96	(89 - 110)	4.0	(0-20)	SW846 6010B	04/06-04/17/04	4092620
		Dilution Factor: 1			Analysis Time..: 08:47		
Chromium	98	(89 - 112)			SW846 6010B	04/06-04/17/04	4092620
	102	(89 - 112)	3.2	(0-20)	SW846 6010B	04/06-04/17/04	4092620
		Dilution Factor: 1			Analysis Time..: 08:47		
Cobalt	96	(86 - 107)			SW846 6010B	04/06-04/17/04	4092620
	99	(86 - 107)	3.0	(0-20)	SW846 6010B	04/06-04/17/04	4092620
		Dilution Factor: 1			Analysis Time..: 08:47		
Copper	95	(86 - 110)			SW846 6010B	04/06-04/17/04	4092620
	97	(86 - 110)	2.5	(0-20)	SW846 6010B	04/06-04/17/04	4092620
		Dilution Factor: 1			Analysis Time..: 08:47		

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Lot-Sample #...: D4C310153 Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP-BATCH #
Iron	98	(88 - 110)			SW846 6010B	04/06-04/17/04	4092620
	103	(88 - 110)	4.6	(0-20)	SW846 6010B	04/06-04/17/04	4092620
		Dilution Factor: 1			Analysis Time..: 08:47		
Lead	93	(91 - 111)			SW846 6010B	04/06-04/29/04	4092620
	96	(91 - 111)	2.8	(0-20)	SW846 6010B	04/06-04/29/04	4092620
		Dilution Factor: 1			Analysis Time..: 03:04		
Manganese	98	(90 - 110)			SW846 6010B	04/06-04/17/04	4092620
	101	(90 - 110)	3.1	(0-20)	SW846 6010B	04/06-04/17/04	4092620
		Dilution Factor: 1			Analysis Time..: 08:47		
Molybdenum	95	(83 - 109)			SW846 6010B	04/06-04/17/04	4092620
	99	(83 - 109)	4.0	(0-20)	SW846 6010B	04/06-04/17/04	4092620
		Dilution Factor: 1			Analysis Time..: 08:47		
Nickel	96	(90 - 110)			SW846 6010B	04/06-04/17/04	4092620
	99	(90 - 110)	3.0	(0-20)	SW846 6010B	04/06-04/17/04	4092620
		Dilution Factor: 1			Analysis Time..: 08:47		
Selenium	97	(88 - 110)			SW846 6010B	04/06-04/17/04	4092620
	100	(88 - 110)	2.8	(0-20)	SW846 6010B	04/06-04/17/04	4092620
		Dilution Factor: 1			Analysis Time..: 08:47		
Silver	98	(85 - 114)			SW846 6010B	04/06-04/17/04	4092620
	101	(85 - 114)	3.2	(0-20)	SW846 6010B	04/06-04/17/04	4092620
		Dilution Factor: 1			Analysis Time..: 08:47		
Thallium	98	(88 - 108)			SW846 6010B	04/06-04/17/04	4092620
	101	(88 - 108)	3.3	(0-20)	SW846 6010B	04/06-04/17/04	4092620
		Dilution Factor: 1			Analysis Time..: 08:47		
Zinc	96	(85 - 110)			SW846 6010B	04/06-04/17/04	4092620
	99	(85 - 110)	3.0	(0-20)	SW846 6010B	04/06-04/17/04	4092620
		Dilution Factor: 1			Analysis Time..: 08:47		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Lot-Sample #...: D4C310153 Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Aluminum	2000	1820	ug/L	91		SW846 6010B	04/06-04/29/04	4092620
	2000	1850	ug/L	93	1.6	SW846 6010B	04/06-04/29/04	4092620
			Dilution Factor: 1			Analysis Time..: 03:04		
Antimony	500	475	ug/L	95		SW846 6010B	04/06-04/17/04	4092620
	500	492	ug/L	98	3.6	SW846 6010B	04/06-04/17/04	4092620
			Dilution Factor: 1			Analysis Time..: 08:47		
Arsenic	2000	1900	ug/L	95		SW846 6010B	04/06-04/17/04	4092620
	2000	1970	ug/L	98	3.2	SW846 6010B	04/06-04/17/04	4092620
			Dilution Factor: 1			Analysis Time..: 08:47		
Barium	2000	2030	ug/L	102		SW846 6010B	04/06-04/17/04	4092620
	2000	2080	ug/L	104	2.3	SW846 6010B	04/06-04/17/04	4092620
			Dilution Factor: 1			Analysis Time..: 08:47		
Beryllium	50.0	46.9	ug/L	94		SW846 6010B	04/06-04/17/04	4092620
	50.0	48.5	ug/L	97	3.5	SW846 6010B	04/06-04/17/04	4092620
			Dilution Factor: 1			Analysis Time..: 08:47		
Boron	1000	930	ug/L	93		SW846 6010B	04/06-04/29/04	4092620
	1000	959	ug/L	96	3.1	SW846 6010B	04/06-04/29/04	4092620
			Dilution Factor: 1			Analysis Time..: 03:04		
Cadmium	50.0	46.0	ug/L	92		SW846 6010B	04/06-04/17/04	4092620
	50.0	47.9	ug/L	96	4.0	SW846 6010B	04/06-04/17/04	4092620
			Dilution Factor: 1			Analysis Time..: 08:47		
Chromium	200	197	ug/L	98		SW846 6010B	04/06-04/17/04	4092620
	200	203	ug/L	102	3.2	SW846 6010B	04/06-04/17/04	4092620
			Dilution Factor: 1			Analysis Time..: 08:47		
Cobalt	500	478	ug/L	96		SW846 6010B	04/06-04/17/04	4092620
	500	493	ug/L	99	3.0	SW846 6010B	04/06-04/17/04	4092620
			Dilution Factor: 1			Analysis Time..: 08:47		
Copper	250	236	ug/L	95		SW846 6010B	04/06-04/17/04	4092620
	250	242	ug/L	97	2.5	SW846 6010B	04/06-04/17/04	4092620
			Dilution Factor: 1			Analysis Time..: 08:47		

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LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Lot-Sample #...: D4C310153 Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Iron	1000	984	ug/L	98		SW846 6010B	04/06-04/17/04	4092620
	1000	1030	ug/L	103	4.6	SW846 6010B	04/06-04/17/04	4092620
			Dilution Factor: 1			Analysis Time..: 08:47		
Lead	500	467	ug/L	93		SW846 6010B	04/06-04/29/04	4092620
	500	481	ug/L	96	2.8	SW846 6010B	04/06-04/29/04	4092620
			Dilution Factor: 1			Analysis Time..: 03:04		
Manganese	500	490	ug/L	98		SW846 6010B	04/06-04/17/04	4092620
	500	505	ug/L	101	3.1	SW846 6010B	04/06-04/17/04	4092620
			Dilution Factor: 1			Analysis Time..: 08:47		
Molybdenum	1000	951	ug/L	95		SW846 6010B	04/06-04/17/04	4092620
	1000	990	ug/L	99	4.0	SW846 6010B	04/06-04/17/04	4092620
			Dilution Factor: 1			Analysis Time..: 08:47		
Nickel	500	479	ug/L	96		SW846 6010B	04/06-04/17/04	4092620
	500	493	ug/L	99	3.0	SW846 6010B	04/06-04/17/04	4092620
			Dilution Factor: 1			Analysis Time..: 08:47		
Selenium	2000	1940	ug/L	97		SW846 6010B	04/06-04/17/04	4092620
	2000	2000	ug/L	100	2.8	SW846 6010B	04/06-04/17/04	4092620
			Dilution Factor: 1			Analysis Time..: 08:47		
Silver	50.0	49.0	ug/L	98		SW846 6010B	04/06-04/17/04	4092620
	50.0	50.6	ug/L	101	3.2	SW846 6010B	04/06-04/17/04	4092620
			Dilution Factor: 1			Analysis Time..: 08:47		
Thallium	2000	1960	ug/L	98		SW846 6010B	04/06-04/17/04	4092620
	2000	2030	ug/L	101	3.3	SW846 6010B	04/06-04/17/04	4092620
			Dilution Factor: 1			Analysis Time..: 08:47		
Zinc	500	478	ug/L	96		SW846 6010B	04/06-04/17/04	4092620
	500	493	ug/L	99	3.0	SW846 6010B	04/06-04/17/04	4092620
			Dilution Factor: 1			Analysis Time..: 08:47		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: D4C310153 Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: D4D010000-277 Prep Batch #...: 4092277					
Mercury	99	(84 - 114)	SW846 7470A	04/06/04	GDA841AC
		Dilution Factor: 1	Analysis Time..: 17:17		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: D4C310153 Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: D4D010000-277 Prep Batch #...: 4092277							
Mercury	5.00	4.95	ug/L	99	SW846 7470A	04/06/04	GDA841AC

Dilution Factor: 1 Analysis Time..: 17:17

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: D4C310153 Matrix.....: WATER
Date Sampled...: 03/29/04 15:20 Date Received..: 03/30/04

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: D4C300202-006 Prep Batch #...: 4092277							
Mercury	95	(84 - 114)			SW846 7470A	04/06/04	GC63M1AV
	95	(84 - 114)	0.63	(0-10)	SW846 7470A	04/06/04	GC63M1AW

Dilution Factor: 1
Analysis Time..: 17:29

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: D4C310153 Matrix.....: WATER
Date Sampled...: 03/29/04 15:20 Date Received..: 03/30/04

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER
MS Lot-Sample #: D4C300202-006 Prep Batch #...: 4092277									
Mercury									
	ND	5.00	4.73	ug/L	95		SW846 7470A	04/06/04	GC63M1
	ND	5.00	4.76	ug/L	95	0.63	SW846 7470A	04/06/04	GC63M1

Dilution Factor: 1
Analysis Time..: 17:29

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: D4C310153 Matrix.....: WATER
Date Sampled...: 03/29/04 10:40 Date Received..: 03/30/04

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: D4C300171-001 Prep Batch #...: 4092620							
Aluminum	103	(83 - 119)			SW846 6010B	04/06-04/29/04	GC6T51A8
	113	(83 - 119)	6.7	(0-25)	SW846 6010B	04/06-04/29/04	GC6T51A9
		Dilution Factor: 1					
		Analysis Time..: 03:28					
Antimony	97	(81 - 124)			SW846 6010B	04/06-04/17/04	GC6T51D7
	97	(81 - 124)	0.06	(0-25)	SW846 6010B	04/06-04/17/04	GC6T51D8
		Dilution Factor: 1					
		Analysis Time..: 09:10					
Arsenic	97	(84 - 124)			SW846 6010B	04/06-04/17/04	GC6T51DH
	97	(84 - 124)	0.56	(0-25)	SW846 6010B	04/06-04/17/04	GC6T51DJ
		Dilution Factor: 1					
		Analysis Time..: 09:10					
Barium	104	(85 - 120)			SW846 6010B	04/06-04/17/04	GC6T51CA
	105	(85 - 120)	1.2	(0-25)	SW846 6010B	04/06-04/17/04	GC6T51CC
		Dilution Factor: 1					
		Analysis Time..: 09:10					
Beryllium	94	(79 - 121)			SW846 6010B	04/06-04/17/04	GC6T51CD
	96	(79 - 121)	1.1	(0-25)	SW846 6010B	04/06-04/17/04	GC6T51CE
		Dilution Factor: 1					
		Analysis Time..: 09:10					
Boron	96	(87 - 113)			SW846 6010B	04/06-04/29/04	GC6T51DL
	96	(87 - 113)	0.76	(0-25)	SW846 6010B	04/06-04/29/04	GC6T51DM
		Dilution Factor: 1					
		Analysis Time..: 03:28					
Cadmium	94	(82 - 119)			SW846 6010B	04/06-04/17/04	GC6T51DP
	94	(82 - 119)	0.51	(0-25)	SW846 6010B	04/06-04/17/04	GC6T51DQ
		Dilution Factor: 1					
		Analysis Time..: 09:10					
Chromium	99	(73 - 135)			SW846 6010B	04/06-04/17/04	GC6T51DW
	100	(73 - 135)	1.2	(0-25)	SW846 6010B	04/06-04/17/04	GC6T51DX
		Dilution Factor: 1					
		Analysis Time..: 09:10					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: D4C310153 Matrix.....: WATER
Date Sampled...: 03/29/04 10:40 Date Received..: 03/30/04

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	96	(82 - 119)			SW846 6010B	04/06-04/17/04	GC6T51DT
	97	(82 - 119)	1.2	(0-25)	SW846 6010B	04/06-04/17/04	GC6T51DU
		Dilution Factor: 1					
		Analysis Time..: 09:10					
Copper	98	(82 - 129)			SW846 6010B	04/06-04/17/04	GC6T51CH
	100	(82 - 129)	1.4	(0-25)	SW846 6010B	04/06-04/17/04	GC6T51CJ
		Dilution Factor: 1					
		Analysis Time..: 09:10					
Iron	106	(52 - 155)			SW846 6010B	04/06-04/17/04	GC6T51CK
	121	(52 - 155)	6.7	(0-25)	SW846 6010B	04/06-04/17/04	GC6T51CL
		Dilution Factor: 1					
		Analysis Time..: 09:10					
Lead	96	(89 - 121)			SW846 6010B	04/06-04/29/04	GC6T51D4
	95	(89 - 121)	0.69	(0-25)	SW846 6010B	04/06-04/29/04	GC6T51D5
		Dilution Factor: 1					
		Analysis Time..: 03:28					
Manganese	98	(79 - 121)			SW846 6010B	04/06-04/17/04	GC6T51CP
	100	(79 - 121)	1.2	(0-25)	SW846 6010B	04/06-04/17/04	GC6T51CQ
		Dilution Factor: 1					
		Analysis Time..: 09:10					
Molybdenum	97	(83 - 109)			SW846 6010B	04/06-04/17/04	GC6T51D1
	98	(83 - 109)	1.3	(0-25)	SW846 6010B	04/06-04/17/04	GC6T51D2
		Dilution Factor: 1					
		Analysis Time..: 09:10					
Nickel	97	(84 - 120)			SW846 6010B	04/06-04/17/04	GC6T51CR
	98	(84 - 120)	1.1	(0-25)	SW846 6010B	04/06-04/17/04	GC6T51CT
		Dilution Factor: 1					
		Analysis Time..: 09:10					
Selenium	98	(71 - 140)			SW846 6010B	04/06-04/17/04	GC6T51EA
	98	(71 - 140)	0.20	(0-25)	SW846 6010B	04/06-04/17/04	GC6T51EC
		Dilution Factor: 1					
		Analysis Time..: 09:10					
Silver	101	(75 - 141)			SW846 6010B	04/06-04/17/04	GC6T51DE
	100	(75 - 141)	1.3	(0-25)	SW846 6010B	04/06-04/17/04	GC6T51DF
		Dilution Factor: 1					
		Analysis Time..: 09:10					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: D4C310153 Matrix.....: WATER
Date Sampled...: 03/29/04 10:40 Date Received..: 03/30/04

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	100	(90 - 116)			SW846 6010B	04/06-04/17/04	GC6T51EE
	100	(90 - 116)	0.67	(0-25)	SW846 6010B	04/06-04/17/04	GC6T51EF
		Dilution Factor: 1					
		Analysis Time..: 09:10					
Zinc	100	(60 - 137)			SW846 6010B	04/06-04/17/04	GC6T51C0
	97	(60 - 137)	2.3	(0-25)	SW846 6010B	04/06-04/17/04	GC6T51C1
		Dilution Factor: 1					
		Analysis Time..: 09:10					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: D4C310153 Matrix.....: WATER
Date Sampled...: 03/29/04 10:40 Date Received..: 03/30/04

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: D4C300171-001 Prep Batch #...: 4092620									
Aluminum									
	870	2000	2920	ug/L	103		SW846 6010B	04/06-04/29/04	GC6T51A
	870	2000	3120	ug/L	113	6.7	SW846 6010B	04/06-04/29/04	GC6T51A
			Dilution Factor: 1						
			Analysis Time..: 03:28						
Antimony									
	ND	500	485	ug/L	97		SW846 6010B	04/06-04/17/04	GC6T51D
	ND	500	486	ug/L	97	0.06	SW846 6010B	04/06-04/17/04	GC6T51D
			Dilution Factor: 1						
			Analysis Time..: 09:10						
Arsenic									
	ND	2000	1930	ug/L	97		SW846 6010B	04/06-04/17/04	GC6T51DI
	ND	2000	1940	ug/L	97	0.56	SW846 6010B	04/06-04/17/04	GC6T51D
			Dilution Factor: 1						
			Analysis Time..: 09:10						
Barium									
	92	2000	2160	ug/L	104		SW846 6010B	04/06-04/17/04	GC6T51C
	92	2000	2190	ug/L	105	1.2	SW846 6010B	04/06-04/17/04	GC6T51C
			Dilution Factor: 1						
			Analysis Time..: 09:10						
Beryllium									
	ND	50.0	47.2	ug/L	94		SW846 6010B	04/06-04/17/04	GC6T51CI
	ND	50.0	47.8	ug/L	96	1.1	SW846 6010B	04/06-04/17/04	GC6T51CI
			Dilution Factor: 1						
			Analysis Time..: 09:10						
Boron									
	10	1000	974	ug/L	96		SW846 6010B	04/06-04/29/04	GC6T51DI
	10	1000	966	ug/L	96	0.76	SW846 6010B	04/06-04/29/04	GC6T51DI
			Dilution Factor: 1						
			Analysis Time..: 03:28						
Cadmium									
	ND	50.0	46.8	ug/L	94		SW846 6010B	04/06-04/17/04	GC6T51DI
	ND	50.0	47.0	ug/L	94	0.51	SW846 6010B	04/06-04/17/04	GC6T51D
			Dilution Factor: 1						
			Analysis Time..: 09:10						

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: D4C310153 Matrix.....: WATER
Date Sampled...: 03/29/04 10:40 Date Received..: 03/30/04

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Chromium									
	15	200	213	ug/L	99		SW846 6010B	04/06-04/17/04	GC6T51DW
	15	200	216	ug/L	100	1.2	SW846 6010B	04/06-04/17/04	GC6T51DX
			Dilution Factor: 1						
			Analysis Time..: 09:10						
Cobalt									
	1.2	500	483	ug/L	96		SW846 6010B	04/06-04/17/04	GC6T51DT
	1.2	500	488	ug/L	97	1.2	SW846 6010B	04/06-04/17/04	GC6T51DU
			Dilution Factor: 1						
			Analysis Time..: 09:10						
Copper									
	1.7	250	247	ug/L	98		SW846 6010B	04/06-04/17/04	GC6T51CH
	1.7	250	251	ug/L	100	1.4	SW846 6010B	04/06-04/17/04	GC6T51CJ
			Dilution Factor: 1						
			Analysis Time..: 09:10						
Iron									
	1200	1000	2260	ug/L	106		SW846 6010B	04/06-04/17/04	GC6T51CK
	1200	1000	2410	ug/L	121	6.7	SW846 6010B	04/06-04/17/04	GC6T51CL
			Dilution Factor: 1						
			Analysis Time..: 09:10						
Lead									
	3.5	500	484	ug/L	96		SW846 6010B	04/06-04/29/04	GC6T51D4
	3.5	500	480	ug/L	95	0.69	SW846 6010B	04/06-04/29/04	GC6T51D5
			Dilution Factor: 1						
			Analysis Time..: 03:28						
Manganese									
	77	500	569	ug/L	98		SW846 6010B	04/06-04/17/04	GC6T51CP
	77	500	576	ug/L	100	1.2	SW846 6010B	04/06-04/17/04	GC6T51CQ
			Dilution Factor: 1						
			Analysis Time..: 09:10						
Molybdenum									
	3.4	1000	971	ug/L	97		SW846 6010B	04/06-04/17/04	GC6T51D1
	3.4	1000	983	ug/L	98	1.3	SW846 6010B	04/06-04/17/04	GC6T51D2
			Dilution Factor: 1						
			Analysis Time..: 09:10						

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: D4C310153 Matrix.....: WATER
Date Sampled...: 03/29/04 10:40 Date Received..: 03/30/04

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Nickel									
	17	500	502	ug/L	97		SW846 6010B	04/06-04/17/04	GC6T51CI
	17	500	507	ug/L	98	1.1	SW846 6010B	04/06-04/17/04	GC6T51C:
			Dilution Factor: 1						
			Analysis Time..: 09:10						
Selenium									
	5.6	2000	1960	ug/L	98		SW846 6010B	04/06-04/17/04	GC6T51E:
	5.6	2000	1960	ug/L	98	0.20	SW846 6010B	04/06-04/17/04	GC6T51E(
			Dilution Factor: 1						
			Analysis Time..: 09:10						
Silver									
	ND	50.0	51.1	ug/L	101		SW846 6010B	04/06-04/17/04	GC6T51DI
	ND	50.0	50.4	ug/L	100	1.3	SW846 6010B	04/06-04/17/04	GC6T51DI
			Dilution Factor: 1						
			Analysis Time..: 09:10						
Thallium									
	ND	2000	2000	ug/L	100		SW846 6010B	04/06-04/17/04	GC6T51EI
	ND	2000	2010	ug/L	100	0.67	SW846 6010B	04/06-04/17/04	GC6T51EI
			Dilution Factor: 1						
			Analysis Time..: 09:10						
Zinc									
	9.1	500	507	ug/L	100		SW846 6010B	04/06-04/17/04	GC6T51C(
	9.1	500	495	ug/L	97	2.3	SW846 6010B	04/06-04/17/04	GC6T51C:
			Dilution Factor: 1						
			Analysis Time..: 09:10						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: D4C310153 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chemical Oxygen Demand (COD)		Work Order #: GDRJC1AA		MB Lot-Sample #:	D4D080000-309	
	4.2 B	20	mg/L	MCAWW 410.4	04/08/04	4099309
		Dilution Factor: 1				
		Analysis Time..: 11:15				
Chloride		Work Order #: GDW4V1AA		MB Lot-Sample #:	D4D010000-263	
	ND	3.0	mg/L	MCAWW 300.0A	03/31/04	4092263
		Dilution Factor: 1				
		Analysis Time..: 15:19				
Fecal Coliform		Work Order #: GDKA41AA		MB Lot-Sample #:	D4D050000-595	
	ND	1.0	CFU/100m	SM18 9222D Fecal	03/31/04	4096595
		Dilution Factor: 1				
		Analysis Time..: 11:00				
Fluoride		Work Order #: GDWTA1AA		MB Lot-Sample #:	D4D010000-264	
	ND	1.0	mg/L	MCAWW 300.0A	03/31/04	4092264
		Dilution Factor: 1				
		Analysis Time..: 15:19				
Nitrate		Work Order #: GDW541AA		MB Lot-Sample #:	D4D010000-265	
	ND	0.50	mg/L	MCAWW 300.0A	03/31/04	4092265
		Dilution Factor: 1				
		Analysis Time..: 15:19				
Nitrite		Work Order #: GDW5L1AA		MB Lot-Sample #:	D4D010000-266	
	ND	0.50	mg/L	MCAWW 300.0A	03/31/04	4092266
		Dilution Factor: 1				
		Analysis Time..: 15:19				
Specific Conductance		Work Order #: GD0WC1AA		MB Lot-Sample #:	D4D120000-197	
	ND	2.0	umhos/cm	MCAWW 120.1	04/09/04	4103197
		Dilution Factor: 1				
		Analysis Time..: 16:00				
Sulfate		Work Order #: GDA3N1AA		MB Lot-Sample #:	D4D010000-262	
	ND	5.0	mg/L	MCAWW 300.0A	03/31/04	4092262
		Dilution Factor: 1				
		Analysis Time..: 15:19				
Total Coliform		Work Order #: GDKAQ1AA		MB Lot-Sample #:	D4D050000-596	
	ND	1.0	CFU/100m	SM18 9222B	03/31/04	4096596
		Dilution Factor: 1				
		Analysis Time..: 11:00				

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METHOD BLANK REPORT

General Chemistry

Client Lot #...: D4C310153 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Cyanide		Work Order #: GDKDG1AA		MB Lot-Sample #:	D4D050000-601	
	ND	0.010	mg/L	MCAWW 335.3	04/05/04	4096601
		Dilution Factor: 1				
		Analysis Time..: 14:00				
Total Dissolved Solids		Work Order #: GDJ5M1AA		MB Lot-Sample #:	D4D020000-379	
	ND	10	mg/L	MCAWW 160.1	04/02/04	4093379
		Dilution Factor: 1				
		Analysis Time..: 12:30				
Total Suspended Solids		Work Order #: GDF141AA		MB Lot-Sample #:	D4D010000-561	
	ND	4.0	mg/L	MCAWW 160.2	04/01/04	4092561
		Dilution Factor: 1				
		Analysis Time..: 18:00				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Lot-Sample #...: D4C310153 Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chemical Oxygen Demand (COD)		WO#:GDRJC1AC-LCS/GDRJC1AD-LCSD				LCS Lot-Sample#: D4D080000-309	
	102	(86 - 114)			MCAWW 410.4	04/08/04	4099309
	104	(86 - 114)	2.9	(0-11)	MCAWW 410.4	04/08/04	4099309
		Dilution Factor: 1			Analysis Time..: 11:15		
Chloride		WO#:GDW4V1AC-LCS/GDW4V1AD-LCSD				LCS Lot-Sample#: D4D010000-263	
	103	(90 - 110)			MCAWW 300.0A	03/31/04	4092263
	101	(90 - 110)	1.9	(0-10)	MCAWW 300.0A	03/31/04	4092263
		Dilution Factor: 1			Analysis Time..: 14:48		
Fluoride		WO#:GDWTA1AC-LCS/GDWTA1AD-LCSD				LCS Lot-Sample#: D4D010000-264	
	102	(90 - 110)			MCAWW 300.0A	03/31/04	4092264
	102	(90 - 110)	0.24	(0-10)	MCAWW 300.0A	03/31/04	4092264
		Dilution Factor: 1			Analysis Time..: 14:48		
Nitrate		WO#:GDW541AC-LCS/GDW541AD-LCSD				LCS Lot-Sample#: D4D010000-265	
	98	(90 - 110)			MCAWW 300.0A	03/31/04	4092265
	98	(90 - 110)	0.25	(0-10)	MCAWW 300.0A	03/31/04	4092265
		Dilution Factor: 1			Analysis Time..: 14:48		
Nitrite		WO#:GDW5L1AC-LCS/GDW5L1AD-LCSD				LCS Lot-Sample#: D4D010000-266	
	102	(90 - 110)			MCAWW 300.0A	03/31/04	4092266
	102	(90 - 110)	0.24	(0-10)	MCAWW 300.0A	03/31/04	4092266
		Dilution Factor: 1			Analysis Time..: 14:48		
Specific Conductance		WO#:GD0WC1AC-LCS/GD0WC1AD-LCSD				LCS Lot-Sample#: D4D120000-197	
	103	(89 - 109)			MCAWW 120.1	04/09/04	4103197
	104	(89 - 109)	1.4	(0-7.0)	MCAWW 120.1	04/09/04	4103197
		Dilution Factor: 1			Analysis Time..: 16:00		
Sulfate		WO#:GDA3N1AC-LCS/GDA3N1AD-LCSD				LCS Lot-Sample#: D4D010000-262	
	101	(90 - 110)			MCAWW 300.0A	03/31/04	4092262
	100	(90 - 110)	0.49	(0-10)	MCAWW 300.0A	03/31/04	4092262
		Dilution Factor: 1			Analysis Time..: 14:48		
Total Dissolved Solids		WO#:GDJ5M1AC-LCS/GDJ5M1AD-LCSD				LCS Lot-Sample#: D4D020000-379	
	97	(86 - 106)			MCAWW 160.1	04/02/04	4093379
	96	(86 - 106)	1.0	(0-20)	MCAWW 160.1	04/02/04	4093379
		Dilution Factor: 1			Analysis Time..: 12:30		

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Lot-Sample #...: D4C310153 Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Suspended Solids		WO#:GDF141AC-LCS/GDF141AD-LCSD				LCS Lot-Sample#: D4D010000-561	
	103	(86 - 114)			MCAWW 160.2	04/01/04	4092561
	107	(86 - 114)	3.3	(0-20)	MCAWW 160.2	04/01/04	4092561

Dilution Factor: 1 Analysis Time..: 18:00

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Lot-Sample #...: D4C310153 Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chemical Oxygen Demand (COD)			WO#:GDRJC1AC-LCS/GDRJC1AD-LCSD			LCS Lot-Sample#: D4D080000-309		
	100	102	mg/L	102		MCAWW 410.4	04/08/04	4099309
	100	104	mg/L	104	2.9	MCAWW 410.4	04/08/04	4099309
			Dilution Factor: 1			Analysis Time..: 11:15		
Chloride			WO#:GDW4V1AC-LCS/GDW4V1AD-LCSD			LCS Lot-Sample#: D4D010000-263		
	20.0	20.5	mg/L	103		MCAWW 300.0A	03/31/04	4092263
	20.0	20.1	mg/L	101	1.9	MCAWW 300.0A	03/31/04	4092263
			Dilution Factor: 1			Analysis Time..: 14:48		
Fluoride			WO#:GDWTA1AC-LCS/GDWTA1AD-LCSD			LCS Lot-Sample#: D4D010000-264		
	4.00	4.10	mg/L	102		MCAWW 300.0A	03/31/04	4092264
	4.00	4.09	mg/L	102	0.24	MCAWW 300.0A	03/31/04	4092264
			Dilution Factor: 1			Analysis Time..: 14:48		
Nitrate			WO#:GDW541AC-LCS/GDW541AD-LCSD			LCS Lot-Sample#: D4D010000-265		
	4.00	3.94	mg/L	98		MCAWW 300.0A	03/31/04	4092265
	4.00	3.93	mg/L	98	0.25	MCAWW 300.0A	03/31/04	4092265
			Dilution Factor: 1			Analysis Time..: 14:48		
Nitrite			WO#:GDW5L1AC-LCS/GDW5L1AD-LCSD			LCS Lot-Sample#: D4D010000-266		
	4.00	4.07	mg/L	102		MCAWW 300.0A	03/31/04	4092266
	4.00	4.06	mg/L	102	0.24	MCAWW 300.0A	03/31/04	4092266
			Dilution Factor: 1			Analysis Time..: 14:48		
Specific Conductance			WO#:GD0WC1AC-LCS/GD0WC1AD-LCSD			LCS Lot-Sample#: D4D120000-197		
	1410	1450	umhos/cm	103		MCAWW 120.1	04/09/04	4103197
	1410	1470	umhos/cm	104	1.4	MCAWW 120.1	04/09/04	4103197
			Dilution Factor: 1			Analysis Time..: 16:00		
Sulfate			WO#:GDA3N1AC-LCS/GDA3N1AD-LCSD			LCS Lot-Sample#: D4D010000-262		
	20.0	20.2	mg/L	101		MCAWW 300.0A	03/31/04	4092262
	20.0	20.0	mg/L	100	0.49	MCAWW 300.0A	03/31/04	4092262
			Dilution Factor: 1			Analysis Time..: 14:48		
Total Dissolved Solids			WO#:GDJ5M1AC-LCS/GDJ5M1AD-LCSD			LCS Lot-Sample#: D4D020000-379		
	500	485	mg/L	97		MCAWW 160.1	04/02/04	4093379
	500	480	mg/L	96	1.0	MCAWW 160.1	04/02/04	4093379
			Dilution Factor: 1			Analysis Time..: 12:30		

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Lot-Sample #...: D4C310153 Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Suspended Solids		WO#:GDF141AC-LCS/GDF141AD-LCSD				LCS Lot-Sample#: D4D010000-561		
	116	120	mg/L	103		MCAWW 160.2	04/01/04	4092561
	116	124	mg/L	107	3.3	MCAWW 160.2	04/01/04	4092561

Dilution Factor: 1 Analysis Time..: 18:00

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: D4C310153 Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Cyanide		Work Order #: GDKDG1AC	LCS Lot-Sample#: D4D050000-601		
	96	(89 - 109)	MCAWW 335.3	04/05/04	4096601

Dilution Factor: 1 Analysis Time..: 14:00

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: D4C310153 Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Cyanide			Work Order #:	GDKDG1AC	LCS Lot-Sample#:	D4D050000-601	
	0.100	0.0965	mg/L	96	MCAWW 335.3	04/05/04	4096601
			Dilution Factor: 1		Analysis Time..: 14:00		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: D4C310153 Matrix.....: WATER
Date Sampled...: 03/29/04 10:20 Date Received..: 03/30/04

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chemical Oxygen Demand (COD)		WO#: GC6PG1A2-MS/GC6PG1A3-MSD				MS Lot-Sample #: D4C300158-001	
	107	(74 - 109)			MCAWW 410.4	04/08/04	4099309
	110 N	(74 - 109)	2.7	(0-11)	MCAWW 410.4	04/08/04	4099309
		Dilution Factor: 1					
		Analysis Time..: 11:15					
Chloride		WO#: GC8WL1CL-MS/GC8WL1CM-MSD				MS Lot-Sample #: D4C310153-001	
	104	(80 - 120)			MCAWW 300.0A	03/31/04	4092263
	104	(80 - 120)	0.04	(0-10)	MCAWW 300.0A	03/31/04	4092263
		Dilution Factor: 1					
		Analysis Time..: 16:37					
Fluoride		WO#: GC8WL1CJ-MS/GC8WL1CK-MSD				MS Lot-Sample #: D4C310153-001	
	103	(80 - 120)			MCAWW 300.0A	03/31/04	4092264
	103	(80 - 120)	0.0	(0-10)	MCAWW 300.0A	03/31/04	4092264
		Dilution Factor: 1					
		Analysis Time..: 15:50					
Nitrate		WO#: GC8WL1CQ-MS/GC8WL1CR-MSD				MS Lot-Sample #: D4C310153-001	
	102	(80 - 120)			MCAWW 300.0A	03/31/04	4092265
	102	(80 - 120)	0.03	(0-10)	MCAWW 300.0A	03/31/04	4092265
		Dilution Factor: 1					
		Analysis Time..: 15:50					
Nitrite		WO#: GC8WL1CN-MS/GC8WL1CP-MSD				MS Lot-Sample #: D4C310153-001	
	101	(80 - 120)			MCAWW 300.0A	03/31/04	4092266
	101	(80 - 120)	0.03	(0-10)	MCAWW 300.0A	03/31/04	4092266
		Dilution Factor: 1					
		Analysis Time..: 15:50					
Sulfate		WO#: GC8WL1CG-MS/GC8WL1CH-MSD				MS Lot-Sample #: D4C310153-001	
	102	(80 - 120)			MCAWW 300.0A	03/31/04	4092262
	102	(80 - 120)	0.06	(0-10)	MCAWW 300.0A	03/31/04	4092262
		Dilution Factor: 1					
		Analysis Time..: 16:37					
Total Cyanide		WO#: GDAF11AH-MS/GDAF11AJ-MSD				MS Lot-Sample #: D4C310358-001	
	92	(78 - 120)			MCAWW 335.3	04/05/04	4096601
	92	(78 - 120)	0.21	(0-20)	MCAWW 335.3	04/05/04	4096601
		Dilution Factor: 1					
		Analysis Time..: 14:00					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: D4C310153 Matrix.....: WATER
Date Sampled...: 03/29/04 10:20 Date Received..: 03/30/04

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chemical Oxygen Demand (COD)			WO#: GC6PG1A2-MS/GC6PG1A3-MSD				MS Lot-Sample #: D4C300158-001		
	5.9	50.0	59.3	mg/L	107		MCAWW 410.4	04/08/04	4099309
	5.9	50.0	61.0 N	mg/L	110	2.7	MCAWW 410.4	04/08/04	4099309
			Dilution Factor: 1						
			Analysis Time..: 11:15						
Chloride			WO#: GC8WL1CL-MS/GC8WL1CM-MSD				MS Lot-Sample #: D4C310153-001		
	1700	2500	4320	mg/L	104		MCAWW 300.0A	03/31/04	4092263
	1700	2500	4330	mg/L	104	0.04	MCAWW 300.0A	03/31/04	4092263
			Dilution Factor: 1						
			Analysis Time..: 16:37						
Fluoride			WO#: GC8WL1CJ-MS/GC8WL1CK-MSD				MS Lot-Sample #: D4C310153-001		
	0.81	25.0	26.6	mg/L	103		MCAWW 300.0A	03/31/04	4092264
	0.81	25.0	26.6	mg/L	103	0.0	MCAWW 300.0A	03/31/04	4092264
			Dilution Factor: 1						
			Analysis Time..: 15:50						
Nitrate			WO#: GC8WL1CQ-MS/GC8WL1CR-MSD				MS Lot-Sample #: D4C310153-001		
	0.44	25.0	25.9	mg/L	102		MCAWW 300.0A	03/31/04	4092265
	0.44	25.0	25.9	mg/L	102	0.03	MCAWW 300.0A	03/31/04	4092265
			Dilution Factor: 1						
			Analysis Time..: 15:50						
Nitrite			WO#: GC8WL1CN-MS/GC8WL1CP-MSD				MS Lot-Sample #: D4C310153-001		
	1.1	25.0	26.3	mg/L	101		MCAWW 300.0A	03/31/04	4092266
	1.1	25.0	26.2	mg/L	101	0.03	MCAWW 300.0A	03/31/04	4092266
			Dilution Factor: 1						
			Analysis Time..: 15:50						
Sulfate			WO#: GC8WL1CG-MS/GC8WL1CH-MSD				MS Lot-Sample #: D4C310153-001		
	2400	2500	4960	mg/L	102		MCAWW 300.0A	03/31/04	4092262
	2400	2500	4960	mg/L	102	0.06	MCAWW 300.0A	03/31/04	4092262
			Dilution Factor: 1						
			Analysis Time..: 16:37						
Total Cyanide			WO#: GDAF11AH-MS/GDAF11AJ-MSD				MS Lot-Sample #: D4C310358-001		
	ND	0.100	0.0942	mg/L	92		MCAWW 335.3	04/05/04	4096601
	ND	0.100	0.0944	mg/L	92	0.21	MCAWW 335.3	04/05/04	4096601
			Dilution Factor: 1						
			Analysis Time..: 14:00						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: D4C310153 Work Order #...: GC7TQ-SMP Matrix.....: WATER
GC7TQ-DUP
Date Sampled...: 03/29/04 09:30 Date Received..: 03/30/04

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Suspended Solids						SD Lot-Sample #: D4C300292-009		
	42	42	mg/L	0.0	(0-20)	MCAWW 160.2	04/01/04	409256

Dilution Factor: 1.25 Analysis Time..: 18:00

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: D4C310153 Work Order #...: GC46Q-SMP Matrix.....: WATER
GC46Q-DUP
Date Sampled...: 03/28/04 11:40 Date Received..: 03/29/04

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH
Total Dissolved Solids						SD Lot-Sample #: D4C290157-001		
	140	130	mg/L	2.9	(0-20)	MCAWW 160.1	04/02/04	409337

Dilution Factor: 1 Analysis Time..: 12:30

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: D4C310153 Work Order #...: GC8WL-SMP Matrix.....: WATER
GC8WL-DUP

Date Sampled...: 03/29/04 16:35 Date Received..: 03/31/04

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Specific Conductance						SD Lot-Sample #:	D4C310153-001	
	9700	9800	umhos/cm	0.51	(0-7.0)	MCAWW 120.1	04/09/04	4103197

Dilution Factor: 1 Analysis Time..: 16:00

[redacted]

Chain of Custody Record

36
KB 3/31/04

SEVERN TRENT **STL**
Severn Trent Laboratories, Inc.

STL Denver
4955 Yarrow Street
Arvada, CO 80002

STL-4124 (0901)

Client: Cook-Joyce Inc / L.E.S.	Project Manager: Doug Granger (C.J.I)	Date:	Chain of Custody Number: 299654
Address: 812 W. 11th	Telephone Number (Area Code)/Fax Number: 512-474-9097	Lab Number:	Page ____ of ____
City: AUSTIN; State: TX; Zip Code: 78701	Site Contact: Doug Granger	Lab Contact: Gail DeRuzzo	
Project Name and Location (State): Lockwood URENCO	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.: 54609-A			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Na2S2O3	VOA	SVOA	Pest/PCB	OP Pest	Total Metals	Cyanide	COD	Cl/SO4	IC NO3/NO2	TSS/TDS	Sp. Cond	Total Coliform	Fecal Coliform	Special Instructions/ Conditions of Receipt
L.E.S. MW-2	3-29-04	1635		X			8	1	1	3	1		2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
L.E.S MW-2	3-30-04	1246		X									2												✓	✓	
N/A	N	A											N		A												N/A

Sampled by C. Book / J. Abney

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☒ Archive For 3 Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☒ 21 Days ☐ Other ____

QC Requirements (Specify):

	Date	Time		Date	Time
1. Relinquished By: [signature]	3-30-04	1330	1. Received By: [signature]	3/31/04	0930
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments: 96

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

[redacted]

Chain of Custody Record

36
VB 3/31/04

SEVERN TRENT **STL**
Severn Trent Laboratories, Inc.

STL Denver
4955 Yarrow Street
Arvada, CO 80002

STL-4124 (0901)

Client: Cook-Joyce Inc / L.E.S.	Project Manager: Doug Granger (C.J.I)	Date	Chain of Custody Number: 299654
Address: 812 W. 11th	Telephone Number (Area Code)/Fax Number: 512-474-9097	Lab Number	Page ____ of ____
City: AUSTIN; State: TX; Zip Code: 78701	Site Contact: Doug Granger	Lab Contact: Gail DeRizzo	
Project Name and Location (State): Lockwood URENCO	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.: 54609-A			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Na2S2O3	VOA	SVOA	Pest/PCB	OP Pest	Total Metals	Cyanide	COD	Cl/SO4	IC NO3/NO2	TSS/TDS	Sp. Cond	Total Coliform	Fecal Coliform	Special Instructions/ Conditions of Receipt
L.E.S. MW-2	3-29-04	1635		X			8	1	1	3	1		~~2~~	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
L.E.S MW-2	3-30-04	1246		X									2												✓	✓	
	N	N											N														
	A	A													A											N/A	

Sampled by C. Book / J. Abney

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☒ Archive For 3 Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☒ 21 Days ☐ Other ____

QC Requirements (Specify)

1. Relinquished By: [signature]	Date: 3-30-04	Time: 1330	1. Received By: [signature]	Date: 3/31/04	Time: 0930
2. Relinquished By	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

FRAMATOME ANP

Environmental Laboratory Analysis Report

29 Research Drive
Westboro, MA 01581
508-898-9970

Customer Lockwood Greene
Attention Carl Jackson

Report Date 10/30/03
Receipt Date 10/22/03

Lockwood Greene
PO Box 491 (29304)
1500 International Drive
Spartanburg, SC 29303

Lab. Sample No. L6383-01 Client ID LES MWZ Product GAMMA SPECTROMETRY
Reference Date 10/19/03 Analysis Date 10/29/03 Matrix Ground Water

Nuclide	Activity Concentration +/- 1 - Sigma (pCi/L)			TPU 1 Sigma (pCi/L)	Measured MDC (pCi/L)	Required MDC (pCi/L)	Flags
Ag-108m	-1.2E+00	+/-	1.2E+00	1.2E+00	4.6E+00		
Ag-110m	-8E-01	+/-	2.1E+00	2.1E+00	8.4E+00		
Ba-140	2.5E+00	+/-	2.3E+00	2.3E+00	8.3E+00		
Be-7	6E+00	+/-	1.1E+01	1.1E+01	4.1E+01		
Ce-141	3.3E+00	+/-	2.5E+00	2.5E+00	8.2E+00		
Ce-144	-3.3E+00	+/-	8.3E+00	8.3E+00	2.9E+01		
Co-57	1E+00	+/-	1.2E+00	1.2E+00	3.9E+00		
Co-58	-1E-01	+/-	1.4E+00	1.4E+00	5.4E+00		
Co-60	1E-01	+/-	1.4E+00	1.4E+00	5.6E+00		
Cr-51	-3.4E+01	+/-	1.1E+01	1.2E+01	4.9E+01		
Cs-134	6E-01	+/-	1.7E+00	1.7E+00	6.4E+00		
Cs-137	8E-01	+/-	1.1E+00	1.1E+00	4.1E+00		
Fe-59	1.1E+00	+/-	4.1E+00	4.1E+00	1.6E+01		
I-131	1.7E+00	+/-	2.7E+00	2.7E+00	9.5E+00		
K-40	4.4E+01	+/-	2.5E+01	2.5E+01	7.9E+01		
La-140	2.9E+00	+/-	2.7E+00	2.7E+00	9.5E+00		
Mn-54	1E-01	+/-	1.4E+00	1.4E+00	5.3E+00		
Nb-95	-7E-01	+/-	1.7E+00	1.7E+00	6.6E+00		
Ra-228	5.9E+00	+/-	5.2E+00	5.2E+00	1.8E+01	2.0E+01	
Ru-103	-1.2E+00	+/-	1.5E+00	1.5E+00	5.9E+00		
Ru-106	9E+00	+/-	1.3E+01	1.3E+01	4.6E+01		
Sb-124	-5.6E+00	+/-	4.0E+00	4.0E+00	1.9E+01		
Sb-125	-2.7E+00	+/-	3.7E+00	3.7E+00	1.4E+01		
Se-75	-1E-01	+/-	1.5E+00	1.5E+00	5.6E+00		
Zn-65	-1.4E+00	+/-	2.6E+00	2.6E+00	1.1E+01	3.0E+01	
Zr-95	-1.5E+00	+/-	2.6E+00	2.6E+00	1.0E+01	1.5E+01	

Flags: a The measured MDC is greater than the required MDC
b The activity concentration is greater than three times its one sigma counting uncertainty.
c Peak was found

Reporting Level Ratio:

c: Ed Maher

MAILED
OCT 31 2003
FRAMATOME ANP
ENVIRONMENTAL LAB

Approved by
10/31/03
J. M. Raimondi
Sample Control Manager

FRAMATOME ANP

Environmental Laboratory Analysis Report

29 Research Drive
Westboro, MA 01581
508-898-9970

Customer

Lockwood Greene
PO Box 491 (29304)
1500 International Drive
Spartanburg, SC 29303

Attn: Carl Jackson

Product GROSS AB

Report Date 11/06/03
Receipt Date 10/22/03

LSN	Client ID & Description	Reference Date	Analysis Date	Nuclide	Activity Concentration +/- 1-Sigma (pCi/L)	TPU 1 Sigma (pCi/L)	Measured MDC (pCi/L)	Required MDC (pCi/L)	Flags	Reporting Level Ratio
Ground Water										
L6383-01	LES MWZ	10/19/2003	11/05/2003	GROSS ALPHA	1.51E+01 +/- 4.6E+00	4.8E+00	1.4E+01	1.5E+01	b	
L6383-01	LES MWZ	10/19/2003	11/05/2003	GROSS BETA	3.14E+01 +/- 2.8E+00	3.2E+00	8.0E+00	4.0E+00	ab	

Flags:
a The measured MDC is greater than the required MDC.
b The activity concentration is greater than three times its one sigma counting uncertainty.

Approved by

11/06/03

J. M. Raimondi
Sample Control Manager

c: Ed Maher

MAILED
NOV 0 6 2003
FRAMATOME ANP
ENVIRONMENTAL LAB

FRAMATOME ANP

Environmental Laboratory Analysis Report

29 Research Drive
Westboro, MA 01581
508-898-9970

Customer

Lockwood Greene
PO Box 491 (29304)
1500 International Drive
Spartanburg, SC 29303

Attn: Carl Jackson

Product RA-226 (A)

Report Date 11/05/03
Receipt Date 10/22/03

LSN	Client ID & Description	Reference Date	Analysis Date	Nuclide	Activity Concentration +/- 1-Sigma (pCi/L)	TPU 1 Sigma (pCi/L)	Measured MDC (pCi/L)	Required MDC (pCi/L)	Flags	Reporting Level Ratio
Ground Water										
L6383-01	LES MWZ	10/19/2003	11/03/2003	Ra-224	-1.35E+00 +/- 9.6E-01	9.6E-01	1.3E+02			
L6383-01	LES MWZ	10/19/2003	11/03/2003	Ra-226	6.5E+00 +/- 3.8E+00	3.8E+00	6.8E+00	2.0E+01		

Flags:
a The measured MDC is greater than the required MDC.
b The activity concentration is greater than three times its one sigma counting uncertainty.

Approved by
11/05/03
J. M. Raimondi
Sample Control Manager

c: Ed Maher

MAILED
NOV 0 5 2003
FRAMATOME ANP
ENVIRONMENTAL LAB

FRAMATOME ANP

Environmental Laboratory Analysis Report

29 Research Drive
Westboro, MA 01581
508-898-9970

Customer

Lockwood Greene
PO Box 491 (29304)
1500 International Drive
Spartanburg, SC 29303

Attn: Carl Jackson

Product U-234, U-235, U-238

Report Date 11/05/03
Receipt Date 10/22/03

LSN	Client ID & Description	Reference Date	Analysis Date	Nuclide	Activity Concentration +/- 1-Sigma (pCi/L)	TPU 1 Sigma (pCi/L)	Measured MDC (pCi/L)	Required MDC (pCi/L)	Flags	Reporting Level Ratio
Ground Water										
L6383-01	LES MWZ	10/19/2003	11/04/2003	U-234	4.75E+00 +/- 4.5E-01	4.9E-01	1.8E-01	5.0E+00	b	
L6383-01	LES MWZ	10/19/2003	11/04/2003	U-235	1.58E-01 +/- 9.1E-02	9.2E-02	1.4E-01	5.0E+00		
L6383-01	LES MWZ	10/19/2003	11/04/2003	U-238	1.06E+00 +/- 2.1E-01	2.2E-01	2.1E-01	5.0E+00	b	

Flags:
a The measured MDC is greater than the required MDC.
b The activity concentration is greater than three times its one sigma counting uncertainty.

Approved by
11/05/03
J. M. Raimondi
Sample Control Manager

c: Ed Maher

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FRAMATOME ANP
ENVIRONMENTAL LAB

FRAMATOME ANP

Environmental Laboratory Analysis Report

29 Research Drive
Westboro, MA 01581
508-898-9970

Customer Lockwood Greene
Attention Carl Jackson

Report Date 11/26/03
Receipt Date 11/14/03

Lockwood Greene
PO Box 491 (29304)
1500 International Drive
Spartanburg, SC 29303

Lab. Sample No. L6506-01 Client ID LES MWZ Product GAMMA SPECTROMETRY
Reference Date 11/12/03 Analysis Date 11/25/03 Matrix Ground Water

Nuclide	Activity Concentration +/- 1 - Sigma (pCi/L)			TPU 1 Sigma (pCi/L)	Measured MDC (pCi/L)	Required MDC (pCi/L)	Flags
Ag-108m	-4.4E-01	+/-	8.5E-01	8.5E-01	3.2E+00		
Ag-110m	-1.4E+00	+/-	1.3E+00	1.3E+00	5.2E+00		
Ba-140	-1.3E+00	+/-	1.8E+00	1.8E+00	7.7E+00		
Be-7	-1.93E+01	+/-	9.2E+00	9.2E+00	3.7E+01		
Ce-141	1.5E+00	+/-	2.8E+00	2.8E+00	9.5E+00		
Ce-144	5.2E+00	+/-	7.2E+00	7.2E+00	2.4E+01		
Co-57	2.3E-01	+/-	9.2E-01	9.2E-01	3.2E+00		
Co-58	-2.6E+00	+/-	1.1E+00	1.1E+00	4.8E+00		
Co-60	-1.1E+00	+/-	1.1E+00	1.1E+00	4.6E+00		
Cr-51	-1.8E+01	+/-	1.1E+01	1.1E+01	4.2E+01		
Cs-134	0E+00	+/-	1.1E+00	1.1E+00	4.2E+00		
Cs-137	8E-01	+/-	1.0E+00	1.0E+00	3.6E+00		
Fe-59	-1.1E+00	+/-	2.4E+00	2.4E+00	1.0E+01		
I-131	3.6E+00	+/-	2.8E+00	2.8E+00	9.4E+00		
K-40	-2E+00	+/-	1.5E+01	1.5E+01	5.5E+01		
La-140	-1.5E+00	+/-	2.1E+00	2.1E+00	8.8E+00		
Mn-54	0E+00	+/-	1.0E+00	1.0E+00	3.8E+00		
Nb-95	-2E-01	+/-	1.2E+00	1.2E+00	4.6E+00		
Ru-103	-1.8E+00	+/-	1.3E+00	1.3E+00	5.0E+00		
Ru-106	-2.3E+01	+/-	1.1E+01	1.1E+01	4.3E+01		
Sb-124	-1.2E+00	+/-	2.5E+00	2.5E+00	1.0E+01		
Sb-125	-2.4E+00	+/-	3.2E+00	3.2E+00	1.2E+01		
Se-75	1E-01	+/-	1.5E+00	1.5E+00	5.2E+00		
Zn-65	-1.4E+00	+/-	2.6E+00	2.6E+00	1.0E+01	3.0E+01	
Zr-95	0E+00	+/-	2.0E+00	2.0E+00	7.3E+00	1.5E+01	

Flags: a The measured MDC is greater than the required MDC
b The activity concentration is greater than three times its one sigma counting uncertainty.
c Peak was found

Reporting Level Ratio:

c: Ed Maher

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DEC 03 2003

Approved by
12/02/03
J. M. Raimondi
Sample Control Manager

FRAMATOME ANP

Environmental Laboratory Analysis Report

29 Research Drive
Westboro, MA 01581
508-898-9970

Customer
Lockwood Greene
PO Box 491 (29304)
1500 International Drive
Spartanburg, SC 29303
Attn: Carl Jackson

Product RA-226 (A)

Report Date 12/23/03
Receipt Date 11/14/03

LSN	Client ID & Description	Reference Date	Analysis Date	Nuclide	Activity Concentration +/- 1-Sigma (pCi/L)	TPU 1 Sigma (pCi/L)	Measured MDC (pCi/L)	Required MDC (pCi/L)	Flags	Reporting Level Ratio
Ground Water										
L6506-01	LES MWZ	11/12/2003	12/23/2003	Ra-226	1.29E+00 +/- 2.7E-01	2.8E-01	1.6E-01	2.0E+01	b	

Flags:
a The measured MDC is greater than the required MDC.
b The activity concentration is greater than three times its one sigma counting uncertainty.

Approved by
12/23/03
J. M. Raimondi
Sample Control Manager

c: Ed Maher

DEC 29 2003

FRAMATOME ANP

Environmental Laboratory Analysis Report

29 Research Drive
Westboro, MA 01581
508-898-9970

Customer
Lockwood Greene
PO Box 491 (29304)
1500 International Drive
Spartanburg, SC 29303
Attn: Carl Jackson

Product U-234, U-235, U-238

Report Date 12/23/03
Receipt Date 11/14/03

LSN	Client ID & Description	Reference Date	Analysis Date	Nuclide	Activity Concentration +/- 1-Sigma (pCi/L)	TPU 1 Sigma (pCi/L)	Measured MDC (pCi/L)	Required MDC (pCi/L)	Flags	Reporting Level Ratio
Ground Water										
L6506-01	LES MWZ	11/12/2003	12/23/2003	U-234	4.43E+00 +/- 2.5E-01	4.3E-01	5.9E-02	5.0E+00	b	
L6506-01	LES MWZ	11/12/2003	12/23/2003	U-235	8.5E-02 +/- 4.0E-02	4.0E-02	7.3E-02	5.0E+00		
L6506-01	LES MWZ	11/12/2003	12/23/2003	U-238	1.2E+00 +/- 1.3E-01	1.6E-01	6.3E-02	5.0E+00	b	

Flags:
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b The activity concentration is greater than three times its one sigma counting uncertainty.

Approved by
12/23/03
J. M. Raimondi
Sample Control Manager

c: Ed Maher

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Environmental Laboratory Analysis Report

29 Research Drive
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Lockwood Greene
PO Box 491 (29304)
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Spartanburg, SC 29303
Attn: Carl Jackson

Product GROSS AB

Report Date 12/18/03
Receipt Date 11/14/03

LSN	Client ID & Description	Reference Date	Analysis Date	Nuclide	Activity Concentration +/- 1-Sigma (pCi/L)	TPU 1 Sigma (pCi/L)	Measured MDC (pCi/L)	Required MDC (pCi/L)	Flags	Reporting Level Ratio
Ground Water										
L6506-01	LES MWZ	11/12/2003	12/15/2003	GROSS ALPHA	9.7E+00 +/- 4.6E+00	4.7E+00	1.5E+01	1.5E+01		
L6506-01	LES MWZ	11/12/2003	12/15/2003	GROSS BETA	3.35E+01 +/- 2.6E+00	3.1E+00	7.6E+00	4.0E+00	ab	

Flags:
a The measured MDC is greater than the required MDC.
b The activity concentration is greater than three times its one sigma counting uncertainty.

Approved by
12/18/03
J. M. Raimondi
Sample Control Manager

c: Ed Maher

DEC 19 2003

AREVA

Environmental Laboratory Analysis Report

29 Research Drive
Westboro, MA 01581
508-898-9970

Customer Lockwood Greene
Attention Carl Jackson

Report Date 04/27/04
Receipt Date 03/31/04

Lockwood Greene
1500 International Drive

Spartanburg, SC 29304

Lab. Sample No. L7134-01 Client ID LES MWZ Product GAMMA SPECTROMETRY
Reference Date 03/29/04 Analysis Date 04/27/04 Matrix Ground Water

Nuclide	Activity Concentration +/- 1 - Sigma (pCi/L)			TPU 1 Sigma (pCi/L)	Measured MDC (pCi/L)	Required MDC (pCi/L)	Flags
Ag-108m	0E+00	+/-	9.2E-01	9.2E-01	3.3E+00		
Ag-110m	0E+00	+/-	1.4E+00	1.4E+00	5.2E+00		
Ba-140	9E-01	+/-	4.7E+00	4.7E+00	1.8E+01		
Be-7	-3E+01	+/-	1.4E+01	1.4E+01	5.3E+01		
Ce-141	-2.5E+00	+/-	3.3E+00	3.3E+00	1.2E+01		
Ce-144	6.7E+00	+/-	7.7E+00	7.7E+00	2.6E+01		
Co-57	1.6E+00	+/-	1.0E+00	1.0E+00	3.3E+00		
Co-58	-1.1E+00	+/-	1.3E+00	1.3E+00	4.9E+00		
Co-60	5E-01	+/-	1.0E+00	1.0E+00	3.8E+00		
Cr-51	-1.2E+01	+/-	1.9E+01	1.9E+01	6.7E+01		
Cs-134	-9E-01	+/-	1.1E+00	1.1E+00	4.2E+00		
Cs-137	-8E-01	+/-	1.1E+00	1.1E+00	4.3E+00		
Fe-59	-5E-01	+/-	3.9E+00	3.9E+00	1.5E+01		
I-131	0E+00	+/-	1.3E+01	1.3E+01	4.4E+01		
K-40	3.8E+01	+/-	1.7E+01	1.7E+01	5.2E+01		c
La-140	1.1E+00	+/-	5.5E+00	5.5E+00	2.1E+01		
Mn-54	-3E-01	+/-	1.1E+00	1.1E+00	4.1E+00		
Nb-95	6.1E+00	+/-	2.6E+00	2.7E+00	8.4E+00		
Ra-228	2.6E+00	+/-	4.1E+00	4.1E+00	1.4E+01	2.0E+01	
Ru-103	-1.6E+00	+/-	1.9E+00	1.9E+00	7.1E+00		
Ru-106	-2E+00	+/-	1.0E+01	1.0E+01	3.7E+01		
Sb-124	5.2E+00	+/-	3.2E+00	3.2E+00	1.0E+01		
Sb-125	3.7E+00	+/-	2.7E+00	2.7E+00	9.0E+00		
Se-75	1.8E+00	+/-	1.8E+00	1.8E+00	6.0E+00		
Zn-65	-2.1E+00	+/-	5.2E+00	5.2E+00	1.8E+01	3.0E+01	
Zr-95	-2.3E+00	+/-	2.3E+00	2.3E+00	8.8E+00	1.5E+01	

Flags: a The measured MDC is greater than the required MDC
b The activity concentration is greater than three times its one sigma counting uncertainty.
c Peak was found

Reporting Level Ratio:

c: George Harper

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APR 2 8 2004
FRAMATOME ANP
ENVIRONMENTAL LAB

Approved by
4/28/04
J. M.Raimondi
Laboratory Manager

AREVA

Environmental Laboratory Analysis Report

29 Research Drive
Westboro, MA 01581
508-898-9970

Customer
Lockwood Greene
1500 International Drive
Spartanburg, SC 29304
Attn: Carl Jackson

Product GROSS AB

Report Date 04/28/04
Receipt Date 03/31/04

LSN	Client ID & Description	Reference Date	Analysis Date	Nuclide	Activity Concentration +/- 1-Sigma (pCi/L)	TPU 1 Sigma (pCi/L)	Measured MDC (pCi/L)	Required MDC (pCi/L)	Flags	Reporting Level Ratio
Ground Water										
L7134-01	LES MWZ	03/29/2004	04/27/2004	GROSS ALPHA	2.71E+01 +/- 5.9E+00	6.3E+00	1.5E+01	1.5E+01	b	
L7134-01	LES MWZ	03/29/2004	04/27/2004	GROSS BETA	3.75E+01 +/- 3.9E+00	4.4E+00	1.1E+01	4.0E+00	ab	

Flags:
a The measured MDC is greater than the required MDC.
b The activity concentration is greater than three times its one sigma counting uncertainty.

Approved by
J. M. Raimondi 4/28/04
J. M. Raimondi
Laboratory Manager

c: George Harper

MAILED
APR 28 2004
FRAMATOME ANP
ENVIRONMENTAL LAB

AREVA

Environmental Laboratory Analysis Report

29 Research Drive
Westboro, MA 01581
508-898-9970

Customer
Lockwood Greene
1500 International Drive
Spartanburg, SC 29304
Attn: Carl Jackson

Product RA-226 (A)

Report Date 05/03/04
Receipt Date 03/31/04

LSN	Client ID & Description	Reference Date	Analysis Date	Nuclide	Activity Concentration +/- 1-Sigma (pCi/L)	TPU 1 Sigma (pCi/L)	Measured MDC (pCi/L)	Required MDC (pCi/L)	Flags	Reporting Level Ratio
Ground Water										
L7134-01	LES MWZ	03/29/2004	04/30/2004	Ra-226	1.21E+00 +/- 1.1E-01	1.5E-01	6.7E-02	2.0E+01	b	

Flags:
a The measured MDC is greater than the required MDC.
b The activity concentration is greater than three times its one sigma counting uncertainty.

Approved by
5/03/04
J. M. Raimondi
Laboratory Manager

c: George Harper

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FRAMATOME ANP
ENVIRONMENTAL LAB

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Environmental Laboratory Analysis Report

29 Research Drive
Westboro, MA 01581
508-898-9970

Customer
Lockwood Greene
PO Box 491 (29304)
1500 International Drive
Spartanburg, SC 29304
Attn: Carl Jackson

Product U-234, U-235, U-238

Report Date 04/27/04
Receipt Date 03/31/04

LSN	Client ID & Description	Reference Date	Analysis Date	Nuclide	Activity Concentration +/- 1-Sigma (pCi/L)	TPU 1 Sigma (pCi/L)	Measured MDC (pCi/L)	Required MDC (pCi/L)	Flags	Reporting Level Ratio
Ground Water										
L7134-01	LES MWZ	03/29/2004	04/21/2004	U-234	6.401E+00 +/- 5.0E-02	2.2E-01	4.1E-03	5.0E+00	b	
L7134-01	LES MWZ	03/29/2004	04/21/2004	U-235	1.312E-01 +/- 8.0E-03	9.1E-03	5.1E-03	5.0E+00	b	
L7134-01	LES MWZ	03/29/2004	04/21/2004	U-238	2.637E+00 +/- 3.2E-02	9.5E-02	4.1E-03	5.0E+00	b	

Flags:
a The measured MDC is greater than the required MDC.
b The activity concentration is greater than three times its one sigma counting uncertainty.

Approved by
4/27/04
J. M. Raimondi
Laboratory Manager

c: George Harper

MAILED
APR 27 2004
FRAMATOME ANP
ENVIRONMENTAL LAB

FRAMATOME ANP

Environmental Laboratory Analysis Report

29 Research Drive
Westboro, MA 01581
508-898-9970

Customer
Lockwood Greene

Product U-234, U-235, U-238

Report Date 11/05/03
Receipt Date 09/23/03

Attn: Ed Maher

LSN	Client ID & Description	Reference Date	Analysis Date	Nuclide	Activity Concentration +/- 1-Sigma (pCi/kg)	TPU 1 Sigma (pCi/kg)	Measured MDC (pCi/kg)	Required MDC (pCi/kg)	Flags	Reporting Level Ratio
Soil										
L6268-01	SOIL#1	09/17/2003	10/31/2003	U-234	2.1E+02 +/- 3.9E+01	4.1E+01	2.8E+01	1.0E+03	b	
L6268-01	SOIL#1	09/17/2003	10/31/2003	U-235	3.5E+01 +/- 1.8E+01	1.8E+01	3.4E+01	1.0E+03		
L6268-01	SOIL#1	09/17/2003	10/31/2003	U-238	2.47E+02 +/- 4.2E+01	4.5E+01	2.5E+01	1.0E+03	b	
L6268-02	SOIL#2	09/17/2003	10/31/2003	U-234	2.42E+02 +/- 3.8E+01	4.1E+01	2.3E+01	1.0E+03	b	
L6268-02	SOIL#2	09/17/2003	10/31/2003	U-235	3E+01 +/- 1.5E+01	1.5E+01	2.0E+01	1.0E+03		
L6268-02	SOIL#2	09/17/2003	10/31/2003	U-238	1.92E+02 +/- 3.4E+01	3.6E+01	2.9E+01	1.0E+03	b	
L6268-03	SOIL#3	09/17/2003	10/31/2003	U-234	1.8E+02 +/- 3.3E+01	3.5E+01	2.2E+01	1.0E+03	b	
L6268-03	SOIL#3	09/17/2003	10/31/2003	U-235	3.8E+01 +/- 1.7E+01	1.7E+01	2.7E+01	1.0E+03		
L6268-03	SOIL#3	09/17/2003	10/31/2003	U-238	2.11E+02 +/- 3.6E+01	3.8E+01	2.4E+01	1.0E+03	b	
L6268-04	SOIL#4	09/17/2003	10/31/2003	U-234	1.82E+02 +/- 3.7E+01	3.9E+01	3.7E+01	1.0E+03	b	
L6268-04	SOIL#4	09/17/2003	10/31/2003	U-235	4.5E+01 +/- 2.0E+01	2.1E+01	3.5E+01	1.0E+03		
L6268-04	SOIL#4	09/17/2003	10/31/2003	U-238	1.84E+02 +/- 3.7E+01	3.9E+01	3.1E+01	1.0E+03	b	
L6268-05	SOIL#5	09/17/2003	10/31/2003	U-234	1.56E+02 +/- 3.1E+01	3.3E+01	2.7E+01	1.0E+03	b	
L6268-05	SOIL#5	09/17/2003	10/31/2003	U-235	2.2E+01 +/- 1.3E+01	1.3E+01	2.9E+01	1.0E+03		
L6268-05	SOIL#5	09/17/2003	10/31/2003	U-238	1.56E+02 +/- 3.1E+01	3.3E+01	2.8E+01	1.0E+03	b	

Flags:
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b The activity concentration is greater than three times its one sigma counting uncertainty.

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NOV 0 6 2003
FRAMATOME ANP
ENVIRONMENTAL LAB

Approved by
11/05/03
J. M. Raimondi
Sample Control Manager

c:

FRAMATOME ANP

Environmental Laboratory Analysis Report

29 Research Drive
Westboro, MA 01581
508-898-9970

Customer
Lockwood Greene

Product U-234, U-235, U-238

Report Date 11/05/03
Receipt Date 09/23/03

Attn: Ed Maher

LSN	Client ID & Description	Reference Date	Analysis Date	Nuclide	Activity Concentration +/- 1-Sigma (pCi/kg)	TPU 1 Sigma (pCi/kg)	Measured MDC (pCi/kg)	Required MDC (pCi/kg)	Flags	Reporting Level Ratio
Soil										
L6268-06	SOIL#6	09/17/2003	10/31/2003	U-234	1.79E+02 +/- 3.5E+01	3.7E+01	1.9E+01	1.0E+03	b	
L6268-06	SOIL#6	09/17/2003	10/31/2003	U-235	1.7E+01 +/- 1.2E+01	1.2E+01	2.3E+01	1.0E+03		
L6268-06	SOIL#6	09/17/2003	10/31/2003	U-238	1.44E+02 +/- 3.2E+01	3.3E+01	2.4E+01	1.0E+03	b	
L6268-07	SOIL#7	09/17/2003	10/31/2003	U-234	2.69E+02 +/- 4.6E+01	4.8E+01	2.7E+01	1.0E+03	b	
L6268-07	SOIL#7	09/17/2003	10/31/2003	U-235	1.9E+01 +/- 1.3E+01	1.3E+01	2.6E+01	1.0E+03		
L6268-07	SOIL#7	09/17/2003	10/31/2003	U-238	2.44E+02 +/- 4.4E+01	4.6E+01	3.3E+01	1.0E+03	b	
L6268-08	SOIL#8	09/17/2003	10/31/2003	U-234	1.84E+02 +/- 3.6E+01	3.7E+01	3.0E+01	1.0E+03	b	
L6268-08	SOIL#8	09/17/2003	10/31/2003	U-235	8E+00 +/- 8.5E+00	8.5E+00	3.0E+01	1.0E+03		
L6268-08	SOIL#8	09/17/2003	10/31/2003	U-238	2.4E+02 +/- 4.1E+01	4.3E+01	2.8E+01	1.0E+03	b	
L6268-09	SOIL#9	09/17/2003	10/31/2003	U-234	1.86E+02 +/- 3.8E+01	4.0E+01	2.7E+01	1.0E+03	b	
L6268-09	SOIL#9	09/17/2003	10/31/2003	U-235	2.7E+01 +/- 1.7E+01	1.7E+01	4.1E-01	1.0E+03		
L6268-09	SOIL#9	09/17/2003	10/31/2003	U-238	2.1E+02 +/- 4.0E+01	4.2E+01	2.7E+01	1.0E+03	b	
L6268-10	SOIL#10	09/17/2003	10/31/2003	U-234	1.69E+02 +/- 3.7E+01	3.8E+01	2.8E+01	1.0E+03	b	
L6268-10	SOIL#10	09/17/2003	10/31/2003	U-235	9E+00 +/- 1.0E+01	1.0E+01	3.5E+01	1.0E+03		
L6268-10	SOIL#10	09/17/2003	10/31/2003	U-238	2.18E+02 +/- 4.2E+01	4.4E+01	2.2E+01	1.0E-03	b	

Flags:
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b The activity concentration is greater than three times its one sigma counting uncertainty.

MAILED
NOV 0 6 2003
FRAMATOME ANP
ENVIRONMENTAL LAB

Approved by
11/05/03
J. M. Raimondi
Sample Control Manager

c:

FRAMATOME ANP

Environmental Laboratory Analysis Report

29 Research Drive
Westboro, MA 01581
508-898-9970

Customer Lockwood Greene
Attention Ed Maher

Report Date 11/05/03
Receipt Date 09/23/03

Lockwood Greene

Lab. Sample No. L6268-01 Client ID SOIL#1 Product GAMMA SPECTROMETRY
Reference Date 09/17/03 Analysis Date 10/22/03 Matrix Soil

Nuclide	Activity Concentration +/- 1 - Sigma (pCi/kg)			TPU 1 Sigma (pCi/kg)	Measured MDC (pCi/kg)	Required MDC (pCi/kg)	Flags
AcTh-228	1.69E+02	+/-	1.6E+01	1.8E+01	5.3E+01		bc
Ag-108m	3E+00	+/-	3.2E+00	3.2E+00	1.1E+01		
Ag-110m	-5.2E+00	+/-	5.1E+00	5.1E+00	2.0E+01		
Am-241	-1.9E+01	+/-	2.2E+01	2.2E+01	7.5E+01		
Ba-140	-5.7E+01	+/-	7.2E+01	7.2E+01	2.7E+02		
Be-7	3.9E+01	+/-	4.0E+01	4.0E+01	1.4E+02		
Ce-141	4E+00	+/-	1.2E+01	1.2E+01	4.1E+01		
Ce-144	1.1E+01	+/-	3.0E+01	3.0E+01	1.0E+02		
Co-57	8E-01	+/-	3.6E+00	3.6E+00	1.2E+01		
Co-58	-4E+00	+/-	4.5E+00	4.5E+00	1.7E+01		
Co-60	-1.8E+00	+/-	3.4E+00	3.4E+00	1.3E+01	1.5E+02	
Cr-51	-1.9E+01	+/-	7.2E+01	7.2E+01	2.5E+02		
Cs-134	7E+00	+/-	1.5E+01	1.5E+01	4.9E+01	1.5E+02	
Cs-137	3.02E+01	+/-	5.2E+00	5.4E+00	1.4E+01	1.5E+02	bc
Fe-59	-9E+00	+/-	1.3E+01	1.3E+01	4.9E+01		
I-131	4.6E+01	+/-	7.5E+01	7.6E+01	2.6E+02		
K-40	3.99E+03	+/-	1.6E+02	2.5E+02	1.3E+02		bc
La-140	5.8E+01	+/-	4.4E+01	4.4E+01	1.5E+02		
Mn-54	4E+00	+/-	3.9E+00	3.9E+00	1.3E+01		
Nb-95	4E+00	+/-	1.0E+01	1.0E+01	3.6E+01		
Ru-103	4.2E+00	+/-	5.1E+00	5.1E+00	1.8E+01		
Ru-106	7E+00	+/-	3.5E+01	3.5E+01	1.2E+02		
Sb-124	7.2E+00	+/-	8.8E+00	8.8E+00	3.2E+01		
Sb-125	0E+00	+/-	1.0E+01	1.0E+01	3.7E+01		
Se-75	4E-01	+/-	5.4E+00	5.4E+00	1.9E+01		
Zn-65	-2.1E+01	+/-	1.7E+01	1.7E+01	6.1E+01		
Zr-95	-1.9E+01	+/-	1.4E+01	1.4E+01	5.6E+01		

Flags: a The measured MDC is greater than the required MDC
b The activity concentration is greater than three times its one sigma counting uncertainty.
c Peak was found

Reporting Level Ratio:

c:

Approved by
11/05/03
J. M. Raimondi
Sample Control Manager

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Environmental Laboratory Analysis Report

29 Research Drive
Westboro, MA 01581
508-898-9970

Lockwood Greene

Customer Lockwood Greene
Attention Ed Maher

Report Date 11/05/03
Receipt Date 09/23/03

Lab. Sample No. L6268-02 Client ID SOIL#2 Product GAMMA SPECTROMETRY
Reference Date 09/17/03 Analysis Date 10/22/03 Matrix Soil

Nuclide	Activity Concentration +/- 1 - Sigma (pCi/kg)			TPU 1 Sigma (pCi/kg)	Measured MDC (pCi/kg)	Required MDC (pCi/kg)	Flags
AcTh-228	2.01E+02	+/-	2.1E+01	2.3E+01	7.1E+01		bc
Ag-108m	4.3E+00	+/-	4.1E+00	4.1E+00	1.4E+01		
Ag-110m	8.8E+00	+/-	8.0E+00	8.0E+00	2.7E+01		
Am-241	2E+01	+/-	2.4E+01	2.4E+01	7.9E+01		
Ba-140	1E+01	+/-	1.1E+02	1.1E+02	3.8E+02		
Be-7	-7.6E+01	+/-	5.4E+01	5.4E+01	2.0E+02		
Ce-141	-2E+00	+/-	1.5E+01	1.5E+01	5.2E+01		
Ce-144	1.5E+01	+/-	3.4E+01	3.4E+01	1.2E+02		
Co-57	2.5E+00	+/-	4.2E+00	4.2E+00	1.4E+01		
Co-58	-7.3E+00	+/-	6.0E+00	6.0E+00	2.3E+01		
Co-60	6E-01	+/-	5.3E+00	5.3E+00	1.9E+01	1.5E+02	
Cr-51	-8.5E+01	+/-	9.2E+01	9.2E+01	3.2E+02		
Cs-134	-1E+01	+/-	2.6E+01	2.6E+01	8.8E+01	1.5E+02	
Cs-137	1.33E+01	+/-	6.8E+00	6.8E+00	2.2E+01	1.5E+02	c
Fe-59	1.1E+01	+/-	1.4E+01	1.4E+01	5.0E+01		
I-131	1.8E+01	+/-	8.8E+01	8.8E+01	3.0E+02		
K-40	3.5E+03	+/-	1.6E+02	2.4E+02	2.1E+02		bc
La-140	3.5E+01	+/-	5.3E+01	5.3E+01	1.8E+02		
Mn-54	1.5E+00	+/-	6.1E+00	6.1E+00	2.1E+01		
Nb-95	-2.4E+01	+/-	1.5E+01	1.6E+01	5.5E+01		
Ru-103	1.15E+01	+/-	6.6E+00	6.7E+00	2.2E+01		
Ru-106	-5E+01	+/-	4.6E+01	4.6E+01	1.7E+02		
Sb-124	0E+00	+/-	1.1E+01	1.1E+01	4.3E+01		
Sb-125	1E+00	+/-	1.3E+01	1.3E+01	4.4E+01		
Se-75	1.31E+01	+/-	7.4E+00	7.4E+00	2.4E+01		
Zn-65	3.7E+01	+/-	3.1E+01	3.1E+01	1.0E+02		
Zr-95	0E+00	+/-	2.0E+02	2.0E+02	6.5E+02		

Flags: a The measured MDC is greater than the required MDC
b The activity concentration is greater than three times its one sigma counting uncertainty.
c Peak was found

Reporting Level Ratio:

c:

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11/05/03
J. M. Raimondi
Sample Control Manager

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Environmental Laboratory Analysis Report

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508-898-9970

Customer Lockwood Greene
Attention Ed Maher

Report Date 11/05/03
Receipt Date 09/23/03

Lockwood Greene

Lab. Sample No. L6268-03 Client ID SOIL#3 Product GAMMA SPECTROMETRY
Reference Date 09/17/03 Analysis Date 10/22/03 Matrix Soil

Nuclide	Activity Concentration +/- 1 - Sigma (pCi/kg)			TPU 1 Sigma (pCi/kg)	Measured MDC (pCi/kg)	Required MDC (pCi/kg)	Flags
AcTh-228	1.78E+02	+/-	2.1E+01	2.3E+01	7.5E+01		bc
Ag-108m	2.2E+00	+/-	3.6E+00	3.6E+00	1.3E+01		
Ag-110m	3.8E+00	+/-	6.1E+00	6.1E+00	2.2E+01		
Am-241	2.2E+01	+/-	1.6E+01	1.6E+01	5.1E+01		
Ba-140	9.4E+01	+/-	9.4E+01	9.4E+01	3.2E+02		
Be-7	-2.7E+01	+/-	5.0E+01	5.0E+01	1.8E+02		
Ce-141	2.6E+01	+/-	1.3E+01	1.3E+01	4.3E+01		
Ce-144	2E+01	+/-	2.7E+01	2.7E+01	9.1E+01		
Co-57	2.4E+00	+/-	3.3E+00	3.3E+00	1.1E+01		
Co-58	5.8E+00	+/-	5.5E+00	5.5E+00	1.9E+01		
Co-60	-3.6E+00	+/-	5.3E+00	5.3E+00	2.1E+01	1.5E+02	
Cr-51	4.8E+01	+/-	7.3E+01	7.3E+01	2.5E+02		
Cs-134	-1.3E+01	+/-	2.2E+01	2.2E+01	7.4E+01	1.5E+02	
Cs-137	5.01E+01	+/-	8.9E+00	9.2E+00	2.5E+01	1.5E+02	bc
Fe-59	-1.1E+01	+/-	1.5E+01	1.5E+01	5.8E+01		
I-131	-1.47E+02	+/-	7.4E+01	7.4E+01	2.8E+02		
K-40	4.22E+03	+/-	2.0E+02	2.9E+02	1.8E+02		bc
La-140	-2.1E+01	+/-	4.8E+01	4.8E+01	1.8E+02		
Mn-54	-2.2E+00	+/-	5.5E+00	5.5E+00	2.0E+01		
Nb-95	8.5E+00	+/-	6.9E+00	6.9E+00	2.3E+01		
Ru-103	1.5E+00	+/-	7.4E+00	7.4E+00	2.6E+01		
Ru-106	4.8E+01	+/-	3.3E+01	3.4E+01	1.1E+02		
Sb-124	0E+00	+/-	1.1E+01	1.1E+01	4.6E+01		
Sb-125	-2E+00	+/-	1.1E+01	1.1E+01	3.9E+01		
Se-75	-8E-01	+/-	5.9E+00	5.9E+00	2.1E+01		
Zn-65	-4.1E+01	+/-	2.6E+01	2.6E+01	9.5E+01		
Zr-95	9E+00	+/-	2.2E+01	2.2E+01	7.5E+01		

Flags: a The measured MDC is greater than the required MDC
b The activity concentration is greater than three times its one sigma counting uncertainty.
c Peak was found

Reporting Level Ratio:

c:

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Approved by
11/05/03
J. M. Raimondi
Sample Control Manager

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Environmental Laboratory Analysis Report

29 Research Drive
Westboro, MA 01581
508-898-9970

Lockwood Greene

Customer Lockwood Greene
Attention Ed Maher

Report Date 11/05/03
Receipt Date 09/23/03

Lab. Sample No. L6268-04 Client ID SOIL#4 Product GAMMA SPECTROMETRY
Reference Date 09/17/03 Analysis Date 10/22/03 Matrix Soil

Nuclide	Activity Concentration +/- 1 - Sigma (pCi/kg)			TPU 1 Sigma (pCi/kg)	Measured MDC (pCi/kg)	Required MDC (pCi/kg)	Flags
AcTh-228	2E+02	+/-	2.2E+01	2.4E+01	7.2E+01		bc
Ag-108m	-5.8E+00	+/-	3.4E+00	3.5E+00	1.3E+01		
Ag-110m	6.4E+00	+/-	6.0E+00	6.0E+00	2.0E+01		
Am-241	-7E+00	+/-	1.9E+01	1.9E+01	6.5E+01		
Ba-140	8.4E+01	+/-	9.1E+01	9.1E+01	3.1E+02		
Be-7	-6.4E+01	+/-	5.0E+01	5.0E+01	1.9E+02		
Ce-141	-1.1E+01	+/-	1.3E+01	1.3E+01	4.4E+01		
Ce-144	8.6E+01	+/-	3.1E+01	3.2E+01	1.0E+02		
Co-57	1.1E+00	+/-	3.7E+00	3.7E+00	1.2E+01		
Co-58	1.4E+00	+/-	5.6E+00	5.6E+00	2.0E+01		
Co-60	2.7E+00	+/-	5.4E+00	5.4E+00	1.9E+01	1.5E+02	
Cr-51	-7.4E+01	+/-	8.2E+01	8.2E+01	2.9E+02		
Cs-134	1.8E+01	+/-	2.0E+01	2.0E+01	6.7E+01	1.5E+02	
Cs-137	4.87E+01	+/-	7.9E+00	8.2E+00	2.1E+01	1.5E+02	bc
Fe-59	-2E+01	+/-	1.6E+01	1.6E+01	6.2E+01		
I-131	-2.8E+01	+/-	7.5E+01	7.5E+01	2.7E+02		
K-40	3.97E+03	+/-	1.9E+02	2.8E+02	1.9E+02		bc
La-140	-6.3E+01	+/-	4.8E+01	4.8E+01	1.8E+02		
Mn-54	3.6E+00	+/-	4.1E+00	4.1E+00	1.4E+01		
Nb-95	3.1E+00	+/-	7.8E+00	7.8E+00	2.8E+01		
Ru-103	8E-01	+/-	6.8E+00	6.8E+00	2.4E+01		
Ru-106	-3.3E+01	+/-	4.1E+01	4.1E+01	1.5E+02		
Sb-124	9.6E+00	+/-	8.5E+00	8.5E+00	3.0E+01		
Sb-125	1E+00	+/-	1.1E+01	1.1E+01	4.0E+01		
Se-75	7.1E+00	+/-	5.8E+00	5.8E+00	1.9E+01		
Zn-65	5E+00	+/-	2.7E+01	2.7E+01	9.3E+01		
Zr-95	6E+00	+/-	2.3E+01	2.3E+01	7.9E+01		

Flags: a The measured MDC is greater than the required MDC
b The activity concentration is greater than three times its one sigma counting uncertainty.
c Peak was found

Reporting Level Ratio:

c:

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Approved by
11/05/03
J. M. Raimondi
Sample Control Manager

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Environmental Laboratory Analysis Report

29 Research Drive
Westboro, MA 01581
508-898-9970

Customer Lockwood Greene
Attention Ed Maher

Report Date 11/05/03
Receipt Date 09/23/03

Lockwood Greene

Lab. Sample No. L6268-05 Client ID SOIL#5 Product GAMMA SPECTROMETRY
Reference Date 09/17/03 Analysis Date 10/22/03 Matrix Soil

Nuclide	Activity Concentration +/- 1 - Sigma (pCi/kg)			TPU 1 Sigma (pCi/kg)	Measured MDC (pCi/kg)	Required MDC (pCi/kg)	Flags
AcTh-228	2.3E+02	+/-	1.5E+01	1.9E+01	5.3E+01		bc
Ag-108m	-6.8E+00	+/-	3.6E+00	3.6E+00	1.3E+01		
Ag-110m	-1.6E+00	+/-	4.7E+00	4.7E+00	1.7E+01		
Am-241	-2.4E+01	+/-	2.6E+01	2.7E+01	9.2E+01		
Ba-140	1.82E+02	+/-	8.6E+01	8.6E+01	2.8E+02		
Be-7	-1E+01	+/-	5.1E+01	5.1E+01	1.8E+02		
Ce-141	2.3E+01	+/-	1.3E+01	1.4E+01	4.4E+01		
Ce-144	-1.1E+01	+/-	2.8E+01	2.8E+01	9.6E+01		
Co-57	6E-01	+/-	3.5E+00	3.5E+00	1.2E+01		
Co-58	5E-01	+/-	4.7E+00	4.7E+00	1.7E+01		
Co-60	-2.1E+00	+/-	3.2E+00	3.2E+00	1.2E+01	1.5E+02	
Cr-51	5.5E+01	+/-	6.7E+01	6.7E+01	2.3E+02		
Cs-134	-1.5E+01	+/-	1.5E+01	1.5E+01	4.9E+01	1.5E+02	
Cs-137	2.29E+02	+/-	1.0E+01	1.5E+01	1.6E+01	1.5E+02	bc
Fe-59	2.2E+01	+/-	1.2E+01	1.2E+01	4.0E+01		
I-131	1.16E+02	+/-	6.8E+01	6.9E+01	2.2E+02		
K-40	5.09E+03	+/-	1.6E+02	3.0E+02	1.0E+02		bc
La-140	3.3E+01	+/-	4.7E+01	4.7E+01	1.6E+02		
Mn-54	-4E-01	+/-	3.9E+00	3.9E+00	1.4E+01		
Nb-95	1.3E+01	+/-	7.5E+00	7.5E+00	2.5E+01		
Ru-103	-3E-01	+/-	6.9E+00	6.9E+00	2.4E+01		
Ru-106	-7.5E+01	+/-	3.5E+01	3.6E+01	1.3E+02		
Sb-124	-5.2E+00	+/-	6.8E+00	6.8E+00	2.9E+01		
Sb-125	-1.42E+01	+/-	9.9E+00	1.0E+01	3.6E+01		
Se-75	-5.3E+00	+/-	5.8E+00	5.8E+00	2.0E+01		
Zn-65	-6E+00	+/-	1.8E+01	1.8E+01	6.3E+01		
Zr-95	-2.4E+01	+/-	1.7E+01	1.7E+01	6.2E+01		

Flags: a The measured MDC is greater than the required MDC
b The activity concentration is greater than three times its one sigma counting uncertainty.
c Peak was found

Reporting Level Ratio:

c:

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ENVIRONMENTAL LAB

Approved by
11/05/03
J. M. Raimondi
Sample Control Manager

FRAMATOME ANP

Environmental Laboratory Analysis Report

29 Research Drive
Westboro, MA 01581
508-898-9970

Lockwood Greene

Customer Lockwood Greene
Attention Ed Maher

Report Date 11/05/03
Receipt Date 09/23/03

Lab. Sample No. L6268-06 Client ID SOIL#6 Product GAMMA SPECTROMETRY
Reference Date 09/17/03 Analysis Date 10/22/03 Matrix Soil

Nuclide	Activity Concentration +/- 1 - Sigma (pCi/kg)			TPU 1 Sigma (pCi/kg)	Measured MDC (pCi/kg)	Required MDC (pCi/kg)	Flags
AcTh-228	1.73E+02	+/-	1.5E+01	1.7E+01	4.5E+01		bc
Ag-108m	5.1E+00	+/-	2.7E+00	2.7E+00	8.9E+00		
Ag-110m	-9.6E+00	+/-	4.6E+00	4.7E+00	1.8E+01		
Am-241	-9E+00	+/-	2.1E+01	2.1E+01	7.2E+01		
Ba-140	6.7E+01	+/-	7.0E+01	7.0E+01	2.4E+02		
Be-7	2E+01	+/-	3.8E+01	3.8E+01	1.3E+02		
Ce-141	3E+00	+/-	1.1E+01	1.1E+01	3.6E+01		
Ce-144	-1E+00	+/-	2.3E+01	2.3E+01	7.9E+01		
Co-57	1.5E+00	+/-	3.0E+00	3.0E+00	1.0E+01		
Co-58	-6.1E+00	+/-	4.2E+00	4.2E+00	1.6E+01		
Co-60	-5.7E+00	+/-	3.4E+00	3.4E+00	1.4E+01	1.5E+02	
Cr-51	-7.1E+01	+/-	5.9E+01	5.9E+01	2.1E+02		
Cs-134	7E+00	+/-	2.9E+00	2.9E+00	9.0E+00	1.5E+02	
Cs-137	6.36E+01	+/-	5.9E+00	6.7E+00	1.3E+01	1.5E+02	bc
Fe-59	5E+00	+/-	1.1E+01	1.1E+01	3.8E+01		
I-131	-6.6E+01	+/-	6.3E+01	6.3E+01	2.3E+02		
K-40	3.33E+03	+/-	1.3E+02	2.1E+02	1.1E+02		bc
La-140	0E+00	+/-	3.5E+01	3.5E+01	1.2E+02		
Mn-54	-2.2E+00	+/-	3.3E+00	3.3E+00	1.2E+01		
Nb-95	7E-01	+/-	7.0E+00	7.0E+00	2.5E+01		
Ru-103	1.4E+00	+/-	5.8E+00	5.8E+00	2.0E+01		
Ru-106	4.3E+01	+/-	3.0E+01	3.0E+01	9.9E+01		
Sb-124	0E+00	+/-	7.7E+00	7.7E+00	3.0E+01		
Sb-125	4.7E+00	+/-	8.1E+00	8.1E+00	2.8E+01		
Se-75	-1.2E+00	+/-	5.2E+00	5.2E+00	1.8E+01		
Zn-65	-5E+00	+/-	1.7E+01	1.7E+01	6.0E+01		
Zr-95	-4.6E+01	+/-	1.3E+01	1.3E+01	5.7E+01		

Flags: a The measured MDC is greater than the required MDC
b The activity concentration is greater than three times its one sigma counting uncertainty.
c Peak was found

Reporting Level Ratio:

c:

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Approved by
11/05/03
J. M. Raimondi
Sample Control Manager

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29 Research Drive
Westboro, MA 01581
508-898-9970

Lockwood Greene

Customer Lockwood Greene
Attention Ed Maher

Report Date 11/05/03
Receipt Date 09/23/03

Lab. Sample No. L6268-07 Client ID SOIL#7 Product GAMMA SPECTROMETRY
Reference Date 09/17/03 Analysis Date 10/22/03 Matrix Soil

Nuclide	Activity Concentration +/- 1 - Sigma (pCi/kg)			TPU 1 Sigma (pCi/kg)	Measured MDC (pCi/kg)	Required MDC (pCi/kg)	Flags
AcTh-228	1.84E+02	+/-	1.4E+01	1.7E+01	4.7E+01		bc
Ag-108m	-1.9E+00	+/-	3.0E+00	3.0E+00	1.1E+01		
Ag-110m	0E+00	+/-	4.2E+00	4.2E+00	1.5E+01		
Am-241	1E+01	+/-	1.9E+01	1.9E+01	6.5E+01		
Ba-140	-1.3E+01	+/-	1.5E+01	1.5E+01	6.2E+01		
Be-7	-7.4E+01	+/-	4.2E+01	4.2E+01	1.6E+02		
Ce-141	2.1E+01	+/-	1.1E+01	1.1E+01	3.6E+01		
Ce-144	-8E+00	+/-	2.6E+01	2.6E+01	8.8E+01		
Co-57	-4.2E+00	+/-	3.3E+00	3.3E+00	1.1E+01		
Co-58	8E-01	+/-	3.5E+00	3.5E+00	1.3E+01		
Co-60	-5.5E+00	+/-	3.0E+00	3.0E+00	1.2E+01	1.5E+02	
Cr-51	5.1E+01	+/-	6.5E+01	6.5E+01	2.2E+02		
Cs-134	2.8E+00	+/-	4.2E+00	4.2E+00	1.4E+01	1.5E+02	
Cs-137	8.77E+01	+/-	6.4E+00	7.8E+00	1.4E+01	1.5E+02	bc
Fe-59	-1.8E+01	+/-	1.2E+01	1.2E+01	4.9E+01		
I-131	1.22E+02	+/-	6.5E+01	6.5E+01	2.1E+02		
K-40	4.06E+03	+/-	1.3E+02	2.4E+02	8.9E+01		bc
La-140	-1.5E+01	+/-	1.8E+01	1.8E+01	7.2E+01		
Mn-54	-1E+00	+/-	3.3E+00	3.3E+00	1.2E+01		
Nb-95	-6E-01	+/-	6.5E+00	6.5E+00	2.3E+01		
Ru-103	-4.6E+00	+/-	4.7E+00	4.7E+00	1.7E+01		
Ru-106	-3.7E+01	+/-	3.0E+01	3.1E+01	1.1E+02		
Sb-124	-6.2E+00	+/-	7.0E+00	7.0E+00	2.9E+01		
Sb-125	-3.5E+00	+/-	9.0E+00	9.0E+00	3.2E+01		
Se-75	3.7E+00	+/-	4.9E+00	4.9E+00	1.7E+01		
Zn-65	-1E+00	+/-	1.6E+01	1.6E+01	5.3E+01		
Zr-95	8E+00	+/-	6.8E+00	6.8E+00	2.3E+01		

Flags: a The measured MDC is greater than the required MDC
b The activity concentration is greater than three times its one sigma counting uncertainty.
c Peak was found

Approved by
11/05/03
J. M. Raimondi
Sample Control Manager

Reporting Level Ratio:

c:

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ENVIRONMENTAL LAB

FRAMATOME ANP

Environmental Laboratory Analysis Report

29 Research Drive
Westboro, MA 01581
508-898-9970

Lockwood Greene

Customer Lockwood Greene
Attention Ed Maher

Report Date 11/05/03
Receipt Date 09/23/03

Lab. Sample No. L6268-08 Client ID SOIL#8 Product GAMMA SPECTROMETRY
Reference Date 09/17/03 Analysis Date 10/22/03 Matrix Soil

Nuclide	Activity Concentration +/- 1 - Sigma (pCi/kg)			TPU 1 Sigma (pCi/kg)	Measured MDC (pCi/kg)	Required MDC (pCi/kg)	Flags
AcTh-228	1.41E+02	+/-	1.6E+01	1.7E+01	6.0E+01		bc
Ag-108m	3.2E+00	+/-	2.6E+00	2.6E+00	8.8E+00		
Ag-110m	-2.8E+00	+/-	4.7E+00	4.7E+00	1.8E+01		
Am-241	1.5E+01	+/-	1.2E+01	1.2E+01	4.1E+01		
Ba-140	5.1E+01	+/-	7.3E+01	7.3E+01	2.5E+02		
Be-7	0E+00	+/-	4.4E+01	4.4E+01	1.5E+02		
Ce-141	-9.9E+00	+/-	9.9E+00	9.9E+00	3.5E+01		
Ce-144	-1E+00	+/-	1.9E+01	1.9E+01	6.7E+01		
Co-57	6E-01	+/-	2.5E+00	2.5E+00	8.4E+00		
Co-58	-1.5E+00	+/-	5.0E+00	5.0E+00	1.8E+01		
Co-60	-7.4E+00	+/-	4.3E+00	4.3E+00	1.7E+01	1.5E+02	
Cr-51	-8.5E+01	+/-	5.4E+01	5.4E+01	2.0E+02		
Cs-134	-1.6E+00	+/-	2.9E+00	2.9E+00	1.1E+01	1.5E+02	
Cs-137	7.52E+01	+/-	6.8E+00	7.7E+00	1.5E+01	1.5E+02	bc
Fe-59	3E+00	+/-	1.2E+01	1.2E+01	4.4E+01		
I-131	-8.1E+01	+/-	5.1E+01	5.1E+01	1.9E+02		
K-40	4E+03	+/-	1.6E+02	2.6E+02	1.4E+02		bc
La-140	-3.6E+01	+/-	3.8E+01	3.8E+01	1.4E+02		
Mn-54	-6.8E+00	+/-	4.3E+00	4.3E+00	1.6E+01		
Nb-95	-2.11E+01	+/-	8.0E+00	8.1E+00	3.1E+01		
Ru-103	5E-01	+/-	5.2E+00	5.2E+00	1.8E+01		
Ru-106	4.7E+01	+/-	2.8E+01	2.8E+01	9.1E+01		
Sb-124	0E+00	+/-	9.0E+00	9.0E+00	3.6E+01		
Sb-125	1.47E+01	+/-	9.5E+00	9.5E+00	3.1E+01		
Se-75	-3.1E+00	+/-	4.6E+00	4.6E+00	1.6E+01		
Zn-65	-1.5E+01	+/-	2.1E+01	2.1E+01	7.3E+01		
Zr-95	1.4E+01	+/-	1.7E+01	1.7E+01	5.6E+01		

Flags: a The measured MDC is greater than the required MDC
b The activity concentration is greater than three times its one sigma counting uncertainty.
c Peak was found

Reporting Level Ratio:

c:

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ENVIRONMENTAL LAB

Approved by
11/05/03
J. M. Raimondi
Sample Control Manager

FRAMATOME ANP

Environmental Laboratory Analysis Report

29 Research Drive
Westboro, MA 01581
508-898-9970

Customer Lockwood Greene
Attention Ed Maher

Report Date 11/05/03
Receipt Date 09/23/03

Lockwood Greene

Lab. Sample No. L6268-09 Client ID SOIL#9 Product GAMMA SPECTROMETRY
Reference Date 09/17/03 Analysis Date 10/22/03 Matrix Soil

Nuclide	Activity Concentration +/- 1 - Sigma (pCi/kg)			TPU 1 Sigma (pCi/kg)	Measured MDC (pCi/kg)	Required MDC (pCi/kg)	Flags
AcTh-228	1.72E+02	+/-	1.6E+01	1.8E+01	5.3E+01		bc
Ag-108m	1.1E+00	+/-	3.0E+00	3.0E+00	1.0E+01		
Ag-110m	-3.3E+00	+/-	5.1E+00	5.1E+00	1.9E+01		
Am-241	1.2E+01	+/-	1.6E+01	1.6E+01	5.3E+01		
Ba-140	0E+00	+/-	7.3E+01	7.3E+01	2.6E+02		
Be-7	2.7E+01	+/-	4.4E+01	4.4E+01	1.5E+02		
Ce-141	-1.65E+01	+/-	9.8E+00	9.8E+00	3.5E+01		
Ce-144	-3.5E+01	+/-	2.4E+01	2.4E+01	8.3E+01		
Co-57	-2.6E+00	+/-	3.0E+00	3.0E+00	1.1E+01		
Co-58	-5.6E+00	+/-	4.3E+00	4.3E+00	1.7E+01		
Co-60	4E-01	+/-	3.2E+00	3.2E+00	1.2E+01	1.5E+02	
Cr-51	-1.88E+02	+/-	6.5E+01	6.5E+01	2.4E+02		
Cs-134	-1E+01	+/-	1.5E+01	1.5E+01	5.0E+01	1.5E+02	
Cs-137	8.85E+01	+/-	8.1E+00	9.2E+00	1.9E+01	1.5E+02	bc
Fe-59	1E+01	+/-	1.3E+01	1.3E+01	4.4E+01		
I-131	-2.1E+01	+/-	6.2E+01	6.2E+01	2.2E+02		
K-40	3.77E+03	+/-	1.6E+02	2.5E+02	1.2E+02		bc
La-140	1.04E+02	+/-	4.4E+01	4.4E+01	1.4E+02		
Mn-54	-3E+00	+/-	3.9E+00	3.9E+00	1.5E+01		
Nb-95	4E+00	+/-	1.1E+01	1.1E+01	3.8E+01		
Ru-103	-5.5E+00	+/-	5.4E+00	5.4E+00	2.0E+01		
Ru-106	-2.1E+01	+/-	3.3E+01	3.3E+01	1.2E+02		
Sb-124	0E+00	+/-	7.3E+00	7.3E+00	3.0E+01		
Sb-125	1.63E+01	+/-	9.4E+00	9.4E+00	3.1E+01		
Se-75	-1.17E+01	+/-	4.7E+00	4.7E+00	1.8E+01		
Zn-65	2E+01	+/-	2.0E+01	2.0E+01	6.8E+01		
Zr-95	-1.1E+01	+/-	1.6E+01	1.6E+01	5.9E+01		

Flags: a The measured MDC is greater than the required MDC
b The activity concentration is greater than three times its one sigma counting uncertainty.
c Peak was found

Reporting Level Ratio:

c:

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FRAMATOME ANP
ENVIRONMENTAL LAB

Approved by
11/05/03
J. M. Raimondi
Sample Control Manager

FRAMATOME ANP

Environmental Laboratory Analysis Report

29 Research Drive
Westboro, MA 01581
508-898-9970

Customer Lockwood Greene
Attention Ed Maher

Report Date 11/05/03
Receipt Date 09/23/03

Lockwood Greene

Lab. Sample No. L6268-10 Client ID SOIL#10 Product GAMMA SPECTROMETRY
Reference Date 09/17/03 Analysis Date 10/22/03 Matrix Soil

Nuclide	Activity Concentration +/- 1 - Sigma (pCi/kg)			TPU 1 Sigma (pCi/kg)	Measured MDC (pCi/kg)	Required MDC (pCi/kg)	Flags
AcTh-228	2.12E+02	+/-	1.3E+01	1.7E+01	4.2E+01		bc
Ag-108m	-1.2E+00	+/-	2.7E+00	2.7E+00	9.6E+00		
Ag-110m	1.5E+00	+/-	4.2E+00	4.2E+00	1.5E+01		
Am-241	-9E+00	+/-	2.1E+01	2.1E+01	7.1E+01		
Ba-140	-4.7E+01	+/-	6.4E+01	6.5E+01	2.3E+02		
Be-7	7.3E+01	+/-	3.6E+01	3.6E+01	1.2E+02		
Ce-141	1E+01	+/-	1.1E+01	1.1E+01	3.6E+01		
Ce-144	-2.2E+01	+/-	2.1E+01	2.1E+01	7.4E+01		
Co-57	-9E-01	+/-	2.8E+00	2.8E+00	9.6E+00		
Co-58	-4.3E+00	+/-	4.0E+00	4.0E+00	1.5E+01		
Co-60	3.6E+00	+/-	2.9E+00	2.9E+00	9.6E+00	1.5E+02	
Cr-51	-3.6E+01	+/-	5.6E+01	5.6E+01	1.9E+02		
Cs-134	-1.4E+01	+/-	1.2E+01	1.2E+01	3.9E+01	1.5E+02	
Cs-137	7.66E+01	+/-	5.8E+00	6.9E+00	1.3E+01	1.5E+02	bc
Fe-59	-1.1E+01	+/-	1.0E+01	1.0E+01	3.8E+01		
I-131	1.7E+01	+/-	5.5E+01	5.5E+01	1.9E+02		
K-40	4.34E+03	+/-	1.2E+02	2.5E+02	9.7E+01		bc
La-140	5.4E+01	+/-	3.4E+01	3.4E+01	1.1E+02		
Mn-54	4.9E+00	+/-	3.2E+00	3.2E+00	1.1E+01		
Nb-95	-1.1E+00	+/-	9.1E+00	9.1E+00	3.1E+01		
Ru-103	1.2E+00	+/-	5.4E+00	5.4E+00	1.8E+01		
Ru-106	1.8E+01	+/-	2.9E+01	2.9E+01	9.8E+01		
Sb-124	-2.4E+00	+/-	4.6E+00	4.6E+00	1.9E+01		
Sb-125	3.1E+00	+/-	8.2E+00	8.2E+00	2.8E+01		
Se-75	2E-01	+/-	4.5E+00	4.5E+00	1.6E+01		
Zn-65	1.1E+01	+/-	1.5E+01	1.5E+01	5.0E+01		
Zr-95	-1.5E+01	+/-	1.3E+01	1.3E+01	4.8E+01		

Flags: a The measured MDC is greater than the required MDC
b The activity concentration is greater than three times its one sigma counting uncertainty.
c Peak was found

Reporting Level Ratio:

c:

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ENVIRONMENTAL LAB

Approved by
11/05/03
J. M. Raimondi
Sample Control Manager

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Environmental Laboratory Analysis Report

29 Research Drive
Westboro, MA 01581
508-898-9970

Customer
Lockwood Greene
1500 International Drive
Spartanburg, SC 29304
Attn: Carl Jackson

Product U-234, U-235, U-238

Report Date 04/27/04
Receipt Date 04/05/04

LSN	Client ID & Description	Reference Date	Analysis Date	Nuclide	Activity Concentration +/- 1-Sigma (pCi/kg)	TPU 1 Sigma (pCi/kg)	Measured MDC (pCi/kg)	Required MDC (pCi/kg)	Flags	Reporting Level Ratio
Soil										
L7165-01	SS - 2	04/01/2004	04/21/2004	U-234	1.592E+02 +/- 7.8E+00	9.4E+00	2.8E+00	1.0E+03	b	
L7165-01	SS - 2	04/01/2004	04/21/2004	U-235	6.6E+00 +/- 2.0E+00	2.0E+00	5.0E+00	1.0E+03	b	
L7165-01	SS - 2	04/01/2004	04/21/2004	U-238	1.468E+02 +/- 7.5E+00	9.0E+00	4.5E+00	1.0E+03	b	
L7165-02	SS - 6	04/01/2004	04/20/2004	U-234	1.65E+02 +/- 1.0E+01	1.2E+01	3.1E+00	1.0E+03	b	
L7165-02	SS - 6	04/01/2004	04/20/2004	U-235	6.7E+00 +/- 2.5E+00	2.5E+00	5.5E+00	1.0E+03		
L7165-02	SS - 6	04/01/2004	04/20/2004	U-238	1.58E+02 +/- 1.0E+01	1.2E+01	4.5E+00	1.0E+03	b	
L7165-03	SS - 9	04/01/2004	04/21/2004	U-234	1.684E+02 +/- 7.9E+00	9.7E+00	7.5E+00	1.0E+03	b	
L7165-03	SS - 9	04/01/2004	04/21/2004	U-235	1.06E+01 +/- 2.2E+00	2.2E+00	3.1E+00	1.0E+03	b	
L7165-03	SS - 9	04/01/2004	04/21/2004	U-238	1.612E+02 +/- 7.5E+00	9.2E+00	2.5E+00	1.0E+03	b	
L7165-04	SS - 11	04/01/2004	04/20/2004	U-234	1.654E+02 +/- 8.4E+00	1.0E+01	8.2E+00	1.0E+03	b	
L7165-04	SS - 11	04/01/2004	04/20/2004	U-235	1.16E+01 +/- 2.8E+00	2.9E+00	6.3E+00	1.0E+03	b	
L7165-04	SS - 11	04/01/2004	04/20/2004	U-238	1.685E+02 +/- 8.2E+00	1.0E+01	3.7E+00	1.0E+03	b	

Flags:
a The measured MDC is greater than the required MDC.
b The activity concentration is greater than three times its one sigma counting uncertainty.

Approved by
4/27/04
J. M. Raimondi
Laboratory Manager

c:

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ENVIRONMENTAL LAB

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Environmental Laboratory Analysis Report

29 Research Drive
Westboro, MA 01581
508-898-9970

Customer
Lockwood Greene
1500 International Drive
Spartanburg, SC 29304
Attn: Carl Jackson

Product U-234, U-235, U-238

Report Date 04/27/04
Receipt Date 04/05/04

LSN	Client ID & Description	Reference Date	Analysis Date	Nuclide	Activity Concentration +/- 1-Sigma (pCi/kg)	TPU 1 Sigma (pCi/kg)	Measured MDC (pCi/kg)	Required MDC (pCi/kg)	Flags	Reporting Level Ratio
Soil										
L7165-05	SS - 12	04/01/2004	04/20/2004	U-234	1.594E+02 +/- 7.7E+00	9.4E+00	7.4E+00	1.0E+03	b	
L7165-05	SS - 12	04/01/2004	04/20/2004	U-235	1.11E+01 +/- 2.6E+00	2.6E+00	5.6E+00	1.0E+03	b	
L7165-05	SS - 12	04/01/2004	04/20/2004	U-238	1.625E+02 +/- 7.6E+00	9.4E+00	5.5E+00	1.0E+03	b	
L7165-06	SS - 13	04/01/2004	04/20/2004	U-234	1.43E+02 +/- 6.0E+00	7.7E+00	2.7E+00	1.0E+03	b	
L7165-06	SS - 13	04/01/2004	04/20/2004	U-235	9.7E+00 +/- 2.0E+00	2.0E+00	4.0E+00	1.0E+03	b	
L7165-06	SS - 13	04/01/2004	04/20/2004	U-238	1.576E+02 +/- 6.3E+00	8.2E+00	1.8E+00	1.0E+03	b	
L7165-07	SS - 15	04/01/2004	04/20/2004	U-234	1.615E+02 +/- 7.5E+00	9.3E+00	5.1E+00	1.0E+03	b	
L7165-07	SS - 15	04/01/2004	04/20/2004	U-235	7.5E+00 +/- 1.8E+00	1.9E+00	3.5E+00	1.0E+03	b	
L7165-07	SS - 15	04/01/2004	04/20/2004	U-238	1.564E+02 +/- 7.3E+00	9.0E+00	3.2E+00	1.0E+03	b	
L7165-08	SS - 16	04/01/2004	04/20/2004	U-234	1.654E+02 +/- 6.4E+00	8.5E+00	2.7E+00	1.0E+03	b	
L7165-08	SS - 16	04/01/2004	04/20/2004	U-235	6.4E+00 +/- 1.6E+00	1.6E+00	3.6E+00	1.0E+03	b	
L7165-08	SS - 16	04/01/2004	04/20/2004	U-238	1.528E+02 +/- 6.1E+00	8.0E+00	1.8E+00	1.0E+03	b	

Flags:
a The measured MDC is greater than the required MDC.
b The activity concentration is greater than three times its one sigma counting uncertainty.

Approved by
4/27/04
J. M. Raimondi
Laboratory Manager

c:

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ENVIRONMENTAL LAB

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Environmental Laboratory Analysis Report

29 Research Drive
Westboro, MA 01581
508-898-9970

Customer Lockwood Greene
Attention Carl Jackson

Report Date 04/27/04
Receipt Date 04/05/04

Lockwood Greene
1500 International Drive

Spartanburg, SC 29304

Lab. Sample No. L7165-01 Client ID SS - 2 Product GAMMA SPECTROMETRY
Reference Date 04/01/04 Analysis Date 04/22/04 Matrix Soil

Nuclide	Activity Concentration +/- 1 - Sigma (pCi/kg)			TPU 1 Sigma (pCi/kg)	Measured MDC (pCi/kg)	Required MDC (pCi/kg)	Flags
AcTh-228	1.81E+02	+/-	2.0E+01	2.2E+01	6.9E+01		bc
Ag-108m	-4.7E+00	+/-	4.0E+00	4.0E+00	1.5E+01		
Ag-110m	9E+00	+/-	5.5E+00	5.6E+00	1.8E+01		
Am-241	-2.3E+01	+/-	2.1E+01	2.1E+01	7.4E+01		
Ba-140	-7.7E+01	+/-	4.4E+01	4.5E+01	1.7E+02		
Be-7	-1.4E+01	+/-	4.5E+01	4.5E+01	1.6E+02		
Ce-141	2.31E+01	+/-	9.5E+00	9.5E+00	3.0E+01		
Ce-144	-5.7E+01	+/-	2.8E+01	2.8E+01	1.0E+02		
Co-57	-1.1E+00	+/-	3.6E+00	3.6E+00	1.3E+01		
Co-58	-5E-01	+/-	4.6E+00	4.6E+00	1.7E+01		
Co-60	-5E-01	+/-	4.7E+00	4.7E+00	1.8E+01	1.5E+02	
Cr-51	-5E+00	+/-	5.2E+01	5.2E+01	1.8E+02		
Cs-134	5E+00	+/-	1.8E+01	1.8E+01	6.1E+01	1.5E+02	
Cs-137	1.155E+02	+/-	9.7E+00	1.1E+01	1.9E+01	1.5E+02	bc
Fe-59	-1.1E+01	+/-	1.3E+01	1.3E+01	4.9E+01		
I-131	1.2E+01	+/-	2.3E+01	2.3E+01	8.0E+01		
K-40	3.72E+03	+/-	1.8E+02	2.6E+02	1.5E+02		bc
La-140	-5E+00	+/-	2.2E+01	2.2E+01	8.0E+01		
Mn-54	1.8E+00	+/-	4.6E+00	4.6E+00	1.7E+01		
Nb-95	-4.1E+00	+/-	6.6E+00	6.6E+00	2.5E+01		
Ru-103	7E+00	+/-	5.6E+00	5.6E+00	1.9E+01		
Ru-106	-2.6E+01	+/-	3.8E+01	3.8E+01	1.4E+02		
Sb-124	-5.4E+00	+/-	6.6E+00	6.6E+00	3.2E+01		
Sb-125	8E+00	+/-	1.2E+01	1.2E+01	4.1E+01		
Se-75	1.2E+00	+/-	6.0E+00	6.0E+00	2.1E+01		
Zn-65	1.4E+01	+/-	1.0E+01	1.0E+01	3.5E+01		
Zr-95	-8.5E+00	+/-	8.5E+00	8.5E+00	3.3E+01		

Flags: a The measured MDC is greater than the required MDC
b The activity concentration is greater than three times its one sigma counting uncertainty.
c Peak was found

Reporting Level Ratio:

c:

Approved by
4/27/04
J. M.Raimondi
Laboratory Manager

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Environmental Laboratory Analysis Report

29 Research Drive
Westboro, MA 01581
508-898-9970

Customer Lockwood Greene
Attention Carl Jackson

Report Date 04/27/04
Receipt Date 04/05/04

Lockwood Greene
1500 International Drive

Spartanburg, SC 29304

Lab. Sample No. L7165-02 **Client ID** SS - 6 **Product** GAMMA SPECTROMETRY
Reference Date 04/01/04 **Analysis Date** 04/22/04 **Matrix** Soil

Nuclide	Activity Concentration +/- 1 - Sigma (pCi/kg)			TPU 1 Sigma (pCi/kg)	Measured MDC (pCi/kg)	Required MDC (pCi/kg)	Flags
AcTh-228	1.51E+02	+/-	2.2E+01	2.3E+01	7.6E+01		bc
Ag-108m	3.4E+00	+/-	4.1E+00	4.1E+00	1.4E+01		
Ag-110m	-2.5E+00	+/-	5.7E+00	5.7E+00	2.3E+01		
Am-241	6E+00	+/-	1.8E+01	1.8E+01	6.1E+01		
Ba-140	7.3E+01	+/-	4.0E+01	4.1E+01	1.3E+02		
Be-7	-1.09E+02	+/-	4.8E+01	4.8E+01	1.9E+02		
Ce-141	8E+00	+/-	1.0E+01	1.0E+01	3.5E+01		
Ce-144	-6E+00	+/-	2.7E+01	2.7E+01	9.3E+01		
Co-57	4E+00	+/-	3.2E+00	3.3E+00	1.1E+01		
Co-58	6.4E+00	+/-	5.9E+00	5.9E+00	2.0E+01		
Co-60	9E-01	+/-	5.9E+00	5.9E+00	2.2E+01	1.5E+02	
Cr-51	2E+01	+/-	4.9E+01	4.9E+01	1.7E+02		
Cs-134	-4.3E+00	+/-	3.8E+00	3.8E+00	1.5E+01	1.5E+02	
Cs-137	8.07E+01	+/-	9.2E+00	1.0E+01	1.9E+01	1.5E+02	bc
Fe-59	-1.7E+01	+/-	1.4E+01	1.4E+01	5.8E+01		
I-131	-6E+00	+/-	2.4E+01	2.4E+01	8.9E+01		
K-40	3.78E+03	+/-	2.2E+02	2.9E+02	2.4E+02		bc
La-140	7E+00	+/-	2.5E+01	2.5E+01	8.9E+01		
Mn-54	1.2E+00	+/-	5.1E+00	5.1E+00	1.9E+01		
Nb-95	-1.12E+01	+/-	8.0E+00	8.0E+00	3.2E+01		
Ru-103	-2.7E+00	+/-	6.2E+00	6.2E+00	2.3E+01		
Ru-106	-6E+00	+/-	3.8E+01	3.8E+01	1.4E+02		
Sb-124	-7.5E+00	+/-	9.2E+00	9.2E+00	4.5E+01		
Sb-125	-9E+00	+/-	1.3E+01	1.3E+01	4.8E+01		
Se-75	-3.7E+00	+/-	5.7E+00	5.7E+00	2.1E+01		
Zn-65	3.1E+01	+/-	2.3E+01	2.3E+01	7.7E+01		
Zr-95	1.35E+01	+/-	9.4E+00	9.4E+00	3.1E+01		

Flags: a The measured MDC is greater than the required MDC
b The activity concentration is greater than three times its one sigma counting uncertainty.
c Peak was found

Reporting Level Ratio:

c:

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ENVIRONMENTAL LAB

Approved by
4/27/04
J. M.Raimondi
Laboratory Manager

AREVA

Environmental Laboratory Analysis Report

29 Research Drive
Westboro, MA 01581
508-898-9970

Customer Lockwood Greene
Attention Carl Jackson

Report Date 04/27/04
Receipt Date 04/05/04

Lockwood Greene
1500 International Drive

Spartanburg, SC 29304

Lab. Sample No. L7165-03 **Client ID** SS - 9 **Product** GAMMA SPECTROMETRY
Reference Date 04/01/04 **Analysis Date** 04/22/04 **Matrix** Soil

Nuclide	Activity Concentration +/- 1 - Sigma (pCi/kg)			TPU 1 Sigma (pCi/kg)	Measured MDC (pCi/kg)	Required MDC (pCi/kg)	Flags
AcTh-228	1.68E+02	+/-	2.3E+01	2.5E+01	7.9E+01		bc
Ag-108m	-4.4E+00	+/-	3.6E+00	3.6E+00	1.4E+01		
Ag-110m	-2.4E+00	+/-	7.5E+00	7.5E+00	2.9E+01		
Am-241	2.1E+01	+/-	2.2E+01	2.2E+01	7.2E+01		
Ba-140	1.4E+01	+/-	5.3E+01	5.3E+01	1.9E+02		
Be-7	7.9E+01	+/-	5.0E+01	5.1E+01	1.7E+02		
Ce-141	9E+00	+/-	1.1E+01	1.1E+01	3.7E+01		
Ce-144	-1E+00	+/-	3.3E+01	3.3E+01	1.1E+02		
Co-57	4.7E+00	+/-	4.0E+00	4.1E+00	1.3E+01		
Co-58	-3.7E+00	+/-	5.6E+00	5.6E+00	2.2E+01		
Co-60	-6.4E+00	+/-	5.6E+00	5.6E+00	2.4E+01	1.5E+02	
Cr-51	6E+00	+/-	6.2E+01	6.2E+01	2.2E+02		
Cs-134	-2E+01	+/-	2.2E+01	2.2E+01	7.5E+01	1.5E+02	
Cs-137	8.4E+01	+/-	1.1E+01	1.1E+01	2.5E+01	1.5E+02	bc
Fe-59	1.2E+01	+/-	1.4E+01	1.4E+01	5.0E+01		
I-131	3.3E+01	+/-	2.8E+01	2.8E+01	9.3E+01		
K-40	3.65E+03	+/-	2.1E+02	2.8E+02	2.1E+02		bc
La-140	-3E+00	+/-	2.6E+01	2.6E+01	9.5E+01		
Mn-54	2.8E+00	+/-	4.9E+00	4.9E+00	1.7E+01		
Nb-95	-1.44E+01	+/-	6.7E+00	6.8E+00	2.9E+01		
Ru-103	0E+00	+/-	5.1E+00	5.1E+00	1.9E+01		
Ru-106	-7E+00	+/-	5.0E+01	5.0E+01	1.8E+02		
Sb-124	7.4E+00	+/-	7.4E+00	7.4E+00	2.7E+01		
Sb-125	8E+00	+/-	1.3E+01	1.3E+01	4.6E+01		
Se-75	7.2E+00	+/-	5.4E+00	5.4E+00	1.8E+01		
Zn-65	-4E+01	+/-	2.6E+01	2.6E+01	9.5E+01		
Zr-95	1.98E+01	+/-	8.7E+00	8.7E+00	2.6E+01		

Flags: a The measured MDC is greater than the required MDC
b The activity concentration is greater than three times its one sigma counting uncertainty.
c Peak was found

Reporting Level Ratio:

c:

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Approved by
4/27/04
J. M.Raimondi
Laboratory Manager

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Environmental Laboratory Analysis Report

29 Research Drive
Westboro, MA 01581
508-898-9970

Customer Lockwood Greene
Attention Carl Jackson

Report Date 04/27/04
Receipt Date 04/05/04

Lockwood Greene
1500 International Drive

Spartanburg, SC 29304

Lab. Sample No. L7165-04 Client ID SS - 11 Product GAMMA SPECTROMETRY
Reference Date 04/01/04 Analysis Date 04/22/04 Matrix Soil

Nuclide	Activity Concentration +/- 1 - Sigma (pCi/kg)			TPU 1 Sigma (pCi/kg)	Measured MDC (pCi/kg)	Required MDC (pCi/kg)	Flags
AcTh-228	1.75E+02	+/-	1.7E+01	1.9E+01	4.8E+01		bc
Ag-108m	1.2E+00	+/-	2.8E+00	2.8E+00	1.0E+01		
Ag-110m	-7E-01	+/-	5.3E+00	5.3E+00	2.0E+01		
Am-241	1.5E+01	+/-	2.6E+01	2.6E+01	8.9E+01		
Ba-140	-1E+01	+/-	3.7E+01	3.7E+01	1.3E+02		
Be-7	-2.4E+01	+/-	3.8E+01	3.8E+01	1.4E+02		
Ce-141	1.2E+01	+/-	1.0E+01	1.0E+01	3.3E+01		
Ce-144	7E+00	+/-	2.7E+01	2.7E+01	9.1E+01		
Co-57	7E-01	+/-	3.4E+00	3.4E+00	1.2E+01		
Co-58	5E-01	+/-	3.8E+00	3.8E+00	1.4E+01		
Co-60	6.6E+00	+/-	3.9E+00	3.9E+00	1.3E+01	1.5E+02	
Cr-51	-1.1E+01	+/-	4.6E+01	4.6E+01	1.6E+02		
Cs-134	7.4E+00	+/-	3.4E+00	3.4E+00	1.1E+01	1.5E+02	
Cs-137	8.35E+01	+/-	7.4E+00	8.5E+00	1.5E+01	1.5E+02	bc
Fe-59	-1.7E+01	+/-	1.1E+01	1.1E+01	4.2E+01		
I-131	-1.1E+01	+/-	2.2E+01	2.2E+01	8.0E+01		
K-40	3.75E+03	+/-	1.6E+02	2.4E+02	1.5E+02		bc
La-140	1.3E+01	+/-	2.2E+01	2.2E+01	7.7E+01		
Mn-54	4.6E+00	+/-	4.0E+00	4.0E+00	1.3E+01		
Nb-95	8.1E+00	+/-	5.9E+00	5.9E+00	2.0E+01		
Ru-103	3.4E+00	+/-	5.2E+00	5.2E+00	1.8E+01		
Ru-106	3.9E+01	+/-	3.4E+01	3.4E+01	1.1E+02		
Sb-124	3.8E+00	+/-	5.9E+00	5.9E+00	2.3E+01		
Sb-125	9.3E+00	+/-	9.9E+00	9.9E+00	3.4E+01		
Se-75	-8E+00	+/-	5.4E+00	5.4E+00	2.0E+01		
Zn-65	-9E+00	+/-	1.7E+01	1.7E+01	6.1E+01		
Zr-95	2.8E+00	+/-	7.0E+00	7.0E+00	2.5E+01		

Flags: a The measured MDC is greater than the required MDC
b The activity concentration is greater than three times its one sigma counting uncertainty.
c Peak was found

Reporting Level Ratio:

c:

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Approved by
4/27/04
J. M.Raimondi
Laboratory Manager

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Environmental Laboratory Analysis Report

29 Research Drive
Westboro, MA 01581
508-898-9970

Customer Lockwood Greene
Attention Carl Jackson

Report Date 04/27/04
Receipt Date 04/05/04

Lockwood Greene
1500 International Drive

Spartanburg, SC 29304

Lab. Sample No. L7165-05 Client ID SS - 12 Product GAMMA SPECTROMETRY
Reference Date 04/01/04 Analysis Date 04/22/04 Matrix Soil

Nuclide	Activity Concentration +/- 1 - Sigma (pCi/kg)			TPU 1 Sigma (pCi/kg)	Measured MDC (pCi/kg)	Required MDC (pCi/kg)	Flags
AcTh-228	2.05E+02	+/-	2.0E+01	2.3E+01	5.4E+01		bc
Ag-108m	6.6E+00	+/-	3.7E+00	3.7E+00	1.2E+01		
Ag-110m	-1.34E+01	+/-	6.2E+00	6.3E+00	2.6E+01		
Am-241	-2.1E+01	+/-	2.2E+01	2.2E+01	7.7E+01		
Ba-140	6E+00	+/-	4.4E+01	4.4E+01	1.6E+02		
Be-7	-2E+01	+/-	4.3E+01	4.3E+01	1.6E+02		
Ce-141	0E+00	+/-	1.0E+01	1.0E+01	3.6E+01		
Ce-144	1.3E+01	+/-	2.9E+01	2.9E+01	9.9E+01		
Co-57	-2.9E+00	+/-	3.6E+00	3.6E+00	1.3E+01		
Co-58	-3.2E+00	+/-	4.3E+00	4.3E+00	1.7E+01		
Co-60	-1.1E+00	+/-	4.4E+00	4.4E+00	1.7E+01	1.5E+02	
Cr-51	1.08E+02	+/-	5.9E+01	5.9E+01	1.9E+02		
Cs-134	3E+01	+/-	1.4E+01	1.4E+01	4.6E+01	1.5E+02	
Cs-137	5.76E+01	+/-	8.4E+00	8.9E+00	2.1E+01	1.5E+02	bc
Fe-59	4E+00	+/-	1.1E+01	1.1E+01	4.0E+01		
I-131	-5E+00	+/-	2.4E+01	2.4E+01	8.8E+01		
K-40	3.61E+03	+/-	1.9E+02	2.6E+02	1.3E+02		bc
La-140	2.3E+01	+/-	2.4E+01	2.4E+01	8.3E+01		
Mn-54	2.6E+00	+/-	4.9E+00	4.9E+00	1.7E+01		
Nb-95	-1.2E+00	+/-	6.9E+00	6.9E+00	2.5E+01		
Ru-103	-8.9E+00	+/-	5.7E+00	5.8E+00	2.2E+01		
Ru-106	1.8E+01	+/-	4.0E+01	4.0E+01	1.4E+02		
Sb-124	-5.7E+00	+/-	9.1E+00	9.1E+00	4.0E+01		
Sb-125	1.2E+01	+/-	1.1E+01	1.1E+01	3.8E+01		
Se-75	-2.9E+00	+/-	6.3E+00	6.3E+00	2.2E+01		
Zn-65	1.5E+01	+/-	2.0E+01	2.0E+01	6.8E+01		
Zr-95	1.65E+01	+/-	8.9E+00	8.9E+00	2.8E+01		

Flags: a The measured MDC is greater than the required MDC
b The activity concentration is greater than three times its one sigma counting uncertainty.
c Peak was found

Reporting Level Ratio:

c:

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ENVIRONMENTAL LAB

Approved by
J. M. Raimondi 4/27/04
J. M. Raimondi
Laboratory Manager

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Environmental Laboratory Analysis Report

29 Research Drive
Westboro, MA 01581
508-898-9970

Customer Lockwood Greene
Attention Carl Jackson

Report Date 04/27/04
Receipt Date 04/05/04

Lockwood Greene
1500 International Drive

Spartanburg, SC 29304

Lab. Sample No. L7165-06 Client ID SS - 13 Product GAMMA SPECTROMETRY
Reference Date 04/01/04 Analysis Date 04/22/04 Matrix Soil

Nuclide	Activity Concentration +/- 1 - Sigma (pCi/kg)			TPU 1 Sigma (pCi/kg)	Measured MDC (pCi/kg)	Required MDC (pCi/kg)	Flags
AcTh-228	1.72E+02	+/-	2.1E+01	2.2E+01	6.4E+01		bc
Ag-108m	-6.1E+00	+/-	4.0E+00	4.1E+00	1.6E+01		
Ag-110m	2.3E+00	+/-	6.3E+00	6.3E+00	2.3E+01		
Am-241	2.3E+01	+/-	1.6E+01	1.7E+01	5.5E+01		
Ba-140	-4.2E+01	+/-	5.0E+01	5.0E+01	1.9E+02		
Be-7	-6.2E+01	+/-	4.7E+01	4.7E+01	1.8E+02		
Ce-141	-1.6E+01	+/-	1.0E+01	1.0E+01	3.8E+01		
Ce-144	5E+00	+/-	2.6E+01	2.6E+01	8.9E+01		
Co-57	-1.5E+00	+/-	3.2E+00	3.2E+00	1.1E+01		
Co-58	-4.4E+00	+/-	6.8E+00	6.8E+00	2.6E+01		
Co-60	3.9E+00	+/-	5.1E+00	5.1E+00	1.8E+01	1.5E+02	
Cr-51	3.1E+01	+/-	5.7E+01	5.7E+01	2.0E+02		
Cs-134	2.5E+00	+/-	3.1E+00	3.1E+00	1.1E+01	1.5E+02	
Cs-137	3.26E+01	+/-	8.9E+00	9.0E+00	2.6E+01	1.5E+02	bc
Fe-59	3E+00	+/-	1.3E+01	1.3E+01	4.9E+01		
I-131	5E+00	+/-	2.4E+01	2.4E+01	8.6E+01		
K-40	3.66E+03	+/-	2.2E+02	2.9E+02	2.2E+02		bc
La-140	1.1E+01	+/-	2.4E+01	2.4E+01	2.2E+02		
Mn-54	1.7E+00	+/-	4.8E+00	4.8E+00	1.8E+01		
Nb-95	-1.02E+01	+/-	6.9E+00	6.9E+00	2.8E+01		
Ru-103	-2E+00	+/-	6.6E+00	6.6E+00	2.4E+01		
Ru-106	5.3E+01	+/-	4.0E+01	4.0E+01	1.3E+02		
Sb-124	-1.16E+01	+/-	8.7E+00	8.7E+00	4.7E+01		
Sb-125	-1.1E+01	+/-	1.4E+01	1.4E+01	5.2E+01		
Se-75	0E+00	+/-	5.4E+00	5.4E+00	1.9E+01		
Zn-65	-3E+01	+/-	1.5E+01	1.5E+01	6.3E+01		
Zr-95	1.6E+01	+/-	1.1E+01	1.1E+01	3.7E+01		

Flags: a The measured MDC is greater than the required MDC
b The activity concentration is greater than three times its one sigma counting uncertainty.
c Peak was found

Reporting Level Ratio:

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Approved by
4/27/04
J. M.Raimondi
Laboratory Manager

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Environmental Laboratory Analysis Report

29 Research Drive
Westboro, MA 01581
508-898-9970

Customer Lockwood Greene
Attention Carl Jackson

Report Date 04/27/04
Receipt Date 04/05/04

Lockwood Greene
1500 International Drive

Spartanburg, SC 29304

Lab. Sample No. L7165-07 **Client ID** SS - 15 **Product** GAMMA SPECTROMETRY
Reference Date 04/01/04 **Analysis Date** 04/22/04 **Matrix** Soil

Nuclide	Activity Concentration +/- 1 - Sigma (pCi/kg)			TPU 1 Sigma (pCi/kg)	Measured MDC (pCi/kg)	Required MDC (pCi/kg)	Flags
AcTh-228	1.56E+02	+/-	2.2E+01	2.3E+01	8.2E+01		bc
Ag-108m	-1E+00	+/-	3.7E+00	3.7E+00	1.4E+01		
Ag-110m	8.5E+00	+/-	7.9E+00	8.0E+00	2.7E+01		
Am-241	-1.7E+01	+/-	2.1E+01	2.1E+01	7.3E+01		
Ba-140	-1.4E+01	+/-	4.7E+01	4.7E+01	1.8E+02		
Be-7	-2.5E+01	+/-	5.0E+01	5.0E+01	1.9E+02		
Ce-141	-1.5E+01	+/-	1.0E+01	1.0E+01	3.7E+01		
Ce-144	-2.5E+01	+/-	3.3E+01	3.3E+01	1.2E+02		
Co-57	-5.4E+00	+/-	3.9E+00	3.9E+00	1.4E+01		
Co-58	-2.9E+00	+/-	4.6E+00	4.6E+00	1.9E+01		
Co-60	2.5E+00	+/-	5.2E+00	5.2E+00	1.9E+01	1.5E+02	
Cr-51	-9.7E+01	+/-	6.0E+01	6.0E+01	2.3E+02		
Cs-134	-3.7E+01	+/-	2.4E+01	2.4E+01	8.2E+01	1.5E+02	
Cs-137	7.4E+01	+/-	1.0E+01	1.1E+01	2.5E+01	1.5E+02	bc
Fe-59	-7E+00	+/-	1.6E+01	1.6E+01	6.1E+01		
I-131	3.1E+01	+/-	2.6E+01	2.6E+01	8.9E+01		
K-40	3.86E+03	+/-	2.2E+02	2.9E+02	2.1E+02		bc
La-140	-4E+00	+/-	2.6E+01	2.6E+01	9.6E+01		
Mn-54	-6.6E+00	+/-	4.6E+00	4.6E+00	1.9E+01		
Nb-95	-2.11E+01	+/-	6.8E+00	6.9E+00	3.1E+01		
Ru-103	1.7E+00	+/-	5.7E+00	5.7E+00	2.1E+01		
Ru-106	-5E+00	+/-	4.2E+01	4.2E+01	1.6E+02		
Sb-124	1.1E+01	+/-	1.1E+01	1.1E+01	4.1E+01		
Sb-125	5E+00	+/-	1.2E+01	1.2E+01	4.3E+01		
Se-75	-7.2E+00	+/-	5.7E+00	5.7E+00	2.1E+01		
Zn-65	-1.5E+01	+/-	2.7E+01	2.7E+01	9.6E+01		
Zr-95	2.1E+00	+/-	9.2E+00	9.2E+00	3.4E+01		

Flags: a The measured MDC is greater than the required MDC
b The activity concentration is greater than three times its one sigma counting uncertainty.
c Peak was found

Reporting Level Ratio:

c:

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Approved by
4/27/04
J. M.Raimondi
Laboratory Manager

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Westboro, MA 01581
508-898-9970

Customer Lockwood Greene
Attention Carl Jackson

Report Date 04/27/04
Receipt Date 04/05/04

Lockwood Greene
1500 International Drive

Spartanburg, SC 29304

Lab. Sample No. L7165-08 Client ID SS - 16 Product GAMMA SPECTROMETRY
Reference Date 04/01/04 Analysis Date 04/22/04 Matrix Soil

Nuclide	Activity Concentration +/- 1 - Sigma (pCi/kg)			TPU 1 Sigma (pCi/kg)	Measured MDC (pCi/kg)	Required MDC (pCi/kg)	Flags
AcTh-228	2.01E+02	+/-	1.7E+01	2.0E+01	5.0E+01		bc
Ag-108m	7.3E+00	+/-	3.3E+00	3.4E+00	1.1E+01		
Ag-110m	-4.3E+00	+/-	4.1E+00	4.1E+00	1.7E+01		
Am-241	1.2E+01	+/-	2.7E+01	2.7E+01	9.3E+01		
Ba-140	5.1E+01	+/-	4.3E+01	4.3E+01	1.4E+02		
Be-7	8E+00	+/-	3.9E+01	3.9E+01	1.4E+02		
Ce-141	3E+00	+/-	1.1E+01	1.1E+01	3.7E+01		
Ce-144	-3.5E+01	+/-	2.8E+01	2.8E+01	9.9E+01		
Co-57	-3.5E+00	+/-	3.5E+00	3.5E+00	1.2E+01		
Co-58	3.5E+00	+/-	4.3E+00	4.3E+00	1.5E+01		
Co-60	6.4E+00	+/-	4.1E+00	4.1E+00	1.3E+01	1.5E+02	
Cr-51	6.2E+01	+/-	5.1E+01	5.1E+01	1.7E+02		
Cs-134	-2.1E+01	+/-	1.7E+01	1.7E+01	5.6E+01	1.5E+02	
Cs-137	8.99E+01	+/-	7.8E+00	9.0E+00	1.5E+01	1.5E+02	bc
Fe-59	4E+00	+/-	1.1E+01	1.1E+01	3.9E+01		
I-131	1E+01	+/-	2.2E+01	2.2E+01	7.6E+01		
K-40	3.77E+03	+/-	1.6E+02	2.5E+02	1.2E+02		bc
La-140	-2.8E+01	+/-	2.5E+01	2.6E+01	9.4E+01		
Mn-54	2.5E+00	+/-	4.2E+00	4.2E+00	1.5E+01		
Nb-95	-7E-01	+/-	8.4E+00	8.4E+00	2.9E+01		
Ru-103	-1.7E+00	+/-	5.1E+00	5.1E+00	1.8E+01		
Ru-106	-4.9E+01	+/-	3.6E+01	3.6E+01	1.4E+02		
Sb-124	-2.1E+00	+/-	8.5E+00	8.5E+00	3.4E+01		
Sb-125	1.9E+01	+/-	1.0E+01	1.0E+01	3.3E+01		
Se-75	8E-01	+/-	5.5E+00	5.5E+00	1.9E+01		
Zn-65	1.3E+01	+/-	1.9E+01	1.9E+01	6.3E+01		
Zr-95	-1.51E+01	+/-	7.0E+00	7.1E+00	2.9E+01		

Flags: a The measured MDC is greater than the required MDC
b The activity concentration is greater than three times its one sigma counting uncertainty.
c Peak was found

Reporting Level Ratio:

c:

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APR 2 7 2004
FRAMATOME ANP
ENVIRONMENTAL LAB

Approved by 4/27/04
J. M. Raimondi
Laboratory Manager

AREVA

Environmental Laboratory Analysis Report

29 Research Drive
Westboro, MA 01581
508-898-9970

Customer
Lockwood Greene
1500 International Drive
Spartanburg, SC 29304
Attn: Carl Jackson

Product TH-230, TH-232

Report Date 04/27/04
Receipt Date 04/05/04

LSN	Client ID & Description	Reference Date	Analysis Date	Nuclide	Activity Concentration +/- 1-Sigma (pCi/kg)	TPU 1 Sigma (pCi/kg)	Measured MDC (pCi/kg)	Required MDC (pCi/kg)	Reporting Flags	Level Ratio
Soil										
L7165-01	SS - 2	04/01/2004	04/20/2004	Th-228	1.46E+02 +/- 1.4E+01	1.5E+01	2.4E+01	1.0E+03	b	
L7165-01	SS - 2	04/01/2004	04/20/2004	Th-230	1.57E+02 +/- 1.4E+01	1.6E+01	2.5E+01	1.0E+03	b	
L7165-01	SS - 2	04/01/2004	04/20/2004	Th-232	2.04E+02 +/- 1.4E+01	1.6E+01	9.2E+00	1.0E+03	b	
L7165-02	SS - 6	04/01/2004	04/20/2004	Th-228	2.07E+02 +/- 1.8E+01	2.0E+01	3.2E+01	1.0E+03	b	
L7165-02	SS - 6	04/01/2004	04/20/2004	Th-230	1.36E+02 +/- 1.5E+01	1.6E+01	3.0E+01	1.0E+03	b	
L7165-02	SS - 6	04/01/2004	04/20/2004	Th-232	1.63E+02 +/- 1.4E+01	1.6E+01	9.1E+00	1.0E+03	b	
L7165-03	SS - 9	04/01/2004	04/20/2004	Th-228	1.54E+02 +/- 1.1E+01	1.3E+01	1.7E+01	1.0E+03	b	
L7165-03	SS - 9	04/01/2004	04/20/2004	Th-230	1.6E+02 +/- 1.1E+01	1.3E+01	1.7E+01	1.0E+03	b	
L7165-03	SS - 9	04/01/2004	04/20/2004	Th-232	1.64E+02 +/- 1.1E+01	1.2E+01	6.3E+00	1.0E+03	b	
L7165-04	SS - 11	04/01/2004	04/20/2004	Th-228	1.75E+02 +/- 1.4E+01	1.5E+01	2.5E+01	1.0E+03	b	
L7165-04	SS - 11	04/01/2004	04/20/2004	Th-230	1.55E+02 +/- 1.2E+01	1.4E+01	2.1E+01	1.0E+03	b	
L7165-04	SS - 11	04/01/2004	04/20/2004	Th-232	1.81E+02 +/- 1.2E+01	1.4E+01	8.3E+00	1.0E+03	b	

Flags:
a The measured MDC is greater than the required MDC.
b The activity concentration is greater than three times its one sigma counting uncertainty.

Approved by
4/27/04
J. M. Raimondi
Laboratory Manager

c:

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APR 2 7 2004
FRAMATOME ANP

AREVA

Environmental Laboratory Analysis Report

29 Research Drive
Westboro, MA 01581
508-898-9970

Customer
Lockwood Greene
1500 International Drive
Spartanburg, SC 29304
Attn: Carl Jackson

Product TH-230, TH-232

Report Date 04/27/04
Receipt Date 04/05/04

LSN	Client ID & Description	Reference Date	Analysis Date	Nuclide	Activity Concentration +/- 1-Sigma (pCi/kg)	TPU 1 Sigma (pCi/kg)	Measured MDC (pCi/kg)	Required MDC (pCi/kg)	Flags	Reporting Level Ratio
Soil										
L7165-05	SS - 12	04/01/2004	04/20/2004	Th-228	2.07E+02 +/- 1.5E+01	1.7E+01	2.7E+01	1.0E+03	b	
L7165-05	SS - 12	04/01/2004	04/20/2004	Th-230	1.63E+02 +/- 1.3E+01	1.4E+01	2.0E+01	1.0E+03	b	
L7165-05	SS - 12	04/01/2004	04/20/2004	Th-232	1.96E+02 +/- 1.2E+01	1.4E+01	7.3E+00	1.0E+03	b	
L7165-06	SS - 13	04/01/2004	04/20/2004	Th-228	1.99E+02 +/- 1.4E+01	1.5E+01	1.5E+01	1.0E+03	b	
L7165-06	SS - 13	04/01/2004	04/20/2004	Th-230	1.49E+02 +/- 1.3E+01	1.4E+01	2.2E+01	1.0E+03	b	
L7165-06	SS - 13	04/01/2004	04/20/2004	Th-232	1.94E+02 +/- 1.3E+01	1.5E+01	2.3E+00	1.0E+03	b	
L7165-07	SS - 15	04/01/2004	04/20/2004	Th-228	2.11E+02 +/- 1.5E+01	1.7E+01	2.8E+01	1.0E+03	b	
L7165-07	SS - 15	04/01/2004	04/20/2004	Th-230	1.61E+02 +/- 1.3E+01	1.4E+01	2.1E+01	1.0E+03	b	
L7165-07	SS - 15	04/01/2004	04/20/2004	Th-232	2.07E+02 +/- 1.3E+01	1.5E+01	9.1E+00	1.0E+03	b	
L7165-08	SS - 16	04/01/2004	04/20/2004	Th-228	2E+02 +/- 1.5E+01	1.7E+01	3.0E+01	1.0E+03	b	
L7165-08	SS - 16	04/01/2004	04/20/2004	Th-230	1.83E+02 +/- 1.4E+01	1.5E+01	2.3E+01	1.0E+03	b	
L7165-08	SS - 16	04/01/2004	04/20/2004	Th-232	1.88E+02 +/- 1.3E+01	1.4E+01	1.2E+01	1.0E+03	b	

Flags:
a The measured MDC is greater than the required MDC.
b The activity concentration is greater than three times its one sigma counting uncertainty.

Approved by
4/27/04
J. M. Raimondi
Laboratory Manager

c:

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APR 27 2004
FRAMATOME ANP
ENVIRONMENTAL LAB

SEVERN TRENT STL

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Arvada, CO 80002

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ANALYTICAL REPORT

URENCO Project

Lot #: D4D030176

Purchase Order 018511-0403003

Frank Bellini/Carl Jackson

Lockwood Greene
1500 International Drive
Spartanburg, SC 29304

STL DENVER

Gail DeRuzzo
Project Manager

April 29, 2004

Table Of Contents

Standard Deliverables

Report Contents	Total Number of Pages
Standard Deliverables *The Cover Letter and the Report Cover page are considered integral parts of this Standard Deliverable package. This report is incomplete unless all pages indicated in this Table of Contents are included.*	

- Table of Contents
- Case Narrative
- Executive Summary – Detection Highlights
- Methods Summary
- Method/Analyst Summary
- Lot Sample Summary
- Analytical Results
- QC Data Association Summary
- Chain-of-Custody

Lot #: D4D030176

Case Narrative

Enclosed is the report for eight samples received at STL's Denver laboratory on April 3, 2004. The results included in this report have been reviewed for compliance with STL Denver's Laboratory Quality Manual. The test results shown in this report meet all requirements of NELAC and any exceptions are noted below.

Dilution factors and footnotes have been provided to assist in the interpretation of the results. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interferences or analytes present at concentrations above the linear calibration curve, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

STL utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameters listed on the analytical methods summary page in accordance with the methods indicated. A summary of quality control parameters is provided below.

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Quality Control Summary for Lot D4D030176

Sample Receiving

- The cooler temperature upon receipt at the Denver laboratory was 2.3° C.
- All sample bottles were received in acceptable condition.

Holding Times

- All holding times were met.

Method Blanks

- The analytes Acetone, Naphthalene, and Toluene by Method 8260B were detected in the Method Blank below the established reporting limits. No corrective action is taken for any values in Method Blanks that are below the requested reporting limits.
- All other Method Blanks were within established control limits.

Laboratory Control Samples

- The LCS and LCSD recoveries were above the upper control limits for all compounds except for the Demeton LCSD by Method 8141A. In addition the relative percent difference (RPD) was outside control limits for Demeton (total). The associated sample results are still considered valid because none of the target compounds were detected.
- The LCS recovery was above the upper control limit for 2,4-D by Method 8151A at 93%. In addition the surrogate recovery for DCAA was above the upper control limit for the LCS. The associated sample results are still considered valid because 2,4-D was not detected.
- All other Laboratory Control Samples were within established control limits.

Lot #: D4D030176

Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

- The Matrix Spike and Matrix Spike Duplicate recoveries were outside control limits for all compounds except Ethyl parathion by Method 8141A; for all compounds in the MS by Method 8151A; and for Arsenic, Lead, Selenium, and Silver in the MS by Method 6010B. The RPD was outside control limits for all Method 6010B metals except Chromium. In addition the surrogate recovery of DCAA was outside control limits in the MS by Method 8151A. Because the corresponding Laboratory Control Samples and the Method Blank samples were within control limits, these anomalies may be due to matrix interference.

- The MS/MSD recoveries, surrogate recoveries, and RPD could not be determined for Methods 8270C and 8081A because of the dilutions performed on the samples.

- All other MS and MSD samples were within established control limits.

Organics

- The relative percent difference between the primary and confirmation columns exceeded 40% for 4,4'-DDD in samples SS-6, SS-9, SS-11, and SS-12. The lower of the two results is reported.

- Samples SS-13, SS-15, and SS-16 were analyzed at a dilution for Pesticides by Method 8081A due to the presence of interfering, non-target compounds. Continuing Calibration Verification (CCV) standards for 4,4'-DDT and Methoxychlor failed when these samples were run without dilution. Therefore, it was necessary to analyze with dilution to obtain passing QC samples. The reporting limits were raised according to the dilution level. As a result of the dilutions, the surrogate recoveries could not be determined.

- The surrogate recoveries for DCAA in samples SS-13 and SS-15 were above the upper control limit in Method 8151A. The sample results are still considered valid because no target analytes were detected.

- The internal standard recoveries for 1,4-Dichlorobenzene-d4 were outside control limits for sample SS-6 and the MS/MSD performed on this sample by Method 8260B. Because the failed recoveries were confirmed repeatedly on sample SS-6, matrix effects are confirmed.

- The Continuing Calibration Verification (CCV) standards for Demeton-S, O,O,O-Triethylphosphorothioate, Dichlorvos, Azinphos-methyl, Mevinphos, Dimethoate, Malathion, Tetrachlorvinphos, and Naled by Method 8141A exceeded the percent difference limits in various runs and columns. However, the overall mean percent difference is within control limits, therefore, the CCV is also in control and no corrective action was necessary. Additionally, the associated samples were non-detect.

- The Continuing Calibration Verification (CCV) standards for Dichloroprop, MCPP, DCAA, Dicamba, Dinoseb, MCPA, and 2,4-DB by Method 8151A exceeded the percent difference limits in various runs and columns. However, the overall mean percent difference is within control limits, therefore, the CCV is also in control and no corrective action was necessary. Additionally, the associated samples were non-detect.

- The Continuing Calibration Verification (CCV) standards for Heptachlor, 4,4'-DDE, Endrin, 4,4'-DDD, 4,4'-DDT, DCB, Methoxychlor, Endosulfan I, Endrin aldehyde, Endosulfan sulfate, and delta-BHC by Method 8081A exceeded the percent difference limits in various runs and columns. However, the overall mean percent difference is within control limits, therefore, the CCV is also in control and no corrective action was necessary. Additionally, the associated samples were non-detect below the reporting limit.

EXECUTIVE SUMMARY - Detection Highlights

D4D030176

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SS-2 04/01/04 12:30 001				
Arsenic	0.76 B	1.0	mg/kg	SW846 6010B
Lead	2.8	0.81	mg/kg	SW846 6010B
Barium	22	1.0	mg/kg	SW846 6010B
Chromium	5.9	1.0	mg/kg	SW846 6010B
Silver	0.099 B	1.0	mg/kg	SW846 6010B
Acetone	4.2 J,B	20	ug/kg	SW846 8260B
Xylenes (total)	0.93 J	5.1	ug/kg	SW846 8260B
1,2,4-Trimethylbenzene	0.30 J	5.1	ug/kg	SW846 8260B
m-Xylene & p-Xylene	0.56 J	2.5	ug/kg	SW846 8260B
o-Xylene	0.37 J	2.5	ug/kg	SW846 8260B
Percent Moisture	1.6	0.10	%	MCAWW 160.3 MOD
SS-6 04/01/04 10:40 002				
4,4'-DDD	0.44	1.7	ug/kg	SW846 8081A
	Qualifiers: J,COL			
Arsenic	0.76 B	1.0	mg/kg	SW846 6010B
Lead	2.2	0.81	mg/kg	SW846 6010B
Barium	15	1.0	mg/kg	SW846 6010B
Chromium	3.1	1.0	mg/kg	SW846 6010B
Silver	0.10 B	1.0	mg/kg	SW846 6010B
Acetone	5.6 J,B	20	ug/kg	SW846 8260B
Xylenes (total)	1.0 J	5.1	ug/kg	SW846 8260B
1,2,4-Trimethylbenzene	0.33 J	5.1	ug/kg	SW846 8260B
m-Xylene & p-Xylene	0.73 J	2.5	ug/kg	SW846 8260B
o-Xylene	0.28 J	2.5	ug/kg	SW846 8260B
Percent Moisture	1.3	0.10	%	MCAWW 160.3 MOD
SS-9 04/01/04 15:15 003				
4,4'-DDD	0.39	1.7	ug/kg	SW846 8081A
	Qualifiers: J,COL			
Lead	3.3	0.81	mg/kg	SW846 6010B
Barium	53	1.0	mg/kg	SW846 6010B
Chromium	3.4	1.0	mg/kg	SW846 6010B
Silver	0.085 B	1.0	mg/kg	SW846 6010B
Acetone	3.9 J,B	20	ug/kg	SW846 8260B
Xylenes (total)	0.72 J	5.1	ug/kg	SW846 8260B
o-Xylene	0.32 J	2.5	ug/kg	SW846 8260B
Fluoride	1.0 B	10	mg/kg	SW846 9056
Percent Moisture	1.2	0.10	%	MCAWW 160.3 MOD

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

D4D030176

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SS-11 04/01/04 10:00 004				
4,4'-DDD	0.79	1.7	ug/kg	SW846 8081A
	Qualifiers: J,COL			
Arsenic	0.89 B	1.0	mg/kg	SW846 6010B
Lead	2.8	0.81	mg/kg	SW846 6010B
Barium	19	1.0	mg/kg	SW846 6010B
Chromium	3.4	1.0	mg/kg	SW846 6010B
Silver	0.11 B	1.0	mg/kg	SW846 6010B
Acetone	3.8 J,B	20	ug/kg	SW846 8260B
Xylenes (total)	0.73 J	5.1	ug/kg	SW846 8260B
1,2,4-Trimethylbenzene	0.23 J	5.1	ug/kg	SW846 8260B
m-Xylene & p-Xylene	0.43 J	2.5	ug/kg	SW846 8260B
o-Xylene	0.30 J	2.5	ug/kg	SW846 8260B
Fluoride	1.2 B	10	mg/kg	SW846 9056
Percent Moisture	1.3	0.10	%	MCAWW 160.3 MOD
SS-12 04/01/04 15:40 005				
4,4'-DDD	0.65	1.7	ug/kg	SW846 8081A
	Qualifiers: J,COL			
Arsenic	0.77 B	1.0	mg/kg	SW846 6010B
Lead	2.7	0.81	mg/kg	SW846 6010B
Barium	19	1.0	mg/kg	SW846 6010B
Chromium	3.5	1.0	mg/kg	SW846 6010B
Silver	0.10 B	1.0	mg/kg	SW846 6010B
Xylenes (total)	1.6 J	5.1	ug/kg	SW846 8260B
1,2,4-Trimethylbenzene	0.45 J	5.1	ug/kg	SW846 8260B
m-Xylene & p-Xylene	1.1 J	2.5	ug/kg	SW846 8260B
o-Xylene	0.50 J	2.5	ug/kg	SW846 8260B
Percent Moisture	1.5	0.10	%	MCAWW 160.3 MOD
SS-13 04/01/04 16:10 006				
Lead	2.6	0.81	mg/kg	SW846 6010B
Barium	16	1.0	mg/kg	SW846 6010B
Chromium	3.0	1.0	mg/kg	SW846 6010B
Xylenes (total)	1.1 J	5.1	ug/kg	SW846 8260B
1,2,4-Trimethylbenzene	0.38 J	5.1	ug/kg	SW846 8260B
m-Xylene & p-Xylene	0.82 J	2.5	ug/kg	SW846 8260B
o-Xylene	0.31 J	2.5	ug/kg	SW846 8260B
Percent Moisture	1.1	0.10	%	MCAWW 160.3 MOD

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

D4D030176

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SS-15 04/01/04 13:10 007				
Lead	2.5	0.81	mg/kg	SW846 6010B
Barium	17	1.0	mg/kg	SW846 6010B
Chromium	3.1	1.0	mg/kg	SW846 6010B
Silver	0.10 B	1.0	mg/kg	SW846 6010B
Xylenes (total)	1.1 J	5.1	ug/kg	SW846 8260B
1,2,4-Trimethylbenzene	0.35 J	5.1	ug/kg	SW846 8260B
m-Xylene & p-Xylene	0.78 J	2.5	ug/kg	SW846 8260B
o-Xylene	0.31 J	2.5	ug/kg	SW846 8260B
Fluoride	1.0 B	10	mg/kg	SW846 9056
Percent Moisture	1.2	0.10	%	MCAWW 160.3 MOD
SS-16 04/01/04 14:40 008				
Arsenic	0.96 B	1.0	mg/kg	SW846 6010B
Lead	2.9	0.81	mg/kg	SW846 6010B
Barium	24	1.0	mg/kg	SW846 6010B
Chromium	3.7	1.0	mg/kg	SW846 6010B
Silver	0.11 B	1.0	mg/kg	SW846 6010B
Xylenes (total)	1.4 J	5.0	ug/kg	SW846 8260B
1,2,4-Trimethylbenzene	0.48 J	5.0	ug/kg	SW846 8260B
m-Xylene & p-Xylene	0.99 J	2.5	ug/kg	SW846 8260B
o-Xylene	0.44 J	2.5	ug/kg	SW846 8260B
Naphthalene	0.69 J,B	5.0	ug/kg	SW846 8260B
Percent Moisture	0.81	0.10	%	MCAWW 160.3 MOD

METHOD / ANALYST SUMMARY

D4D030176

ANALYTICAL METHOD	ANALYST	ANALYST ID
MCAWW 160.3 MOD	Jean Carrier	008763
SW846 6010B	Lynn-Anne Trudell	6645
SW846 7471A	Kacey Ono	003371
SW846 8081A	Mike Dobransky	008777
SW846 8141A	Sonya Dacar	011595
SW846 8151A	Heather Dybas	038161
SW846 8260B	Dan Appelhans	001008
SW846 8270C	Rwanda Todea	005716
SW846 9056	Andrita Scofield	004409

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

D4D030176

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
GDHQL	001	SS-2	04/01/04	12:30
GDHQX	002	SS-6	04/01/04	10:40
GDHQ0	003	SS-9	04/01/04	15:15
GDHQ1	004	SS-11	04/01/04	10:00
GDHQ2	005	SS-12	04/01/04	15:40
GDHQ3	006	SS-13	04/01/04	16:10
GDHQ4	007	SS-15	04/01/04	13:10
GDHQ5	008	SS-16	04/01/04	14:40

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

METHODS SUMMARY

D4D030176

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Chlorinated Herbicides by GC	SW846 8151A	SW846 8151A
Fluoride	SW846 9056	SW846 9056
Inductively Coupled Plasma (ICP) Metals	SW846 6010B	SW846 3050B
Mercury in Solid Waste (Manual Cold-Vapor)	SW846 7471A	SW846 7471A
Organochlorine Pesticides	SW846 8081A	SW846 3550
Organophosphorous Compounds by GC	SW846 8141A	
Percent Moisture	MCAWW 160.3 MOD	MCAWW 160.3 MOD
Semivolatile Organic Compounds by GC/MS	SW846 8270C	SW846 3550B
Volatile Organics by GC/MS	SW846 8260B	SW846 5030B/826

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

LOCKWOOD GREENE

Client Sample ID: SS-2

GC/MS Volatiles

Lot-Sample #...: D4D030176-001 Work Order #...: GDHQL1AA Matrix.....: SOLID
Date Sampled...: 04/01/04 12:30 Date Received..: 04/03/04
Prep Date.....: 04/12/04 Analysis Date..: 04/12/04
Prep Batch #...: 4104274 Analysis Time..: 13:46
Dilution Factor: 1

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	4.2 J,B	20	ug/kg
Benzene	ND	5.1	ug/kg
Bromodichloromethane	ND	5.1	ug/kg
Bromoform	ND	5.1	ug/kg
Bromomethane	ND	10	ug/kg
2-Butanone (MEK)	ND	20	ug/kg
Carbon tetrachloride	ND	5.1	ug/kg
Chlorobenzene	ND	5.1	ug/kg
Chloroethane	ND	10	ug/kg
Chloroform	ND	10	ug/kg
Chloromethane	ND	10	ug/kg
Dibromomethane	ND	5.1	ug/kg
1,2-Dibromoethane (EDB)	ND	5.1	ug/kg
1,2-Dichlorobenzene	ND	5.1	ug/kg
1,3-Dichlorobenzene	ND	5.1	ug/kg
1,4-Dichlorobenzene	ND	5.1	ug/kg
Dichlorodifluoromethane	ND	10	ug/kg
1,1-Dichloroethane	ND	5.1	ug/kg
1,2-Dichloroethane	ND	5.1	ug/kg
1,1-Dichloroethene	ND	5.1	ug/kg
1,2-Dichloroethene (total)	ND	5.1	ug/kg
cis-1,2-Dichloroethene	ND	2.5	ug/kg
trans-1,2-Dichloroethene	ND	2.5	ug/kg
1,2-Dichloropropane	ND	5.1	ug/kg
cis-1,3-Dichloropropene	ND	5.1	ug/kg
trans-1,3-Dichloropropene	ND	5.1	ug/kg
Ethylbenzene	ND	5.1	ug/kg
2-Hexanone	ND	20	ug/kg
Methylene chloride	ND	5.1	ug/kg
4-Methyl-2-pentanone	ND	20	ug/kg
Styrene	ND	5.1	ug/kg
1,1,1,2-Tetrachloroethane	ND	5.1	ug/kg
1,1,2,2-Tetrachloroethane	ND	5.1	ug/kg
Tetrachloroethene	ND	5.1	ug/kg
Toluene	ND	5.1	ug/kg
1,2,4-Trichlorobenzene	ND	5.1	ug/kg

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LOCKWOOD GREENE

Client Sample ID: SS-2

GC/MS Volatiles

Lot-Sample #...: D4D030176-001 Work Order #...: GDHQL1AA Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
1,1,1-Trichloroethane	ND	5.1	ug/kg
1,1,2-Trichloroethane	ND	5.1	ug/kg
Trichloroethene	ND	5.1	ug/kg
Trichlorofluoromethane	ND	10	ug/kg
1,2,3-Trichloropropane	ND	5.1	ug/kg
Vinyl chloride	ND	5.1	ug/kg
Xylenes (total)	**0.93 J**	**5.1**	**ug/kg**
n-Butylbenzene	ND	5.1	ug/kg
sec-Butylbenzene	ND	5.1	ug/kg
Isopropylbenzene	ND	5.1	ug/kg
1,2,4-Trimethylbenzene	**0.30 J**	**5.1**	**ug/kg**
1,3,5-Trimethylbenzene	ND	5.1	ug/kg
n-Propylbenzene	ND	5.1	ug/kg
tert-Butylbenzene	ND	5.1	ug/kg
Dibromochloromethane	ND	5.1	ug/kg
2-Chlorotoluene	ND	5.1	ug/kg
4-Chlorotoluene	ND	5.1	ug/kg
1,2-Dibromo-3-chloropropane (DBCP)	ND	10	ug/kg
1,3-Dichloropropane	ND	5.1	ug/kg
2,2-Dichloropropane	ND	5.1	ug/kg
1,1-Dichloropropene	ND	5.1	ug/kg
Hexachlorobutadiene	ND	5.1	ug/kg
4-Isopropyltoluene	ND	5.1	ug/kg
Methyl tert-butyl ether	ND	20	ug/kg
1,2,3-Trichlorobenzene	ND	5.1	ug/kg
m-Xylene & p-Xylene	**0.56 J**	**2.5**	**ug/kg**
o-Xylene	**0.37 J**	**2.5**	**ug/kg**
Bromobenzene	ND	5.1	ug/kg
Bromochloromethane	ND	5.1	ug/kg
Naphthalene	ND	5.1	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	94	(71 - 136)
1,2-Dichloroethane-d4	102	(67 - 131)
4-Bromofluorobenzene	93	(71 - 124)
Toluene-d8	96	(77 - 129)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

LOCKWOOD GREENE

Client Sample ID: SS-6

GC/MS Volatiles

Lot-Sample #...: D4D030176-002 Work Order #...: GDHQX1AA Matrix.....: SOLID
Date Sampled...: 04/01/04 10:40 Date Received..: 04/03/04
Prep Date.....: 04/12/04 Analysis Date..: 04/12/04
Prep Batch #...: 4104274 Analysis Time..: 14:09
Dilution Factor: 1

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	5.6 J,B	20	ug/kg
Benzene	ND	5.1	ug/kg
Bromodichloromethane	ND	5.1	ug/kg
Bromoform	ND	5.1	ug/kg
Bromomethane	ND	10	ug/kg
2-Butanone (MEK)	ND	20	ug/kg
Carbon tetrachloride	ND	5.1	ug/kg
Chlorobenzene	ND	5.1	ug/kg
Chloroethane	ND	10	ug/kg
Chloroform	ND	10	ug/kg
Chloromethane	ND	10	ug/kg
Dibromomethane	ND	5.1	ug/kg
1,2-Dibromoethane (EDB)	ND	5.1	ug/kg
1,2-Dichlorobenzene	ND	5.1	ug/kg
1,3-Dichlorobenzene	ND	5.1	ug/kg
1,4-Dichlorobenzene	ND	5.1	ug/kg
Dichlorodifluoromethane	ND	10	ug/kg
1,1-Dichloroethane	ND	5.1	ug/kg
1,2-Dichloroethane	ND	5.1	ug/kg
1,1-Dichloroethene	ND	5.1	ug/kg
1,2-Dichloroethene (total)	ND	5.1	ug/kg
cis-1,2-Dichloroethene	ND	2.5	ug/kg
trans-1,2-Dichloroethene	ND	2.5	ug/kg
1,2-Dichloropropane	ND	5.1	ug/kg
cis-1,3-Dichloropropene	ND	5.1	ug/kg
trans-1,3-Dichloropropene	ND	5.1	ug/kg
Ethylbenzene	ND	5.1	ug/kg
2-Hexanone	ND	20	ug/kg
Methylene chloride	ND	5.1	ug/kg
4-Methyl-2-pentanone	ND	20	ug/kg
Styrene	ND	5.1	ug/kg
1,1,1,2-Tetrachloroethane	ND	5.1	ug/kg
1,1,2,2-Tetrachloroethane	ND	5.1	ug/kg
Tetrachloroethene	ND	5.1	ug/kg
Toluene	ND	5.1	ug/kg
1,2,4-Trichloro-benzene	ND	5.1	ug/kg

(Continued on next page)

LOCKWOOD GREENE

Client Sample ID: SS-6

GC/MS Volatiles

Lot-Sample #...: D4D030176-002 Work Order #...: GDHQX1AA Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
1,1,1-Trichloroethane	ND	5.1	ug/kg
1,1,2-Trichloroethane	ND	5.1	ug/kg
Trichloroethene	ND	5.1	ug/kg
Trichlorofluoromethane	ND	10	ug/kg
1,2,3-Trichloropropane	ND	5.1	ug/kg
Vinyl chloride	ND	5.1	ug/kg
Xylenes (total)	**1.0 J**	**5.1**	**ug/kg**
n-Butylbenzene	ND	5.1	ug/kg
sec-Butylbenzene	ND	5.1	ug/kg
Isopropylbenzene	ND	5.1	ug/kg
1,2,4-Trimethylbenzene	**0.33 J**	**5.1**	**ug/kg**
1,3,5-Trimethylbenzene	ND	5.1	ug/kg
n-Propylbenzene	ND	5.1	ug/kg
tert-Butylbenzene	ND	5.1	ug/kg
Dibromochloromethane	ND	5.1	ug/kg
2-Chlorotoluene	ND	5.1	ug/kg
4-Chlorotoluene	ND	5.1	ug/kg
1,2-Dibromo-3-chloropropane (DBCP)	ND	10	ug/kg
1,3-Dichloropropane	ND	5.1	ug/kg
2,2-Dichloropropane	ND	5.1	ug/kg
1,1-Dichloropropene	ND	5.1	ug/kg
Hexachlorobutadiene	ND	5.1	ug/kg
4-Isopropyltoluene	ND	5.1	ug/kg
Methyl tert-butyl ether	ND	20	ug/kg
1,2,3-Trichlorobenzene	ND	5.1	ug/kg
m-Xylene & p-Xylene	**0.73 J**	**2.5**	**ug/kg**
o-Xylene	**0.28 J**	**2.5**	**ug/kg**
Bromobenzene	ND	5.1	ug/kg
Bromochloromethane	ND	5.1	ug/kg
Naphthalene	ND	5.1	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	98	(71 - 136)
1,2-Dichloroethane-d4	103	(67 - 131)
4-Bromofluorobenzene	95	(71 - 124)
Toluene-d8	92	(77 - 129)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

LOCKWOOD GREENE

Client Sample ID: SS-9

GC/MS Volatiles

Lot-Sample #...: D4D030176-003 Work Order #...: GDHQ01AA Matrix.....: SOLID
Date Sampled...: 04/01/04 15:15 Date Received..: 04/03/04
Prep Date.....: 04/12/04 Analysis Date..: 04/12/04
Prep Batch #...: 4104274 Analysis Time..: 14:32
Dilution Factor: 1

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	3.9 J,B	20	ug/kg
Benzene	ND	5.1	ug/kg
Bromodichloromethane	ND	5.1	ug/kg
Bromoform	ND	5.1	ug/kg
Bromomethane	ND	10	ug/kg
2-Butanone (MEK)	ND	20	ug/kg
Carbon tetrachloride	ND	5.1	ug/kg
Chlorobenzene	ND	5.1	ug/kg
Chloroethane	ND	10	ug/kg
Chloroform	ND	10	ug/kg
Chloromethane	ND	10	ug/kg
Dibromomethane	ND	5.1	ug/kg
1,2-Dibromoethane (EDB)	ND	5.1	ug/kg
1,2-Dichlorobenzene	ND	5.1	ug/kg
1,3-Dichlorobenzene	ND	5.1	ug/kg
1,4-Dichlorobenzene	ND	5.1	ug/kg
Dichlorodifluoromethane	ND	10	ug/kg
1,1-Dichloroethane	ND	5.1	ug/kg
1,2-Dichloroethane	ND	5.1	ug/kg
1,1-Dichloroethene	ND	5.1	ug/kg
1,2-Dichloroethene (total)	ND	5.1	ug/kg
cis-1,2-Dichloroethene	ND	2.5	ug/kg
trans-1,2-Dichloroethene	ND	2.5	ug/kg
1,2-Dichloropropane	ND	5.1	ug/kg
cis-1,3-Dichloropropene	ND	5.1	ug/kg
trans-1,3-Dichloropropene	ND	5.1	ug/kg
Ethylbenzene	ND	5.1	ug/kg
2-Hexanone	ND	20	ug/kg
Methylene chloride	ND	5.1	ug/kg
4-Methyl-2-pentanone	ND	20	ug/kg
Styrene	ND	5.1	ug/kg
1,1,1,2-Tetrachloroethane	ND	5.1	ug/kg
1,1,2,2-Tetrachloroethane	ND	5.1	ug/kg
Tetrachloroethene	ND	5.1	ug/kg
Toluene	ND	5.1	ug/kg
1,2,4-Trichloro-benzene	ND	5.1	ug/kg

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LOCKWOOD GREENE

Client Sample ID: SS-9

GC/MS Volatiles

Lot-Sample #...: D4D030176-003 Work Order #...: GDHQ01AA Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
1,1,1-Trichloroethane	ND	5.1	ug/kg
1,1,2-Trichloroethane	ND	5.1	ug/kg
Trichloroethene	ND	5.1	ug/kg
Trichlorofluoromethane	ND	10	ug/kg
1,2,3-Trichloropropane	ND	5.1	ug/kg
Vinyl chloride	ND	5.1	ug/kg
Xylenes (total)	0.72 J	5.1	ug/kg
n-Butylbenzene	ND	5.1	ug/kg
sec-Butylbenzene	ND	5.1	ug/kg
Isopropylbenzene	ND	5.1	ug/kg
1,2,4-Trimethylbenzene	ND	5.1	ug/kg
1,3,5-Trimethylbenzene	ND	5.1	ug/kg
n-Propylbenzene	ND	5.1	ug/kg
tert-Butylbenzene	ND	5.1	ug/kg
Dibromochloromethane	ND	5.1	ug/kg
2-Chlorotoluene	ND	5.1	ug/kg
4-Chlorotoluene	ND	5.1	ug/kg
1,2-Dibromo-3-chloropropane (DBCP)	ND	10	ug/kg
1,3-Dichloropropane	ND	5.1	ug/kg
2,2-Dichloropropane	ND	5.1	ug/kg
1,1-Dichloropropene	ND	5.1	ug/kg
Hexachlorobutadiene	ND	5.1	ug/kg
4-Isopropyltoluene	ND	5.1	ug/kg
Methyl tert-butyl ether	ND	20	ug/kg
1,2,3-Trichlorobenzene	ND	5.1	ug/kg
m-Xylene & p-Xylene	ND	2.5	ug/kg
o-Xylene	0.32 J	2.5	ug/kg
Bromobenzene	ND	5.1	ug/kg
Bromochloromethane	ND	5.1	ug/kg
Naphthalene	ND	5.1	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	98	(71 - 136)
1,2-Dichloroethane-d4	104	(67 - 131)
4-Bromofluorobenzene	92	(71 - 124)
Toluene-d8	96	(77 - 129)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

LOCKWOOD GREENE

Client Sample ID: SS-11

GC/MS Volatiles

Lot-Sample #...: D4D030176-004 Work Order #...: GDHQ11AA Matrix.....: SOLID
Date Sampled...: 04/01/04 10:00 Date Received..: 04/03/04
Prep Date.....: 04/12/04 Analysis Date..: 04/12/04
Prep Batch #...: 4104274 Analysis Time..: 14:55
Dilution Factor: 1

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	3.8 J,B	20	ug/kg
Benzene	ND	5.1	ug/kg
Bromodichloromethane	ND	5.1	ug/kg
Bromoform	ND	5.1	ug/kg
Bromomethane	ND	10	ug/kg
2-Butanone (MEK)	ND	20	ug/kg
Carbon tetrachloride	ND	5.1	ug/kg
Chlorobenzene	ND	5.1	ug/kg
Chloroethane	ND	10	ug/kg
Chloroform	ND	10	ug/kg
Chloromethane	ND	10	ug/kg
Dibromomethane	ND	5.1	ug/kg
1,2-Dibromoethane (EDB)	ND	5.1	ug/kg
1,2-Dichlorobenzene	ND	5.1	ug/kg
1,3-Dichlorobenzene	ND	5.1	ug/kg
1,4-Dichlorobenzene	ND	5.1	ug/kg
Dichlorodifluoromethane	ND	10	ug/kg
1,1-Dichloroethane	ND	5.1	ug/kg
1,2-Dichloroethane	ND	5.1	ug/kg
1,1-Dichloroethene	ND	5.1	ug/kg
1,2-Dichloroethene (total)	ND	5.1	ug/kg
cis-1,2-Dichloroethene	ND	2.5	ug/kg
trans-1,2-Dichloroethene	ND	2.5	ug/kg
1,2-Dichloropropane	ND	5.1	ug/kg
cis-1,3-Dichloropropene	ND	5.1	ug/kg
trans-1,3-Dichloropropene	ND	5.1	ug/kg
Ethylbenzene	ND	5.1	ug/kg
2-Hexanone	ND	20	ug/kg
Methylene chloride	ND	5.1	ug/kg
4-Methyl-2-pentanone	ND	20	ug/kg
Styrene	ND	5.1	ug/kg
1,1,1,2-Tetrachloroethane	ND	5.1	ug/kg
1,1,2,2-Tetrachloroethane	ND	5.1	ug/kg
Tetrachloroethene	ND	5.1	ug/kg
Toluene	ND	5.1	ug/kg
1,2,4-Trichloro-benzene	ND	5.1	ug/kg

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LOCKWOOD GREENE

Client Sample ID: SS-11

GC/MS Volatiles

Lot-Sample #...: D4D030176-004 Work Order #...: GDHQ11AA Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
1,1,1-Trichloroethane	ND	5.1	ug/kg
1,1,2-Trichloroethane	ND	5.1	ug/kg
Trichloroethene	ND	5.1	ug/kg
Trichlorofluoromethane	ND	10	ug/kg
1,2,3-Trichloropropane	ND	5.1	ug/kg
Vinyl chloride	ND	5.1	ug/kg
Xylenes (total)	**0.73 J**	**5.1**	**ug/kg**
n-Butylbenzene	ND	5.1	ug/kg
sec-Butylbenzene	ND	5.1	ug/kg
Isopropylbenzene	ND	5.1	ug/kg
1,2,4-Trimethylbenzene	**0.23 J**	**5.1**	**ug/kg**
1,3,5-Trimethylbenzene	ND	5.1	ug/kg
n-Propylbenzene	ND	5.1	ug/kg
tert-Butylbenzene	ND	5.1	ug/kg
Dibromochloromethane	ND	5.1	ug/kg
2-Chlorotoluene	ND	5.1	ug/kg
4-Chlorotoluene	ND	5.1	ug/kg
1,2-Dibromo-3-chloropropane (DBCP)	ND	10	ug/kg
1,3-Dichloropropane	ND	5.1	ug/kg
2,2-Dichloropropane	ND	5.1	ug/kg
1,1-Dichloropropene	ND	5.1	ug/kg
Hexachlorobutadiene	ND	5.1	ug/kg
4-Isopropyltoluene	ND	5.1	ug/kg
Methyl tert-butyl ether	ND	20	ug/kg
1,2,3-Trichlorobenzene	ND	5.1	ug/kg
m-Xylene & p-Xylene	**0.43 J**	**2.5**	**ug/kg**
o-Xylene	**0.30 J**	**2.5**	**ug/kg**
Bromobenzene	ND	5.1	ug/kg
Bromochloromethane	ND	5.1	ug/kg
Naphthalene	ND	5.1	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	99	(71 - 136)
1,2-Dichloroethane-d4	103	(67 - 131)
4-Bromofluorobenzene	92	(71 - 124)
Toluene-d8	95	(77 - 129)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

LOCKWOOD GREENE

Client Sample ID: SS-12

GC/MS Volatiles

Lot-Sample #...: D4D030176-005 Work Order #...: GDHQ21AA Matrix.....: SOLID
Date Sampled...: 04/01/04 15:40 Date Received..: 04/03/04
Prep Date.....: 04/12/04 Analysis Date..: 04/12/04
Prep Batch #...: 4104274 Analysis Time..: 15:19
Dilution Factor: 1

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	20	ug/kg
Benzene	ND	5.1	ug/kg
Bromodichloromethane	ND	5.1	ug/kg
Bromoform	ND	5.1	ug/kg
Bromomethane	ND	10	ug/kg
2-Butanone (MEK)	ND	20	ug/kg
Carbon tetrachloride	ND	5.1	ug/kg
Chlorobenzene	ND	5.1	ug/kg
Chloroethane	ND	10	ug/kg
Chloroform	ND	10	ug/kg
Chloromethane	ND	10	ug/kg
Dibromomethane	ND	5.1	ug/kg
1,2-Dibromoethane (EDB)	ND	5.1	ug/kg
1,2-Dichlorobenzene	ND	5.1	ug/kg
1,3-Dichlorobenzene	ND	5.1	ug/kg
1,4-Dichlorobenzene	ND	5.1	ug/kg
Dichlorodifluoromethane	ND	10	ug/kg
1,1-Dichloroethane	ND	5.1	ug/kg
1,2-Dichloroethane	ND	5.1	ug/kg
1,1-Dichloroethene	ND	5.1	ug/kg
1,2-Dichloroethene (total)	ND	5.1	ug/kg
cis-1,2-Dichloroethene	ND	2.5	ug/kg
trans-1,2-Dichloroethene	ND	2.5	ug/kg
1,2-Dichloropropane	ND	5.1	ug/kg
cis-1,3-Dichloropropene	ND	5.1	ug/kg
trans-1,3-Dichloropropene	ND	5.1	ug/kg
Ethylbenzene	ND	5.1	ug/kg
2-Hexanone	ND	20	ug/kg
Methylene chloride	ND	5.1	ug/kg
4-Methyl-2-pentanone	ND	20	ug/kg
Styrene	ND	5.1	ug/kg
1,1,1,2-Tetrachloroethane	ND	5.1	ug/kg
1,1,2,2-Tetrachloroethane	ND	5.1	ug/kg
Tetrachloroethene	ND	5.1	ug/kg
Toluene	ND	5.1	ug/kg
1,2,4-Trichloro-benzene	ND	5.1	ug/kg

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LOCKWOOD GREENE

Client Sample ID: SS-12

GC/MS Volatiles

Lot-Sample #...: D4D030176-005 Work Order #...: GDHQ21AA Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
1,1,1-Trichloroethane	ND	5.1	ug/kg
1,1,2-Trichloroethane	ND	5.1	ug/kg
Trichloroethene	ND	5.1	ug/kg
Trichlorofluoromethane	ND	10	ug/kg
1,2,3-Trichloropropane	ND	5.1	ug/kg
Vinyl chloride	ND	5.1	ug/kg
Xylenes (total)	**1.6 J**	**5.1**	**ug/kg**
n-Butylbenzene	ND	5.1	ug/kg
sec-Butylbenzene	ND	5.1	ug/kg
Isopropylbenzene	ND	5.1	ug/kg
1,2,4-Trimethylbenzene	**0.45 J**	**5.1**	**ug/kg**
1,3,5-Trimethylbenzene	ND	5.1	ug/kg
n-Propylbenzene	ND	5.1	ug/kg
tert-Butylbenzene	ND	5.1	ug/kg
Dibromochloromethane	ND	5.1	ug/kg
2-Chlorotoluene	ND	5.1	ug/kg
4-Chlorotoluene	ND	5.1	ug/kg
1,2-Dibromo-3-chloropropane (DBCP)	ND	10	ug/kg
1,3-Dichloropropane	ND	5.1	ug/kg
2,2-Dichloropropane	ND	5.1	ug/kg
1,1-Dichloropropene	ND	5.1	ug/kg
Hexachlorobutadiene	ND	5.1	ug/kg
4-Isopropyltoluene	ND	5.1	ug/kg
Methyl tert-butyl ether	ND	20	ug/kg
1,2,3-Trichlorobenzene	ND	5.1	ug/kg
m-Xylene & p-Xylene	**1.1 J**	**2.5**	**ug/kg**
o-Xylene	**0.50 J**	**2.5**	**ug/kg**
Bromobenzene	ND	5.1	ug/kg
Bromochloromethane	ND	5.1	ug/kg
Naphthalene	ND	5.1	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	98	(71 - 136)
1,2-Dichloroethane-d4	103	(67 - 131)
4-Bromofluorobenzene	91	(71 - 124)
Toluene-d8	99	(77 - 129)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

LOCKWOOD GREENE

Client Sample ID: SS-13

GC/MS Volatiles

Lot-Sample #...: D4D030176-006 Work Order #...: GDHQ31AA Matrix.....: SOLID
Date Sampled...: 04/01/04 16:10 Date Received..: 04/03/04
Prep Date.....: 04/12/04 Analysis Date..: 04/12/04
Prep Batch #...: 4104274 Analysis Time..: 15:42
Dilution Factor: 1

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	20	ug/kg
Benzene	ND	5.1	ug/kg
Bromodichloromethane	ND	5.1	ug/kg
Bromoform	ND	5.1	ug/kg
Bromomethane	ND	10	ug/kg
2-Butanone (MEK)	ND	20	ug/kg
Carbon tetrachloride	ND	5.1	ug/kg
Chlorobenzene	ND	5.1	ug/kg
Chloroethane	ND	10	ug/kg
Chloroform	ND	10	ug/kg
Chloromethane	ND	10	ug/kg
Dibromomethane	ND	5.1	ug/kg
1,2-Dibromoethane (EDB)	ND	5.1	ug/kg
1,2-Dichlorobenzene	ND	5.1	ug/kg
1,3-Dichlorobenzene	ND	5.1	ug/kg
1,4-Dichlorobenzene	ND	5.1	ug/kg
Dichlorodifluoromethane	ND	10	ug/kg
1,1-Dichloroethane	ND	5.1	ug/kg
1,2-Dichloroethane	ND	5.1	ug/kg
1,1-Dichloroethene	ND	5.1	ug/kg
1,2-Dichloroethene (total)	ND	5.1	ug/kg
cis-1,2-Dichloroethene	ND	2.5	ug/kg
trans-1,2-Dichloroethene	ND	2.5	ug/kg
1,2-Dichloropropane	ND	5.1	ug/kg
cis-1,3-Dichloropropene	ND	5.1	ug/kg
trans-1,3-Dichloropropene	ND	5.1	ug/kg
Ethylbenzene	ND	5.1	ug/kg
2-Hexanone	ND	20	ug/kg
Methylene chloride	ND	5.1	ug/kg
4-Methyl-2-pentanone	ND	20	ug/kg
Styrene	ND	5.1	ug/kg
1,1,1,2-Tetrachloroethane	ND	5.1	ug/kg
1,1,2,2-Tetrachloroethane	ND	5.1	ug/kg
Tetrachloroethene	ND	5.1	ug/kg
Toluene	ND	5.1	ug/kg
1,2,4-Trichloro-benzene	ND	5.1	ug/kg

(Continued on next page)

LOCKWOOD GREENE

Client Sample ID: SS-13

GC/MS Volatiles

Lot-Sample #...: D4D030176-006 Work Order #...: GDHQ31AA Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
1,1,1-Trichloroethane	ND	5.1	ug/kg
1,1,2-Trichloroethane	ND	5.1	ug/kg
Trichloroethene	ND	5.1	ug/kg
Trichlorofluoromethane	ND	10	ug/kg
1,2,3-Trichloropropane	ND	5.1	ug/kg
Vinyl chloride	ND	5.1	ug/kg
Xylenes (total)	1.1 J	5.1	ug/kg
n-Butylbenzene	ND	5.1	ug/kg
sec-Butylbenzene	ND	5.1	ug/kg
Isopropylbenzene	ND	5.1	ug/kg
1,2,4-Trimethylbenzene	0.38 J	5.1	ug/kg
1,3,5-Trimethylbenzene	ND	5.1	ug/kg
n-Propylbenzene	ND	5.1	ug/kg
tert-Butylbenzene	ND	5.1	ug/kg
Dibromochloromethane	ND	5.1	ug/kg
2-Chlorotoluene	ND	5.1	ug/kg
4-Chlorotoluene	ND	5.1	ug/kg
1,2-Dibromo-3-chloropropane (DBCP)	ND	10	ug/kg
1,3-Dichloropropane	ND	5.1	ug/kg
2,2-Dichloropropane	ND	5.1	ug/kg
1,1-Dichloropropene	ND	5.1	ug/kg
Hexachlorobutadiene	ND	5.1	ug/kg
4-Isopropyltoluene	ND	5.1	ug/kg
Methyl tert-butyl ether	ND	20	ug/kg
1,2,3-Trichlorobenzene	ND	5.1	ug/kg
m-Xylene & p-Xylene	0.82 J	2.5	ug/kg
o-Xylene	0.31 J	2.5	ug/kg
Bromobenzene	ND	5.1	ug/kg
Bromochloromethane	ND	5.1	ug/kg
Naphthalene	ND	5.1	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	94	(71 - 136)
1,2-Dichloroethane-d4	99	(67 - 131)
4-Bromofluorobenzene	92	(71 - 124)
Toluene-d8	93	(77 - 129)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

LOCKWOOD GREENE

Client Sample ID: SS-15

GC/MS Volatiles

Lot-Sample #...: D4D030176-007 Work Order #...: GDHQ41AA Matrix.....: SOLID
Date Sampled...: 04/01/04 13:10 Date Received..: 04/03/04
Prep Date.....: 04/12/04 Analysis Date..: 04/12/04
Prep Batch #...: 4104274 Analysis Time..: 16:06
Dilution Factor: 1

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	20	ug/kg
Benzene	ND	5.1	ug/kg
Bromodichloromethane	ND	5.1	ug/kg
Bromoform	ND	5.1	ug/kg
Bromomethane	ND	10	ug/kg
2-Butanone (MEK)	ND	20	ug/kg
Carbon tetrachloride	ND	5.1	ug/kg
Chlorobenzene	ND	5.1	ug/kg
Chloroethane	ND	10	ug/kg
Chloroform	ND	10	ug/kg
Chloromethane	ND	10	ug/kg
Dibromomethane	ND	5.1	ug/kg
1,2-Dibromoethane (EDB)	ND	5.1	ug/kg
1,2-Dichlorobenzene	ND	5.1	ug/kg
1,3-Dichlorobenzene	ND	5.1	ug/kg
1,4-Dichlorobenzene	ND	5.1	ug/kg
Dichlorodifluoromethane	ND	10	ug/kg
1,1-Dichloroethane	ND	5.1	ug/kg
1,2-Dichloroethane	ND	5.1	ug/kg
1,1-Dichloroethene	ND	5.1	ug/kg
1,2-Dichloroethene (total)	ND	5.1	ug/kg
cis-1,2-Dichloroethene	ND	2.5	ug/kg
trans-1,2-Dichloroethene	ND	2.5	ug/kg
1,2-Dichloropropane	ND	5.1	ug/kg
cis-1,3-Dichloropropene	ND	5.1	ug/kg
trans-1,3-Dichloropropene	ND	5.1	ug/kg
Ethylbenzene	ND	5.1	ug/kg
2-Hexanone	ND	20	ug/kg
Methylene chloride	ND	5.1	ug/kg
4-Methyl-2-pentanone	ND	20	ug/kg
Styrene	ND	5.1	ug/kg
1,1,1,2-Tetrachloroethane	ND	5.1	ug/kg
1,1,2,2-Tetrachloroethane	ND	5.1	ug/kg
Tetrachloroethene	ND	5.1	ug/kg
Toluene	ND	5.1	ug/kg
1,2,4-Trichloro-benzene	ND	5.1	ug/kg

(Continued on next page)

LOCKWOOD GREENE

Client Sample ID: SS-15

GC/MS Volatiles

Lot-Sample #...: D4D030176-007 Work Order #...: GDHQ41AA Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
1,1,1-Trichloroethane	ND	5.1	ug/kg
1,1,2-Trichloroethane	ND	5.1	ug/kg
Trichloroethene	ND	5.1	ug/kg
Trichlorofluoromethane	ND	10	ug/kg
1,2,3-Trichloropropane	ND	5.1	ug/kg
Vinyl chloride	ND	5.1	ug/kg
Xylenes (total)	1.1 J	5.1	ug/kg
n-Butylbenzene	ND	5.1	ug/kg
sec-Butylbenzene	ND	5.1	ug/kg
Isopropylbenzene	ND	5.1	ug/kg
1,2,4-Trimethylbenzene	0.35 J	5.1	ug/kg
1,3,5-Trimethylbenzene	ND	5.1	ug/kg
n-Propylbenzene	ND	5.1	ug/kg
tert-Butylbenzene	ND	5.1	ug/kg
Dibromochloromethane	ND	5.1	ug/kg
2-Chlorotoluene	ND	5.1	ug/kg
4-Chlorotoluene	ND	5.1	ug/kg
1,2-Dibromo-3-chloropropane (DBCP)	ND	10	ug/kg
1,3-Dichloropropane	ND	5.1	ug/kg
2,2-Dichloropropane	ND	5.1	ug/kg
1,1-Dichloropropene	ND	5.1	ug/kg
Hexachlorobutadiene	ND	5.1	ug/kg
4-Isopropyltoluene	ND	5.1	ug/kg
Methyl tert-butyl ether	ND	20	ug/kg
1,2,3-Trichlorobenzene	ND	5.1	ug/kg
m-Xylene & p-Xylene	0.78 J	2.5	ug/kg
o-Xylene	0.31 J	2.5	ug/kg
Bromobenzene	ND	5.1	ug/kg
Bromochloromethane	ND	5.1	ug/kg
Naphthalene	ND	5.1	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	96	(71 - 136)
1,2-Dichloroethane-d4	104	(67 - 131)
4-Bromofluorobenzene	94	(71 - 124)
Toluene-d8	95	(77 - 129)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

LOCKWOOD GREENE

Client Sample ID: SS-16

GC/MS Volatiles

Lot-Sample #...: D4D030176-008 Work Order #...: GDHQ51AA Matrix.....: SOLID
Date Sampled...: 04/01/04 14:40 Date Received..: 04/03/04
Prep Date.....: 04/12/04 Analysis Date..: 04/12/04
Prep Batch #...: 4104274 Analysis Time..: 17:16
Dilution Factor: 1
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	20	ug/kg
Benzene	ND	5.0	ug/kg
Bromodichloromethane	ND	5.0	ug/kg
Bromoform	ND	5.0	ug/kg
Bromomethane	ND	10	ug/kg
2-Butanone (MEK)	ND	20	ug/kg
Carbon tetrachloride	ND	5.0	ug/kg
Chlorobenzene	ND	5.0	ug/kg
Chloroethane	ND	10	ug/kg
Chloroform	ND	10	ug/kg
Chloromethane	ND	10	ug/kg
Dibromomethane	ND	5.0	ug/kg
1,2-Dibromoethane (EDB)	ND	5.0	ug/kg
1,2-Dichlorobenzene	ND	5.0	ug/kg
1,3-Dichlorobenzene	ND	5.0	ug/kg
1,4-Dichlorobenzene	ND	5.0	ug/kg
Dichlorodifluoromethane	ND	10	ug/kg
1,1-Dichloroethane	ND	5.0	ug/kg
1,2-Dichloroethane	ND	5.0	ug/kg
1,1-Dichloroethene	ND	5.0	ug/kg
1,2-Dichloroethene (total)	ND	5.0	ug/kg
cis-1,2-Dichloroethene	ND	2.5	ug/kg
trans-1,2-Dichloroethene	ND	2.5	ug/kg
1,2-Dichloropropane	ND	5.0	ug/kg
cis-1,3-Dichloropropene	ND	5.0	ug/kg
trans-1,3-Dichloropropene	ND	5.0	ug/kg
Ethylbenzene	ND	5.0	ug/kg
2-Hexanone	ND	20	ug/kg
Methylene chloride	ND	5.0	ug/kg
4-Methyl-2-pentanone	ND	20	ug/kg
Styrene	ND	5.0	ug/kg
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg
Tetrachloroethene	ND	5.0	ug/kg
Toluene	ND	5.0	ug/kg
1,2,4-Trichloro-benzene	ND	5.0	ug/kg

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LOCKWOOD GREENE

Client Sample ID: SS-16

GC/MS Volatiles

Lot-Sample #...: D4D030176-008 Work Order #...: GDHQ51AA Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
1,1,1-Trichloroethane	ND	5.0	ug/kg
1,1,2-Trichloroethane	ND	5.0	ug/kg
Trichloroethene	ND	5.0	ug/kg
Trichlorofluoromethane	ND	10	ug/kg
1,2,3-Trichloropropane	ND	5.0	ug/kg
Vinyl chloride	ND	5.0	ug/kg
Xylenes (total)	**1.4 J**	**5.0**	**ug/kg**
n-Butylbenzene	ND	5.0	ug/kg
sec-Butylbenzene	ND	5.0	ug/kg
Isopropylbenzene	ND	5.0	ug/kg
1,2,4-Trimethylbenzene	**0.48 J**	**5.0**	**ug/kg**
1,3,5-Trimethylbenzene	ND	5.0	ug/kg
n-Propylbenzene	ND	5.0	ug/kg
tert-Butylbenzene	ND	5.0	ug/kg
Dibromochloromethane	ND	5.0	ug/kg
2-Chlorotoluene	ND	5.0	ug/kg
4-Chlorotoluene	ND	5.0	ug/kg
1,2-Dibromo-3-chloropropane (DBCP)	ND	10	ug/kg
1,3-Dichloropropane	ND	5.0	ug/kg
2,2-Dichloropropane	ND	5.0	ug/kg
1,1-Dichloropropene	ND	5.0	ug/kg
Hexachlorobutadiene	ND	5.0	ug/kg
4-Isopropyltoluene	ND	5.0	ug/kg
Methyl tert-butyl ether	ND	20	ug/kg
1,2,3-Trichlorobenzene	ND	5.0	ug/kg
m-Xylene & p-Xylene	**0.99 J**	**2.5**	**ug/kg**
o-Xylene	**0.44 J**	**2.5**	**ug/kg**
Bromobenzene	ND	5.0	ug/kg
Bromochloromethane	ND	5.0	ug/kg
Naphthalene	**0.69 J,B**	**5.0**	**ug/kg**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	97	(71 - 136)
1,2-Dichloroethane-d4	103	(67 - 131)
4-Bromofluorobenzene	93	(71 - 124)
Toluene-d8	94	(77 - 129)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

LOCKWOOD GREENE

Client Sample ID: SS-2

GC/MS Semivolatiles

Lot-Sample #...: D4D030176-001 Work Order #...: GDHQL1AC Matrix.....: SOLID
Date Sampled...: 04/01/04 12:30 Date Received..: 04/03/04
Prep Date.....: 04/07/04 Analysis Date..: 04/22/04
Prep Batch #...: 4097621 Analysis Time..: 15:54
Dilution Factor: 1

Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acenaphthene	ND	340	ug/kg
Acenaphthylene	ND	340	ug/kg
Acetophenone	ND	340	ug/kg
2-Acetylaminofluorene	ND	3400	ug/kg
4-Aminobiphenyl	ND	1600	ug/kg
Aniline	ND	340	ug/kg
Anthracene	ND	340	ug/kg
Aramite	ND	670	ug/kg
Benzo(a)anthracene	ND	340	ug/kg
Benzo(b)fluoranthene	ND	340	ug/kg
Benzo(k)fluoranthene	ND	340	ug/kg
Benzo(ghi)perylene	ND	340	ug/kg
Benzo(a)pyrene	ND	340	ug/kg
Benzyl alcohol	ND	340	ug/kg
bis(2-Chloroethoxy) methane	ND	340	ug/kg
bis(2-Chloroethyl)-ether	ND	340	ug/kg
bis(2-Ethylhexyl) phthalate	ND	340	ug/kg
4-Bromophenyl phenyl ether	ND	340	ug/kg
Butyl benzyl phthalate	ND	340	ug/kg
4-Chloroaniline	ND	340	ug/kg
Chlorobenzilate	ND	340	ug/kg
4-Chloro-3-methylphenol	ND	340	ug/kg
2-Chloronaphthalene	ND	340	ug/kg
2-Chlorophenol	ND	340	ug/kg
4-Chlorophenyl phenyl ether	ND	340	ug/kg
Chrysene	ND	340	ug/kg
Diallate	ND	670	ug/kg
Dibenz(a,h)anthracene	ND	340	ug/kg
Dibenzofuran	ND	340	ug/kg
Di-n-butyl phthalate	ND	340	ug/kg
1,2-Dichlorobenzene	ND	340	ug/kg
1,3-Dichlorobenzene	ND	340	ug/kg
1,4-Dichlorobenzene	ND	340	ug/kg

(Continued on next page)

LOCKWOOD GREENE

Client Sample ID: SS-2

GC/MS Semivolatiles

Lot-Sample #...: D4D030176-001 Work Order #...: GDHQL1AC Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
3,3'-Dichlorobenzidine	ND	1600	ug/kg
2,4-Dichlorophenol	ND	340	ug/kg
2,6-Dichlorophenol	ND	340	ug/kg
Diethyl phthalate	ND	670	ug/kg
Dimethoate	ND	670	ug/kg
7,12-Dimethylbenz(a)-anthracene	ND	670	ug/kg
3,3'-Dimethylbenzidine	ND	670	ug/kg
2,4-Dimethylphenol	ND	340	ug/kg
Dimethyl phthalate	ND	340	ug/kg
1,3-Dinitrobenzene	ND	340	ug/kg
4,6-Dinitro-2-methylphenol	ND	1600	ug/kg
2,4-Dinitrophenol	ND	1600	ug/kg
2,4-Dinitrotoluene	ND	340	ug/kg
2,6-Dinitrotoluene	ND	340	ug/kg
Di-n-octyl phthalate	ND	340	ug/kg
Diphenylamine	ND	340	ug/kg
Disulfoton	ND	1600	ug/kg
Ethyl methanesulfonate	ND	340	ug/kg
Fluoranthene	ND	340	ug/kg
Fluorene	ND	340	ug/kg
Hexachlorobenzene	ND	340	ug/kg
Hexachlorobutadiene	ND	340	ug/kg
Hexachlorocyclopentadiene	ND	1600	ug/kg
Hexachloroethane	ND	340	ug/kg
Hexachloropropene	ND	3400	ug/kg
Indeno(1,2,3-cd)pyrene	ND	340	ug/kg
Isodrin	ND	340	ug/kg
Isophorone	ND	340	ug/kg
Isosafrole	ND	670	ug/kg
Methapyrilene	ND	1600	ug/kg
3-Methylcholanthrene	ND	670	ug/kg
Methyl methanesulfonate	ND	340	ug/kg
2-Methylnaphthalene	ND	340	ug/kg
Methyl parathion	ND	1600	ug/kg
2-Methylphenol	ND	340	ug/kg
3-Methylphenol & 4-Methylphenol	ND	340	ug/kg
Naphthalene	ND	340	ug/kg
1,4-Naphthoquinone	ND	1600	ug/kg
1-Naphthylamine	ND	340	ug/kg

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LOCKWOOD GREENE

Client Sample ID: SS-2

GC/MS Semivolatiles

Lot-Sample #...: D4D030176-001 Work Order #...: GDHQL1AC Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2-Naphthylamine	ND	340	ug/kg
2-Nitroaniline	ND	1600	ug/kg
3-Nitroaniline	ND	1600	ug/kg
4-Nitroaniline	ND	1600	ug/kg
Nitrobenzene	ND	340	ug/kg
2-Nitrophenol	ND	340	ug/kg
4-Nitrophenol	ND	1600	ug/kg
4-Nitroquinoline-1-oxide	ND	3400	ug/kg
N-Nitrosodi-n-butylamine	ND	340	ug/kg
N-Nitrosodiethylamine	ND	340	ug/kg
N-Nitrosodimethylamine	ND	340	ug/kg
N-Nitrosodiphenylamine	ND	340	ug/kg
N-Nitrosodi-n-propylamine	ND	340	ug/kg
N-Nitrosomethylethylamine	ND	340	ug/kg
N-Nitrosomorpholine	ND	340	ug/kg
N-Nitrosopiperidine	ND	340	ug/kg
N-Nitrosopyrrolidine	ND	340	ug/kg
5-Nitro-o-toluidine	ND	670	ug/kg
Parathion	ND	1600	ug/kg
Pentachlorobenzene	ND	340	ug/kg
Pentachloroethane	ND	1600	ug/kg
Pentachloronitrobenzene	ND	1600	ug/kg
Pentachlorophenol	ND	1600	ug/kg
Phenacetin	ND	670	ug/kg
Phenanthrene	ND	340	ug/kg
Phenol	ND	340	ug/kg
Phorate	ND	1600	ug/kg
2-Picoline	ND	670	ug/kg
Pronamide	ND	670	ug/kg
Pyrene	ND	340	ug/kg
Pyridine	ND	670	ug/kg
1,2,4,5-Tetrachlorobenzene	ND	340	ug/kg
2,3,4,6-Tetrachlorophenol	ND	1600	ug/kg
Thionazin	ND	1600	ug/kg
o-Toluidine	ND	670	ug/kg
1,2,4-Trichlorobenzene	ND	340	ug/kg
2,4,5-Trichlorophenol	ND	340	ug/kg
2,4,6-Trichlorophenol	ND	340	ug/kg

(Continued on next page)

LOCKWOOD GREENE

Client Sample ID: SS-2

GC/MS Semivolatiles

Lot-Sample #...: D4D030176-001 Work Order #...: GDHQL1AC Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
O,O,O-Triethylphosphorothioate	ND	1600	ug/kg
1,3,5-Trinitrobenzene	ND	1600	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	76	(28 - 95)
Phenol-d5	75	(35 - 90)
Nitrobenzene-d5	75	(39 - 89)
2-Fluorobiphenyl	69	(35 - 86)
2,4,6-Tribromophenol	71	(11 - 111)
Terphenyl-d14	79	(30 - 98)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

LOCKWOOD GREENE

Client Sample ID: SS-6

GC/MS Semivolatiles

Lot-Sample #...: D4D030176-002 Work Order #...: GDHQX1AC Matrix.....: SOLID
Date Sampled...: 04/01/04 10:40 Date Received..: 04/03/04
Prep Date.....: 04/07/04 Analysis Date..: 04/22/04
Prep Batch #...: 4097621 Analysis Time..: 16:20
Dilution Factor: 1

Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acenaphthene	ND	330	ug/kg
Acenaphthylene	ND	330	ug/kg
Acetophenone	ND	330	ug/kg
2-Acetylaminofluorene	ND	3300	ug/kg
4-Aminobiphenyl	ND	1600	ug/kg
Aniline	ND	330	ug/kg
Anthracene	ND	330	ug/kg
Aramite	ND	670	ug/kg
Benzo(a)anthracene	ND	330	ug/kg
Benzo(b)fluoranthene	ND	330	ug/kg
Benzo(k)fluoranthene	ND	330	ug/kg
Benzo(ghi)perylene	ND	330	ug/kg
Benzo(a)pyrene	ND	330	ug/kg
Benzyl alcohol	ND	330	ug/kg
bis(2-Chloroethoxy) methane	ND	330	ug/kg
bis(2-Chloroethyl)-ether	ND	330	ug/kg
bis(2-Ethylhexyl) phthalate	ND	330	ug/kg
4-Bromophenyl phenyl ether	ND	330	ug/kg
Butyl benzyl phthalate	ND	330	ug/kg
4-Chloroaniline	ND	330	ug/kg
Chlorobenzilate	ND	330	ug/kg
4-Chloro-3-methylphenol	ND	330	ug/kg
2-Chloronaphthalene	ND	330	ug/kg
2-Chlorophenol	ND	330	ug/kg
4-Chlorophenyl phenyl ether	ND	330	ug/kg
Chrysene	ND	330	ug/kg
Diallate	ND	670	ug/kg
Dibenz(a,h)anthracene	ND	330	ug/kg
Dibenzofuran	ND	330	ug/kg
Di-n-butyl phthalate	ND	330	ug/kg
1,2-Dichlorobenzene	ND	330	ug/kg
1,3-Dichlorobenzene	ND	330	ug/kg
1,4-Dichlorobenzene	ND	330	ug/kg

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LOCKWOOD GREENE

Client Sample ID: SS-6

GC/MS Semivolatiles

Lot-Sample #...: D4D030176-002 Work Order #...: GDHQX1AC Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
3,3'-Dichlorobenzidine	ND	1600	ug/kg
2,4-Dichlorophenol	ND	330	ug/kg
2,6-Dichlorophenol	ND	330	ug/kg
Diethyl phthalate	ND	670	ug/kg
Dimethoate	ND	670	ug/kg
7,12-Dimethylbenz(a)-anthracene	ND	670	ug/kg
3,3'-Dimethylbenzidine	ND	670	ug/kg
2,4-Dimethylphenol	ND	330	ug/kg
Dimethyl phthalate	ND	330	ug/kg
1,3-Dinitrobenzene	ND	330	ug/kg
4,6-Dinitro-2-methylphenol	ND	1600	ug/kg
2,4-Dinitrophenol	ND	1600	ug/kg
2,4-Dinitrotoluene	ND	330	ug/kg
2,6-Dinitrotoluene	ND	330	ug/kg
Di-n-octyl phthalate	ND	330	ug/kg
Diphenylamine	ND	330	ug/kg
Disulfoton	ND	1600	ug/kg
Ethyl methanesulfonate	ND	330	ug/kg
Fluoranthene	ND	330	ug/kg
Fluorene	ND	330	ug/kg
Hexachlorobenzene	ND	330	ug/kg
Hexachlorobutadiene	ND	330	ug/kg
Hexachlorocyclopenta-diene	ND	1600	ug/kg
Hexachloroethane	ND	330	ug/kg
Hexachloropropene	ND	3300	ug/kg
Indeno(1,2,3-cd)pyrene	ND	330	ug/kg
Isodrin	ND	330	ug/kg
Isophorone	ND	330	ug/kg
Isosafrole	ND	670	ug/kg
Methapyrilene	ND	1600	ug/kg
3-Methylcholanthrene	ND	670	ug/kg
Methyl methanesulfonate	ND	330	ug/kg
2-Methylnaphthalene	ND	330	ug/kg
Methyl parathion	ND	1600	ug/kg
2-Methylphenol	ND	330	ug/kg
3-Methylphenol & 4-Methylphenol	ND	330	ug/kg
Naphthalene	ND	330	ug/kg
1,4-Naphthoquinone	ND	1600	ug/kg
1-Naphthylamine	ND	330	ug/kg

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LOCKWOOD GREENE

Client Sample ID: SS-6

GC/MS Semivolatiles

Lot-Sample #...: D4D030176-002 Work Order #...: GDHQX1AC Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2-Naphthylamine	ND	330	ug/kg
2-Nitroaniline	ND	1600	ug/kg
3-Nitroaniline	ND	1600	ug/kg
4-Nitroaniline	ND	1600	ug/kg
Nitrobenzene	ND	330	ug/kg
2-Nitrophenol	ND	330	ug/kg
4-Nitrophenol	ND	1600	ug/kg
4-Nitroquinoline-1-oxide	ND	3300	ug/kg
N-Nitrosodi-n-butylamine	ND	330	ug/kg
N-Nitrosodiethylamine	ND	330	ug/kg
N-Nitrosodimethylamine	ND	330	ug/kg
N-Nitrosodiphenylamine	ND	330	ug/kg
N-Nitrosodi-n-propylamine	ND	330	ug/kg
N-Nitrosomethylethylamine	ND	330	ug/kg
N-Nitrosomorpholine	ND	330	ug/kg
N-Nitrosopiperidine	ND	330	ug/kg
N-Nitrosopyrrolidine	ND	330	ug/kg
5-Nitro-o-toluidine	ND	670	ug/kg
Parathion	ND	1600	ug/kg
Pentachlorobenzene	ND	330	ug/kg
Pentachloroethane	ND	1600	ug/kg
Pentachloronitrobenzene	ND	1600	ug/kg
Pentachlorophenol	ND	1600	ug/kg
Phenacetin	ND	670	ug/kg
Phenanthrene	ND	330	ug/kg
Phenol	ND	330	ug/kg
Phorate	ND	1600	ug/kg
2-Picoline	ND	670	ug/kg
Pronamide	ND	670	ug/kg
Pyrene	ND	330	ug/kg
Pyridine	ND	670	ug/kg
1,2,4,5-Tetrachlorobenzene	ND	330	ug/kg
2,3,4,6-Tetrachlorophenol	ND	1600	ug/kg
Thionazin	ND	1600	ug/kg
o-Toluidine	ND	670	ug/kg
1,2,4-Trichlorobenzene	ND	330	ug/kg
2,4,5-Trichlorophenol	ND	330	ug/kg
2,4,6-Trichlorophenol	ND	330	ug/kg

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LOCKWOOD GREENE

Client Sample ID: SS-6

GC/MS Semivolatiles

Lot-Sample #...: D4D030176-002 Work Order #...: GDHQX1AC Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
O,O,O-Triethylphosphorothioate	ND	1600	ug/kg
1,3,5-Trinitrobenzene	ND	1600	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	71	(28 - 95)
Phenol-d5	71	(35 - 90)
Nitrobenzene-d5	71	(39 - 89)
2-Fluorobiphenyl	65	(35 - 86)
2,4,6-Tribromophenol	66	(11 - 111)
Terphenyl-d14	79	(30 - 98)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

LOCKWOOD GREENE

Client Sample ID: SS-9

GC/MS Semivolatiles

Lot-Sample #...: D4D030176-003 Work Order #...: GDHQ01AC Matrix.....: SOLID
Date Sampled...: 04/01/04 15:15 Date Received..: 04/03/04
Prep Date.....: 04/07/04 Analysis Date..: 04/22/04
Prep Batch #...: 4097621 Analysis Time..: 16:47
Dilution Factor: 1
Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acenaphthene	ND	330	ug/kg
Acenaphthylene	ND	330	ug/kg
Acetophenone	ND	330	ug/kg
2-Acetylaminofluorene	ND	3300	ug/kg
4-Aminobiphenyl	ND	1600	ug/kg
Aniline	ND	330	ug/kg
Anthracene	ND	330	ug/kg
Aramite	ND	670	ug/kg
Benzo(a)anthracene	ND	330	ug/kg
Benzo(b)fluoranthene	ND	330	ug/kg
Benzo(k)fluoranthene	ND	330	ug/kg
Benzo(ghi)perylene	ND	330	ug/kg
Benzo(a)pyrene	ND	330	ug/kg
Benzyl alcohol	ND	330	ug/kg
bis(2-Chloroethoxy) methane	ND	330	ug/kg
bis(2-Chloroethyl)-ether	ND	330	ug/kg
bis(2-Ethylhexyl) phthalate	ND	330	ug/kg
4-Bromophenyl phenyl ether	ND	330	ug/kg
Butyl benzyl phthalate	ND	330	ug/kg
4-Chloroaniline	ND	330	ug/kg
Chlorobenzilate	ND	330	ug/kg
4-Chloro-3-methylphenol	ND	330	ug/kg
2-Chloronaphthalene	ND	330	ug/kg
2-Chlorophenol	ND	330	ug/kg
4-Chlorophenyl phenyl ether	ND	330	ug/kg
Chrysene	ND	330	ug/kg
Diallate	ND	670	ug/kg
Dibenz(a,h)anthracene	ND	330	ug/kg
Dibenzofuran	ND	330	ug/kg
Di-n-butyl phthalate	ND	330	ug/kg
1,2-Dichlorobenzene	ND	330	ug/kg
1,3-Dichlorobenzene	ND	330	ug/kg
1,4-Dichlorobenzene	ND	330	ug/kg

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LOCKWOOD GREENE

Client Sample ID: SS-9

GC/MS Semivolatiles

Lot-Sample #...: D4D030176-003 Work Order #...: GDHQ01AC Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
3,3'-Dichlorobenzidine	ND	1600	ug/kg
2,4-Dichlorophenol	ND	330	ug/kg
2,6-Dichlorophenol	ND	330	ug/kg
Diethyl phthalate	ND	670	ug/kg
Dimethoate	ND	670	ug/kg
7,12-Dimethylbenz(a)-anthracene	ND	670	ug/kg
3,3'-Dimethylbenzidine	ND	670	ug/kg
2,4-Dimethylphenol	ND	330	ug/kg
Dimethyl phthalate	ND	330	ug/kg
1,3-Dinitrobenzene	ND	330	ug/kg
4,6-Dinitro-2-methylphenol	ND	1600	ug/kg
2,4-Dinitrophenol	ND	1600	ug/kg
2,4-Dinitrotoluene	ND	330	ug/kg
2,6-Dinitrotoluene	ND	330	ug/kg
Di-n-octyl phthalate	ND	330	ug/kg
Diphenylamine	ND	330	ug/kg
Disulfoton	ND	1600	ug/kg
Ethyl methanesulfonate	ND	330	ug/kg
Fluoranthene	ND	330	ug/kg
Fluorene	ND	330	ug/kg
Hexachlorobenzene	ND	330	ug/kg
Hexachlorobutadiene	ND	330	ug/kg
Hexachlorocyclopentadiene	ND	1600	ug/kg
Hexachloroethane	ND	330	ug/kg
Hexachloropropene	ND	3300	ug/kg
Indeno(1,2,3-cd)pyrene	ND	330	ug/kg
Isodrin	ND	330	ug/kg
Isophorone	ND	330	ug/kg
Isosafrole	ND	670	ug/kg
Methapyrilene	ND	1600	ug/kg
3-Methylcholanthrene	ND	670	ug/kg
Methyl methanesulfonate	ND	330	ug/kg
2-Methylnaphthalene	ND	330	ug/kg
Methyl parathion	ND	1600	ug/kg
2-Methylphenol	ND	330	ug/kg
3-Methylphenol & 4-Methylphenol	ND	330	ug/kg
Naphthalene	ND	330	ug/kg
1,4-Naphthoquinone	ND	1600	ug/kg
1-Naphthylamine	ND	330	ug/kg

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LOCKWOOD GREENE

Client Sample ID: SS-9

GC/MS Semivolatiles

Lot-Sample #...: D4D030176-003 Work Order #...: GDHQ01AC Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2-Naphthylamine	ND	330	ug/kg
2-Nitroaniline	ND	1600	ug/kg
3-Nitroaniline	ND	1600	ug/kg
4-Nitroaniline	ND	1600	ug/kg
Nitrobenzene	ND	330	ug/kg
2-Nitrophenol	ND	330	ug/kg
4-Nitrophenol	ND	1600	ug/kg
4-Nitroquinoline-1-oxide	ND	3300	ug/kg
N-Nitrosodi-n-butylamine	ND	330	ug/kg
N-Nitrosodiethylamine	ND	330	ug/kg
N-Nitrosodimethylamine	ND	330	ug/kg
N-Nitrosodiphenylamine	ND	330	ug/kg
N-Nitrosodi-n-propylamine	ND	330	ug/kg
N-Nitrosomethylethylamine	ND	330	ug/kg
N-Nitrosomorpholine	ND	330	ug/kg
N-Nitrosopiperidine	ND	330	ug/kg
N-Nitrosopyrrolidine	ND	330	ug/kg
5-Nitro-o-toluidine	ND	670	ug/kg
Parathion	ND	1600	ug/kg
Pentachlorobenzene	ND	330	ug/kg
Pentachloroethane	ND	1600	ug/kg
Pentachloronitrobenzene	ND	1600	ug/kg
Pentachlorophenol	ND	1600	ug/kg
Phenacetin	ND	670	ug/kg
Phenanthrene	ND	330	ug/kg
Phenol	ND	330	ug/kg
Phorate	ND	1600	ug/kg
2-Picoline	ND	670	ug/kg
Pronamide	ND	670	ug/kg
Pyrene	ND	330	ug/kg
Pyridine	ND	670	ug/kg
1,2,4,5-Tetrachlorobenzene	ND	330	ug/kg
2,3,4,6-Tetrachlorophenol	ND	1600	ug/kg
Thionazin	ND	1600	ug/kg
o-Toluidine	ND	670	ug/kg
1,2,4-Trichlorobenzene	ND	330	ug/kg
2,4,5-Trichlorophenol	ND	330	ug/kg
2,4,6-Trichlorophenol	ND	330	ug/kg

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LOCKWOOD GREENE

Client Sample ID: SS-9

GC/MS Semivolatiles

Lot-Sample #...: D4D030176-003 Work Order #...: GDHQ01AC Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
O,O,O-Triethylphosphorothioate	ND	1600	ug/kg
1,3,5-Trinitrobenzene	ND	1600	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	73	(28 - 95)
Phenol-d5	74	(35 - 90)
Nitrobenzene-d5	73	(39 - 89)
2-Fluorobiphenyl	67	(35 - 86)
2,4,6-Tribromophenol	72	(11 - 111)
Terphenyl-d14	74	(30 - 98)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

LOCKWOOD GREENE

Client Sample ID: SS-11

GC/MS Semivolatiles

Lot-Sample #...: D4D030176-004 Work Order #...: GDHQ11AC Matrix.....: SOLID
Date Sampled...: 04/01/04 10:00 Date Received..: 04/03/04
Prep Date.....: 04/07/04 Analysis Date..: 04/22/04
Prep Batch #...: 4097621 Analysis Time..: 17:13
Dilution Factor: 1

Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acenaphthene	ND	330	ug/kg
Acenaphthylene	ND	330	ug/kg
Acetophenone	ND	330	ug/kg
2-Acetylaminofluorene	ND	3300	ug/kg
4-Aminobiphenyl	ND	1600	ug/kg
Aniline	ND	330	ug/kg
Anthracene	ND	330	ug/kg
Aramite	ND	670	ug/kg
Benzo(a)anthracene	ND	330	ug/kg
Benzo(b)fluoranthene	ND	330	ug/kg
Benzo(k)fluoranthene	ND	330	ug/kg
Benzo(ghi)perylene	ND	330	ug/kg
Benzo(a)pyrene	ND	330	ug/kg
Benzyl alcohol	ND	330	ug/kg
bis(2-Chloroethoxy) methane	ND	330	ug/kg
bis(2-Chloroethyl)-ether	ND	330	ug/kg
bis(2-Ethylhexyl) phthalate	ND	330	ug/kg
4-Bromophenyl phenyl ether	ND	330	ug/kg
Butyl benzyl phthalate	ND	330	ug/kg
4-Chloroaniline	ND	330	ug/kg
Chlorobenzilate	ND	330	ug/kg
4-Chloro-3-methylphenol	ND	330	ug/kg
2-Chloronaphthalene	ND	330	ug/kg
2-Chlorophenol	ND	330	ug/kg
4-Chlorophenyl phenyl ether	ND	330	ug/kg
Chrysene	ND	330	ug/kg
Diallate	ND	670	ug/kg
Dibenz(a,h)anthracene	ND	330	ug/kg
Dibenzofuran	ND	330	ug/kg
Di-n-butyl phthalate	ND	330	ug/kg
1,2-Dichlorobenzene	ND	330	ug/kg
1,3-Dichlorobenzene	ND	330	ug/kg
1,4-Dichlorobenzene	ND	330	ug/kg

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LOCKWOOD GREENE

Client Sample ID: SS-11

GC/MS Semivolatiles

Lot-Sample #...: D4D030176-004 Work Order #...: GDHQ11AC Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
3,3'-Dichlorobenzidine	ND	1600	ug/kg
2,4-Dichlorophenol	ND	330	ug/kg
2,6-Dichlorophenol	ND	330	ug/kg
Diethyl phthalate	ND	670	ug/kg
Dimethoate	ND	670	ug/kg
7,12-Dimethylbenz(a)-anthracene	ND	670	ug/kg
3,3'-Dimethylbenzidine	ND	670	ug/kg
2,4-Dimethylphenol	ND	330	ug/kg
Dimethyl phthalate	ND	330	ug/kg
1,3-Dinitrobenzene	ND	330	ug/kg
4,6-Dinitro-2-methylphenol	ND	1600	ug/kg
2,4-Dinitrophenol	ND	1600	ug/kg
2,4-Dinitrotoluene	ND	330	ug/kg
2,6-Dinitrotoluene	ND	330	ug/kg
Di-n-octyl phthalate	ND	330	ug/kg
Diphenylamine	ND	330	ug/kg
Disulfoton	ND	1600	ug/kg
Ethyl methanesulfonate	ND	330	ug/kg
Fluoranthene	ND	330	ug/kg
Fluorene	ND	330	ug/kg
Hexachlorobenzene	ND	330	ug/kg
Hexachlorobutadiene	ND	330	ug/kg
Hexachlorocyclopentadiene	ND	1600	ug/kg
Hexachloroethane	ND	330	ug/kg
Hexachloropropene	ND	3300	ug/kg
Indeno(1,2,3-cd)pyrene	ND	330	ug/kg
Isodrin	ND	330	ug/kg
Isophorone	ND	330	ug/kg
Isosafrole	ND	670	ug/kg
Methapyrilene	ND	1600	ug/kg
3-Methylcholanthrene	ND	670	ug/kg
Methyl methanesulfonate	ND	330	ug/kg
2-Methylnaphthalene	ND	330	ug/kg
Methyl parathion	ND	1600	ug/kg
2-Methylphenol	ND	330	ug/kg
3-Methylphenol & 4-Methylphenol	ND	330	ug/kg
Naphthalene	ND	330	ug/kg
1,4-Naphthoquinone	ND	1600	ug/kg
1-Naphthylamine	ND	330	ug/kg

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LOCKWOOD GREENE

Client Sample ID: SS-11

GC/MS Semivolatiles

Lot-Sample #...: D4D030176-004 Work Order #...: GDHQ11AC Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2-Naphthylamine	ND	330	ug/kg
2-Nitroaniline	ND	1600	ug/kg
3-Nitroaniline	ND	1600	ug/kg
4-Nitroaniline	ND	1600	ug/kg
Nitrobenzene	ND	330	ug/kg
2-Nitrophenol	ND	330	ug/kg
4-Nitrophenol	ND	1600	ug/kg
4-Nitroquinoline-1-oxide	ND	3300	ug/kg
N-Nitrosodi-n-butylamine	ND	330	ug/kg
N-Nitrosodiethylamine	ND	330	ug/kg
N-Nitrosodimethylamine	ND	330	ug/kg
N-Nitrosodiphenylamine	ND	330	ug/kg
N-Nitrosodi-n-propylamine	ND	330	ug/kg
N-Nitrosomethylethylamine	ND	330	ug/kg
N-Nitrosomorpholine	ND	330	ug/kg
N-Nitrosopiperidine	ND	330	ug/kg
N-Nitrosopyrrolidine	ND	330	ug/kg
5-Nitro-o-toluidine	ND	670	ug/kg
Parathion	ND	1600	ug/kg
Pentachlorobenzene	ND	330	ug/kg
Pentachloroethane	ND	1600	ug/kg
Pentachloronitrobenzene	ND	1600	ug/kg
Pentachlorophenol	ND	1600	ug/kg
Phenacetin	ND	670	ug/kg
Phenanthrene	ND	330	ug/kg
Phenol	ND	330	ug/kg
Phorate	ND	1600	ug/kg
2-Picoline	ND	670	ug/kg
Pronamide	ND	670	ug/kg
Pyrene	ND	330	ug/kg
Pyridine	ND	670	ug/kg
1,2,4,5-Tetrachlorobenzene	ND	330	ug/kg
2,3,4,6-Tetrachlorophenol	ND	1600	ug/kg
Thionazin	ND	1600	ug/kg
o-Toluidine	ND	670	ug/kg
1,2,4-Trichlorobenzene	ND	330	ug/kg
2,4,5-Trichlorophenol	ND	330	ug/kg
2,4,6-Trichlorophenol	ND	330	ug/kg

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LOCKWOOD GREENE

Client Sample ID: SS-11

GC/MS Semivolatiles

Lot-Sample #...: D4D030176-004 Work Order #...: GDHQ11AC Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
O,O,O-Triethylphosphorothioate	ND	1600	ug/kg
1,3,5-Trinitrobenzene	ND	1600	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	74	(28 - 95)
Phenol-d5	75	(35 - 90)
Nitrobenzene-d5	74	(39 - 89)
2-Fluorobiphenyl	67	(35 - 86)
2,4,6-Tribromophenol	70	(11 - 111)
Terphenyl-d14	75	(30 - 98)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

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Client Sample ID: SS-12

GC/MS Semivolatiles

Lot-Sample #...: D4D030176-005 Work Order #...: GDHQ21AC Matrix.....: SOLID
Date Sampled...: 04/01/04 15:40 Date Received..: 04/03/04
Prep Date.....: 04/07/04 Analysis Date..: 04/22/04
Prep Batch #...: 4097621 Analysis Time..: 17:40
Dilution Factor: 1

Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acenaphthene	ND	340	ug/kg
Acenaphthylene	ND	340	ug/kg
Acetophenone	ND	340	ug/kg
2-Acetylaminofluorene	ND	3400	ug/kg
4-Aminobiphenyl	ND	1600	ug/kg
Aniline	ND	340	ug/kg
Anthracene	ND	340	ug/kg
Aramite	ND	670	ug/kg
Benzo(a)anthracene	ND	340	ug/kg
Benzo(b)fluoranthene	ND	340	ug/kg
Benzo(k)fluoranthene	ND	340	ug/kg
Benzo(ghi)perylene	ND	340	ug/kg
Benzo(a)pyrene	ND	340	ug/kg
Benzyl alcohol	ND	340	ug/kg
bis(2-Chloroethoxy) methane	ND	340	ug/kg
bis(2-Chloroethyl)-ether	ND	340	ug/kg
bis(2-Ethylhexyl) phthalate	ND	340	ug/kg
4-Bromophenyl phenyl ether	ND	340	ug/kg
Butyl benzyl phthalate	ND	340	ug/kg
4-Chloroaniline	ND	340	ug/kg
Chlorobenzilate	ND	340	ug/kg
4-Chloro-3-methylphenol	ND	340	ug/kg
2-Chloronaphthalene	ND	340	ug/kg
2-Chlorophenol	ND	340	ug/kg
4-Chlorophenyl phenyl ether	ND	340	ug/kg
Chrysene	ND	340	ug/kg
Diallate	ND	670	ug/kg
Dibenz(a,h)anthracene	ND	340	ug/kg
Dibenzofuran	ND	340	ug/kg
Di-n-butyl phthalate	ND	340	ug/kg
1,2-Dichlorobenzene	ND	340	ug/kg
1,3-Dichlorobenzene	ND	340	ug/kg
1,4-Dichlorobenzene	ND	340	ug/kg

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LOCKWOOD GREENE

Client Sample ID: SS-12

GC/MS Semivolatiles

Lot-Sample #...: D4D030176-005 Work Order #...: GDHQ21AC Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
3,3'-Dichlorobenzidine	ND	1600	ug/kg
2,4-Dichlorophenol	ND	340	ug/kg
2,6-Dichlorophenol	ND	340	ug/kg
Diethyl phthalate	ND	670	ug/kg
Dimethoate	ND	670	ug/kg
7,12-Dimethylbenz(a)-anthracene	ND	670	ug/kg
3,3'-Dimethylbenzidine	ND	670	ug/kg
2,4-Dimethylphenol	ND	340	ug/kg
Dimethyl phthalate	ND	340	ug/kg
1,3-Dinitrobenzene	ND	340	ug/kg
4,6-Dinitro-2-methylphenol	ND	1600	ug/kg
2,4-Dinitrophenol	ND	1600	ug/kg
2,4-Dinitrotoluene	ND	340	ug/kg
2,6-Dinitrotoluene	ND	340	ug/kg
Di-n-octyl phthalate	ND	340	ug/kg
Diphenylamine	ND	340	ug/kg
Disulfoton	ND	1600	ug/kg
Ethyl methanesulfonate	ND	340	ug/kg
Fluoranthene	ND	340	ug/kg
Fluorene	ND	340	ug/kg
Hexachlorobenzene	ND	340	ug/kg
Hexachlorobutadiene	ND	340	ug/kg
Hexachlorocyclopenta-diene	ND	1600	ug/kg
Hexachloroethane	ND	340	ug/kg
Hexachloropropene	ND	3400	ug/kg
Indeno(1,2,3-cd)pyrene	ND	340	ug/kg
Isodrin	ND	340	ug/kg
Isophorone	ND	340	ug/kg
Isosafrole	ND	670	ug/kg
Methapyrilene	ND	1600	ug/kg
3-Methylcholanthrene	ND	670	ug/kg
Methyl methanesulfonate	ND	340	ug/kg
2-Methylnaphthalene	ND	340	ug/kg
Methyl parathion	ND	1600	ug/kg
2-Methylphenol	ND	340	ug/kg
3-Methylphenol & 4-Methylphenol	ND	340	ug/kg
Naphthalene	ND	340	ug/kg
1,4-Naphthoquinone	ND	1600	ug/kg
1-Naphthylamine	ND	340	ug/kg

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LOCKWOOD GREENE

Client Sample ID: SS-12

GC/MS Semivolatiles

Lot-Sample #...: D4D030176-005 Work Order #...: GDHQ21AC Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2-Naphthylamine	ND	340	ug/kg
2-Nitroaniline	ND	1600	ug/kg
3-Nitroaniline	ND	1600	ug/kg
4-Nitroaniline	ND	1600	ug/kg
Nitrobenzene	ND	340	ug/kg
2-Nitrophenol	ND	340	ug/kg
4-Nitrophenol	ND	1600	ug/kg
4-Nitroquinoline-1-oxide	ND	3400	ug/kg
N-Nitrosodi-n-butylamine	ND	340	ug/kg
N-Nitrosodiethylamine	ND	340	ug/kg
N-Nitrosodimethylamine	ND	340	ug/kg
N-Nitrosodiphenylamine	ND	340	ug/kg
N-Nitrosodi-n-propylamine	ND	340	ug/kg
N-Nitrosomethylethylamine	ND	340	ug/kg
N-Nitrosomorpholine	ND	340	ug/kg
N-Nitrosopiperidine	ND	340	ug/kg
N-Nitrosopyrrolidine	ND	340	ug/kg
5-Nitro-o-toluidine	ND	670	ug/kg
Parathion	ND	1600	ug/kg
Pentachlorobenzene	ND	340	ug/kg
Pentachloroethane	ND	1600	ug/kg
Pentachloronitrobenzene	ND	1600	ug/kg
Pentachlorophenol	ND	1600	ug/kg
Phenacetin	ND	670	ug/kg
Phenanthrene	ND	340	ug/kg
Phenol	ND	340	ug/kg
Phorate	ND	1600	ug/kg
2-Picoline	ND	670	ug/kg
Pronamide	ND	670	ug/kg
Pyrene	ND	340	ug/kg
Pyridine	ND	670	ug/kg
1,2,4,5-Tetrachlorobenzene	ND	340	ug/kg
2,3,4,6-Tetrachlorophenol	ND	1600	ug/kg
Thionazin	ND	1600	ug/kg
o-Toluidine	ND	670	ug/kg
1,2,4-Trichlorobenzene	ND	340	ug/kg
2,4,5-Trichlorophenol	ND	340	ug/kg
2,4,6-Trichlorophenol	ND	340	ug/kg

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LOCKWOOD GREENE

Client Sample ID: SS-12

GC/MS Semivolatiles

Lot-Sample #...: D4D030176-005 Work Order #...: GDHQ21AC Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
O,O,O-Triethylphosphorothioate	ND	1600	ug/kg
1,3,5-Trinitrobenzene	ND	1600	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	75	(28 - 95)
Phenol-d5	75	(35 - 90)
Nitrobenzene-d5	75	(39 - 89)
2-Fluorobiphenyl	69	(35 - 86)
2,4,6-Tribromophenol	72	(11 - 111)
Terphenyl-d14	81	(30 - 98)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

LOCKWOOD GREENE

Client Sample ID: SS-13

GC/MS Semivolatiles

Lot-Sample #...: D4D030176-006 Work Order #...: GDHQ31AC Matrix.....: SOLID
Date Sampled...: 04/01/04 16:10 Date Received..: 04/03/04
Prep Date.....: 04/07/04 Analysis Date..: 04/22/04
Prep Batch #...: 4097621 Analysis Time..: 18:07
Dilution Factor: 1

Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acenaphthene	ND	330	ug/kg
Acenaphthylene	ND	330	ug/kg
Acetophenone	ND	330	ug/kg
2-Acetylaminofluorene	ND	3300	ug/kg
4-Aminobiphenyl	ND	1600	ug/kg
Aniline	ND	330	ug/kg
Anthracene	ND	330	ug/kg
Aramite	ND	670	ug/kg
Benzo(a)anthracene	ND	330	ug/kg
Benzo(b)fluoranthene	ND	330	ug/kg
Benzo(k)fluoranthene	ND	330	ug/kg
Benzo(ghi)perylene	ND	330	ug/kg
Benzo(a)pyrene	ND	330	ug/kg
Benzyl alcohol	ND	330	ug/kg
bis(2-Chloroethoxy) methane	ND	330	ug/kg
bis(2-Chloroethyl)-ether	ND	330	ug/kg
bis(2-Ethylhexyl) phthalate	ND	330	ug/kg
4-Bromophenyl phenyl ether	ND	330	ug/kg
Butyl benzyl phthalate	ND	330	ug/kg
4-Chloroaniline	ND	330	ug/kg
Chlorobenzilate	ND	330	ug/kg
4-Chloro-3-methylphenol	ND	330	ug/kg
2-Chloronaphthalene	ND	330	ug/kg
2-Chlorophenol	ND	330	ug/kg
4-Chlorophenyl phenyl ether	ND	330	ug/kg
Chrysene	ND	330	ug/kg
Diallate	ND	670	ug/kg
Dibenz(a,h)anthracene	ND	330	ug/kg
Dibenzofuran	ND	330	ug/kg
Di-n-butyl phthalate	ND	330	ug/kg
1,2-Dichlorobenzene	ND	330	ug/kg
1,3-Dichlorobenzene	ND	330	ug/kg
1,4-Dichlorobenzene	ND	330	ug/kg

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LOCKWOOD GREENE

Client Sample ID: SS-13

GC/MS Semivolatiles

Lot-Sample #...: D4D030176-006 Work Order #...: GDHQ31AC Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
3,3'-Dichlorobenzidine	ND	1600	ug/kg
2,4-Dichlorophenol	ND	330	ug/kg
2,6-Dichlorophenol	ND	330	ug/kg
Diethyl phthalate	ND	670	ug/kg
Dimethoate	ND	670	ug/kg
7,12-Dimethylbenz(a)-anthracene	ND	670	ug/kg
3,3'-Dimethylbenzidine	ND	670	ug/kg
2,4-Dimethylphenol	ND	330	ug/kg
Dimethyl phthalate	ND	330	ug/kg
1,3-Dinitrobenzene	ND	330	ug/kg
4,6-Dinitro-2-methylphenol	ND	1600	ug/kg
2,4-Dinitrophenol	ND	1600	ug/kg
2,4-Dinitrotoluene	ND	330	ug/kg
2,6-Dinitrotoluene	ND	330	ug/kg
Di-n-octyl phthalate	ND	330	ug/kg
Diphenylamine	ND	330	ug/kg
Disulfoton	ND	1600	ug/kg
Ethyl methanesulfonate	ND	330	ug/kg
Fluoranthene	ND	330	ug/kg
Fluorene	ND	330	ug/kg
Hexachlorobenzene	ND	330	ug/kg
Hexachlorobutadiene	ND	330	ug/kg
Hexachlorocyclopenta-diene	ND	1600	ug/kg
Hexachloroethane	ND	330	ug/kg
Hexachloropropene	ND	3300	ug/kg
Indeno(1,2,3-cd)pyrene	ND	330	ug/kg
Isodrin	ND	330	ug/kg
Isophorone	ND	330	ug/kg
Isosafrole	ND	670	ug/kg
Methapyrilene	ND	1600	ug/kg
3-Methylcholanthrene	ND	670	ug/kg
Methyl methanesulfonate	ND	330	ug/kg
2-Methylnaphthalene	ND	330	ug/kg
Methyl parathion	ND	1600	ug/kg
2-Methylphenol	ND	330	ug/kg
3-Methylphenol & 4-Methylphenol	ND	330	ug/kg
Naphthalene	ND	330	ug/kg
1,4-Naphthoquinone	ND	1600	ug/kg
1-Naphthylamine	ND	330	ug/kg

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LOCKWOOD GREENE

Client Sample ID: SS-13

GC/MS Semivolatiles

Lot-Sample #...: D4D030176-006 Work Order #...: GDHQ31AC Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2-Naphthylamine	ND	330	ug/kg
2-Nitroaniline	ND	1600	ug/kg
3-Nitroaniline	ND	1600	ug/kg
4-Nitroaniline	ND	1600	ug/kg
Nitrobenzene	ND	330	ug/kg
2-Nitrophenol	ND	330	ug/kg
4-Nitrophenol	ND	1600	ug/kg
4-Nitroquinoline-1-oxide	ND	3300	ug/kg
N-Nitrosodi-n-butylamine	ND	330	ug/kg
N-Nitrosodiethylamine	ND	330	ug/kg
N-Nitrosodimethylamine	ND	330	ug/kg
N-Nitrosodiphenylamine	ND	330	ug/kg
N-Nitrosodi-n-propylamine	ND	330	ug/kg
N-Nitrosomethylethylamine	ND	330	ug/kg
N-Nitrosomorpholine	ND	330	ug/kg
N-Nitrosopiperidine	ND	330	ug/kg
N-Nitrosopyrrolidine	ND	330	ug/kg
5-Nitro-o-toluidine	ND	670	ug/kg
Parathion	ND	1600	ug/kg
Pentachlorobenzene	ND	330	ug/kg
Pentachloroethane	ND	1600	ug/kg
Pentachloronitrobenzene	ND	1600	ug/kg
Pentachlorophenol	ND	1600	ug/kg
Phenacetin	ND	670	ug/kg
Phenanthrene	ND	330	ug/kg
Phenol	ND	330	ug/kg
Phorate	ND	1600	ug/kg
2-Picoline	ND	670	ug/kg
Pronamide	ND	670	ug/kg
Pyrene	ND	330	ug/kg
Pyridine	ND	670	ug/kg
1,2,4,5-Tetrachlorobenzene	ND	330	ug/kg
2,3,4,6-Tetrachlorophenol	ND	1600	ug/kg
Thionazin	ND	1600	ug/kg
o-Toluidine	ND	670	ug/kg
1,2,4-Trichlorobenzene	ND	330	ug/kg
2,4,5-Trichlorophenol	ND	330	ug/kg
2,4,6-Trichlorophenol	ND	330	ug/kg

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LOCKWOOD GREENE

Client Sample ID: SS-13

GC/MS Semivolatiles

Lot-Sample #...: D4D030176-006 Work Order #...: GDHQ31AC Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
O,O,O-Triethylphosphorothioate	ND	1600	ug/kg
1,3,5-Trinitrobenzene	ND	1600	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	75	(28 - 95)
Phenol-d5	76	(35 - 90)
Nitrobenzene-d5	74	(39 - 89)
2-Fluorobiphenyl	68	(35 - 86)
2,4,6-Tribromophenol	70	(11 - 111)
Terphenyl-d14	83	(30 - 98)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

LOCKWOOD GREENE

Client Sample ID: SS-15

GC/MS Semivolatiles

Lot-Sample #...: D4D030176-007 Work Order #...: GDHQ41AC Matrix.....: SOLID
Date Sampled...: 04/01/04 13:10 Date Received..: 04/03/04
Prep Date.....: 04/07/04 Analysis Date..: 04/22/04
Prep Batch #...: 4097621 Analysis Time..: 18:33
Dilution Factor: 1

Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acenaphthene	ND	330	ug/kg
Acenaphthylene	ND	330	ug/kg
Acetophenone	ND	330	ug/kg
2-Acetylaminofluorene	ND	3300	ug/kg
4-Aminobiphenyl	ND	1600	ug/kg
Aniline	ND	330	ug/kg
Anthracene	ND	330	ug/kg
Aramite	ND	670	ug/kg
Benzo(a)anthracene	ND	330	ug/kg
Benzo(b)fluoranthene	ND	330	ug/kg
Benzo(k)fluoranthene	ND	330	ug/kg
Benzo(ghi)perylene	ND	330	ug/kg
Benzo(a)pyrene	ND	330	ug/kg
Benzyl alcohol	ND	330	ug/kg
bis(2-Chloroethoxy) methane	ND	330	ug/kg
bis(2-Chloroethyl)-ether	ND	330	ug/kg
bis(2-Ethylhexyl) phthalate	ND	330	ug/kg
4-Bromophenyl phenyl ether	ND	330	ug/kg
Butyl benzyl phthalate	ND	330	ug/kg
4-Chloroaniline	ND	330	ug/kg
Chlorobenzilate	ND	330	ug/kg
4-Chloro-3-methylphenol	ND	330	ug/kg
2-Chloronaphthalene	ND	330	ug/kg
2-Chlorophenol	ND	330	ug/kg
4-Chlorophenyl phenyl ether	ND	330	ug/kg
Chrysene	ND	330	ug/kg
Diallate	ND	670	ug/kg
Dibenz(a,h)anthracene	ND	330	ug/kg
Dibenzofuran	ND	330	ug/kg
Di-n-butyl phthalate	ND	330	ug/kg
1,2-Dichlorobenzene	ND	330	ug/kg
1,3-Dichlorobenzene	ND	330	ug/kg
1,4-Dichlorobenzene	ND	330	ug/kg

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LOCKWOOD GREENE

Client Sample ID: SS-15

GC/MS Semivolatiles

Lot-Sample #...: D4D030176-007 Work Order #...: GDHQ41AC Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
3,3'-Dichlorobenzidine	ND	1600	ug/kg
2,4-Dichlorophenol	ND	330	ug/kg
2,6-Dichlorophenol	ND	330	ug/kg
Diethyl phthalate	ND	670	ug/kg
Dimethoate	ND	670	ug/kg
7,12-Dimethylbenz(a)-anthracene	ND	670	ug/kg
3,3'-Dimethylbenzidine	ND	670	ug/kg
2,4-Dimethylphenol	ND	330	ug/kg
Dimethyl phthalate	ND	330	ug/kg
1,3-Dinitrobenzene	ND	330	ug/kg
4,6-Dinitro-2-methylphenol	ND	1600	ug/kg
2,4-Dinitrophenol	ND	1600	ug/kg
2,4-Dinitrotoluene	ND	330	ug/kg
2,6-Dinitrotoluene	ND	330	ug/kg
Di-n-octyl phthalate	ND	330	ug/kg
Diphenylamine	ND	330	ug/kg
Disulfoton	ND	1600	ug/kg
Ethyl methanesulfonate	ND	330	ug/kg
Fluoranthene	ND	330	ug/kg
Fluorene	ND	330	ug/kg
Hexachlorobenzene	ND	330	ug/kg
Hexachlorobutadiene	ND	330	ug/kg
Hexachlorocyclopentadiene	ND	1600	ug/kg
Hexachloroethane	ND	330	ug/kg
Hexachloropropene	ND	3300	ug/kg
Indeno(1,2,3-cd)pyrene	ND	330	ug/kg
Isodrin	ND	330	ug/kg
Isophorone	ND	330	ug/kg
Isosafrole	ND	670	ug/kg
Methapyrilene	ND	1600	ug/kg
3-Methylcholanthrene	ND	670	ug/kg
Methyl methanesulfonate	ND	330	ug/kg
2-Methylnaphthalene	ND	330	ug/kg
Methyl parathion	ND	1600	ug/kg
2-Methylphenol	ND	330	ug/kg
3-Methylphenol & 4-Methylphenol	ND	330	ug/kg
Naphthalene	ND	330	ug/kg
1,4-Naphthoquinone	ND	1600	ug/kg
1-Naphthylamine	ND	330	ug/kg

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LOCKWOOD GREENE

Client Sample ID: SS-15

GC/MS Semivolatiles

Lot-Sample #...: D4D030176-007 Work Order #...: GDHQ41AC Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2-Naphthylamine	ND	330	ug/kg
2-Nitroaniline	ND	1600	ug/kg
3-Nitroaniline	ND	1600	ug/kg
4-Nitroaniline	ND	1600	ug/kg
Nitrobenzene	ND	330	ug/kg
2-Nitrophenol	ND	330	ug/kg
4-Nitrophenol	ND	1600	ug/kg
4-Nitroquinoline-1-oxide	ND	3300	ug/kg
N-Nitrosodi-n-butylamine	ND	330	ug/kg
N-Nitrosodiethylamine	ND	330	ug/kg
N-Nitrosodimethylamine	ND	330	ug/kg
N-Nitrosodiphenylamine	ND	330	ug/kg
N-Nitrosodi-n-propylamine	ND	330	ug/kg
N-Nitrosomethylethylamine	ND	330	ug/kg
N-Nitrosomorpholine	ND	330	ug/kg
N-Nitrosopiperidine	ND	330	ug/kg
N-Nitrosopyrrolidine	ND	330	ug/kg
5-Nitro-o-toluidine	ND	670	ug/kg
Parathion	ND	1600	ug/kg
Pentachlorobenzene	ND	330	ug/kg
Pentachloroethane	ND	1600	ug/kg
Pentachloronitrobenzene	ND	1600	ug/kg
Pentachlorophenol	ND	1600	ug/kg
Phenacetin	ND	670	ug/kg
Phenanthrene	ND	330	ug/kg
Phenol	ND	330	ug/kg
Phorate	ND	1600	ug/kg
2-Picoline	ND	670	ug/kg
Pronamide	ND	670	ug/kg
Pyrene	ND	330	ug/kg
Pyridine	ND	670	ug/kg
1,2,4,5-Tetrachlorobenzene	ND	330	ug/kg
2,3,4,6-Tetrachlorophenol	ND	1600	ug/kg
Thionazin	ND	1600	ug/kg
o-Toluidine	ND	670	ug/kg
1,2,4-Trichlorobenzene	ND	330	ug/kg
2,4,5-Trichlorophenol	ND	330	ug/kg
2,4,6-Trichlorophenol	ND	330	ug/kg

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LOCKWOOD GREENE

Client Sample ID: SS-15

GC/MS Semivolatiles

Lot-Sample #...: D4D030176-007 Work Order #...: GDHQ41AC Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
O,O,O-Triethylphosphorothioate	ND	1600	ug/kg
1,3,5-Trinitrobenzene	ND	1600	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	73	(28 - 95)
Phenol-d5	74	(35 - 90)
Nitrobenzene-d5	74	(39 - 89)
2-Fluorobiphenyl	67	(35 - 86)
2,4,6-Tribromophenol	69	(11 - 111)
Terphenyl-d14	84	(30 - 98)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

LOCKWOOD GREENE

Client Sample ID: SS-16

GC/MS Semivolatiles

Lot-Sample #...: D4D030176-008 Work Order #...: GDHQ51AC Matrix.....: SOLID
Date Sampled...: 04/01/04 14:40 Date Received..: 04/03/04
Prep Date.....: 04/07/04 Analysis Date..: 04/22/04
Prep Batch #...: 4097621 Analysis Time..: 19:00
Dilution Factor: 1

Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acenaphthene	ND	330	ug/kg
Acenaphthylene	ND	330	ug/kg
Acetophenone	ND	330	ug/kg
2-Acetylaminofluorene	ND	3300	ug/kg
4-Aminobiphenyl	ND	1600	ug/kg
Aniline	ND	330	ug/kg
Anthracene	ND	330	ug/kg
Aramite	ND	670	ug/kg
Benzo(a)anthracene	ND	330	ug/kg
Benzo(b)fluoranthene	ND	330	ug/kg
Benzo(k)fluoranthene	ND	330	ug/kg
Benzo(ghi)perylene	ND	330	ug/kg
Benzo(a)pyrene	ND	330	ug/kg
Benzyl alcohol	ND	330	ug/kg
bis(2-Chloroethoxy) methane	ND	330	ug/kg
bis(2-Chloroethyl)-ether	ND	330	ug/kg
bis(2-Ethylhexyl) phthalate	ND	330	ug/kg
4-Bromophenyl phenyl ether	ND	330	ug/kg
Butyl benzyl phthalate	ND	330	ug/kg
4-Chloroaniline	ND	330	ug/kg
Chlorobenzilate	ND	330	ug/kg
4-Chloro-3-methylphenol	ND	330	ug/kg
2-Chloronaphthalene	ND	330	ug/kg
2-Chlorophenol	ND	330	ug/kg
4-Chlorophenyl phenyl ether	ND	330	ug/kg
Chrysene	ND	330	ug/kg
Diallate	ND	670	ug/kg
Dibenz(a,h)anthracene	ND	330	ug/kg
Dibenzofuran	ND	330	ug/kg
Di-n-butyl phthalate	ND	330	ug/kg
1,2-Dichlorobenzene	ND	330	ug/kg
1,3-Dichlorobenzene	ND	330	ug/kg
1,4-Dichlorobenzene	ND	330	ug/kg

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LOCKWOOD GREENE

Client Sample ID: SS-16

GC/MS Semivolatiles

Lot-Sample #...: D4D030176-008 Work Order #...: GDHQ51AC Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
3,3'-Dichlorobenzidine	ND	1600	ug/kg
2,4-Dichlorophenol	ND	330	ug/kg
2,6-Dichlorophenol	ND	330	ug/kg
Diethyl phthalate	ND	670	ug/kg
Dimethoate	ND	670	ug/kg
7,12-Dimethylbenz(a)-anthracene	ND	670	ug/kg
3,3'-Dimethylbenzidine	ND	670	ug/kg
2,4-Dimethylphenol	ND	330	ug/kg
Dimethyl phthalate	ND	330	ug/kg
1,3-Dinitrobenzene	ND	330	ug/kg
4,6-Dinitro-2-methylphenol	ND	1600	ug/kg
2,4-Dinitrophenol	ND	1600	ug/kg
2,4-Dinitrotoluene	ND	330	ug/kg
2,6-Dinitrotoluene	ND	330	ug/kg
Di-n-octyl phthalate	ND	330	ug/kg
Diphenylamine	ND	330	ug/kg
Disulfoton	ND	1600	ug/kg
Ethyl methanesulfonate	ND	330	ug/kg
Fluoranthene	ND	330	ug/kg
Fluorene	ND	330	ug/kg
Hexachlorobenzene	ND	330	ug/kg
Hexachlorobutadiene	ND	330	ug/kg
Hexachlorocyclopenta-diene	ND	1600	ug/kg
Hexachloroethane	ND	330	ug/kg
Hexachloropropene	ND	3300	ug/kg
Indeno(1,2,3-cd)pyrene	ND	330	ug/kg
Isodrin	ND	330	ug/kg
Isophorone	ND	330	ug/kg
Isosafrole	ND	670	ug/kg
Methapyrilene	ND	1600	ug/kg
3-Methylcholanthrene	ND	670	ug/kg
Methyl methanesulfonate	ND	330	ug/kg
2-Methylnaphthalene	ND	330	ug/kg
Methyl parathion	ND	1600	ug/kg
2-Methylphenol	ND	330	ug/kg
3-Methylphenol & 4-Methylphenol	ND	330	ug/kg
Naphthalene	ND	330	ug/kg
1,4-Naphthoquinone	ND	1600	ug/kg
1-Naphthylamine	ND	330	ug/kg

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LOCKWOOD GREENE

Client Sample ID: SS-16

GC/MS Semivolatiles

Lot-Sample #...: D4D030176-008 Work Order #...: GDHQ51AC Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2-Naphthylamine	ND	330	ug/kg
2-Nitroaniline	ND	1600	ug/kg
3-Nitroaniline	ND	1600	ug/kg
4-Nitroaniline	ND	1600	ug/kg
Nitrobenzene	ND	330	ug/kg
2-Nitrophenol	ND	330	ug/kg
4-Nitrophenol	ND	1600	ug/kg
4-Nitroquinoline-1-oxide	ND	3300	ug/kg
N-Nitrosodi-n-butylamine	ND	330	ug/kg
N-Nitrosodiethylamine	ND	330	ug/kg
N-Nitrosodimethylamine	ND	330	ug/kg
N-Nitrosodiphenylamine	ND	330	ug/kg
N-Nitrosodi-n-propylamine	ND	330	ug/kg
N-Nitrosomethylethylamine	ND	330	ug/kg
N-Nitrosomorpholine	ND	330	ug/kg
N-Nitrosopiperidine	ND	330	ug/kg
N-Nitrosopyrrolidine	ND	330	ug/kg
5-Nitro-o-toluidine	ND	670	ug/kg
Parathion	ND	1600	ug/kg
Pentachlorobenzene	ND	330	ug/kg
Pentachloroethane	ND	1600	ug/kg
Pentachloronitrobenzene	ND	1600	ug/kg
Pentachlorophenol	ND	1600	ug/kg
Phenacetin	ND	670	ug/kg
Phenanthrene	ND	330	ug/kg
Phenol	ND	330	ug/kg
Phorate	ND	1600	ug/kg
2-Picoline	ND	670	ug/kg
Pronamide	ND	670	ug/kg
Pyrene	ND	330	ug/kg
Pyridine	ND	670	ug/kg
1,2,4,5-Tetrachlorobenzene	ND	330	ug/kg
2,3,4,6-Tetrachlorophenol	ND	1600	ug/kg
Thionazin	ND	1600	ug/kg
o-Toluidine	ND	670	ug/kg
1,2,4-Trichlorobenzene	ND	330	ug/kg
2,4,5-Trichlorophenol	ND	330	ug/kg
2,4,6-Trichlorophenol	ND	330	ug/kg

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LOCKWOOD GREENE

Client Sample ID: SS-16

GC/MS Semivolatiles

Lot-Sample #...: D4D030176-008 Work Order #...: GDHQ51AC Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
O,O,O-Triethylphosphorothioate	ND	1600	ug/kg
1,3,5-Trinitrobenzene	ND	1600	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	68	(28 - 95)
Phenol-d5	68	(35 - 90)
Nitrobenzene-d5	67	(39 - 89)
2-Fluorobiphenyl	63	(35 - 86)
2,4,6-Tribromophenol	64	(11 - 111)
Terphenyl-d14	76	(30 - 98)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

LOCKWOOD GREENE

Client Sample ID: SS-2

GC Semivolatiles

Lot-Sample #...: D4D030176-001 Work Order #...: GDHQL1AD Matrix.....: SOLID
Date Sampled...: 04/01/04 12:30 Date Received..: 04/03/04
Prep Date.....: 04/06/04 Analysis Date..: 04/24/04
Prep Batch #...: 4096552 Analysis Time..: 04:06
Dilution Factor: 1

Method.....: SW846 8081A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aldrin	ND	1.7	ug/kg
alpha-BHC	ND	1.7	ug/kg
beta-BHC	ND	1.7	ug/kg
delta-BHC	ND	1.7	ug/kg
gamma-BHC (Lindane)	ND	1.7	ug/kg
Chlordane (technical)	ND	17	ug/kg
4,4'-DDD	ND	1.7	ug/kg
4,4'-DDE	ND	1.7	ug/kg
4,4'-DDT	ND	1.7	ug/kg
Dieldrin	ND	1.7	ug/kg
Endrin	ND	1.7	ug/kg
Endrin aldehyde	ND	1.7	ug/kg
Endosulfan I	ND	1.7	ug/kg
Endosulfan II	ND	1.7	ug/kg
Endosulfan sulfate	ND	1.7	ug/kg
Heptachlor	ND	1.7	ug/kg
Heptachlor epoxide	ND	1.7	ug/kg
Methoxychlor	ND	3.4	ug/kg
Toxaphene	ND	170	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	82	(41 - 142)
Tetrachloro-m-xylene	101	(50 - 127)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

LOCKWOOD GREENE

Client Sample ID: SS-6

GC Semivolatiles

Lot-Sample #...: D4D030176-002 Work Order #...: GDHQX1AD Matrix.....: SOLID
Date Sampled...: 04/01/04 10:40 Date Received..: 04/03/04
Prep Date.....: 04/06/04 Analysis Date..: 04/24/04
Prep Batch #...: 4096552 Analysis Time..: 04:35
Dilution Factor: 1

Method.....: SW846 8081A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aldrin	ND	1.7	ug/kg
alpha-BHC	ND	1.7	ug/kg
beta-BHC	ND	1.7	ug/kg
delta-BHC	ND	1.7	ug/kg
gamma-BHC (Lindane)	ND	1.7	ug/kg
Chlordane (technical)	ND	17	ug/kg
4,4'-DDD	0.44 J,COL	1.7	ug/kg
4,4'-DDE	ND	1.7	ug/kg
4,4'-DDT	ND	1.7	ug/kg
Dieldrin	ND	1.7	ug/kg
Endrin	ND	1.7	ug/kg
Endrin aldehyde	ND	1.7	ug/kg
Endosulfan I	ND	1.7	ug/kg
Endosulfan II	ND	1.7	ug/kg
Endosulfan sulfate	ND	1.7	ug/kg
Heptachlor	ND	1.7	ug/kg
Heptachlor epoxide	ND	1.7	ug/kg
Methoxychlor	ND	3.3	ug/kg
Toxaphene	ND	170	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	84	(41 - 142)
Tetrachloro-m-xylene	99	(50 - 127)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

COL More than 40% RPD between primary and confirmation column results. The lower of the two results is reported.

LOCKWOOD GREENE

Client Sample ID: SS-9

GC Semivolatiles

Lot-Sample #...: D4D030176-003 Work Order #...: GDHQ01AD Matrix.....: SOLID
Date Sampled...: 04/01/04 15:15 Date Received..: 04/03/04
Prep Date.....: 04/06/04 Analysis Date..: 04/24/04
Prep Batch #...: 4096552 Analysis Time..: 05:04
Dilution Factor: 1

Method.....: SW846 8081A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aldrin	ND	1.7	ug/kg
alpha-BHC	ND	1.7	ug/kg
beta-BHC	ND	1.7	ug/kg
delta-BHC	ND	1.7	ug/kg
gamma-BHC (Lindane)	ND	1.7	ug/kg
Chlordane (technical)	ND	17	ug/kg
4,4'-DDD	0.39 J,COL	1.7	ug/kg
4,4'-DDE	ND	1.7	ug/kg
4,4'-DDT	ND	1.7	ug/kg
Dieldrin	ND	1.7	ug/kg
Endrin	ND	1.7	ug/kg
Endrin aldehyde	ND	1.7	ug/kg
Endosulfan I	ND	1.7	ug/kg
Endosulfan II	ND	1.7	ug/kg
Endosulfan sulfate	ND	1.7	ug/kg
Heptachlor	ND	1.7	ug/kg
Heptachlor epoxide	ND	1.7	ug/kg
Methoxychlor	ND	3.3	ug/kg
Toxaphene	ND	170	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	90	(41 - 142)
Tetrachloro-m-xylene	105	(50 - 127)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

COL More than 40% RPD between primary and confirmation column results. The lower of the two results is reported.

LOCKWOOD GREENE

Client Sample ID: SS-11

GC Semivolatiles

Lot-Sample #...: D4D030176-004 Work Order #...: GDHQ11AD Matrix.....: SOLID
Date Sampled...: 04/01/04 10:00 Date Received..: 04/03/04
Prep Date.....: 04/06/04 Analysis Date..: 04/24/04
Prep Batch #...: 4096552 Analysis Time..: 05:32
Dilution Factor: 1

Method.....: SW846 8081A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aldrin	ND	1.7	ug/kg
alpha-BHC	ND	1.7	ug/kg
beta-BHC	ND	1.7	ug/kg
delta-BHC	ND	1.7	ug/kg
gamma-BHC (Lindane)	ND	1.7	ug/kg
Chlordane (technical)	ND	17	ug/kg
4,4'-DDD	0.79 J,COL	1.7	ug/kg
4,4'-DDE	ND	1.7	ug/kg
4,4'-DDT	ND	1.7	ug/kg
Dieldrin	ND	1.7	ug/kg
Endrin	ND	1.7	ug/kg
Endrin aldehyde	ND	1.7	ug/kg
Endosulfan I	ND	1.7	ug/kg
Endosulfan II	ND	1.7	ug/kg
Endosulfan sulfate	ND	1.7	ug/kg
Heptachlor	ND	1.7	ug/kg
Heptachlor epoxide	ND	1.7	ug/kg
Methoxychlor	ND	3.3	ug/kg
Toxaphene	ND	170	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	83	(41 - 142)
Tetrachloro-m-xylene	99	(50 - 127)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

COL More than 40% RPD between primary and confirmation column results. The lower of the two results is reported.

LOCKWOOD GREENE

Client Sample ID: SS-12

GC Semivolatiles

Lot-Sample #...: D4D030176-005 Work Order #...: GDHQ21AD Matrix.....: SOLID
Date Sampled...: 04/01/04 15:40 Date Received..: 04/03/04
Prep Date.....: 04/06/04 Analysis Date..: 04/24/04
Prep Batch #...: 4096552 Analysis Time..: 06:01
Dilution Factor: 1

Method.....: SW846 8081A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aldrin	ND	1.7	ug/kg
alpha-BHC	ND	1.7	ug/kg
beta-BHC	ND	1.7	ug/kg
delta-BHC	ND	1.7	ug/kg
gamma-BHC (Lindane)	ND	1.7	ug/kg
Chlordane (technical)	ND	17	ug/kg
4,4'-DDD	0.65 J,COL	1.7	ug/kg
4,4'-DDE	ND	1.7	ug/kg
4,4'-DDT	ND	1.7	ug/kg
Dieldrin	ND	1.7	ug/kg
Endrin	ND	1.7	ug/kg
Endrin aldehyde	ND	1.7	ug/kg
Endosulfan I	ND	1.7	ug/kg
Endosulfan II	ND	1.7	ug/kg
Endosulfan sulfate	ND	1.7	ug/kg
Heptachlor	ND	1.7	ug/kg
Heptachlor epoxide	ND	1.7	ug/kg
Methoxychlor	ND	3.4	ug/kg
Toxaphene	ND	170	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	96	(41 - 142)
Tetrachloro-m-xylene	109	(50 - 127)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

COL More than 40% RPD between primary and confirmation column results. The lower of the two results is reported.

LOCKWOOD GREENE

Client Sample ID: SS-13

GC Semivolatiles

Lot-Sample #...: D4D030176-006 Work Order #...: GDHQ31AD Matrix.....: SOLID
Date Sampled...: 04/01/04 16:10 Date Received..: 04/03/04
Prep Date.....: 04/06/04 Analysis Date..: 04/27/04
Prep Batch #...: 4096552 Analysis Time..: 11:42
Dilution Factor: 10

Method.....: SW846 8081A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aldrin	ND	17	ug/kg
alpha-BHC	ND	17	ug/kg
beta-BHC	ND	17	ug/kg
delta-BHC	ND	17	ug/kg
gamma-BHC (Lindane)	ND	17	ug/kg
Chlordane (technical)	ND	170	ug/kg
4,4'-DDD	ND	17	ug/kg
4,4'-DDE	ND	17	ug/kg
4,4'-DDT	ND	17	ug/kg
Dieldrin	ND	17	ug/kg
Endrin	ND	17	ug/kg
Endrin aldehyde	ND	17	ug/kg
Endosulfan I	ND	17	ug/kg
Endosulfan II	ND	17	ug/kg
Endosulfan sulfate	ND	17	ug/kg
Heptachlor	ND	17	ug/kg
Heptachlor epoxide	ND	17	ug/kg
Methoxychlor	ND	33	ug/kg
Toxaphene	ND	1700	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	NC,DIL	(41 - 142)
Tetrachloro-m-xylene	NC,DIL	(50 - 127)

NOTE(S):

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

LOCKWOOD GREENE

Client Sample ID: SS-15

GC Semivolatiles

Lot-Sample #...: D4D030176-007 Work Order #...: GDHQ41AD Matrix.....: SOLID
Date Sampled...: 04/01/04 13:10 Date Received..: 04/03/04
Prep Date.....: 04/06/04 Analysis Date..: 04/27/04
Prep Batch #...: 4096552 Analysis Time..: 12:11
Dilution Factor: 10

Method.....: SW846 8081A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aldrin	ND	17	ug/kg
alpha-BHC	ND	17	ug/kg
beta-BHC	ND	17	ug/kg
delta-BHC	ND	17	ug/kg
gamma-BHC (Lindane)	ND	17	ug/kg
Chlordane (technical)	ND	170	ug/kg
4,4'-DDD	ND	17	ug/kg
4,4'-DDE	ND	17	ug/kg
4,4'-DDT	ND	17	ug/kg
Dieldrin	ND	17	ug/kg
Endrin	ND	17	ug/kg
Endrin aldehyde	ND	17	ug/kg
Endosulfan I	ND	17	ug/kg
Endosulfan II	ND	17	ug/kg
Endosulfan sulfate	ND	17	ug/kg
Heptachlor	ND	17	ug/kg
Heptachlor epoxide	ND	17	ug/kg
Methoxychlor	ND	33	ug/kg
Toxaphene	ND	1700	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	NC,DIL	(41 - 142)
Tetrachloro-m-xylene	NC,DIL	(50 - 127)

NOTE(S):

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

LOCKWOOD GREENE

Client Sample ID: SS-16

GC Semivolatiles

Lot-Sample #...: D4D030176-008 Work Order #...: GDHQ51AD Matrix.....: SOLID
Date Sampled...: 04/01/04 14:40 Date Received..: 04/03/04
Prep Date.....: 04/06/04 Analysis Date..: 04/27/04
Prep Batch #...: 4096552 Analysis Time..: 12:40
Dilution Factor: 10

Method.....: SW846 8081A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aldrin	ND	17	ug/kg
alpha-BHC	ND	17	ug/kg
beta-BHC	ND	17	ug/kg
delta-BHC	ND	17	ug/kg
gamma-BHC (Lindane)	ND	17	ug/kg
Chlordane (technical)	ND	170	ug/kg
4,4'-DDD	ND	17	ug/kg
4,4'-DDE	ND	17	ug/kg
4,4'-DDT	ND	17	ug/kg
Dieldrin	ND	17	ug/kg
Endrin	ND	17	ug/kg
Endrin aldehyde	ND	17	ug/kg
Endosulfan I	ND	17	ug/kg
Endosulfan II	ND	17	ug/kg
Endosulfan sulfate	ND	17	ug/kg
Heptachlor	ND	17	ug/kg
Heptachlor epoxide	ND	17	ug/kg
Methoxychlor	ND	33	ug/kg
Toxaphene	ND	1700	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	NC,DIL	(41 - 142)
Tetrachloro-m-xylene	NC,DIL	(50 - 127)

NOTE(S):

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

LOCKWOOD GREENE

Client Sample ID: SS-2

GC Semivolatiles

Lot-Sample #...: D4D030176-001 Work Order #...: GDHQL1AE Matrix.....: SOLID
Date Sampled...: 04/01/04 12:30 Date Received..: 04/03/04
Prep Date.....: 04/04/04 Analysis Date..: 04/12/04
Prep Batch #...: 4095125 Analysis Time..: 13:39
Dilution Factor: 1

Method.....: SW846 8141A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Azinphos-methyl	ND	13	ug/kg
Bolstar	ND	13	ug/kg
Chlorpyrifos	ND	13	ug/kg
Coumaphos	ND	13	ug/kg
Demeton (total)	ND	13	ug/kg
Diazinon	ND	13	ug/kg
Dichlorvos	ND	13	ug/kg
Dimethoate	ND	13	ug/kg
Disulfoton	ND	13	ug/kg
Ethoprop	ND	13	ug/kg
Ethyl parathion	ND	13	ug/kg
Famphur	ND	13	ug/kg
Fensulfothion	ND	13	ug/kg
Fenthion	ND	13	ug/kg
Malathion	ND	13	ug/kg
Merphos	ND	13	ug/kg
Methyl parathion	ND	13	ug/kg
Mevinphos	ND	13	ug/kg
Naled	ND	34	ug/kg
O,O,O-Triethylphosphorothioate	ND	13	ug/kg
Phorate	ND	13	ug/kg
Ronnel	ND	68	ug/kg
Sulfotepp	ND	13	ug/kg
Thionazin	ND	13	ug/kg
Tokuthion	ND	13	ug/kg
Trichloronate	ND	13	ug/kg
EPN	ND	13	ug/kg
Demeton-O	ND	13	ug/kg
Demeton-S	ND	13	ug/kg
Tetrachlorvinphos (Stirophos)	ND	13	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Ethyl Pirimifos	71	(11 - 137)
Chlormefos	84	(37 - 124)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

LOCKWOOD GREENE

Client Sample ID: SS-6

GC Semivolatiles

Lot-Sample #...: D4D030176-002 Work Order #...: GDHQX1AE Matrix.....: SOLID
Date Sampled...: 04/01/04 10:40 Date Received..: 04/03/04
Prep Date.....: 04/04/04 Analysis Date..: 04/12/04
Prep Batch #...: 4095125 Analysis Time..: 14:13
Dilution Factor: 1

Method.....: SW846 8141A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Azinphos-methyl	ND	13	ug/kg
Bolstar	ND	13	ug/kg
Chlorpyrifos	ND	13	ug/kg
Coumaphos	ND	13	ug/kg
Demeton (total)	ND	13	ug/kg
Diazinon	ND	13	ug/kg
Dichlorvos	ND	13	ug/kg
Dimethoate	ND	13	ug/kg
Disulfoton	ND	13	ug/kg
Ethoprop	ND	13	ug/kg
Ethyl parathion	ND	13	ug/kg
Famphur	ND	13	ug/kg
Fensulfothion	ND	13	ug/kg
Fenthion	ND	13	ug/kg
Malathion	ND	13	ug/kg
Merphos	ND	13	ug/kg
Methyl parathion	ND	13	ug/kg
Mevinphos	ND	13	ug/kg
Naled	ND	33	ug/kg
O,O,O-Triethylphosphorothioate	ND	13	ug/kg
Phorate	ND	13	ug/kg
Ronnel	ND	68	ug/kg
Sulfotepp	ND	13	ug/kg
Thionazin	ND	13	ug/kg
Tokuthion	ND	13	ug/kg
Trichloronate	ND	13	ug/kg
EPN	ND	13	ug/kg
Demeton-O	ND	13	ug/kg
Demeton-S	ND	13	ug/kg
Tetrachlorvinphos (Stirophos)	ND	13	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Ethyl Pirimifos	75	(11 - 137)
Chlormefos	87	(37 - 124)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

LOCKWOOD GREENE

Client Sample ID: SS-9

GC Semivolatiles

Lot-Sample #...: D4D030176-003 Work Order #...: GDHQ01AE Matrix.....: SOLID
Date Sampled...: 04/01/04 15:15 Date Received..: 04/03/04
Prep Date.....: 04/04/04 Analysis Date..: 04/12/04
Prep Batch #...: 4095125 Analysis Time..: 14:46
Dilution Factor: 1

Method.....: SW846 8141A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Azinphos-methyl	ND	13	ug/kg
Bolstar	ND	13	ug/kg
Chlorpyrifos	ND	13	ug/kg
Coumaphos	ND	13	ug/kg
Demeton (total)	ND	13	ug/kg
Diazinon	ND	13	ug/kg
Dichlorvos	ND	13	ug/kg
Dimethoate	ND	13	ug/kg
Disulfoton	ND	13	ug/kg
Ethoprop	ND	13	ug/kg
Ethyl parathion	ND	13	ug/kg
Famphur	ND	13	ug/kg
Fensulfothion	ND	13	ug/kg
Fenthion	ND	13	ug/kg
Malathion	ND	13	ug/kg
Merphos	ND	13	ug/kg
Methyl parathion	ND	13	ug/kg
Mevinphos	ND	13	ug/kg
Naled	ND	33	ug/kg
O,O,O-Triethylphosphorothioate	ND	13	ug/kg
Phorate	ND	13	ug/kg
Ronnel	ND	68	ug/kg
Sulfotepp	ND	13	ug/kg
Thionazin	ND	13	ug/kg
Tokuthion	ND	13	ug/kg
Trichloronate	ND	13	ug/kg
EPN	ND	13	ug/kg
Demeton-O	ND	13	ug/kg
Demeton-S	ND	13	ug/kg
Tetrachlorvinphos (Stirophos)	ND	13	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Ethyl Pirimifos	67	(11 - 137)
Chlormefos	75	(37 - 124)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

LOCKWOOD GREENE

Client Sample ID: SS-11

GC Semivolatiles

Lot-Sample #...: D4D030176-004 Work Order #...: GDHQ11AE Matrix.....: SOLID
Date Sampled...: 04/01/04 10:00 Date Received..: 04/03/04
Prep Date.....: 04/04/04 Analysis Date..: 04/12/04
Prep Batch #...: 4095125 Analysis Time..: 15:52
Dilution Factor: 1

Method.....: SW846 8141A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Azinphos-methyl	ND	13	ug/kg
Bolstar	ND	13	ug/kg
Chlorpyrifos	ND	13	ug/kg
Coumaphos	ND	13	ug/kg
Demeton (total)	ND	13	ug/kg
Diazinon	ND	13	ug/kg
Dichlorvos	ND	13	ug/kg
Dimethoate	ND	13	ug/kg
Disulfoton	ND	13	ug/kg
Ethoprop	ND	13	ug/kg
Ethyl parathion	ND	13	ug/kg
Famphur	ND	13	ug/kg
Fensulfothion	ND	13	ug/kg
Fenthion	ND	13	ug/kg
Malathion	ND	13	ug/kg
Merphos	ND	13	ug/kg
Methyl parathion	ND	13	ug/kg
Mevinphos	ND	13	ug/kg
Naled	ND	33	ug/kg
O,O,O-Triethylphosphorothioate	ND	13	ug/kg
Phorate	ND	13	ug/kg
Ronnel	ND	68	ug/kg
Sulfotepp	ND	13	ug/kg
Thionazin	ND	13	ug/kg
Tokuthion	ND	13	ug/kg
Trichloronate	ND	13	ug/kg
EPN	ND	13	ug/kg
Demeton-O	ND	13	ug/kg
Demeton-S	ND	13	ug/kg
Tetrachlorvinphos (Stirophos)	ND	13	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Ethyl Pirimifos	73	(11 - 137)
Chlormefos	90	(37 - 124)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

LOCKWOOD GREENE

Client Sample ID: SS-12

GC Semivolatiles

Lot-Sample #...: D4D030176-005 Work Order #...: GDHQ21AE Matrix.....: SOLID
Date Sampled...: 04/01/04 15:40 Date Received..: 04/03/04
Prep Date.....: 04/04/04 Analysis Date..: 04/12/04
Prep Batch #...: 4095125 Analysis Time..: 16:25
Dilution Factor: 1

Method.....: SW846 8141A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Azinphos-methyl	ND	13	ug/kg
Bolstar	ND	13	ug/kg
Chlorpyrifos	ND	13	ug/kg
Coumaphos	ND	13	ug/kg
Demeton (total)	ND	13	ug/kg
Diazinon	ND	13	ug/kg
Dichlorvos	ND	13	ug/kg
Dimethoate	ND	13	ug/kg
Disulfoton	ND	13	ug/kg
Ethoprop	ND	13	ug/kg
Ethyl parathion	ND	13	ug/kg
Famphur	ND	13	ug/kg
Fensulfothion	ND	13	ug/kg
Fenthion	ND	13	ug/kg
Malathion	ND	13	ug/kg
Merphos	ND	13	ug/kg
Methyl parathion	ND	13	ug/kg
Mevinphos	ND	13	ug/kg
Naled	ND	34	ug/kg
O,O,O-Triethylphosphorothioate	ND	13	ug/kg
Phorate	ND	13	ug/kg
Ronnel	ND	68	ug/kg
Sulfotepp	ND	13	ug/kg
Thionazin	ND	13	ug/kg
Tokuthion	ND	13	ug/kg
Trichloronate	ND	13	ug/kg
EPN	ND	13	ug/kg
Demeton-O	ND	13	ug/kg
Demeton-S	ND	13	ug/kg
Tetrachlorvinphos (Stirophos)	ND	13	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Ethyl Pirimifos	72	(11 - 137)
Chlormefos	86	(37 - 124)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

LOCKWOOD GREENE

Client Sample ID: SS-13

GC Semivolatiles

Lot-Sample #...: D4D030176-006 Work Order #...: GDHQ31AE Matrix.....: SOLID
Date Sampled...: 04/01/04 16:10 Date Received..: 04/03/04
Prep Date.....: 04/04/04 Analysis Date..: 04/12/04
Prep Batch #...: 4095125 Analysis Time..: 16:59
Dilution Factor: 1

Method.....: SW846 8141A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Azinphos-methyl	ND	13	ug/kg
Bolstar	ND	13	ug/kg
Chlorpyrifos	ND	13	ug/kg
Coumaphos	ND	13	ug/kg
Demeton (total)	ND	13	ug/kg
Diazinon	ND	13	ug/kg
Dichlorvos	ND	13	ug/kg
Dimethoate	ND	13	ug/kg
Disulfoton	ND	13	ug/kg
Ethoprop	ND	13	ug/kg
Ethyl parathion	ND	13	ug/kg
Famphur	ND	13	ug/kg
Fensulfothion	ND	13	ug/kg
Fenthion	ND	13	ug/kg
Malathion	ND	13	ug/kg
Merphos	ND	13	ug/kg
Methyl parathion	ND	13	ug/kg
Mevinphos	ND	13	ug/kg
Naled	ND	33	ug/kg
O,O,O-Triethylphosphorothioate	ND	13	ug/kg
Phorate	ND	13	ug/kg
Ronnel	ND	68	ug/kg
Sulfotepp	ND	13	ug/kg
Thionazin	ND	13	ug/kg
Tokuthion	ND	13	ug/kg
Trichloronate	ND	13	ug/kg
EPN	ND	13	ug/kg
Demeton-O	ND	13	ug/kg
Demeton-S	ND	13	ug/kg
Tetrachlorvinphos (Stirophos)	ND	13	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Ethyl Pirimifos	77	(11 - 137)
Chlormefos	97	(37 - 124)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

LOCKWOOD GREENE

Client Sample ID: SS-15

GC Semivolatiles

Lot-Sample #...: D4D030176-007 Work Order #...: GDHQ41AE Matrix.....: SOLID
Date Sampled...: 04/01/04 13:10 Date Received..: 04/03/04
Prep Date.....: 04/04/04 Analysis Date..: 04/12/04
Prep Batch #...: 4095125 Analysis Time..: 17:32
Dilution Factor: 1

Method.....: SW846 8141A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Azinphos-methyl	ND	13	ug/kg
Bolstar	ND	13	ug/kg
Chlorpyrifos	ND	13	ug/kg
Coumaphos	ND	13	ug/kg
Demeton (total)	ND	13	ug/kg
Diazinon	ND	13	ug/kg
Dichlorvos	ND	13	ug/kg
Dimethoate	ND	13	ug/kg
Disulfoton	ND	13	ug/kg
Ethoprop	ND	13	ug/kg
Ethyl parathion	ND	13	ug/kg
Famphur	ND	13	ug/kg
Fensulfothion	ND	13	ug/kg
Fenthion	ND	13	ug/kg
Malathion	ND	13	ug/kg
Merphos	ND	13	ug/kg
Methyl parathion	ND	13	ug/kg
Mevinphos	ND	13	ug/kg
Naled	ND	33	ug/kg
O,O,O-Triethylphosphorothioate	ND	13	ug/kg
Phorate	ND	13	ug/kg
Ronnel	ND	68	ug/kg
Sulfotepp	ND	13	ug/kg
Thionazin	ND	13	ug/kg
Tokuthion	ND	13	ug/kg
Trichloronate	ND	13	ug/kg
EPN	ND	13	ug/kg
Demeton-O	ND	13	ug/kg
Demeton-S	ND	13	ug/kg
Tetrachlorvinphos (Stirophos)	ND	13	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Ethyl Pirimifos	77	(11 - 137)
Chlormefos	90	(37 - 124)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

LOCKWOOD GREENE

Client Sample ID: SS-16

GC Semivolatiles

Lot-Sample #...: D4D030176-008 Work Order #...: GDHQ51AE Matrix.....: SOLID
Date Sampled...: 04/01/04 14:40 Date Received..: 04/03/04
Prep Date.....: 04/04/04 Analysis Date..: 04/12/04
Prep Batch #...: 4095125 Analysis Time..: 18:05
Dilution Factor: 1

Method.....: SW846 8141A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Azinphos-methyl	ND	13	ug/kg
Bolstar	ND	13	ug/kg
Chlorpyrifos	ND	13	ug/kg
Coumaphos	ND	13	ug/kg
Demeton (total)	ND	13	ug/kg
Diazinon	ND	13	ug/kg
Dichlorvos	ND	13	ug/kg
Dimethoate	ND	13	ug/kg
Disulfoton	ND	13	ug/kg
Ethoprop	ND	13	ug/kg
Ethyl parathion	ND	13	ug/kg
Famphur	ND	13	ug/kg
Fensulfothion	ND	13	ug/kg
Fenthion	ND	13	ug/kg
Malathion	ND	13	ug/kg
Merphos	ND	13	ug/kg
Methyl parathion	ND	13	ug/kg
Mevinphos	ND	13	ug/kg
Naled	ND	33	ug/kg
O,O,O-Triethylphosphoro-thioate	ND	13	ug/kg
Phorate	ND	13	ug/kg
Ronnel	ND	68	ug/kg
Sulfotepp	ND	13	ug/kg
Thionazin	ND	13	ug/kg
Tokuthion	ND	13	ug/kg
Trichloronate	ND	13	ug/kg
EPN	ND	13	ug/kg
Demeton-O	ND	13	ug/kg
Demeton-S	ND	13	ug/kg
Tetrachlorvinphos (Stirophos)	ND	13	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Ethyl Pirimifos	73	(11 - 137)
Chlormefos	91	(37 - 124)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

LOCKWOOD GREENE

Client Sample ID: SS-2

GC Semivolatiles

Lot-Sample #...: D4D030176-001 Work Order #...: GDHQL1AF Matrix.....: SOLID
Date Sampled...: 04/01/04 12:30 Date Received..: 04/03/04
Prep Date.....: 04/08/04 Analysis Date..: 04/13/04
Prep Batch #...: 4098553 Analysis Time..: 19:43
Dilution Factor: 1

Method.....: SW846 8151A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4-D	ND	81	ug/kg
2,4-DB	ND	81	ug/kg
2,4,5-T	ND	20	ug/kg
2,4,5-TP (Silvex)	ND	20	ug/kg
Dalapon	ND	41	ug/kg
Dicamba	ND	41	ug/kg
Dichlorprop	ND	81	ug/kg
Dinoseb	ND	12	ug/kg
MCPA	ND	8100	ug/kg
MCPP	ND	8100	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
DCAA	83	(39 - 96)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

LOCKWOOD GREENE

Client Sample ID: SS-6

GC Semivolatiles

Lot-Sample #...: D4D030176-002 Work Order #...: GDHQX1AF Matrix.....: SOLID
Date Sampled...: 04/01/04 10:40 Date Received..: 04/03/04
Prep Date.....: 04/08/04 Analysis Date..: 04/13/04
Prep Batch #...: 4098553 Analysis Time..: 20:24
Dilution Factor: 1

Method.....: SW846 8151A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4-D	ND	81	ug/kg
2,4-DB	ND	81	ug/kg
2,4,5-T	ND	20	ug/kg
2,4,5-TP (Silvex)	ND	20	ug/kg
Dalapon	ND	41	ug/kg
Dicamba	ND	41	ug/kg
Dichlorprop	ND	81	ug/kg
Dinoseb	ND	12	ug/kg
MCPA	ND	8100	ug/kg
MCPP	ND	8100	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
DCAA	80	(39 - 96)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

LOCKWOOD GREENE

Client Sample ID: SS-9

GC Semivolatiles

Lot-Sample #...: D4D030176-003 Work Order #...: GDHQ01AF Matrix.....: SOLID
Date Sampled...: 04/01/04 15:15 Date Received..: 04/03/04
Prep Date.....: 04/08/04 Analysis Date..: 04/13/04
Prep Batch #...: 4098553 Analysis Time..: 21:05
Dilution Factor: 1

Method.....: SW846 8151A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4-D	ND	81	ug/kg
2,4-DB	ND	81	ug/kg
2,4,5-T	ND	20	ug/kg
2,4,5-TP (Silvex)	ND	20	ug/kg
Dalapon	ND	40	ug/kg
Dicamba	ND	40	ug/kg
Dichlorprop	ND	81	ug/kg
Dinoseb	ND	12	ug/kg
MCPA	ND	8100	ug/kg
MCPP	ND	8100	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
DCAA	89	(39 - 96)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

LOCKWOOD GREENE

Client Sample ID: SS-11

GC Semivolatiles

Lot-Sample #...: D4D030176-004 Work Order #...: GDHQ11AF Matrix.....: SOLID
Date Sampled...: 04/01/04 10:00 Date Received..: 04/03/04
Prep Date.....: 04/08/04 Analysis Date..: 04/13/04
Prep Batch #...: 4098553 Analysis Time..: 21:47
Dilution Factor: 1

Method.....: SW846 8151A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4-D	ND	81	ug/kg
2,4-DB	ND	81	ug/kg
2,4,5-T	ND	20	ug/kg
2,4,5-TP (Silvex)	ND	20	ug/kg
Dalapon	ND	41	ug/kg
Dicamba	ND	41	ug/kg
Dichlorprop	ND	81	ug/kg
Dinoseb	ND	12	ug/kg
MCPA	ND	8100	ug/kg
MCPP	ND	8100	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
DCAA	95	(39 - 96)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

LOCKWOOD GREENE

Client Sample ID: SS-12

GC Semivolatiles

Lot-Sample #...: D4D030176-005 Work Order #...: GDHQ21AF Matrix.....: SOLID
Date Sampled...: 04/01/04 15:40 Date Received..: 04/03/04
Prep Date.....: 04/08/04 Analysis Date..: 04/13/04
Prep Batch #...: 4098553 Analysis Time..: 22:29
Dilution Factor: 1

Method.....: SW846 8151A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4-D	ND	81	ug/kg
2,4-DB	ND	81	ug/kg
2,4,5-T	ND	20	ug/kg
2,4,5-TP (Silvex)	ND	20	ug/kg
Dalapon	ND	41	ug/kg
Dicamba	ND	41	ug/kg
Dichlorprop	ND	81	ug/kg
Dinoseb	ND	12	ug/kg
MCPA	ND	8100	ug/kg
MCPP	ND	8100	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
DCAA	87	(39 - 96)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

LOCKWOOD GREENE

Client Sample ID: SS-13

GC Semivolatiles

Lot-Sample #...: D4D030176-006 Work Order #...: GDHQ31AF Matrix.....: SOLID
Date Sampled...: 04/01/04 16:10 Date Received..: 04/03/04
Prep Date.....: 04/08/04 Analysis Date..: 04/13/04
Prep Batch #...: 4098553 Analysis Time..: 23:10
Dilution Factor: 1

Method.....: SW846 8151A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4-D	ND	81	ug/kg
2,4-DB	ND	81	ug/kg
2,4,5-T	ND	20	ug/kg
2,4,5-TP (Silvex)	ND	20	ug/kg
Dalapon	ND	40	ug/kg
Dicamba	ND	40	ug/kg
Dichlorprop	ND	81	ug/kg
Dinoseb	ND	12	ug/kg
MCPA	ND	8100	ug/kg
MCPP	ND	8100	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
DCAA	98 *	(39 - 96)

NOTE(S):

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

LOCKWOOD GREENE

Client Sample ID: SS-15

GC Semivolatiles

Lot-Sample #...: D4D030176-007 Work Order #...: GDHQ41AF Matrix.....: SOLID
Date Sampled...: 04/01/04 13:10 Date Received..: 04/03/04
Prep Date.....: 04/08/04 Analysis Date..: 04/13/04
Prep Batch #...: 4098553 Analysis Time..: 23:51
Dilution Factor: 1

Method.....: SW846 8151A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4-D	ND	81	ug/kg
2,4-DB	ND	81	ug/kg
2,4,5-T	ND	20	ug/kg
2,4,5-TP (Silvex)	ND	20	ug/kg
Dalapon	ND	40	ug/kg
Dicamba	ND	40	ug/kg
Dichlorprop	ND	81	ug/kg
Dinoseb	ND	12	ug/kg
MCPA	ND	8100	ug/kg
MCPP	ND	8100	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
DCAA	98 *	(39 - 96)

NOTE(S):

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

LOCKWOOD GREENE

Client Sample ID: SS-16

GC Semivolatiles

Lot-Sample #...: D4D030176-008 Work Order #...: GDHQ51AF Matrix.....: SOLID
Date Sampled...: 04/01/04 14:40 Date Received..: 04/03/04
Prep Date.....: 04/08/04 Analysis Date..: 04/14/04
Prep Batch #...: 4098553 Analysis Time..: 01:15
Dilution Factor: 1

Method.....: SW846 8151A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4-D	ND	81	ug/kg
2,4-DB	ND	81	ug/kg
2,4,5-T	ND	20	ug/kg
2,4,5-TP (Silvex)	ND	20	ug/kg
Dalapon	ND	40	ug/kg
Dicamba	ND	40	ug/kg
Dichlorprop	ND	81	ug/kg
Dinoseb	ND	12	ug/kg
MCPA	ND	8100	ug/kg
MCPP	ND	8100	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
DCAA	95	(39 - 96)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

LOCKWOOD GREENE

Client Sample ID: SS-2

TOTAL Metals

Lot-Sample #...: D4D030176-001 Matrix.....: SOLID
Date Sampled...: 04/01/04 12:30 Date Received..: 04/03/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4096254						
Mercury	ND	34	ug/kg	SW846 7471A	04/13-04/14/04	GDHQL1AL
		Dilution Factor: 1		Analysis Time..: 11:54		
Prep Batch #...: 4097647						
Arsenic	0.76 B	1.0	mg/kg	SW846 6010B	04/09-04/17/04	GDHQL1AP
		Dilution Factor: 1		Analysis Time..: 01:56		
Lead	2.8	0.81	mg/kg	SW846 6010B	04/09-04/17/04	GDHQL1AQ
		Dilution Factor: 1		Analysis Time..: 01:56		
Selenium	ND	1.3	mg/kg	SW846 6010B	04/09-04/17/04	GDHQL1AR
		Dilution Factor: 1		Analysis Time..: 01:56		
Barium	22	1.0	mg/kg	SW846 6010B	04/09-04/17/04	GDHQL1AG
		Dilution Factor: 1		Analysis Time..: 01:56		
Cadmium	ND	0.51	mg/kg	SW846 6010B	04/09-04/17/04	GDHQL1AH
		Dilution Factor: 1		Analysis Time..: 01:56		
Chromium	5.9	1.0	mg/kg	SW846 6010B	04/09-04/17/04	GDHQL1AJ
		Dilution Factor: 1		Analysis Time..: 01:56		
Silver	0.099 B	1.0	mg/kg	SW846 6010B	04/09-04/17/04	GDHQL1AK
		Dilution Factor: 1		Analysis Time..: 01:56		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

LOCKWOOD GREENE

Client Sample ID: SS-6

TOTAL Metals

Lot-Sample #...: D4D030176-002 Matrix.....: SOLID
Date Sampled...: 04/01/04 10:40 Date Received..: 04/03/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4096254						
Mercury	ND	33	ug/kg	SW846 7471A	04/13-04/14/04	GDHQX1AL
		Dilution Factor: 1		Analysis Time..: 12:00		
Prep Batch #...: 4097647						
Arsenic	0.76 B	1.0	mg/kg	SW846 6010B	04/09-04/17/04	GDHQX1AP
		Dilution Factor: 1		Analysis Time..: 02:01		
Lead	2.2	0.81	mg/kg	SW846 6010B	04/09-04/17/04	GDHQX1AQ
		Dilution Factor: 1		Analysis Time..: 02:01		
Selenium	ND	1.3	mg/kg	SW846 6010B	04/09-04/17/04	GDHQX1AR
		Dilution Factor: 1		Analysis Time..: 02:01		
Barium	15	1.0	mg/kg	SW846 6010B	04/09-04/17/04	GDHQX1AG
		Dilution Factor: 1		Analysis Time..: 02:01		
Cadmium	ND	0.51	mg/kg	SW846 6010B	04/09-04/17/04	GDHQX1AH
		Dilution Factor: 1		Analysis Time..: 02:01		
Chromium	3.1	1.0	mg/kg	SW846 6010B	04/09-04/17/04	GDHQX1AJ
		Dilution Factor: 1		Analysis Time..: 02:01		
Silver	0.10 B	1.0	mg/kg	SW846 6010B	04/09-04/17/04	GDHQX1AK
		Dilution Factor: 1		Analysis Time..: 02:01		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

LOCKWOOD GREENE

Client Sample ID: SS-9

TOTAL Metals

Lot-Sample #...: D4D030176-003 Matrix.....: SOLID
Date Sampled...: 04/01/04 15:15 Date Received..: 04/03/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4096254						
Mercury	ND	33	ug/kg	SW846 7471A	04/13-04/14/04	GDHQ01AL
		Dilution Factor: 1		Analysis Time..: 12:02		
Prep Batch #...: 4097647						
Arsenic	ND	1.0	mg/kg	SW846 6010B	04/09-04/17/04	GDHQ01AP
		Dilution Factor: 1		Analysis Time..: 02:05		
Lead	3.3	0.81	mg/kg	SW846 6010B	04/09-04/17/04	GDHQ01AQ
		Dilution Factor: 1		Analysis Time..: 02:05		
Selenium	ND	1.3	mg/kg	SW846 6010B	04/09-04/17/04	GDHQ01AR
		Dilution Factor: 1		Analysis Time..: 02:05		
Barium	53	1.0	mg/kg	SW846 6010B	04/09-04/17/04	GDHQ01AG
		Dilution Factor: 1		Analysis Time..: 02:05		
Cadmium	ND	0.51	mg/kg	SW846 6010B	04/09-04/17/04	GDHQ01AH
		Dilution Factor: 1		Analysis Time..: 02:05		
Chromium	3.4	1.0	mg/kg	SW846 6010B	04/09-04/17/04	GDHQ01AJ
		Dilution Factor: 1		Analysis Time..: 02:05		
Silver	0.085 B	1.0	mg/kg	SW846 6010B	04/09-04/17/04	GDHQ01AK
		Dilution Factor: 1		Analysis Time..: 02:05		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

LOCKWOOD GREENE

Client Sample ID: SS-11

TOTAL Metals

Lot-Sample #...: D4D030176-004 Matrix.....: SOLID
Date Sampled...: 04/01/04 10:00 Date Received..: 04/03/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4096254						
Mercury	ND	33	ug/kg	SW846 7471A	04/13-04/14/04	GDHQ11AL
		Dilution Factor: 1		Analysis Time..: 12:04		
Prep Batch #...: 4097647						
Arsenic	0.89 B	1.0	mg/kg	SW846 6010B	04/09-04/17/04	GDHQ11AP
		Dilution Factor: 1		Analysis Time..: 02:19		
Lead	2.8	0.81	mg/kg	SW846 6010B	04/09-04/17/04	GDHQ11AQ
		Dilution Factor: 1		Analysis Time..: 02:19		
Selenium	ND	1.3	mg/kg	SW846 6010B	04/09-04/17/04	GDHQ11AR
		Dilution Factor: 1		Analysis Time..: 02:19		
Barium	19	1.0	mg/kg	SW846 6010B	04/09-04/17/04	GDHQ11AG
		Dilution Factor: 1		Analysis Time..: 02:19		
Cadmium	ND	0.51	mg/kg	SW846 6010B	04/09-04/17/04	GDHQ11AH
		Dilution Factor: 1		Analysis Time..: 02:19		
Chromium	3.4	1.0	mg/kg	SW846 6010B	04/09-04/17/04	GDHQ11AJ
		Dilution Factor: 1		Analysis Time..: 02:19		
Silver	0.11 B	1.0	mg/kg	SW846 6010B	04/09-04/17/04	GDHQ11AK
		Dilution Factor: 1		Analysis Time..: 02:19		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

LOCKWOOD GREENE

Client Sample ID: SS-12

TOTAL Metals

Lot-Sample #...: D4D030176-005 Matrix.....: SOLID
Date Sampled...: 04/01/04 15:40 Date Received..: 04/03/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4096254						
Mercury	ND	34	ug/kg	SW846 7471A	04/13-04/14/04	GDHQ21AL
		Dilution Factor: 1		Analysis Time..: 12:06		
Prep Batch #...: 4097647						
Arsenic	0.77 B	1.0	mg/kg	SW846 6010B	04/09-04/17/04	GDHQ21AP
		Dilution Factor: 1		Analysis Time..: 02:24		
Lead	2.7	0.81	mg/kg	SW846 6010B	04/09-04/17/04	GDHQ21AQ
		Dilution Factor: 1		Analysis Time..: 02:24		
Selenium	ND	1.3	mg/kg	SW846 6010B	04/09-04/17/04	GDHQ21AR
		Dilution Factor: 1		Analysis Time..: 02:24		
Barium	19	1.0	mg/kg	SW846 6010B	04/09-04/17/04	GDHQ21AG
		Dilution Factor: 1		Analysis Time..: 02:24		
Cadmium	ND	0.51	mg/kg	SW846 6010B	04/09-04/17/04	GDHQ21AH
		Dilution Factor: 1		Analysis Time..: 02:24		
Chromium	3.5	1.0	mg/kg	SW846 6010B	04/09-04/17/04	GDHQ21AJ
		Dilution Factor: 1		Analysis Time..: 02:24		
Silver	0.10 B	1.0	mg/kg	SW846 6010B	04/09-04/17/04	GDHQ21AK
		Dilution Factor: 1		Analysis Time..: 02:24		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

LOCKWOOD GREENE

Client Sample ID: SS-13

TOTAL Metals

Lot-Sample #...: D4D030176-006 Matrix.....: SOLID
Date Sampled...: 04/01/04 16:10 Date Received..: 04/03/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4096254						
Mercury	ND	33	ug/kg	SW846 7471A	04/13-04/14/04	GDHQ31AL
		Dilution Factor: 1		Analysis Time..: 12:08		
Prep Batch #...: 4097647						
Arsenic	ND	1.0	mg/kg	SW846 6010B	04/09-04/17/04	GDHQ31AP
		Dilution Factor: 1		Analysis Time..: 02:28		
Lead	2.6	0.81	mg/kg	SW846 6010B	04/09-04/17/04	GDHQ31AQ
		Dilution Factor: 1		Analysis Time..: 02:28		
Selenium	ND	1.3	mg/kg	SW846 6010B	04/09-04/17/04	GDHQ31AR
		Dilution Factor: 1		Analysis Time..: 02:28		
Barium	16	1.0	mg/kg	SW846 6010B	04/09-04/17/04	GDHQ31AG
		Dilution Factor: 1		Analysis Time..: 02:28		
Cadmium	ND	0.51	mg/kg	SW846 6010B	04/09-04/17/04	GDHQ31AH
		Dilution Factor: 1		Analysis Time..: 02:28		
Chromium	3.0	1.0	mg/kg	SW846 6010B	04/09-04/17/04	GDHQ31AJ
		Dilution Factor: 1		Analysis Time..: 02:28		
Silver	ND	1.0	mg/kg	SW846 6010B	04/09-04/17/04	GDHQ31AK
		Dilution Factor: 1		Analysis Time..: 02:28		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

LOCKWOOD GREENE

Client Sample ID: SS-15

TOTAL Metals

Lot-Sample #...: D4D030176-007 Matrix.....: SOLID
Date Sampled...: 04/01/04 13:10 Date Received..: 04/03/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4096254						
Mercury	ND	33	ug/kg	SW846 7471A	04/13-04/14/04	GDHQ41AL
		Dilution Factor: 1		Analysis Time..: 12:10		
Prep Batch #...: 4097647						
Arsenic	ND	1.0	mg/kg	SW846 6010B	04/09-04/17/04	GDHQ41AP
		Dilution Factor: 1		Analysis Time..: 02:33		
Lead	2.5	0.81	mg/kg	SW846 6010B	04/09-04/17/04	GDHQ41AQ
		Dilution Factor: 1		Analysis Time..: 02:33		
Selenium	ND	1.3	mg/kg	SW846 6010B	04/09-04/17/04	GDHQ41AR
		Dilution Factor: 1		Analysis Time..: 02:33		
Barium	17	1.0	mg/kg	SW846 6010B	04/09-04/17/04	GDHQ41AG
		Dilution Factor: 1		Analysis Time..: 02:33		
Cadmium	ND	0.51	mg/kg	SW846 6010B	04/09-04/17/04	GDHQ41AH
		Dilution Factor: 1		Analysis Time..: 02:33		
Chromium	3.1	1.0	mg/kg	SW846 6010B	04/09-04/17/04	GDHQ41AJ
		Dilution Factor: 1		Analysis Time..: 02:33		
Silver	0.10 B	1.0	mg/kg	SW846 6010B	04/09-04/17/04	GDHQ41AK
		Dilution Factor: 1		Analysis Time..: 02:33		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

LOCKWOOD GREENE

Client Sample ID: SS-16

TOTAL Metals

Lot-Sample #...: D4D030176-008 Matrix.....: SOLID
Date Sampled...: 04/01/04 14:40 Date Received..: 04/03/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4096254						
Mercury	ND	33	ug/kg	SW846 7471A	04/13-04/14/04	GDHQ51AL
		Dilution Factor: 1		Analysis Time..: 12:12		
Prep Batch #...: 4097647						
Arsenic	0.96 B	1.0	mg/kg	SW846 6010B	04/09-04/17/04	GDHQ51AP
		Dilution Factor: 1		Analysis Time..: 02:37		
Lead	2.9	0.81	mg/kg	SW846 6010B	04/09-04/17/04	GDHQ51AQ
		Dilution Factor: 1		Analysis Time..: 02:37		
Selenium	ND	1.3	mg/kg	SW846 6010B	04/09-04/17/04	GDHQ51AR
		Dilution Factor: 1		Analysis Time..: 02:37		
Barium	24	1.0	mg/kg	SW846 6010B	04/09-04/17/04	GDHQ51AG
		Dilution Factor: 1		Analysis Time..: 02:37		
Cadmium	ND	0.50	mg/kg	SW846 6010B	04/09-04/17/04	GDHQ51AH
		Dilution Factor: 1		Analysis Time..: 02:37		
Chromium	3.7	1.0	mg/kg	SW846 6010B	04/09-04/17/04	GDHQ51AJ
		Dilution Factor: 1		Analysis Time..: 02:37		
Silver	0.11 B	1.0	mg/kg	SW846 6010B	04/09-04/17/04	GDHQ51AK
		Dilution Factor: 1		Analysis Time..: 02:37		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

LOCKWOOD GREENE

Client Sample ID: SS-2

General Chemistry

Lot-Sample #...: D4D030176-001 Work Order #...: GDHQL Matrix.....: SOLID
Date Sampled...: 04/01/04 12:30 Date Received..: 04/03/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Fluoride	ND	10	mg/kg	SW846 9056	04/15/04	4107487
		Dilution Factor: 1		Analysis Time..: 15:53		
Percent Moisture	1.6	0.10	%	MCAWW 160.3 MOD	04/19/04	4110593
		Dilution Factor: 1		Analysis Time..: 17:35		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

LOCKWOOD GREENE

Client Sample ID: SS-6

General Chemistry

Lot-Sample #...: D4D030176-002 Work Order #...: GDHQX Matrix.....: SOLID
Date Sampled...: 04/01/04 10:40 Date Received..: 04/03/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Fluoride	ND	10	mg/kg	SW846 9056	04/15/04	4107487
		Dilution Factor: 1		Analysis Time..: 16:27		
Percent Moisture	1.3	0.10	%	MCAWW 160.3 MOD	04/19/04	4110593
		Dilution Factor: 1		Analysis Time..: 17:35		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

LOCKWOOD GREENE

Client Sample ID: SS-9

General Chemistry

Lot-Sample #...: D4D030176-003 Work Order #...: GDHQ0 Matrix.....: SOLID
Date Sampled...: 04/01/04 15:15 Date Received..: 04/03/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Fluoride	1.0 B	10	mg/kg	SW846 9056	04/15/04	4107487
		Dilution Factor: 1		Analysis Time..: 16:38		
Percent Moisture	1.2	0.10	%	MCAWW 160.3 MOD	04/19/04	4110593
		Dilution Factor: 1		Analysis Time..: 17:35		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

LOCKWOOD GREENE

Client Sample ID: SS-11

General Chemistry

Lot-Sample #...: D4D030176-004 Work Order #...: GDHQ1 Matrix.....: SOLID
Date Sampled...: 04/01/04 10:00 Date Received..: 04/03/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Fluoride	1.2 B	10	mg/kg	SW846 9056	04/15/04	4107487
		Dilution Factor: 1		Analysis Time..: 16:50		
Percent Moisture	1.3	0.10	%	MCAWW 160.3 MOD	04/19/04	4110593
		Dilution Factor: 1		Analysis Time..: 17:35		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

LOCKWOOD GREENE

Client Sample ID: SS-12

General Chemistry

Lot-Sample #...: D4D030176-005 Work Order #...: GDHQ2 Matrix.....: SOLID
Date Sampled...: 04/01/04 15:40 Date Received..: 04/03/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Fluoride	ND	10	mg/kg	SW846 9056	04/15/04	4107487
		Dilution Factor: 1		Analysis Time..: 17:01		
Percent Moisture	1.5	0.10	%	MCAWW 160.3 MOD	04/19/04	4110593
		Dilution Factor: 1		Analysis Time..: 17:35		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

LOCKWOOD GREENE

Client Sample ID: SS-13

General Chemistry

Lot-Sample #...: D4D030176-006 Work Order #...: GDHQ3 Matrix.....: SOLID
Date Sampled...: 04/01/04 16:10 Date Received..: 04/03/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Fluoride	ND	10	mg/kg	SW846 9056	04/15/04	4107487
		Dilution Factor: 1		Analysis Time..: 17:35		
Percent Moisture	1.1	0.10	%	MCAWW 160.3 MOD	04/19/04	4110593
		Dilution Factor: 1		Analysis Time..: 17:35		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

LOCKWOOD GREENE

Client Sample ID: SS-15

General Chemistry

Lot-Sample #...: D4D030176-007 Work Order #...: GDHQ4 Matrix.....: SOLID
Date Sampled...: 04/01/04 13:10 Date Received..: 04/03/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Fluoride	1.0 B	10	mg/kg	SW846 9056	04/15/04	4107487
		Dilution Factor: 1		Analysis Time..: 17:46		
Percent Moisture	1.2	0.10	%	MCAWW 160.3 MOD	04/19/04	4110593
		Dilution Factor: 1		Analysis Time..: 17:35		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

LOCKWOOD GREENE

Client Sample ID: SS-16

General Chemistry

Lot-Sample #...: D4D030176-008 Work Order #...: GDHQ5 Matrix.....: SOLID
Date Sampled...: 04/01/04 14:40 Date Received..: 04/03/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Fluoride	ND	10	mg/kg	SW846 9056	04/15/04	4107487
		Dilution Factor: 1		Analysis Time..: 17:57		
Percent Moisture	0.81	0.10	%	MCANW 160.3 MOD	04/20/04	4111603
		Dilution Factor: 1		Analysis Time..: 17:15		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

QC DATA ASSOCIATION SUMMARY

D4D030176

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	SOLID	SW846 9056		4107487	4107237
	SOLID	SW846 7471A		4096254	4096141
	SOLID	SW846 8141A		4095125	4095022
	SOLID	SW846 8081A		4096552	4114264
	SOLID	SW846 8260B		4104274	4104174
	SOLID	SW846 8270C		4097621	4097303
	SOLID	SW846 6010B		4097647	4097320
	SOLID	SW846 8151A		4098553	4098301
	SOLID	MCAWW 160.3 MOD		4110593	4111080
002	SOLID	SW846 9056		4107487	4107237
	SOLID	SW846 7471A		4096254	4096141
	SOLID	SW846 8141A		4095125	4095022
	SOLID	SW846 8081A		4096552	4114264
	SOLID	SW846 8260B		4104274	4104174
	SOLID	SW846 8270C		4097621	4097303
	SOLID	SW846 6010B		4097647	4097320
	SOLID	SW846 8151A		4098553	4098301
	SOLID	MCAWW 160.3 MOD		4110593	4111080
003	SOLID	SW846 9056		4107487	4107237
	SOLID	SW846 7471A		4096254	4096141
	SOLID	SW846 8141A		4095125	4095022
	SOLID	SW846 8081A		4096552	4114264
	SOLID	SW846 8260B		4104274	4104174
	SOLID	SW846 8270C		4097621	4097303
	SOLID	SW846 6010B		4097647	4097320
	SOLID	SW846 8151A		4098553	4098301
	SOLID	MCAWW 160.3 MOD		4110593	4111080
004	SOLID	SW846 9056		4107487	4107237
	SOLID	SW846 7471A		4096254	4096141
	SOLID	SW846 8141A		4095125	4095022
	SOLID	SW846 8081A		4096552	4114264
	SOLID	SW846 8260B		4104274	4104174
	SOLID	SW846 8270C		4097621	4097303
	SOLID	SW846 6010B		4097647	4097320
	SOLID	SW846 8151A		4098553	4098301
	SOLID	MCAWW 160.3 MOD		4110593	4111080
005	SOLID	SW846 9056		4107487	4107237
	SOLID	SW846 7471A		4096254	4096141
	SOLID	SW846 8141A		4095125	4095022

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QC DATA ASSOCIATION SUMMARY

D4D030176

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
005	SOLID	SW846 8081A		4096552	4114264
	SOLID	SW846 8260B		4104274	4104174
	SOLID	SW846 8270C		4097621	4097303
	SOLID	SW846 6010B		4097647	4097320
	SOLID	SW846 8151A		4098553	4098301
	SOLID	MCAWW 160.3 MOD		4110593	4111080
006	SOLID	SW846 9056		4107487	4107237
	SOLID	SW846 7471A		4096254	4096141
	SOLID	SW846 8141A		4095125	4095022
	SOLID	SW846 8081A		4096552	4114264
	SOLID	SW846 8260B		4104274	4104174
	SOLID	SW846 8270C		4097621	4097303
	SOLID	SW846 6010B		4097647	4097320
	SOLID	SW846 8151A		4098553	4098301
	SOLID	MCAWW 160.3 MOD		4110593	4111080
007	SOLID	SW846 9056		4107487	4107237
	SOLID	SW846 7471A		4096254	4096141
	SOLID	SW846 8141A		4095125	4095022
	SOLID	SW846 8081A		4096552	4114264
	SOLID	SW846 8260B		4104274	4104174
	SOLID	SW846 8270C		4097621	4097303
	SOLID	SW846 6010B		4097647	4097320
	SOLID	SW846 8151A		4098553	4098301
	SOLID	MCAWW 160.3 MOD		4110593	4111080
008	SOLID	SW846 9056		4107487	4107237
	SOLID	SW846 7471A		4096254	4096141
	SOLID	SW846 8141A		4095125	4095022
	SOLID	SW846 8081A		4096552	4114264
	SOLID	SW846 8260B		4104274	4104174
	SOLID	SW846 8270C		4097621	4097303
	SOLID	SW846 6010B		4097647	4097320
	SOLID	SW846 8151A		4098553	4098301
	SOLID	MCAWW 160.3 MOD		4111603	4112076

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: D4D030176 Work Order #...: GD3FW1AA Matrix.....: SOLID
MB Lot-Sample #: D4D130000-274

Prep Date.....: 04/12/04 Analysis Time..: 12:26
Analysis Date..: 04/12/04 Prep Batch #...: 4104274
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	3.8 J	20	ug/kg	SW846 8260B
Benzene	ND	5.0	ug/kg	SW846 8260B
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260B
Bromoform	ND	5.0	ug/kg	SW846 8260B
Bromomethane	ND	10	ug/kg	SW846 8260B
2-Butanone (MEK)	ND	20	ug/kg	SW846 8260B
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260B
Chlorobenzene	ND	5.0	ug/kg	SW846 8260B
Chloroethane	ND	10	ug/kg	SW846 8260B
Chloroform	ND	10	ug/kg	SW846 8260B
Chloromethane	ND	10	ug/kg	SW846 8260B
Dibromomethane	ND	5.0	ug/kg	SW846 8260B
1,2-Dibromoethane (EDB)	ND	5.0	ug/kg	SW846 8260B
1,2-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,3-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,4-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
Dichlorodifluoromethane	ND	10	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloroethene (total)	ND	5.0	ug/kg	SW846 8260B
cis-1,2-Dichloroethene	ND	2.5	ug/kg	SW846 8260B
trans-1,2-Dichloroethene	ND	2.5	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
Ethylbenzene	ND	5.0	ug/kg	SW846 8260B
2-Hexanone	ND	20	ug/kg	SW846 8260B
Methylene chloride	ND	5.0	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	20	ug/kg	SW846 8260B
Styrene	ND	5.0	ug/kg	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260B
Toluene	0.28 J	5.0	ug/kg	SW846 8260B
1,2,4-Trichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
Trichloroethene	ND	5.0	ug/kg	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: D4D030176 Work Order #...: GD3FW1AA Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Trichlorofluoromethane	ND	10	ug/kg	SW846 8260B
1,2,3-Trichloropropane	ND	5.0	ug/kg	SW846 8260B
Vinyl chloride	ND	5.0	ug/kg	SW846 8260B
Xylenes (total)	ND	5.0	ug/kg	SW846 8260B
n-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
sec-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
Isopropylbenzene	ND	5.0	ug/kg	SW846 8260B
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	SW846 8260B
1,3,5-Trimethylbenzene	ND	5.0	ug/kg	SW846 8260B
n-Propylbenzene	ND	5.0	ug/kg	SW846 8260B
tert-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260B
2-Chlorotoluene	ND	5.0	ug/kg	SW846 8260B
4-Chlorotoluene	ND	5.0	ug/kg	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	10	ug/kg	SW846 8260B
1,3-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
2,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
Hexachlorobutadiene	ND	5.0	ug/kg	SW846 8260B
4-Isopropyltoluene	ND	5.0	ug/kg	SW846 8260B
Methyl tert-butyl ether	ND	20	ug/kg	SW846 8260B
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	SW846 8260B
m-Xylene & p-Xylene	ND	2.5	ug/kg	SW846 8260B
o-Xylene	ND	2.5	ug/kg	SW846 8260B
Bromobenzene	ND	5.0	ug/kg	SW846 8260B
Bromochloromethane	ND	5.0	ug/kg	SW846 8260B
Naphthalene	0.58 J	5.0	ug/kg	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	100	(71 - 136)
1,2-Dichloroethane-d4	105	(67 - 131)
4-Bromofluorobenzene	97	(71 - 124)
Toluene-d8	98	(77 - 129)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: D4D030176 Work Order #...: GD3FW1AC-LCS Matrix.....: SOLID
LCS Lot-Sample#: D4D130000-274 GD3FW1AD-LCSD
Prep Date.....: 04/12/04 Analysis Date..: 04/12/04
Prep Batch #...: 4104274 Analysis Time..: 11:40
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	**92**	**(72 - 121)**			**SW846 8260B**
	108	**(72 - 121)**	**16**	**(0-25)**	**SW846 8260B**
Chlorobenzene	**90**	**(75 - 115)**			**SW846 8260B**
	105	**(75 - 115)**	**15**	**(0-25)**	**SW846 8260B**
1,1-Dichloroethene	**91**	**(60 - 133)**			**SW846 8260B**
	103	**(60 - 133)**	**13**	**(0-25)**	**SW846 8260B**
Toluene	**93**	**(71 - 117)**			**SW846 8260B**
	103	**(71 - 117)**	**10**	**(0-25)**	**SW846 8260B**
Trichloroethene	**85**	**(70 - 125)**			**SW846 8260B**
	101	**(70 - 125)**	**17**	**(0-25)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	93	(78 - 118)
	99	(78 - 118)
1,2-Dichloroethane-d4	95	(72 - 120)
	106	(72 - 120)
4-Bromofluorobenzene	95	(76 - 127)
	99	(76 - 127)
Toluene-d8	97	(75 - 120)
	100	(75 - 120)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: D4D030176 Work Order #...: GD3FW1AC-LCS Matrix.....: SOLID
LCS Lot-Sample#: D4D130000-274 GD3FW1AD-LCSD
Prep Date.....: 04/12/04 Analysis Date..: 04/12/04
Prep Batch #...: 4104274 Analysis Time..: 11:40
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Benzene	**50.0**	**46.0**	**ug/kg**	**92**		**SW846 8260B**
	50.0	**53.8**	**ug/kg**	**108**	**16**	**SW846 8260B**
Chlorobenzene	**50.0**	**45.1**	**ug/kg**	**90**		**SW846 8260B**
	50.0	**52.6**	**ug/kg**	**105**	**15**	**SW846 8260B**
1,1-Dichloroethene	**50.0**	**45.3**	**ug/kg**	**91**		**SW846 8260B**
	50.0	**51.6**	**ug/kg**	**103**	**13**	**SW846 8260B**
Toluene	**50.0**	**46.5**	**ug/kg**	**93**		**SW846 8260B**
	50.0	**51.4**	**ug/kg**	**103**	**10**	**SW846 8260B**
Trichloroethene	**50.0**	**42.7**	**ug/kg**	**85**		**SW846 8260B**
	50.0	**50.4**	**ug/kg**	**101**	**17**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	93	(78 - 118)
	99	(78 - 118)
1,2-Dichloroethane-d4	95	(72 - 120)
	106	(72 - 120)
4-Bromofluorobenzene	95	(76 - 127)
	99	(76 - 127)
Toluene-d8	97	(75 - 120)
	100	(75 - 120)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: D4D030176 Work Order #...: GDKHM1AX-MS Matrix.....: SOLID
MS Lot-Sample #: D4D050247-002 GDKHM1A0-MSD
Date Sampled...: 04/01/04 13:50 Date Received..: 04/05/04
Prep Date.....: 04/12/04 Analysis Date..: 04/12/04
Prep Batch #...: 4104274 Analysis Time..: 21:10
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	70	(51 - 133)			SW846 8260B
	72	(51 - 133)	3.4	(0-40)	SW846 8260B
Chlorobenzene	53	(28 - 137)			SW846 8260B
	54	(28 - 137)	0.70	(0-40)	SW846 8260B
1,1-Dichloroethene	79	(49 - 134)			SW846 8260B
	86	(49 - 134)	8.6	(0-40)	SW846 8260B
Toluene	71	(33 - 140)			SW846 8260B
	80	(33 - 140)	12	(0-40)	SW846 8260B
Trichloroethene	58	(46 - 135)			SW846 8260B
	57	(46 - 135)	1.7	(0-40)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	103	(71 - 136)
	103	(71 - 136)
1,2-Dichloroethane-d4	107	(67 - 131)
	110	(67 - 131)
4-Bromofluorobenzene	80	(71 - 124)
	73	(71 - 124)
Toluene-d8	118	(77 - 129)
	119	(77 - 129)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: D4D030176 Work Order #...: GDKHM1AX-MS Matrix.....: SOLID
MS Lot-Sample #: D4D050247-002 GDKHM1A0-MSD
Date Sampled...: 04/01/04 13:50 Date Received..: 04/05/04
Prep Date.....: 04/12/04 Analysis Date..: 04/12/04
Prep Batch #...: 4104274 Analysis Time..: 21:10
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Benzene	ND	50.0	35.0	ug/kg	70		SW846 8260B
	ND	50.0	36.2	ug/kg	72	3.4	SW846 8260B
Chlorobenzene	ND	50.0	26.6	ug/kg	53		SW846 8260B
	ND	50.0	26.8	ug/kg	54	0.70	SW846 8260B
1,1-Dichloroethene	ND	50.0	39.3	ug/kg	79		SW846 8260B
	ND	50.0	42.8	ug/kg	86	8.6	SW846 8260B
Toluene	0.23	50.0	35.6	ug/kg	71		SW846 8260B
	0.23	50.0	40.3	ug/kg	80	12	SW846 8260B
Trichloroethene	ND	50.0	29.0	ug/kg	58		SW846 8260B
	ND	50.0	28.5	ug/kg	57	1.7	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	103	(71 - 136)
	103	(71 - 136)
1,2-Dichloroethane-d4	107	(67 - 131)
	110	(67 - 131)
4-Bromofluorobenzene	80	(71 - 124)
	73	(71 - 124)
Toluene-d8	118	(77 - 129)
	119	(77 - 129)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: D4D030176
MB Lot-Sample #: D4D060000-621

Work Order #...: GDM571AA

Matrix.....: SOLID

Prep Date.....: 04/07/04

Analysis Time..: 13:41

Analysis Date..: 04/22/04
Prep Batch #...: 4097621
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acenaphthene	ND	330	ug/kg	SW846 8270C
Acenaphthylene	ND	330	ug/kg	SW846 8270C
Acetophenone	ND	330	ug/kg	SW846 8270C
2-Acetylaminofluorene	ND	3300	ug/kg	SW846 8270C
4-Aminobiphenyl	ND	1600	ug/kg	SW846 8270C
Aniline	ND	330	ug/kg	SW846 8270C
Anthracene	ND	330	ug/kg	SW846 8270C
Aramite	ND	660	ug/kg	SW846 8270C
Benzo(a)anthracene	ND	330	ug/kg	SW846 8270C
Benzo(b)fluoranthene	ND	330	ug/kg	SW846 8270C
Benzo(k)fluoranthene	ND	330	ug/kg	SW846 8270C
Benzo(ghi)perylene	ND	330	ug/kg	SW846 8270C
Benzo(a)pyrene	ND	330	ug/kg	SW846 8270C
Benzyl alcohol	ND	330	ug/kg	SW846 8270C
bis(2-Chloroethoxy) methane	ND	330	ug/kg	SW846 8270C
bis(2-Chloroethyl)-ether	ND	330	ug/kg	SW846 8270C
bis(2-Ethylhexyl) phthalate	ND	330	ug/kg	SW846 8270C
4-Bromophenyl phenyl ether	ND	330	ug/kg	SW846 8270C
Butyl benzyl phthalate	ND	330	ug/kg	SW846 8270C
4-Chloroaniline	ND	330	ug/kg	SW846 8270C
Chlorobenzilate	ND	330	ug/kg	SW846 8270C
4-Chloro-3-methylphenol	ND	330	ug/kg	SW846 8270C
2-Chloronaphthalene	ND	330	ug/kg	SW846 8270C
2-Chlorophenol	ND	330	ug/kg	SW846 8270C
4-Chlorophenyl phenyl ether	ND	330	ug/kg	SW846 8270C
Chrysene	ND	330	ug/kg	SW846 8270C
Diallate	ND	660	ug/kg	SW846 8270C
Dibenz(a,h)anthracene	ND	330	ug/kg	SW846 8270C
Dibenzofuran	ND	330	ug/kg	SW846 8270C
Di-n-butyl phthalate	ND	330	ug/kg	SW846 8270C
1,2-Dichlorobenzene	ND	330	ug/kg	SW846 8270C
1,3-Dichlorobenzene	ND	330	ug/kg	SW846 8270C
1,4-Dichlorobenzene	ND	330	ug/kg	SW846 8270C
3,3'-Dichlorobenzidine	ND	1600	ug/kg	SW846 8270C
2,4-Dichlorophenol	ND	330	ug/kg	SW846 8270C
2,6-Dichlorophenol	ND	330	ug/kg	SW846 8270C

(Continued on next page)

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: D4D030176 Work Order #...: GDM571AA Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Diethyl phthalate	ND	660	ug/kg	SW846 8270C
Dimethoate	ND	660	ug/kg	SW846 8270C
7,12-Dimethylbenz(a)-anthracene	ND	660	ug/kg	SW846 8270C
3,3'-Dimethylbenzidine	ND	660	ug/kg	SW846 8270C
2,4-Dimethylphenol	ND	330	ug/kg	SW846 8270C
Dimethyl phthalate	ND	330	ug/kg	SW846 8270C
1,3-Dinitrobenzene	ND	330	ug/kg	SW846 8270C
4,6-Dinitro-2-methylphenol	ND	1600	ug/kg	SW846 8270C
2,4-Dinitrophenol	ND	1600	ug/kg	SW846 8270C
2,4-Dinitrotoluene	ND	330	ug/kg	SW846 8270C
2,6-Dinitrotoluene	ND	330	ug/kg	SW846 8270C
Di-n-octyl phthalate	ND	330	ug/kg	SW846 8270C
Diphenylamine	ND	330	ug/kg	SW846 8270C
Disulfoton	ND	1600	ug/kg	SW846 8270C
Ethyl methanesulfonate	ND	330	ug/kg	SW846 8270C
Fluoranthene	ND	330	ug/kg	SW846 8270C
Fluorene	ND	330	ug/kg	SW846 8270C
Hexachlorobenzene	ND	330	ug/kg	SW846 8270C
Hexachlorobutadiene	ND	330	ug/kg	SW846 8270C
Hexachlorocyclopenta-diene	ND	1600	ug/kg	SW846 8270C
Hexachloroethane	ND	330	ug/kg	SW846 8270C
Hexachloropropene	ND	3300	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	330	ug/kg	SW846 8270C
Isodrin	ND	330	ug/kg	SW846 8270C
Isophorone	ND	330	ug/kg	SW846 8270C
Isosafrole	ND	660	ug/kg	SW846 8270C
Methapyrilene	ND	1600	ug/kg	SW846 8270C
3-Methylcholanthrene	ND	660	ug/kg	SW846 8270C
Methyl methanesulfonate	ND	330	ug/kg	SW846 8270C
2-Methylnaphthalene	ND	330	ug/kg	SW846 8270C
Methyl parathion	ND	1600	ug/kg	SW846 8270C
2-Methylphenol	ND	330	ug/kg	SW846 8270C
3-Methylphenol & 4-Methylphenol	ND	330	ug/kg	SW846 8270C
Naphthalene	ND	330	ug/kg	SW846 8270C
1,4-Naphthoquinone	ND	1600	ug/kg	SW846 8270C
1-Naphthylamine	ND	330	ug/kg	SW846 8270C
2-Naphthylamine	ND	330	ug/kg	SW846 8270C
2-Nitroaniline	ND	1600	ug/kg	SW846 8270C
3-Nitroaniline	ND	1600	ug/kg	SW846 8270C
4-Nitroaniline	ND	1600	ug/kg	SW846 8270C
Nitrobenzene	ND	330	ug/kg	SW846 8270C

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: D4D030176 Work Order #...: GDM571AA Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
2-Nitrophenol	ND	330	ug/kg	SW846 8270C
4-Nitrophenol	ND	1600	ug/kg	SW846 8270C
4-Nitroquinoline-1-oxide	ND	3300	ug/kg	SW846 8270C
N-Nitrosodi-n-butylamine	ND	330	ug/kg	SW846 8270C
N-Nitrosodiethylamine	ND	330	ug/kg	SW846 8270C
N-Nitrosodimethylamine	ND	330	ug/kg	SW846 8270C
N-Nitrosodiphenylamine	ND	330	ug/kg	SW846 8270C
N-Nitrosodi-n-propylamine	ND	330	ug/kg	SW846 8270C
N-Nitrosomethylethylamine	ND	330	ug/kg	SW846 8270C
N-Nitrosomorpholine	ND	330	ug/kg	SW846 8270C
N-Nitrosopiperidine	ND	330	ug/kg	SW846 8270C
N-Nitrosopyrrolidine	ND	330	ug/kg	SW846 8270C
5-Nitro-o-toluidine	ND	660	ug/kg	SW846 8270C
Parathion	ND	1600	ug/kg	SW846 8270C
Pentachlorobenzene	ND	330	ug/kg	SW846 8270C
Pentachloroethane	ND	1600	ug/kg	SW846 8270C
Pentachloronitrobenzene	ND	1600	ug/kg	SW846 8270C
Pentachlorophenol	ND	1600	ug/kg	SW846 8270C
Phenacetin	ND	660	ug/kg	SW846 8270C
Phenanthrene	ND	330	ug/kg	SW846 8270C
Phenol	ND	330	ug/kg	SW846 8270C
Phorate	ND	1600	ug/kg	SW846 8270C
2-Picoline	ND	660	ug/kg	SW846 8270C
Pronamide	ND	660	ug/kg	SW846 8270C
Pyrene	ND	330	ug/kg	SW846 8270C
Pyridine	ND	660	ug/kg	SW846 8270C
1,2,4,5-Tetrachlorobenzene	ND	330	ug/kg	SW846 8270C
2,3,4,6-Tetrachlorophenol	ND	1600	ug/kg	SW846 8270C
Thionazin	ND	1600	ug/kg	SW846 8270C
o-Toluidine	ND	660	ug/kg	SW846 8270C
1,2,4-Trichlorobenzene	ND	330	ug/kg	SW846 8270C
2,4,5-Trichlorophenol	ND	330	ug/kg	SW846 8270C
2,4,6-Trichlorophenol	ND	330	ug/kg	SW846 8270C
O,O,O-Triethylphosphorothioate	ND	1600	ug/kg	SW846 8270C
1,3,5-Trinitrobenzene	ND	1600	ug/kg	SW846 8270C

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: D4D030176 Work Order #...: GDM571AA Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	78	(28 - 95)
Phenol-d5	79	(35 - 90)
Nitrobenzene-d5	77	(39 - 89)
2-Fluorobiphenyl	73	(35 - 86)
2,4,6-Tribromophenol	67	(11 - 111)
Terphenyl-d14	86	(30 - 98)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: D4D030176 Work Order #...: GDM571AC Matrix.....: SOLID
LCS Lot-Sample#: D4D060000-621
Prep Date.....: 04/07/04 Analysis Date..: 04/22/04
Prep Batch #...: 4097621 Analysis Time..: 14:08
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Acenaphthene	75	(49 - 89)	SW846 8270C
4-Chloro-3-methylphenol	79	(53 - 93)	SW846 8270C
2-Chlorophenol	79	(52 - 92)	SW846 8270C
1,4-Dichlorobenzene	74	(47 - 87)	SW846 8270C
2,4-Dinitrotoluene	79	(51 - 98)	SW846 8270C
4-Nitrophenol	75	(37 - 103)	SW846 8270C
N-Nitrosodi-n-propyl-amine	75	(46 - 90)	SW846 8270C
Pentachlorophenol	77	(37 - 96)	SW846 8270C
Phenol	79	(52 - 92)	SW846 8270C
Pyrene	78	(46 - 95)	SW846 8270C
1,2,4-Trichloro-benzene	76	(49 - 89)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	76	(52 - 92)
Phenol-d5	77	(52 - 92)
Nitrobenzene-d5	76	(51 - 91)
2-Fluorobiphenyl	71	(47 - 88)
2,4,6-Tribromophenol	75	(48 - 94)
Terphenyl-d14	81	(50 - 103)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: D4D030176 Work Order #...: GDM571AC Matrix.....: SOLID
LCS Lot-Sample#: D4D060000-621
Prep Date.....: 04/07/04 Analysis Date..: 04/22/04
Prep Batch #...: 4097621 Analysis Time..: 14:08
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Acenaphthene	3300	2470	ug/kg	75	SW846 8270C
4-Chloro-3-methylphenol	4950	3930	ug/kg	79	SW846 8270C
2-Chlorophenol	4950	3920	ug/kg	79	SW846 8270C
1,4-Dichlorobenzene	3300	2450	ug/kg	74	SW846 8270C
2,4-Dinitrotoluene	3300	2620	ug/kg	79	SW846 8270C
4-Nitrophenol	4950	3720	ug/kg	75	SW846 8270C
N-Nitrosodi-n-propyl-amine	3300	2490	ug/kg	75	SW846 8270C
Pentachlorophenol	4950	3830	ug/kg	77	SW846 8270C
Phenol	4950	3920	ug/kg	79	SW846 8270C
Pyrene	3300	2590	ug/kg	78	SW846 8270C
1,2,4-Trichloro-benzene	3300	2520	ug/kg	76	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	76	(52 - 92)
Phenol-d5	77	(52 - 92)
Nitrobenzene-d5	76	(51 - 91)
2-Fluorobiphenyl	71	(47 - 88)
2,4,6-Tribromophenol	75	(48 - 94)
Terphenyl-d14	81	(50 - 103)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: D4D030176 Work Order #...: GDE201AX-MS Matrix.....: SOLID
MS Lot-Sample #: D4D020177-001 GDE201A0-MSD
Date Sampled...: 04/01/04 09:45 Date Received..: 04/02/04
Prep Date.....: 04/07/04 Analysis Date..: 04/22/04
Prep Batch #...: 4097621 Analysis Time..: 20:45
Dilution Factor: 5

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acenaphthene	NC,DIL	(25 - 101)			SW846 8270C
	NC,DIL	(25 - 101)		(0-40)	SW846 8270C
4-Chloro-3-methylphenol	NC,DIL	(32 - 97)			SW846 8270C
	NC,DIL	(32 - 97)		(0-40)	SW846 8270C
2-Chlorophenol	NC,DIL	(29 - 95)			SW846 8270C
	NC,DIL	(29 - 95)		(0-40)	SW846 8270C
1,4-Dichlorobenzene	NC,DIL	(34 - 81)			SW846 8270C
	NC,DIL	(34 - 81)		(0-40)	SW846 8270C
2,4-Dinitrotoluene	NC,DIL	(31 - 105)			SW846 8270C
	NC,DIL	(31 - 105)		(0-40)	SW846 8270C
4-Nitrophenol	NC,DIL	(10 - 128)			SW846 8270C
	NC,DIL	(10 - 128)		(0-40)	SW846 8270C
N-Nitrosodi-n-propyl-amine	NC,DIL	(33 - 91)			SW846 8270C
	NC,DIL	(33 - 91)		(0-40)	SW846 8270C
Pentachlorophenol	NC,DIL	(10 - 101)			SW846 8270C
	NC,DIL	(10 - 101)		(0-40)	SW846 8270C
Phenol	NC,DIL	(34 - 93)			SW846 8270C
	NC,DIL	(34 - 93)		(0-40)	SW846 8270C
Pyrene	NC,DIL	(13 - 105)			SW846 8270C
	NC,DIL	(13 - 105)		(0-40)	SW846 8270C
1,2,4-Trichloro-benzene	NC,DIL	(33 - 88)			SW846 8270C
	NC,DIL	(33 - 88)		(0-40)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	NC,DIL	(28 - 95)
	NC,DIL	(28 - 95)
Phenol-d5	NC,DIL	(35 - 90)
	NC,DIL	(35 - 90)
Nitrobenzene-d5	NC,DIL	(39 - 89)
	NC,DIL	(39 - 89)
2-Fluorobiphenyl	NC,DIL	(35 - 86)
	NC,DIL	(35 - 86)
2,4,6-Tribromophenol	NC,DIL	(11 - 111)
	NC,DIL	(11 - 111)

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: D4D030176 Work Order #...: GDE201AX-MS Matrix.....: SOLID
MS Lot-Sample #: D4D020177-001 GDE201A0-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Terphenyl-d14	NC,DIL	(30 - 98)
	NC,DIL	(30 - 98)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: D4D030176 Work Order #...: GDE201AX-MS Matrix.....: SOLID
MS Lot-Sample #: D4D020177-001 GDE201A0-MSD
Date Sampled...: 04/01/04 09:45 Date Received..: 04/02/04
Prep Date.....: 04/07/04 Analysis Date..: 04/22/04
Prep Batch #...: 4097621 Analysis Time..: 20:45
Dilution Factor: 5

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Acenaphthene	ND	0.0		ug/kg	NC,DIL		SW846 8270C
	ND	0.0		ug/kg	NC,DIL		SW846 8270C
4-Chloro-3-methylphenol	ND	0.0		ug/kg	NC,DIL		SW846 8270C
	ND	0.0		ug/kg	NC,DIL		SW846 8270C
2-Chlorophenol	ND	0.0		ug/kg	NC,DIL		SW846 8270C
	ND	0.0		ug/kg	NC,DIL		SW846 8270C
1,4-Dichlorobenzene	ND	0.0		ug/kg	NC,DIL		SW846 8270C
	ND	0.0		ug/kg	NC,DIL		SW846 8270C
2,4-Dinitrotoluene	ND	0.0		ug/kg	NC,DIL		SW846 8270C
	ND	0.0		ug/kg	NC,DIL		SW846 8270C
4-Nitrophenol	ND	0.0		ug/kg	NC,DIL		SW846 8270C
	ND	0.0		ug/kg	NC,DIL		SW846 8270C
N-Nitrosodi-n-propyl-amine	ND	0.0		ug/kg	NC,DIL		SW846 8270C
	ND	0.0		ug/kg	NC,DIL		SW846 8270C
Pentachlorophenol	ND	0.0		ug/kg	NC,DIL		SW846 8270C
	ND	0.0		ug/kg	NC,DIL		SW846 8270C
Phenol	ND	0.0		ug/kg	NC,DIL		SW846 8270C
	ND	0.0		ug/kg	NC,DIL		SW846 8270C
Pyrene	ND	0.0		ug/kg	NC,DIL		SW846 8270C
	ND	0.0		ug/kg	NC,DIL		SW846 8270C
1,2,4-Trichloro-benzene	ND	0.0		ug/kg	NC,DIL		SW846 8270C
	ND	0.0		ug/kg	NC,DIL		SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	NC,DIL	(28 - 95)
	NC,DIL	(28 - 95)
Phenol-d5	NC,DIL	(35 - 90)
	NC,DIL	(35 - 90)
Nitrobenzene-d5	NC,DIL	(39 - 89)
	NC,DIL	(39 - 89)
2-Fluorobiphenyl	NC,DIL	(35 - 86)
	NC,DIL	(35 - 86)
2,4,6-Tribromophenol	NC,DIL	(11 - 111)
	NC,DIL	(11 - 111)

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: D4D030176 Work Order #...: GDE201AX-MS Matrix.....: SOLID
MS Lot-Sample #: D4D020177-001 GDE201A0-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Terphenyl-d14	NC,DIL	(30 - 98)
	NC,DIL	(30 - 98)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: D4D030176
MB Lot-Sample #: D4D050000-552
Work Order #...: GDJ8X1AA
Matrix.....: SOLID
Prep Date.....: 04/06/04
Analysis Time..: 13:34
Analysis Date..: 04/28/04
Prep Batch #...: 4096552
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aldrin	ND	1.7	ug/kg	SW846 8081A
alpha-BHC	ND	1.7	ug/kg	SW846 8081A
beta-BHC	ND	1.7	ug/kg	SW846 8081A
delta-BHC	ND	1.7	ug/kg	SW846 8081A
gamma-BHC (Lindane)	ND	1.7	ug/kg	SW846 8081A
Chlordane (technical)	ND	17	ug/kg	SW846 8081A
4,4'-DDD	ND	1.7	ug/kg	SW846 8081A
4,4'-DDE	ND	1.7	ug/kg	SW846 8081A
4,4'-DDT	ND	1.7	ug/kg	SW846 8081A
Dieldrin	ND	1.7	ug/kg	SW846 8081A
Endrin	ND	1.7	ug/kg	SW846 8081A
Endrin aldehyde	ND	1.7	ug/kg	SW846 8081A
Endosulfan I	ND	1.7	ug/kg	SW846 8081A
Endosulfan II	ND	1.7	ug/kg	SW846 8081A
Endosulfan sulfate	ND	1.7	ug/kg	SW846 8081A
Heptachlor	ND	1.7	ug/kg	SW846 8081A
Heptachlor epoxide	ND	1.7	ug/kg	SW846 8081A
Methoxychlor	ND	3.3	ug/kg	SW846 8081A
Toxaphene	ND	170	ug/kg	SW846 8081A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	136	(41 - 142)
Tetrachloro-m-xylene	106	(50 - 127)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: D4D030176 Work Order #...: GDJ8X1AC Matrix.....: SOLID
LCS Lot-Sample#: D4D050000-552
Prep Date.....: 04/06/04 Analysis Date..: 04/24/04
Prep Batch #...: 4096552 Analysis Time..: 02:12
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Aldrin	101	(72 - 113)	SW846 8081A
gamma-BHC (Lindane)	98	(71 - 112)	SW846 8081A
4,4'-DDT	107	(66 - 125)	SW846 8081A
Dieldrin	106	(76 - 115)	SW846 8081A
Endrin	121	(73 - 124)	SW846 8081A
Heptachlor	101	(68 - 123)	SW846 8081A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	126	(66 - 128)
Tetrachloro-m-xylene	98	(65 - 119)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: D4D030176 Work Order #...: GDJ8X1AC Matrix.....: SOLID
LCS Lot-Sample#: D4D050000-552
Prep Date.....: 04/06/04 Analysis Date..: 04/24/04
Prep Batch #...: 4096552 Analysis Time..: 02:12
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Aldrin	16.7	16.8	ug/kg	101	SW846 8081A
gamma-BHC (Lindane)	16.7	16.3	ug/kg	98	SW846 8081A
4,4'-DDT	16.7	17.8	ug/kg	107	SW846 8081A
Dieldrin	16.7	17.7	ug/kg	106	SW846 8081A
Endrin	16.7	20.2	ug/kg	121	SW846 8081A
Heptachlor	16.7	16.9	ug/kg	101	SW846 8081A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	126	(66 - 128)
Tetrachloro-m-xylene	98	(65 - 119)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: D4D030176 Work Order #...: GET271AD-MS Matrix.....: SOLID
MS Lot-Sample #: D4D010150-002 GET271AE-MSD
Date Sampled...: 03/29/04 08:04 Date Received..: 03/30/04
Prep Date.....: 04/06/04 Analysis Date..: 04/24/04
Prep Batch #...: 4096552 Analysis Time..: 03:09
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Aldrin	NC,DIL	(56 - 117)			SW846 8081A
	NC,DIL	(56 - 117)		(0-30)	SW846 8081A
gamma-BHC (Lindane)	NC,DIL	(55 - 122)			SW846 8081A
	NC,DIL	(55 - 122)		(0-30)	SW846 8081A
4,4'-DDT	NC,DIL	(47 - 132)			SW846 8081A
	NC,DIL	(47 - 132)		(0-30)	SW846 8081A
Dieldrin	NC,DIL	(57 - 117)			SW846 8081A
	NC,DIL	(57 - 117)		(0-30)	SW846 8081A
Endrin	NC,DIL	(56 - 130)			SW846 8081A
	NC,DIL	(56 - 130)		(0-30)	SW846 8081A
Heptachlor	NC,DIL	(41 - 134)			SW846 8081A
	NC,DIL	(41 - 134)		(0-30)	SW846 8081A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	NC,DIL	(41 - 142)
	NC,DIL	(41 - 142)
Tetrachloro-m-xylene	NC,DIL	(50 - 127)
	NC,DIL	(50 - 127)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

MATRIX SPIKE SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: D4D030176 Work Order #...: GET271AD-MS Matrix.....: SOLID
MS Lot-Sample #: D4D010150-002 GET271AE-MSD
Date Sampled...: 03/29/04 08:04 Date Received..: 03/30/04
Prep Date.....: 04/06/04 Analysis Date..: 04/24/04
Prep Batch #...: 4096552 Analysis Time..: 03:09
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Aldrin	ND			ug/kg	NC,DIL		SW846 8081A
	ND			ug/kg	NC,DIL		SW846 8081A
gamma-BHC (Lindane)	ND			ug/kg	NC,DIL		SW846 8081A
	ND			ug/kg	NC,DIL		SW846 8081A
4,4'-DDT	ND			ug/kg	NC,DIL		SW846 8081A
	ND			ug/kg	NC,DIL		SW846 8081A
Dieldrin	ND			ug/kg	NC,DIL		SW846 8081A
	ND			ug/kg	NC,DIL		SW846 8081A
Endrin	ND			ug/kg	NC,DIL		SW846 8081A
	ND			ug/kg	NC,DIL		SW846 8081A
Heptachlor	ND			ug/kg	NC,DIL		SW846 8081A
	ND			ug/kg	NC,DIL		SW846 8081A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	NC,DIL	(41 - 142)
	NC,DIL	(41 - 142)
Tetrachloro-m-xylene	NC,DIL	(50 - 127)
	NC,DIL	(50 - 127)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: D4D030176 Work Order #...: GDHT41AA Matrix.....: SOLID
MB Lot-Sample #: D4D040000-125

Prep Date.....: 04/04/04 Analysis Time..: 07:01
Analysis Date..: 04/12/04 Prep Batch #...: 4095125
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Azinphos-methyl	ND	13	ug/kg	SW846 8141A
Bolstar	ND	13	ug/kg	SW846 8141A
Chlorpyrifos	ND	13	ug/kg	SW846 8141A
Coumaphos	ND	13	ug/kg	SW846 8141A
Demeton (total)	ND	13	ug/kg	SW846 8141A
Diazinon	ND	13	ug/kg	SW846 8141A
Dichlorvos	ND	13	ug/kg	SW846 8141A
Dimethoate	ND	13	ug/kg	SW846 8141A
Disulfoton	ND	13	ug/kg	SW846 8141A
Ethoprop	ND	13	ug/kg	SW846 8141A
Ethyl parathion	ND	13	ug/kg	SW846 8141A
Famphur	ND	13	ug/kg	SW846 8141A
Fensulfothion	ND	13	ug/kg	SW846 8141A
Fenthion	ND	13	ug/kg	SW846 8141A
Malathion	ND	13	ug/kg	SW846 8141A
Merphos	ND	13	ug/kg	SW846 8141A
Methyl parathion	ND	13	ug/kg	SW846 8141A
Mevinphos	ND	13	ug/kg	SW846 8141A
Naled	ND	33	ug/kg	SW846 8141A
O,O,O-Triethylphosphoro-thioate	ND	13	ug/kg	SW846 8141A
Phorate	ND	13	ug/kg	SW846 8141A
Ronnel	ND	67	ug/kg	SW846 8141A
Sulfotepp	ND	13	ug/kg	SW846 8141A
Thionazin	ND	13	ug/kg	SW846 8141A
Tokuthion	ND	13	ug/kg	SW846 8141A
Trichloronate	ND	13	ug/kg	SW846 8141A
EPN	ND	13	ug/kg	SW846 8141A
Demeton-O	ND	13	ug/kg	SW846 8141A
Demeton-S	ND	13	ug/kg	SW846 8141A
Tetrachlorvinphos (Stirop	ND	13	ug/kg	SW846 8141A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Ethyl Pirimifos	70	(11 - 137)
Chlormefos	76	(37 - 124)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: D4D030176 Work Order #...: GDHT41AC-LCS Matrix.....: SOLID
LCS Lot-Sample#: D4D040000-125 GDHT41AD-LCSD
Prep Date.....: 04/04/04 Analysis Date..: 04/12/04
Prep Batch #...: 4095125 Analysis Time..: 07:35
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Demeton (total)	**116 a**	**(27 - 104)**			**SW846 8141A**
	32 p	**(27 - 104)**	**113**	**(0-40)**	**SW846 8141A**
Diazinon	**175 a**	**(60 - 135)**			**SW846 8141A**
	180 a	**(60 - 135)**	**3.0**	**(0-40)**	**SW846 8141A**
Ethyl parathion	**138 a**	**(74 - 127)**			**SW846 8141A**
	166 a	**(74 - 127)**	**19**	**(0-40)**	**SW846 8141A**
Malathion	**168 a**	**(64 - 138)**			**SW846 8141A**
	165 a	**(64 - 138)**	**1.5**	**(0-40)**	**SW846 8141A**
Methyl parathion	**151 a**	**(72 - 108)**			**SW846 8141A**
	171 a	**(72 - 108)**	**12**	**(0-40)**	**SW846 8141A**
Phorate	**160 a**	**(58 - 106)**			**SW846 8141A**
	135 a	**(58 - 106)**	**17**	**(0-40)**	**SW846 8141A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Ethyl Pirimifos	88	(36 - 118)
	76	(36 - 118)
Chlormefos	83	(59 - 112)
	84	(59 - 112)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

p Relative percent difference (RPD) is outside stated control limits.

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: D4D030176 Work Order #...: GDHT41AC-LCS Matrix.....: SOLID
LCS Lot-Sample#: D4D040000-125 GDHT41AD-LCSD
Prep Date.....: 04/04/04 Analysis Date..: 04/12/04
Prep Batch #...: 4095125 Analysis Time..: 07:35
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Demeton (total)	66.7	77.2 a	ug/kg	116		SW846 8141A
	66.7	21.6 p	ug/kg	32	113	SW846 8141A
Diazinon	66.7	116 a	ug/kg	175		SW846 8141A
	66.7	120 a	ug/kg	180	3.0	SW846 8141A
Ethyl parathion	66.7	91.9 a	ug/kg	138		SW846 8141A
	66.7	111 a	ug/kg	166	19	SW846 8141A
Malathion	66.7	112 a	ug/kg	168		SW846 8141A
	66.7	110 a	ug/kg	165	1.5	SW846 8141A
Methyl parathion	66.7	101 a	ug/kg	151		SW846 8141A
	66.7	114 a	ug/kg	171	12	SW846 8141A
Phorate	66.7	106 a	ug/kg	160		SW846 8141A
	66.7	90.1 a	ug/kg	135	17	SW846 8141A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Ethyl Pirimifos	88	(36 - 118)
	76	(36 - 118)
Chlormefos	83	(59 - 112)
	84	(59 - 112)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

p Relative percent difference (RPD) is outside stated control limits.

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: D4D030176 Work Order #...: GCQ2E1DC-MS Matrix.....: SOLID
MS Lot-Sample #: D4C230295-008 GCQ2E1DD-MSD
Date Sampled...: 03/22/04 09:45 Date Received..: 03/23/04
Prep Date.....: 04/04/04 Analysis Date..: 04/12/04
Prep Batch #...: 4095125 Analysis Time..: 09:47
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Demeton (total)	227 a	(33 - 131)			SW846 8141A
	207 a	(33 - 131)	9.3	(0-40)	SW846 8141A
Diazinon	228 a	(20 - 168)			SW846 8141A
	214 a	(20 - 168)	6.4	(0-40)	SW846 8141A
Ethyl parathion	170	(20 - 175)			SW846 8141A
	170	(20 - 175)	0.26	(0-40)	SW846 8141A
Malathion	184 a	(42 - 148)			SW846 8141A
	186 a	(42 - 148)	1.3	(0-40)	SW846 8141A
Methyl parathion	177 a	(35 - 129)			SW846 8141A
	179 a	(35 - 129)	1.0	(0-40)	SW846 8141A
Phorate	201 a	(20 - 145)			SW846 8141A
	193 a	(20 - 145)	4.0	(0-40)	SW846 8141A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Ethyl Pirimifos	80	(11 - 137)
	78	(11 - 137)
Chlormefos	106	(37 - 124)
	100	(37 - 124)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: D4D030176 Work Order #...: GCQ2E1DC-MS Matrix.....: SOLID
MS Lot-Sample #: D4C230295-008 GCQ2E1DD-MSD
Date Sampled...: 03/22/04 09:45 Date Received..: 03/23/04
Prep Date.....: 04/04/04 Analysis Date..: 04/12/04
Prep Batch #...: 4095125 Analysis Time..: 09:47
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Demeton (total)	ND	93.0	211	ug/kg	227 a		SW846 8141A
	ND	93.0	192	ug/kg	207 a	9.3	SW846 8141A
Diazinon	ND	93.0	212	ug/kg	228 a		SW846 8141A
	ND	93.0	199	ug/kg	214 a	6.4	SW846 8141A
Ethyl parathion	ND	93.0	158	ug/kg	170		SW846 8141A
	ND	93.0	158	ug/kg	170	0.26	SW846 8141A
Malathion	ND	93.0	171	ug/kg	184 a		SW846 8141A
	ND	93.0	173	ug/kg	186 a	1.3	SW846 8141A
Methyl parathion	ND	93.0	164	ug/kg	177 a		SW846 8141A
	ND	93.0	166	ug/kg	179 a	1.0	SW846 8141A
Phorate	ND	93.0	187	ug/kg	201 a		SW846 8141A
	ND	93.0	180	ug/kg	193 a	4.0	SW846 8141A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Ethyl Pirimifos	80	(11 - 137)
	78	(11 - 137)
Chlormefos	106	(37 - 124)
	100	(37 - 124)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: D4D030176
MB Lot-Sample #: D4D070000-553
Work Order #...: GDQNR1AA
Matrix.....: SOLID
Prep Date.....: 04/08/04
Analysis Time..: 17:39
Analysis Date..: 04/13/04
Prep Batch #...: 4098553
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
2,4-D	ND	80	ug/kg	SW846 8151A
2,4-DB	ND	80	ug/kg	SW846 8151A
2,4,5-T	ND	20	ug/kg	SW846 8151A
2,4,5-TP (Silvex)	ND	20	ug/kg	SW846 8151A
Dalapon	ND	40	ug/kg	SW846 8151A
Dicamba	ND	40	ug/kg	SW846 8151A
Dichlorprop	ND	80	ug/kg	SW846 8151A
Dinoseb	ND	12	ug/kg	SW846 8151A
MCPA	ND	8000	ug/kg	SW846 8151A
MCPP	ND	8000	ug/kg	SW846 8151A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
DCAA	96	(39 - 96)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: D4D030176 Work Order #...: GDQNR1AC-LCS Matrix.....: SOLID
LCS Lot-Sample#: D4D070000-553 GDQNR1AD-LCSD
Prep Date.....: 04/08/04 Analysis Date..: 04/13/04
Prep Batch #...: 4098553 Analysis Time..: 18:20
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
2,4-D	93 a	(26 - 92)			SW846 8151A
	89	(26 - 92)	5.1	(0-40)	SW846 8151A
2,4,5-T	111	(26 - 115)			SW846 8151A
	108	(26 - 115)	2.6	(0-40)	SW846 8151A
2,4,5-TP (Silvex)	112	(31 - 114)			SW846 8151A
	110	(31 - 114)	2.1	(0-40)	SW846 8151A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
DCAA	102 *	(39 - 96)
	95	(39 - 96)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

* Surrogate recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: D4D030176 Work Order #...: GDQNR1AC-LCS Matrix.....: SOLID
LCS Lot-Sample#: D4D070000-553 GDQNR1AD-LCSD
Prep Date.....: 04/08/04 Analysis Date..: 04/13/04
Prep Batch #...: 4098553 Analysis Time..: 18:20
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
2,4-D	64.0	59.8 a	ug/kg	93		SW846 8151A
	64.0	56.8	ug/kg	89	5.1	SW846 8151A
2,4,5-T	16.0	17.7	ug/kg	111		SW846 8151A
	16.0	17.3	ug/kg	108	2.6	SW846 8151A
2,4,5-TP (Silvex)	16.0	18.0	ug/kg	112		SW846 8151A
	16.0	17.6	ug/kg	110	2.1	SW846 8151A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
DCAA	102 *	(39 - 96)
	95	(39 - 96)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

* Surrogate recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: D4D030176 Work Order #...: GDPJ41AJ-MS Matrix.....: SOLID
MS Lot-Sample #: D4D070249-001 GDPJ41AK-MSD
Date Sampled...: 04/05/04 Date Received..: 04/07/04
Prep Date.....: 04/08/04 Analysis Date..: 04/14/04
Prep Batch #...: 4098553 Analysis Time..: 02:38
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
2,4-D	103 a	(26 - 92)			SW846 8151A
	81	(26 - 92)	23	(0-40)	SW846 8151A
2,4,5-T	121 a	(26 - 115)			SW846 8151A
	103	(26 - 115)	16	(0-40)	SW846 8151A
2,4,5-TP (Silvex)	120 a	(31 - 114)			SW846 8151A
	101	(31 - 114)	17	(0-40)	SW846 8151A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
DCAA	103 *	(39 - 96)
	88	(39 - 96)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

* Surrogate recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: D4D030176 Work Order #...: GDPJ41AJ-MS Matrix.....: SOLID
MS Lot-Sample #: D4D070249-001 GDPJ41AK-MSD
Date Sampled...: 04/05/04 Date Received..: 04/07/04
Prep Date.....: 04/08/04 Analysis Date..: 04/14/04
Prep Batch #...: 4098553 Analysis Time..: 02:38
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
2,4-D	ND	64.0	65.6	ug/kg	103 a		SW846 8151A
	ND	64.0	52.1	ug/kg	81	23	SW846 8151A
2,4,5-T	ND	16.0	19.4	ug/kg	121 a		SW846 8151A
	ND	16.0	16.5	ug/kg	103	16	SW846 8151A
2,4,5-TP (Silvex)	ND	16.0	19.2	ug/kg	120 a		SW846 8151A
	ND	16.0	16.2	ug/kg	101	17	SW846 8151A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
DCAA	103 *	(39 - 96)
	88	(39 - 96)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

* Surrogate recovery is outside stated control limits.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: D4D030176 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: D4D050000-254 Prep Batch #...: 4096254						
Mercury	ND	33	ug/kg	SW846 7471A	04/13-04/14/04	GDH7J1AA
		Dilution Factor: 1				
		Analysis Time..: 11:44				
MB Lot-Sample #: D4D060000-647 Prep Batch #...: 4097647						
Arsenic	ND	1.0	mg/kg	SW846 6010B	04/09-04/17/04	GDM8G1AC
		Dilution Factor: 1				
		Analysis Time..: 01:24				
Lead	ND	0.80	mg/kg	SW846 6010B	04/09-04/17/04	GDM8G1AK
		Dilution Factor: 1				
		Analysis Time..: 01:24				
Selenium	ND	1.3	mg/kg	SW846 6010B	04/09-04/17/04	GDM8G1AN
		Dilution Factor: 1				
		Analysis Time..: 01:24				
Barium	ND	1.0	mg/kg	SW846 6010B	04/09-04/17/04	GDM8G1AD
		Dilution Factor: 1				
		Analysis Time..: 01:24				
Cadmium	ND	0.50	mg/kg	SW846 6010B	04/09-04/17/04	GDM8G1AF
		Dilution Factor: 1				
		Analysis Time..: 01:24				
Chromium	ND	1.0	mg/kg	SW846 6010B	04/09-04/17/04	GDM8G1AG
		Dilution Factor: 1				
		Analysis Time..: 01:24				
Silver	ND	1.0	mg/kg	SW846 6010B	04/09-04/17/04	GDM8G1AP
		Dilution Factor: 1				
		Analysis Time..: 01:24				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: D4D030176 Matrix.....: SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: D4D050000-254 Prep Batch #...: 4096254					
Mercury	90	(82 - 113)	SW846 7471A	04/13-04/14/04	GDH7J1AC
		Dilution Factor: 1	Analysis Time..: 11:46		
LCS Lot-Sample#: D4D060000-647 Prep Batch #...: 4097647					
Arsenic	89	(80 - 111)	SW846 6010B	04/09-04/17/04	GDM8G1AV
		Dilution Factor: 1	Analysis Time..: 01:29		
Lead	91	(80 - 116)	SW846 6010B	04/09-04/17/04	GDM8G1A4
		Dilution Factor: 1	Analysis Time..: 01:29		
Selenium	88	(80 - 112)	SW846 6010B	04/09-04/17/04	GDM8G1A7
		Dilution Factor: 1	Analysis Time..: 01:29		
Barium	97	(80 - 117)	SW846 6010B	04/09-04/17/04	GDM8G1AW
		Dilution Factor: 1	Analysis Time..: 01:29		
Cadmium	88	(80 - 119)	SW846 6010B	04/09-04/17/04	GDM8G1A0
		Dilution Factor: 1	Analysis Time..: 01:29		
Chromium	94	(80 - 120)	SW846 6010B	04/09-04/17/04	GDM8G1A1
		Dilution Factor: 1	Analysis Time..: 01:29		
Silver	93	(80 - 109)	SW846 6010B	04/09-04/17/04	GDM8G1A8
		Dilution Factor: 1	Analysis Time..: 01:29		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: D4D030176 Matrix.....: SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: D4D050000-254 Prep Batch #...: 4096254							
Mercury	833	750	ug/kg	90	SW846 7471A	04/13-04/14/04	GDH7J1AC
			Dilution Factor: 1		Analysis Time..: 11:46		
LCS Lot-Sample#: D4D060000-647 Prep Batch #...: 4097647							
Arsenic	200	177	mg/kg	89	SW846 6010B	04/09-04/17/04	GDM8G1AV
			Dilution Factor: 1		Analysis Time..: 01:29		
Lead	50.0	45.6	mg/kg	91	SW846 6010B	04/09-04/17/04	GDM8G1A4
			Dilution Factor: 1		Analysis Time..: 01:29		
Selenium	200	177	mg/kg	88	SW846 6010B	04/09-04/17/04	GDM8G1A7
			Dilution Factor: 1		Analysis Time..: 01:29		
Barium	200	193	mg/kg	97	SW846 6010B	04/09-04/17/04	GDM8G1AW
			Dilution Factor: 1		Analysis Time..: 01:29		
Cadmium	5.00	4.40	mg/kg	88	SW846 6010B	04/09-04/17/04	GDM8G1A0
			Dilution Factor: 1		Analysis Time..: 01:29		
Chromium	20.0	18.7	mg/kg	94	SW846 6010B	04/09-04/17/04	GDM8G1A1
			Dilution Factor: 1		Analysis Time..: 01:29		
Silver	5.00	4.65	mg/kg	93	SW846 6010B	04/09-04/17/04	GDM8G1A8
			Dilution Factor: 1		Analysis Time..: 01:29		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: D4D030176 Matrix.....: SOLID
Date Sampled...: 03/29/04 Date Received..: 03/30/04

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: D4C300294-001 Prep Batch #...: 4096254							
Mercury	104	(82 - 113)			SW846 7471A	04/13-04/14/04	GC7TP1CE
	93	(82 - 113)	10	(0-20)	SW846 7471A	04/13-04/14/04	GC7TP1CF

Dilution Factor: 1
Analysis Time..: 11:50

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: D4D030176 Matrix.....: SOLID
Date Sampled...: 03/29/04 Date Received..: 03/30/04

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: D4C300294-001 Prep Batch #...: 4096254									
Mercury									
	44	966	1050	ug/kg	104		SW846 7471A	04/13-04/14/04	GC7TP1CE
	44	966	945	ug/kg	93	10	SW846 7471A	04/13-04/14/04	GC7TP1CF

Dilution Factor: 1
Analysis Time..: 11:50

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.
Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: D4D030176 Matrix.....: SOLID
Date Sampled...: 04/01/04 09:45 Date Received..: 04/02/04

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: D4D020177-001 Prep Batch #...: 4097647							
Arsenic	44 N	(76 - 111)			SW846 6010B	04/09-04/17/04	GDE201A3
	76 *	(76 - 111)	52	(0-30)	SW846 6010B	04/09-04/17/04	GDE201A4
		Dilution Factor: 1					
		Analysis Time..: 01:42					
Lead	44 N	(70 - 200)			SW846 6010B	04/09-04/17/04	GDE201CJ
	79 *	(70 - 200)	54	(0-40)	SW846 6010B	04/09-04/17/04	GDE201CK
		Dilution Factor: 1					
		Analysis Time..: 01:42					
Selenium	46 N	(76 - 104)			SW846 6010B	04/09-04/17/04	GDE201CQ
	77 *	(76 - 104)	51	(0-30)	SW846 6010B	04/09-04/17/04	GDE201CR
		Dilution Factor: 1					
		Analysis Time..: 01:42					
Barium	52	(52 - 159)			SW846 6010B	04/09-04/17/04	GDE201A5
	112 *	(52 - 159)	53	(0-30)	SW846 6010B	04/09-04/17/04	GDE201A6
		Dilution Factor: 1					
		Analysis Time..: 01:42					
Cadmium	40	(40 - 130)			SW846 6010B	04/09-04/17/04	GDE201A9
	72 *	(40 - 130)	56	(0-30)	SW846 6010B	04/09-04/17/04	GDE201CA
		Dilution Factor: 1					
		Analysis Time..: 01:42					
Chromium	136	(70 - 200)			SW846 6010B	04/09-04/17/04	GDE201CC
	119	(70 - 200)	8.6	(0-40)	SW846 6010B	04/09-04/17/04	GDE201CD
		Dilution Factor: 1					
		Analysis Time..: 01:42					
Silver	45 N	(75 - 141)			SW846 6010B	04/09-04/17/04	GDE201CT
	79 *	(75 - 141)	51	(0-30)	SW846 6010B	04/09-04/17/04	GDE201CU
		Dilution Factor: 1					
		Analysis Time..: 01:42					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

* Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: D4D030176 Matrix.....: SOLID
Date Sampled...: 04/01/04 09:45 Date Received..: 04/02/04

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: D4D020177-001 Prep Batch #...: 4097647									
Arsenic									
	1.7	207	92.6 N	mg/kg	44		SW846 6010B	04/09-04/17/04	GDE201A3
	1.7	207	158 *	mg/kg	76	52	SW846 6010B	04/09-04/17/04	GDE201A4
			Dilution Factor: 1						
			Analysis Time..: 01:42						
Lead									
	2.1	51.7	25.0 N	mg/kg	44		SW846 6010B	04/09-04/17/04	GDE201CJ
	2.1	51.7	43.2 *	mg/kg	79	54	SW846 6010B	04/09-04/17/04	GDE201CK
			Dilution Factor: 1						
			Analysis Time..: 01:42						
Selenium									
	ND	207	94.9 N	mg/kg	46		SW846 6010B	04/09-04/17/04	GDE201CQ
	ND	207	160 *	mg/kg	77	51	SW846 6010B	04/09-04/17/04	GDE201CR
			Dilution Factor: 1						
			Analysis Time..: 01:42						
Barium									
	67	207	173	mg/kg	52		SW846 6010B	04/09-04/17/04	GDE201A5
	67	207	298 *	mg/kg	112	53	SW846 6010B	04/09-04/17/04	GDE201A6
			Dilution Factor: 1						
			Analysis Time..: 01:42						
Cadmium									
	ND	5.17	2.09	mg/kg	40		SW846 6010B	04/09-04/17/04	GDE201A9
	ND	5.17	3.73 *	mg/kg	72	56	SW846 6010B	04/09-04/17/04	GDE201CA
			Dilution Factor: 1						
			Analysis Time..: 01:42						
Chromium									
	13	20.7	40.8	mg/kg	136		SW846 6010B	04/09-04/17/04	GDE201CC
	13	20.7	37.5	mg/kg	119	8.6	SW846 6010B	04/09-04/17/04	GDE201CD
			Dilution Factor: 1						
			Analysis Time..: 01:42						
Silver									
	0.18	5.17	2.53 N	mg/kg	45		SW846 6010B	04/09-04/17/04	GDE201CT
	0.18	5.17	4.24 *	mg/kg	79	51	SW846 6010B	04/09-04/17/04	GDE201CU
			Dilution Factor: 1						
			Analysis Time..: 01:42						

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: D4D030176 Matrix.....: SOLID
Date Sampled...: 04/01/04 09:45 Date Received..: 04/02/04

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

* Relative percent difference (RPD) is outside stated control limits.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: D4D030176 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Fluoride		Work Order #: GECM61AA		MB Lot-Sample #:	D4D160000-487	
	ND	10	mg/kg	SW846 9056	04/15/04	4107487
		Dilution Factor: 1				
		Analysis Time..: 15:42				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Lot-Sample #...: D4D030176 Matrix.....: SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Fluoride		WO#:GECM61AC-LCS/GECM61AD-LCSD				LCS Lot-Sample#: D4D160000-487	
	98	(90 - 110)			SW846 9056	04/15/04	4107487
	100	(90 - 110)	1.9	(0-10)	SW846 9056	04/15/04	4107487

Dilution Factor: 1 Analysis Time..: 15:20

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Lot-Sample #...: D4D030176 Matrix.....: SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Fluoride		WO#:GECM61AC-LCS/GECM61AD-LCSD				LCS Lot-Sample#: D4D160000-487		
	40.0	39.3	mg/kg	98		SW846 9056	04/15/04	4107487
	40.0	40.0	mg/kg	100	1.9	SW846 9056	04/15/04	4107487

Dilution Factor: 1 Analysis Time..: 15:20

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: D4D030176 Matrix.....: SOLID
Date Sampled...: 04/01/04 12:30 Date Received..: 04/03/04

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Fluoride		WO#: GDHQL1AV-MS/GDHQL1AW-MSD				MS Lot-Sample #: D4D030176-001	
	94	(80 - 120)			SW846 9056	04/15/04	4107487
	94	(80 - 120)	0.48	(0-10)	SW846 9056	04/15/04	4107487
		Dilution Factor: 1					
		Analysis Time..: 16:05					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: D4D030176 Matrix.....: SOLID
Date Sampled...: 04/01/04 12:30 Date Received..: 04/03/04

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Fluoride			WO#: GDHQL1AV-MS/GDHQL1AW-MSD				MS Lot-Sample #: D4D030176-001		
	ND	50.8	48.4	mg/kg	94		SW846 9056	04/15/04	4107487
	ND	50.8	48.6	mg/kg	94	0.48	SW846 9056	04/15/04	4107487

Dilution Factor: 1
Analysis Time..: 16:05

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: D4D030176 Work Order #...: GD518-SMP Matrix.....: SOLID
GD518-DUP
Date Sampled...: 04/12/04 14:30 Date Received..: 04/14/04
% Moisture.....: 20

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture						SD Lot-Sample #:	D4D140295-001	
	20	19	%	8.6	(0-20)	MCAWW 160.3 MOD	04/19/04	4110593

Dilution Factor: 1 Analysis Time..: 17:35

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: D4D030176 Work Order #...: GD8HQ-SMP Matrix.....: SOLID
GD8HQ-DUP
Date Sampled...: 04/09/04 12:15 Date Received..: 04/15/04
% Moisture.....: 21

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture						SD Lot-Sample #:	D4D150302-001	
	21	19	%	9.9	(0-20)	MCAWW 160.3 MOD	04/20/04	4111603

Dilution Factor: 1 Analysis Time..: 17:15

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: D4D030176 Work Order #...: GEFX5-SMP Matrix.....: SOLID
GEFX5-DUP

Date Sampled...: 04/14/04 13:20 Date Received..: 04/19/04

% Moisture.....: 14

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture						SD Lot-Sample #:	D4D190181-013	
	14	15	%	6.5	(0-20)	MCAWW 160.3 MOD	04/20/04	4111603

Dilution Factor: 1 Analysis Time..: 17:15

2.3 oc
DJ
4/3/04

Chain of Custody Record

SEVERN TRENT STL
Severn Trent Laboratories, Inc.

STL Denver
4955 Yarrow Street
Arvada, CO 80002

TL-4124 (0901)

Client	LES / COOK-JOYCE, INC
Address	812 W. 11TH
City	AUSTIN
State	TX
Zip Code	78701
Project Manager	DOUG GRANGER (CSI)
Telephone Number (Area Code)/Fax Number	512/474-9097 / 512-474-8463
Site Contact	DOUG GRANGER
Lab Contact	GAIL DEVIZIO
Carrier/Waybill Number	
Project Name and Location (State)	LES - LEA CO. NM
Contract/Purchase Order/Quote No.	
Date	4/2/04
Chain of Custody Number	304444
Lab Number	
Page ____ of ____	

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	ICE	VOC 8260B	SVOC 8270C	RCRA METALS	PESTICIDES	HERBICIDES	FUNGICIDES	FLUORIDE CONP	Special Instructions/ Conditions of Receipt
SS-2	4/1	12:30				X							X	X	X	X	X	X	X	X	RCRA & METALS METHOD A;
SS-6	4/1	10:40				X							X	X	X	X	X	X	X	X	0.06 - 0.75 PPb
SS-9	4/1	3:15				X							X	X	X	X	X	X	X	X	
SS-11	4/1	10:00				X							X	X	X	X	X	X	X	X	PEST 8081A
SS-12	4/1	3:40				X							X	X	X	X	X	X	X	X	HERB 8141A
SS-13	4/1	4:10				X							X	X	X	X	X	X	X	X	FUNG 8151A
SS-15	4/1	1:10				X							X	X	X	X	X	X	X	X	FLUORIDE 9056
SS-16	4/1	2:40				X							X	X	X	X	X	X	X	X	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☑ Archive For 2 Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other ____

QC Requirements (Specify)

1. Relinquished By: Doug Granger	Date: 4/2/02	Time: 12:30	1. Received By: [signature]	Date: 4-3-04	Time: 0830
2. Relinquished By	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy