REPORT

Engineering Evaluation/ Cost Analysis Report

68th Street Landfill Site
Rosedale, Maryland

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ERM Project No.: 0049608

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RESPONSE TO COMMENTS

ENGINEERING EVALUATION COST ANALYSIS REPORT
68TH STREET LANDFILL SITE
APRIL 10, 2008

Responses to comments issued by the U.S. Environmental Protection Agency (USEPA), Region III, the USEPA Biological Technical Assistance Group, and the Maryland Department of the Environment (MDE) relative to the Engineering Evaluation Cost Analysis (EE/CA) Report, dated April 10, 2008, are presented herein. Each comment is presented verbatim in *italics* with a direct response to the comment immediately below. The responses have been incorporated in the revised EE/CA Report as denoted herein. Additionally, minor modifications to the text and Figure 3 have been made to distinguish three (3) Points Of Interest (POIs) that require laboratory testing to refine the field screening results.

USEPA-REGION III

1. *Eliminate field workers during RI activities as receptors since they are performing all of their activities under the Health and Safety Plan. Discuss the additional objective to evaluate and if necessary remediate, isolated areas with elevated levels of contamination.*

   Response:

   The Health and Safety Plan (HASP) is a reference for the conduct of safe work when working with, or in proximity to, contaminants; however, health and safety is enhanced when materials with elevated concentrations have been removed. Nonetheless, field workers have been removed as a receptor from the report. The objectives have been added to Section 1.0 for reference purposes.

2. *Discuss the purpose of the "screening levels."*

   Response:

   The screening levels are the concentrations established in the EE/CA Work Plan to determine when the POI sampling area needed to be expanded for additional screening during the EE/CA investigation to more effectively delineate the impacted area. An action level,

however, is established in the EE/CA Report to govern the removal activities. Clarification of these terms has been provided in Section 1 of the EE/CA Report.

3. *Pg. 6 In Section 2.3.3, the exposure scenario considered in the development of screening levels should be clearly stated.*

Response:

The screening levels established in the EE/CA Work Plan were based on the EPA Region 3 risk-based concentrations for industrial soils generally set at a mid-range human health cancer risk of 1×10^{-5} for carcinogenic constituents (i.e., arsenic) and a hazard quotient of 1 for non-carcinogens (i.e., cadmium and chromium). As appropriate, the values were then arithmetically rounded to a value more usable for field screening.

Specifically, the screening values were derived by first reviewing the historic data to identify previously detected constituents in each management area. From these data, the most representative constituents for each analyte group (i.e., total VOCs, total SVOCs, and total pesticides) were selected and used to set the screening levels. The approach used to set the screening levels is provided in the following table.

Parameter	EPA Region 3 RBC for industrial soil [1] (mg/kg)	Screening Value (mg/kg)
Total VOCs	5.3[2]	50 [3]
Total SVOCs	0.39 to 39 [4]	50 [3]
Total PCBs	1.4	15 [3]
Total Pesticides	8.4	10 [5]
Arsenic	1.9	10 [6]
Cadmium	1000	1000
Chromium	3100	3000
Lead	400	400

[1] – Values taken from EPA Region 3 Risk-Based Concentrations (October 2007) set at cancer risk of 1.0×10^{-6} or noncancer risk of 1.0.

[2] – VOCs were not typically observed in historic samples; however, tetrachloroethene observed in MA-E was used to set the screening level for VOCs.

[3] - Screening value adjusted to cancer risk of 1x 10-5 and rounded to a value more easily used for field screening.

[4] – Few, and relatively low concentration, exceedances of SVOCs have been observed in the historic data for each Management Area. Of the SVOCs, polynuclear aromatic hydrocarbons (PAHs) were observed most frequently. To represent the PAHs, a range of risk-based concentrations was considered whereby the mid-range concentration was used as the basis to set the screening level (i.e., RBC for benzo(a)fluoranthene is 3.9 mg/kg).

[5] – DDT was the most observed pesticide. To consider additive effects of other pesticides, the screening value was not adjusted to a higher cancer risk level; however, the value was rounded to a value more easily used for field screening.

[6] - Screening value adjusted to cancer risk of 1x 10-5 and rounded down to a value for field screening because of its pervasive nature at the site.

Section 2.3.3 has been modified accordingly.

4. *Pg. 6 Section 2.3.3.1 should indicate that arsenic detections above 150 mg/kg in soil represent an excess cancer risk of 1E-04 or greater.*

Response:

The text has been modified accordingly.

5. *Pg. 7 Section 2.3.3.4 should indicate that chromium detections above 30,000 mg/kg in soil represent a Hazard Quotient of 10 or greater.*

Response:

The text has been modified accordingly.

6. *Pg. 9 Provide a title on the chart presenting the calibration and field screening results. Discuss the results of field screening versus laboratory analysis.*

Response:

Section 2.3.5 has been updated to include a more thorough discussion pertaining to the relationship between the field screening and laboratory results. A title has also been added to the table.

7. *Section 2.3.6 Please include a reference to Figures 2 and 3 and to Section 4.2.3 which provides additional information on the POIs.*

Response:

The text has been modified accordingly.

8. *Pg. 12 In the second paragraph, provide the rationale why metals are excluded from the assumption that multiple contaminants could be present in surface soil. Also in the second paragraph, the exposure scenario considered in the development of screening levels should be clearly stated.*

Response:

The intent of the statement was to clarify that VOCs, SVOCs, PCBs, and pesticides were screened for "total" concentrations which could include multiple compounds within an elemental group. However, metals were screened for specific compounds; i.e., arsenic, lead, cadmium, and chromium, rather than a "total" concentration for metals. Section 2.4.1.1 has been modified to clarify these statements.

9. *Pg. 12 The soil screening levels presented in the report are based solely on direct contact, and do not consider soil-to-groundwater transport of contamination. This fate-and-transport issue should be thoroughly addressed in the pending RI Report.*

As an example, the screening level for Total SVOCs (50 mg/kg) would not be protective for benzo(a)pyrene under a long-term commercial exposure scenario. This conclusion may also hold true for other individual chemicals in this category (Total SVOCs), as well as in the other listed categories (Total VOCs, Total PCBs, and Total Pesticides). While this probably does not represent a problem for short-term exposures, the report should more accurately characterize the protectiveness of the screening levels.

According to Section 2.4.1.2, the human receptors most likely to contact CoPCs at the site are "limited to on-site field workers during the Site investigations for the RI/FS activities and trespassers." Based on this, the purpose of the EE/CA appears to be protection of these receptors under very specific exposure conditions. Note, however, that this approach does not rule out any on-site areas (including those addressed by the EE/CA) from further investigation or clean-up due to risks associated with chronic or more frequent exposures (current or future).

Response:

The primary objective of the EE/CA non-time critical removal action is to identify discrete locations for removal where there is obvious potential for acute human exposure. The removal of surface materials that potentially exhibit acute exposure risks would improve the overall protection to human health and the environment. The removal action will improve short-term exposure situations; the affects of the removal action on long-term exposure, if any, cannot be ascertained until the

remedial investigation is completed to gain a more thorough understanding of the Site conditions; i.e., constituent concentrations and/or fate and transport mechanisms. A Site-wide risk evaluation will be conducted as part of the RI to assess the overall risks of the Site, including chronic or more frequent exposures. Modifications have been made to the text, specifically Section 2.4.

10. *Pg. 13 The first paragraph indicates that the pre-determined screening levels are generally based on acceptable risk levels associated with typical industrial exposures, which assume an exposure frequency of 250 days/year for a duration or 25 years. As mentioned in a previous comment, this is not true for benzo(a)pyrene. With a screening level of 50 mg/kg, the risk to commercial workers from this level of benzo(a)pyrene in soil would be greater than 1E-04.*

    Remove the following sentence from the third paragraph: "Consequently, using this approach, it is assumed that when data collected as part of the NTCRA are combined with data (both historical and proposed) for the RI, the area-specific exposure point concentration for each CoPC will result in estimated risks that will fall within the acceptable risk range." The implication seems to be that if a non-time-critical removal is conducted at the site, then the risks projected in the pending RI report will be acceptable. However, the triggers for action for the removal are very high: Total VOCs = 100 mg/kg, Total SVOCs = 100 mg/kg, Total PCBs = 150 mg/kg, Total Pesticides = 50 mg/kg, Arsenic = 150 mg/kg, Cadmium = 10,000 mg/kg, Chromium = 30,000 mg/kg, and Lead = 4000 mg/kg. Soils left in place because these triggers are not exceeded could still pose an unacceptable risk under a traditional commercial exposure scenario. (Keep in mind that any remaining hot spots on-site will need to be addressed separate from the other data, rather than blended to dilute exposure point concentrations.)

    Response:

    The statement referenced in the above comment has been removed and the text modified, accordingly. The remainder of the concerns presented in this comment are not applicable to the EE/CA; rather, they will be considered in the RI.

11. *Pg. 13 In the fourth paragraph, the following statement is made: "However, as a means of managing CoPC concentrations that were above the screening levels, an upper-bound action level was defined." I'm not sure what this means, particularly the reference to "managing CoPC concentrations." Please explain.*

Response:

This expression was meant to suggest that acute exposure situations in localized areas will be addressed, via establishing an upper-bound action level. The text has been modified accordingly.

12. *Pg. 13 As indicated in a previous comment, under a commercial exposure scenario, the action level for Total SVOCs (100 mg/kg) is not protective for benzo(a)pyrene. Similarly, the action level for Total PCBs (150 mg/kg) is also not protective.*

Response:

Reference the response to comment No. 3.

13. *Pg. 14 Per the report, " ... if the POIs with reported CoPC concentrations above the action levels remained in place, these data, when combined with the data collected for the RI (historic and proposed) could result in an elevated exposure point concentration which could ultimately result in unacceptable cancer and non-cancer risks." I agree. However, areas with contaminant concentrations less than the action levels identified for this site could also result in unacceptable risks under traditional exposure scenarios, such as commercial/industrial.*

Response:

The purpose of the NTCRA is to allow consideration of potentially acute risks that could be posed by exposures to COPC concentrations above the action levels. This effort conducted in advance of the RI will provide an immediate benefit to both human health and the environment. It is important to note that after NTCRA activities are completed, residual COPC concentrations will be included in the RI.

14. *Pg. 15 According to the third paragraph, a goal of the EE/CA response action is to provide "short-term and long-term protection of human health." I disagree that long-term protection will be achieved by this response action, simply because the action levels are too high. The report should be revised accordingly.*

Response:

The action levels are specific to the removal action and may not reflect the levels that will be established during the conduct of the RI/FS. However, the affects of the removal action on long-term exposure, if any, cannot be ascertained until the remedial investigation is

completed to gain a more thorough understanding of the Site conditions; i.e., constituent concentrations and/or fate and transport mechanisms. The goal is to improve protection of human health and the environment, via removal of acute exposure situations, while a more thorough Site-wide investigation is conducted. Section 3.1.2 has been modified accordingly.

15. *Pg. 15 Similarly, a bullet in Section 3.1.2 indicates that an objective of the response action is to "reduce localized, elevated risks to human health, including the public and RI workers ... ". Again, I disagree; this response action may not be protective of the general public over the long-term. Rather, this response addresses very limited exposure scenarios, primarily trespassers.*

Response:

Removal of surficial materials with elevated concentrations will reduce localized risks. It is, however, understood that the removal action is not the final remedy; rather, the conduct of the upcoming RI/FS will be instrumental in determining the components of the final remedy to fully address Site-wide risks.

16. *Section 3.1.3.1 Provide the correct Table numbers (Tables 3,4, and 5 should read Tables 4, 5, and 6).*

Response:

The text has been modified accordingly.

17. *Section 4.1.3 2nd para. Change "…disposal of hazardous and non-hazardous facilities" to "…disposal at hazardous and non-hazardous facilities".*

Response:

The text has been modified accordingly.

18. *Pg. 25 2nd line from bottom Change "In addition" to "However".*

Response:

The text has been modified accordingly.

19. *Pg. 29 5th line Change "form" to "from".*

Response:

The text has been modified accordingly.

20. *Section 4.2 Describe all of the Site Access Restrictions in addition to signage.*

Response:

Access controls that are currently in-place at the Site primarily deter vehicular access; whereas, the installation of signs proposed in the EE/CA Report is a measure that would warn citizens in effort to deter potential trespassers who access the Site by other means; i.e., walking or bicycling. Additional discussion has been added to Section 4.2.3 to present the existing Site access controls.

21. *Pg. 30 1st line Change "POI" to "POIs".*

Response:

The text has been modified accordingly.

USEPA – COUNSEL

1. *First page, first reference to federal Criteria, Advisories, and Guidance–There is no ARAR listed.*

   Response:

   Table 4 has been modified.

2. *First page, General Waterway Construction Permit–Why isn't this an Applicable Requirement?*

   Response:

   This requirement has been updated to "Applicable" and re-located to Table 5, as requested by MDE (see below).

3. *Second page, Executive Order 11990–This is a TBC.*

   Response:

   The table has been modified accordingly.

4. *Second page, Executive Order 11988–This is a federal, not a state, requirement. Also, it is a TBC.*

   Response:

   The table has been modified accordingly.

5. *Page three–The references to the federal RCRA regulations are wrong. They should be deleted. There should be references instead to Maryland's federally-authorized RCRA regulations (See comments on page four).*

   Response:

   The table has been modified accordingly.

6. *Page three–Add a reference to 40 C.F.R. § 268.50. This is a RCRA requirement which is not part of Maryland's authorized RCRA program. This regulation governs the storage of LDR waste (such as lead). They would be Applicable Requirements.*

Response:

The table has been modified accordingly.

7. *Page three, National Primary and Secondary Ambient Air Quality Standards–Substitute the following citations: 40 C.F.R. §§ 50.6 and 50.7. 40 C.F.R. Part 52, Subpart V. COMAR §§ 26.11.04 and 26.20.23.01.*

Response:

The table has been modified accordingly; COMAR citations were added under the State Regulatory Requirement authority.

8. *Page three, last two entries–Delete both references to OSHA requirements; they're not ARARs.*

Response:

The table has been modified accordingly.

9. *Page four, first entry–Replace text and references with the following text and references: To the extent that hazardous waste will be staged in containers prior to off-site disposal, the preferred alternative will comply with COMAR § 26.13.03.05 (Pretransport requirements) (Applicable Requirement) and COMAR § 26.13.05.09 (Containers) (Relevant and Appropriate Requirement).*

Response:

The table has been modified accordingly.

10. *Page 4, last entry–What is the requirement synopsis?*

Response:

Soil disturbances may require compliance with Maryland storm water regulations. This statement has been added to the requirement synopsis.

USEPA - BTAG

1. *The Introduction should clearly state the purpose for the non-time critical removal actions (NTCRA). Since a site-wide RI/FS will be performed, the benefit of the NTCRA should be explained.*

   Response:

   The purpose of the non-time critical removal action is to identify and remove localized, exposed materials that exhibit elevated concentrations of specific metals, pesticides and PCBs. The removal will reduce the risks to potential human receptors including trespassers and RI workers and by doing so will also reduce the short-term risk to the environment. It is important to reiterate that a focused Site-wide assessment will be performed as part of the RI to determine the overall remedial approach. The second paragraph of the Introduction has been modified accordingly.

2. *The second paragraph of the Introduction states that "cross-program coordination…would accelerate the reduction of risk for both human and ecological receptors through front-end clean-up activities." The document does not clearly describe how there would be a reduction of risk for ecological receptors. The following comments focus on the missing ecological risk perspective.*

   Response:

   The action levels set forth in the EE/CA Report (Section 2.4.1.3) are based on the protection of human health, particularly exposures that may occur as a result of trespassing and/or conducting remedial investigation activities. Those points-of-interest (POIs) having constituent concentrations that exceed the action levels are, therefore, included for early action. The recommended alternative, Alternative 2 (Section 4.2.3), includes the removal of drums with hazardous contents and the excavation of designated POIs to a one-foot depth. The excavation will then be replaced with clean borrow soil from an off-site source and re-seeded, thereby mitigating future exposure. Selection of this alternative, (the removal of hazardous containers and the removal and replacement of soils with elevated concentrations) will mitigate exposure of human receptors to these POIs and, therefore, also reduce risks to the ecology. Consequently, the removal of these acute exposure situations will undoubtedly improve the overall conditions for human health but will also reduce potential ecological risk.

3. *Section 2.3.1 Summary of Points of Interest (POI) and Field Observations defines a point of interest as a localized area comprised of a feature(s) exhibiting potentially high risk to human health and that was designated for field screening. There is no discussion regarding points of interest from an ecological risk perspective and this is carried throughout the document. It should be noted that several of the features of a POI (ex. included a drum or container) also apply to potential ecological risk.*

Response:

As noted in the response to Comment Nos. 1 and 2, the intent of the removal action is to improve the conditions relative to both human health and the environment through the removal of acute exposure situations in advance of a more exhaustive investigation and human health and ecological risk assessments that are being conducted. The absence of the phrase "…and the environment" was an oversight and has been added to the document.

4. *Section 2.3.2 Field Screening and Sampling. It is unclear if and/or how the field screening levels considered ecological risk. Please provide additional clarification. In addition it appears that some of the screening levels (ex. PCBs 15 ppm; DDT 10 ppm) may actually be lower than indicated in this section as reported in the tables (PCBs 2.5 ppm; DDT values reported less than 1 ppm without a qualifier).*

Response:

The EE/CA is being implemented in a manner consistent with the overall management of the individual management areas. Simply stated, the approach involves a predominant focus on human uses in upland management areas A through E and a predominant ecological focus in the aquatic/wetlands management area F. For this reason, a screening level ecological risk assessment (SLERA) will be the primary approach eventually applied to the upland areas and a baseline ecological risk assessment (BERA), which consists of more in-depth evaluations of bioaccumulation and toxic effects, will be the primary approach applied to the aquatic/wetlands of area F. Since the majority of historic disposal activities occurred in areas that are now referred to as upland, the EE/CA identified action levels that pertained to human exposures. The primary objective of the EE/CA is to identify discrete locations for removal where there is obvious potential for human exposure. However, where removal actions are taken to address such potential exposures, the implementation plan does incorporate ecological considerations. While the "trigger" is human health-based,

the actions will serve to address both human and ecological exposures at these same locations. This is accomplished by removing the contaminated soil from a discrete location to a depth of 1 foot and backfilling with clean soil that will not pose a risk to either human or ecological receptors. Thus, this approach, while designed to reduce risks with respect to potential future use, will also reduce potential ecological risks. The residual exposure concentrations for surface soils will subsequently be considered in the SLERA for upland management areas A through E and the BERA for aquatic/wetland management area F.

5. *Section 2.3.3.6 PCBs. It should be noted that excavation and off-site disposal of PCB greater than 50 ppm will require compliance with the Toxics Substance Control Act (see also Section 3.1.3.1 Chemical-Specific ARARs).*

Response:

Excavation and off-site disposal of any materials with concentrations greater than 50 ppm will comply with TSCA requirements. Modifications have been made to Section 2.3.3.6 and Table 4, accordingly.

6. *Figure 3 – Alternative 2 locations with Impacted Soils/Sediment and/or Containers with Liquids/Non-Native Contents presents excavation locations and container locations. Several of these locations are located in ecologically sensitive environments, including floodplains and potentially wetlands, and will require a proper evaluation and execution of ecological site restoration activities.*

Response:

Approximately 84 acres of the 270-acre study area is occupied by wetlands; nearly 112 acres of the study area is covered by the 100-year floodplain. Within these environments, there area a total of four (4) POIs with containers designated for characterization (A133-2, A140, B-68, and D-3) and four (4) POIs designated for soil excavation and backfilling (A6, A14-1, B31, and B71-2). Each of these locations are located on, or near, the perimeter of the ecological environment; thereby, minimal clearing within the sensitive environment will be required to access each POI. Further, the dimensions designated for soil excavation and backfilling are anticipated to be 10-foot by 10-foot. These POIs are spatially distributed throughout the study area and not concentrated in any one area; consequently, only 100 square feet (sf) is anticipated for excavation and backfilling within the ecological area located west of the confluence of Herring Run and Moores Run. Only

300 sf is anticipated for excavation and backfilling within the ecological area located north of this confluence.

The early removal of drums and impacted surface soils will provide a net improvement to the ecological state, via removal of acute exposure situations. As part of the removal action, each excavated and backfilled POI will be seeded in effort to re-vegetate the disturbed area. After completion of the RI/FS and risk assessment activities, a Site-wide remedy will be developed, which will include ecological enhancements for the Site. Similarly, the Maryland Department of the Environment (MDE) has deferred all restoration activities associated with pre-remedy disturbances within these areas until implementation of the Site-wide remedy.

MARYLAND DEPARTMENT OF THE ENVIRONMENT

1. *Sections 3.1.3.1, 3.1.3.2 and 3.1.3.3. These sections refer to Tables 3, 4 and 5 for the Applicable or Relevant and Appropriate Requirements (ARARs). They should be revised to refer to Tables 4, 5 and 6 as appropriate.*

   Response:

   The text has been modified accordingly.

2. *Table 4, Potential Chemical-Specific Standards. This table indicates that the requirements for construction in waterways are "Relevant and Appropriate." However, as any action taken during the removal action will occur while these regulations are currently in effect, these requirements should be considered as "Applicable." In addition, these requirements are referenced in Table 5, Potential Location-Specific Standards, which appears to be the more appropriate location.*

   Response:

   The tables have been modified accordingly; the requirement has been moved to Table 5.

3. *Table 4, Potential Chemical-Specific Standards. This table indicates that the requirements for General Emission Standards are "Relevant and Appropriate." However, as any action taken during the removal action will occur while these regulations are currently in effect, these requirements should be considered as "Applicable."*

   Response:

   Counsel for the USEPA has reviewed the ARAR tables (Tables 4, 5, and 6) and provided comments, accordingly. To avoid conflict between these comments and those provided by USEPA – Counsel, please reference the response to comments and revisions to the tables in accordance with USEPA's comments.

4. *Table 5, Potential Location-Specific Standards. This table indicates that several federal and state requirements pertaining to wetlands and floodplains are "Relevant and Appropriate." However, as any action taken during the removal action will occur while these requirements*

are currently in effect, these requirements should be considered as "Applicable."

Response:

Counsel for the USEPA has reviewed the ARAR tables (Tables 4, 5, and 6) and provided comments, accordingly. To avoid conflict between these comments and those provided by USEPA – Counsel, please reference the response to comments and revisions to the tables in accordance with USEPA's comments.

5. *Table 6, Potential Action-Specific Standards. This table indicates that several federal and state requirements pertaining to RCRA, air quality, wetlands, floodplains and sediment control are "Relevant and Appropriate" or "To Be Considered." However, as any action taken during the removal action will occur while these requirements are currently in effect, these requirements should be considered as "Applicable." In addition, the reference to Solid Waste Management (COMAR 26.04.07) cited as "To Be Considered." In the case of the source areas identified on the site, the solid waste regulations should be considered as "Relevant and Appropriate." In the case of managing any solid waste generated during the removal action, the solid waste regulations concerning disposal are considered to "Applicable."*

Response:

Counsel for the USEPA has reviewed the ARAR tables (Tables 4, 5, and 6) and provided comments, accordingly. To avoid conflict between these comments and those provided by USEPA – Counsel, please reference the response to comments and revisions to the tables in accordance with USEPA's comments.

1.0 *INTRODUCTION*

On behalf of the 68th Street Sites Coalition (the "Coalition"), Environmental Resources Management, Inc. (ERM) has prepared this Engineering Evaluation/Cost Analysis (EE/CA) Report for the 68th Street Landfill Site (the "Site") located in Rosedale, Maryland. Field investigations have been performed at the Site in accordance with an EE/CA Work Plan approved by the U. S. Environmental Protection Agency (USEPA) on September 28, 2007. The intent of this report is to summarize the results of those investigations and to identify and evaluate potential non-time critical removal actions (NTCRA) deemed appropriate at the Points of Interest (POIs) investigated under the EE/CA Work Plan. These POIs consist of surficial anomalies, including drums, containers, batteries, waste piles and other surficial waste expressions that are the focus of an early removal action.

The Site is currently being evaluated under an Administrative Settlement Agreement and Order on Consent (ASAOC, CERCLA Docket No. CERC-03-2006-0051 RF), dated April 27, 2006, for a remedial investigation and feasibility study (RI/FS). However, a NTCRA, as a Superfund Accelerated Cleanup Model (SACM) tool, is being conducted for specific localized areas at the Site that currently exhibit exposed waste or similar materials of unknown hazard potential. A NTCRA would promptly reduce the risk associated with such materials through early action, and would be antecedent to any on-Site intrusive RI/FS activities or long-term remedial action determined through the course of the RI/FS activities. The cross-program coordination between the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Removal and Remedial Programs at this Site would accelerate the reduction of risk for both human and ecological receptors through front-end clean-up activities, while ensuring proper characterization of the Site in conformance with the RI/FS work plans that are under preparation.

Specifically, the purpose of this NTCRA is to:

- identify localized areas (i.e., POIs) that present exposed containers, materials, or surface soils with elevated constituent concentrations that could exhibit risks to human health and the environment in advance of conducting more focused and comprehensive RI activities; and,
- remove surface materials and/or containers that exhibit elevated constituent concentrations in an expeditious manner in order to immediately reduce risk to potential trespassers and the environment while permitting more thorough investigation, evaluation, and design activities to address the Site-wide remedy.

This EE/CA Report presents the findings from field screening and sampling activities conducted for surficial materials at over 100 POIs, and considers removal alternatives consistent with the CERCLA Removal Program. This report was prepared in conformance with the requirements of the U.S. Environmental Protection Agency (USEPA) "Guidance on Conducting Non-Time Critical Removal Actions Under CERCLA" (USEPA, 1993).

Potential response action alternatives were identified and evaluated by applying the EE/CA guidance criteria of implementability, effectiveness and cost. This analysis also considers the location, setting, and site-specific requirements of the Points of Interest. As a further refinement, the EE/CA also compares the performance of the proposed removal actions relative to each other using the same EE/CA guidance criteria. The identification and screening of the initial response actions, coupled with the focused, comparative analysis of these alternatives results in a full evaluation of the potential response actions and a recommendation as to which actions would be the most appropriate.

The organization structure of this EE/CA Report is outlined below:

- Section 2 – describes the physical setting of the Site and the nature and extent of previous investigations. In addition, this section presents summaries of the screening-level ecological and human health risk evaluations.
- Section 3 – defines the project scope, goals, and objectives. The applicable or relevant and appropriate requirements (ARARs) and other criteria are identified.
- Section 4 – identifies potential response actions and assesses the applicability, implementability, potential effectiveness, and cost of the potential technologies.
- Section 5 – presents the comparative analyses of the candidate removal actions retained following the screening of potential response actions. A recommendation for implementation is also presented.
- Section 6 – presents a list of references used to prepare this document.

Throughout this report, references are made to the terms "screening levels" and "action levels". A screening level was established for the purposes of the EE/CA investigation; an action level is established herein for removal activities. For clarification, these terms are defined below and are further discussed in Section 2.4:

- Screening level: The concentrations established in the EE/CA Work Plan to determine when the POI sampling area must be expanded during the EE/CA investigation. "If the initial field screening sample at a POI is above the pre-determined screening levels for any of the parameters (i.e.,

VOCs, SVOCs, Metals, PCBs, or pesticides) the screened area will be expanded by 5 feet in each cardinal direction (i.e., N, S, E, and W), and supplemental field screening of the surface soils will be conducted." The screening level was generally established as the USEPA - Region 3 Risk-Based Concentrations for industrial soil set at the mid-range cancer risk of 1×10^{-5} for carcinogenic constituents (i.e., arsenic) and a hazard quotient of 1 for non-carcinogens (i.e., cadmium and chromium).

- Action level: The upper-bound concentrations established in this report that, if exceeded, soil removal `will be conducted in accordance with the requirements herein.

2.0 SITE CHARACTERIZATION

2.1 BACKGROUND

The Site, as delineated by USEPA, is an aggregation of the waste disposal areas for five (5) former landfills (designated as "Source Areas" in the ASAOC) separated and/or bounded by adjoining wetland areas and surface waters. A study area, comprised of 270 contiguous acres, has been defined for site-wide activities, including the NTCRA and RI/FS. This broader study area is located immediately south of the Rosedale Industrial Park in Rosedale, Maryland. It is transected in a north-south direction by Interstate Route 95 (I-95) near the western boundary, and is bounded by a railroad to the north, Herring Run and a railroad to the south, and Redhouse Run and Herring Run to the east. The study area is predominately vegetated with a surrounding land use of industrial properties to the north, south, and west, and residential properties to the east (Rosedale Terrace) and northwest (Maryland Manor). Herring Run discharges into the Back River approximately 1,500 feet downstream of the Site. A Site location map is presented on Figure 1. A detailed Site background, historical ownership, and past activities has been compiled and presented in the Site-Wide Program Management Plan (SWPMP) (ERM, 2006) and Site-Wide Work Plan (SWWP) (ERM, 2007); these documents were prepared and approved for site-wide RI/FS activities.

As one component in the initiation of the RI/FS process, comprehensive Site reconnaissance and mapping activities have been conducted across the entire 270-acre study area. This exercise identified certain waste-related materials dispersed on the surface of the study area, which are primarily believed to be the result of unauthorized dumping of materials after closure of the Site landfills. Nevertheless, these materials pose a potential immediate threat to the environment. Consideration of this NTCRA was initiated as a response to addressing this surficial waste issue.

2.2 POINTS OF INTEREST DESCRIPTION

Points of Interest are localized areas throughout the study area that exhibit features that may be a potential risk to human health and the environment, including contained drums, containers, batteries, waste piles, and residual wastes. The POIs varied in area, composition, and condition throughout the study area, but typically included a drum or container. The integrity of the majority of drums and containers has been significantly compromised over time, including significant rusting, damage resulting in crushing and penetrations, or

other impacts which adversely affect their ability to store contents. Containers are defined herein as intact; i.e., no holes or other visual cracks/gashes/penetrations, or non-intact; i.e., one or more holes or cracks/gashes/penetrations. Additional debris, including, but not limited to tires, scrap metal, plastic matting, and general household and commercial rubbish, were often within the proximity of the POI; however, debris by itself was not considered to be a POI.

Containers were categorized into one of the following three classifications based on field observations:

- Intact or non-intact containers with liquid or non-native soil contents;
- Intact or non-intact containers with native soil contents or lack of observable contents; and,
- Container carcasses, indicating significant deterioration, with no contents.

It should be noted that any stained surficial soils or residual wastes that were observed at the Site were typically co-located in areas with drums or containers.

2.3 *SOURCE, NATURE AND EXTENT OF CONTAMINATION*

Prior investigations have been conducted to characterize the Site; accordingly, this data has been compiled, evaluated and presented in the SWPMP. As noted therein, the Site is an aggregation of five (5) former landfills which received commercial, industrial and residential waste. A RI will be performed to further characterize the source and extent of contamination at the Site for development of a final remedy. The RI is required under the ASAOC and is anticipated to commence in the near future. As a precursor to these RI field activities, a Site-wide reconnaissance was conducted between February 28 and March 6, 2007 in order to map and document surface debris or waste observed on the Site surface within the study area. As a result, a NTCRA is under consideration that will identify localized, high risk areas for early action. Under the approved EE/CA Work Plan, Site-wide field screening and sampling activities were conducted at designated POIs. This data has been considered in the development of the NTCRA, and is summarized in the following discussion.

2.3.1 *Summary of Points of Interest and Field Observations*

A POI is a localized area which is comprised of a feature(s) exhibiting potentially high risk via acute exposure to human health and the environment,; each POI was designated for field screening. The EE/CA Work Plan identified 83 POIs for field screening; an additional 13 POIs were identified during implementation of the EE/CA Work Plan, for a total of 96 POIs. Upon observation, 17 of the original POIs were either not located; i.e., the featured container(s) was no longer

present, or deemed to not pose a potential hazard upon subsequent inspection. At 15 POIs, the distance between features warranted multiple sampling locations within a single POI. Consequently, 79 POIs were screened, and when factoring multiple locations within a POI, a total of 95 locations were investigated. Additionally, field screening was conducted at six arbitrarily-selected locations throughout the Site (referred to herein as Non-POIs) for metals to assess the conditions in areas that were not pre-selected. Two background locations at Colgate Park, located off-Site across the Norfolk Southern Rail Lines south of the study area as an indicator of background, were also field screened for metals. Table 1 presents each POI observed.

Each POI was located in the field using GPS coordinates, photographs, and mapping recorded during the initial Site reconnaissance. Each POI was initially inspected through visual observation to determine the general conditions of the area; the condition, integrity and contents of containers; and general accessibility of the area. Measurements were also taken to document the distribution of multiple containers and the overall size of a POI. All observations were recorded on POI Inspection Forms, provided in Appendix A.

2.3.2 *Field Screening and Sampling*

Surface soils and/or materials were field screened within the immediate vicinity of a designated feature at each POI. If multiple features were observed at a distance greater than 10 feet apart, each corresponding location was screened separately. Field screening was conducted for VOCs, SVOCs, metals, PCBs, and pesticides on the surface soils or materials exhibiting the greatest degree of anthropogenic impact; i.e., staining, oily, iridescence, etc. The field screening area was expanded if the screening levels defined in the EE/CA Work Plan were exceeded,

Field screening was specifically performed with the following equipment at the corresponding screening levels derived to first provide protection to human health, and secondarily to provide protection to the environment:

- Total VOCs: Photo-ionization detector (PID) with 10.6 eV lamp, screening level of 50 part per million (ppm);
- Total SVOCs: Flame-ionization detector (FID), screening level of 50 ppm;
- Total PCBs: Immunoassay (EPA Method 4020), screening level of 15 ppm;
- Total Pesticides: Immunoassay (EPA Method 4041 and 4042 for chlordane and DDT, respectively), screening level of 10 ppm; and,

- Metals: Field portable XRF (EPA Method 6200), with the following screening levels:
    - arsenic: 10 ppm,
    - cadmium: 1000 ppm,
    - chromium: 3000 ppm, and
    - lead: 400 ppm.

If the initial sample exceeded the screening level for any parameter, the screened area was expanded by 5 feet in each cardinal direction (i.e., N, S, E, and W), and supplemental field screening of the surface soils was conducted for the exceeded parameter. For the purpose of calibrating the overall precision of the field screening methods employed, 10 soil samples were collected for laboratory testing. In accordance with the Quality Assurance Project Plan (QAPP) presented in the SWWP, field and quality control samples were also analyzed, including a duplicate, field blank, trip blank, equipment blank, matrix spike, and matrix spike duplicate.

2.3.3 *Summary of Field Screening Results*

This section presents a summary of the results for the field screening activities. The screening levels established in the EE/CA Work Plan (presented in the prior section) were based on the USEPA - Region 3 Risk-Based Concentrations for industrial soils, generally set at a mid-range human health cancer risk of 1×10^{-5} for carcinogenic constituents (i.e., arsenic) and a hazard quotient of 1 for non-carcinogens (i.e., cadmium and chromium). The values were then arithmetically rounded.

Specifically, the screening values were derived by first reviewing the historic data to identify previously detected constituents in each management area. From these data, the most representative constituents for each analyte group (i.e., total VOCs, total SVOCs, and total pesticides) were selected and used to set the screening levels. The approach used to set the screening levels is demonstrated in the following table.

Parameter	USEPA - Region 3 RBC for industrial soil [1] (mg/kg)	Screening Value (mg/kg)
Total VOCs	5.3[2]	50 [3]
Total SVOCs	0.39 to 39 [4]	50 [3]
Total PCBs	1.4	15 [3]
Total Pesticides	8.4	10 [5]
Arsenic	1.9	10 [6]
Cadmium	1000	1000
Chromium	3100	3000
Lead	400	400

[1] – Values obtained from USEPA - Region 3 Risk-Based Concentrations (October 2007) set at cancer risk of 1.0 $x10^{-6}$ or non-cancer risk of 1.

[2] – VOCs were not typically observed in historic samples; however, tetrachloroethene observed in MA-E was used to set the screening level for VOCs.

[3] - Screening values were adjusted to a cancer risk of $1x\ 10^{-5}$ and arithmetically rounded.

[4] – Few, and relatively low concentration exceedances of SVOCs have been observed in the historic data for each management area. Of the SVOCs, polynuclear aromatic hydrocarbons (PAHs) were observed most frequently. To represent the PAHs, a range of risk-based concentrations was considered whereby the mid-range concentration was used as the basis to set the screening level (i.e., RBC for benzo(a)fluoranthene is 3.9 mg/kg).

[5] – DDT was the most observed pesticide. To consider the additive effects of other pesticides, the screening value was not adjusted to a higher cancer risk level; however, the value was arithmetically rounded.

[6] - Screening values were adjusted to a cancer risk of $1x\ 10^{-5}$ and arithmetically rounded.

This level was established to determine if additional screening should be conducted within each POI location; it is not an action level. The discussion herein presents the number of locations that exceed the screening level, as well as those locations that exceed the upper-bound cancer risk levels which equate to 1×10^{-4} for carcinogenic constituents and a hazard quotient of 10 for non-carcinogens. It should be noted that the sample matrix, moisture content, and concentrations of other parameters (specifically lead) can affect the detection level of the screening instruments for each sample. Consequently, the results include non-detection levels that exceed the screening level. In this case, the screened area was expanded as if it were a positive exceedance. The results are presented in Table 2.

2.3.3.1 *Arsenic*

Arsenic exceeded the screening level at 39 sample locations (representing 34 POIs). Five of the locations, including A-6, B-31, B-127, D-1, and D-5, had detections above 150 ppm, representative of a 1×10^{-4} cancer risk or greater. The maximum detection was noted at D-1 with 771 ± 91 ppm. Additionally, at 34 of

the sample locations (representing 29 POIs) the non-detection level was at or above the screening level.

Detected and non-detected levels of arsenic, as determined by the XRF, were affected by certain factors, including the presence of lead and high moisture in the sample. Generally, the detection levels of arsenic increased with higher concentrations of lead and/or higher soil moisture contents. These factors are believed to contribute to the higher number of arsenic non-detections above the screening level.

2.3.3.2 *Lead*

Lead was detected by the XRF at or above the screening level at 49 sample locations (representing 40 POIs). Seven of the locations, including A-6, A-14-1, A-79-1, A-79-2, B-31, B-127, and D-1 had detections above 4,000 ppm, representative of upper bound risk. The maximum detections were noted at A-79-1 and D-1 with 13,238 ± 117 and 14,942 ± 223 ppm, respectively.

2.3.3.3 *Cadmium*

Cadmium was not detected at or above the screening level at any location sampled. The highest detection occurred at location A-14-1-S with 163 ± 22 ppm. The majority of sample locations were non-detect for cadmium.

2.3.3.4 *Chromium*

Chromium was detected at or above the screening level at five sample locations (representing four POIs). Three of the locations, including A-79-1, A-79-2, and B-143-2 had detections above 30,000 ppm, representative of a hazard quotient of 10, or greater, for non-carcinogens and thereby the upper bound risk level. The maximum detection was noted at A-79-2 with 99,294 ± 1,049 ppm.

2.3.3.5 *VOCs and SVOCs*

Organic compounds were not detected at or above the screening level. Organic compounds were primarily detected at levels slightly above atmospheric levels and ranged from 0.0 ppm to approximately 2.0 ppm.

When screening for SVOCs, the FID readings for ambient air fluctuated. Accordingly, after proper calibration, a correction factor was applied to account for the fluctuations and provided the difference between the sample and ambient air results. Consequently, no SVOCs were detected at or above the screening level.

2.3.3.6 *PCBs*

Immunoassays detected PCBs at or above the screening level at two sample locations, B-135 and B-134, with detections of 17.5 ppm and greater than 50 ppm, respectively. Since the immunoassay result for B-134-W was greater than 50 ppm rather than a specific value, this location will be sampled and analytical laboratory-tested to determine the required action. Excavation and off-site disposal of soil materials with concentrations greater than 50 ppm will comply with the Toxic Substance Control Act (TSCA).

2.3.3.7 *Pesticides*

Immunoassays detected Pesticides (DDT and chlordane) at or above the screening level at eight sample locations: DDT at six locations, chlordane at two locations. Two of the locations, including A-58 and B-71-2, had detections at greater than 72 ppm, which is above 50 ppm, the representative concentration of the upper range cancer risk. Additionally, the screening results for POIs A-70 and B-124 were greater than 20 ppm rather than a specific value. These locations will be sampled and analytical laboratory-tested to determine the required action.

2.3.4 *Non-POI and Background Field Sampling and Screening Summary*

During screening activities, six random locations throughout the Site were field screened for metals along with two background locations at Colgate Park. None of these locations exhibited signs of potential high risk, as was the case with the POIs; rather, these locations were screened to ascertain typical conditions within the Site and a nearby off-Site area. Two of the six non-POI locations exceeded the screening level, Non-POI 2 with arsenic at 19 ± 4 and Non-POI 5 with lead at 749 ± 18 and arsenic at ND < 43. The elevated arsenic exceedance at Non-POI 5 is likely a result of the higher lead concentration, as previously discussed. None of the metals exceeded the screening level at Colgate Park. Complete results are presented in Table 2.

2.3.5 *Calibration Samples Summary*

Ten (10) POI calibration samples, representing 10 percent (%) of the sample locations (95), were analyzed by conventional USEPA methods in the laboratory for comparison with the field screening results. The samples were well distributed spatially throughout the Site with preference to sample locations exhibiting higher field screening results. Materials utilized for the POI calibration samples were obtained from the same location as the field screening sample. The comparison between the calibration and field screening results can be classified by one of the following three statements:

- Strong correlation: Applicable for lead and chromium with correlation, 'R' values, equal to 0.92 and 0.99, respectively (reference Appendix B). The calibration and field screening results for lead and chromium are presented below.

Table: Comparison of Lead and Chromium Field and Lab Data

Sample Location	Lead (field)	Lead (calibration)	Unit	Chromium (field)	Chromium (calibration)
A-17	363	489	mg/kg	1331	184 J
A-40	91	69.3	mg/kg	ND <62	24.7 J
A-79-1	13238	24200	mg/kg	40928	6790
A-140	71	587	mg/kg	184	108 J
B-1	511	2460	mg/kg	611	358 J
B-36-1	848	155	mg/kg	423	133 J
B-75-1	306	325	mg/kg	159	154
B-127	4790	97.6	mg/kg	3719	18.3 J
B-143-1	163	2590	mg/kg	104	104 J
C-8-2	933	1840	mg/kg	84	78.1

ND: Not detected with detection limits.
J: Method blank contamination. The associated method blank contains the target analyte at a reportable level.

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- Significant number of locations with low detections and non-detections: Applicable for arsenic, cadmium, VOCs, PCBs, DDT, and chlordane (reference table in Appendix B). With the exception of chlordane, either the field or laboratory result at seven (7), or more, of the ten calibration locations for these constituents yielded a non-detection. Therefore, due to the minimal number of detected calibration locations, a correlation was not calculated. Similarly, all of the lab and field calibration results for chlordane were low (at or near 0.0 ppm); thus, a correlation was not calculated.

- Poor correlation as a result of equipment inaccuracy: Applicable to SVOCs. As previously discussed in Section 2.3.3.5, the field screening tool utilized for the measurement of SVOCs indicated higher than expected readings for ambient air. The correction factor applied to field screening samples, as a result, may have created the downward bias portrayed in the results.

For those constituents indicating a strong correlation, the field results for chromium were consistently greater than the laboratory results. One explanation is that the XRF quantifies the "total" chromium, including the chromium incorporated into the mineralogical matrix of the sample; whereas, the laboratory

procedure quantifies only that fraction of the total chromium that can be extracted. However, the "total" versus extractable fraction rationale was not applicable for the lead results. The field results for lead were both greater and lesser than the laboratory result.

For the constituents with a significant number of low detections and/or non-detections, the low laboratory data results for arsenic, cadmium, and PCBs verified the low "less than" results (non-detections) measured by the XRF and immunoassays. Considering the higher detection limit of the field screening equipment when compared to the lower laboratory reporting limit, as well as the 70 to 80 percent frequency of "less than" detections, a reliable correlation could not be calculated. Similarly, the low concentrations for VOC and DDT field screening results were confirmed by laboratory non-detections in 70 and 90 percent of the samples, respectively. Consequently, a reliable correlation could not be calculated. Finally, the significantly low concentrations of chlordane measured by the immunoassay screening test, which ranged from non-detect to 1.795 ppm with an average detection value of 0.6, was verified by the even lower laboratory results, which ranged from 0.0034 to 0.63 ppm with an average of 0.1 ppm.

The overall correlation between the field screening and laboratory results for SVOCs was poor; the correlation coefficient was calculated at 0.24. Although operational checks were performed over the short duration of field activities, the differing equipment readings were likely influenced by errant soil or material within the detector.

The laboratory analytical report is presented in Appendix C.

2.3.6 *Points of Interest Contents Summary*

This section presents a summary of the observed contents of the 95 sample locations to the extent possible; however, these observations may not represent actual conditions due to extenuating circumstances (e.g., partial burial, vegetative covering, and presence of other containers or debris). A summary of findings is presented in Table 1; the location of each POI that was inspected is presented in Figure 2. Those POIs that exhibited characteristics of concern are further discussed in Section 4.2.3 and presented in Figure 3.

2.3.6.1 *Intact Containers*

Intact containers are defined as a drum (30-gallons and greater), a tank (250-gallons or greater), or other container (5-gallons or greater) that is primarily intact, void of large apertures (e.g., bullet holes or significant corrosion), and capable of holding a liquid or solid material, but may have one or more openings. Approximately 40 intact containers were observed at 25 sample locations and were categorized as follows:

- Eight (8) contained a liquid (six [6] sample locations);
- Six (6) contained a non-native, solid material (four [4] sample locations); and
- 26 were determined to be empty (15 sample locations).

Two sample locations, B-7-1 and C-5-2, were responsible for a significant percentage of the observed containers, with eight (8) and seven (7), respectively.

2.3.6.2 *Non-Intact Containers*

Non-intact containers are defined as a drum (30-gallons and greater), a tank (250-gallons or greater), or other container (5-gallons or greater) that is observed with numerous small and large apertures (e.g., bullet holes or significant corrosion), and not capable of holding a liquid. Non-intact containers were often observed to contain soil that was likely deposited in the drum over time from sediment-laden runoff and erosion. Approximately 105 non-intact containers were observed at 64 sample locations (representing 50 POIs), categorized as follows:

- Five (5) contained a non-native solid material (five [5] POIs);
- 25 contained a native soil material (16 POIs); and,
- 74 were determined empty (31 POIs).

The maximum observed non-intact containers for a sample location was B-143-1 with seven (7).

2.3.6.3 *Container Carcasses*

Container carcasses are defined as a former drum, tank or other container that is observed to be significantly deteriorated (e.g., crushed or fragmented, consisting of pieces no larger than one-half the original container size). Approximately 31 container carcasses were observed at 24 sample locations (representing 21 POIs).

2.4 *STREAMLINED RISK EVALUATION*

As described in the EE/CA Work Plan, a full, Site-wide risk assessment (RA) will be conducted for the RI/FS in accordance with the ASAOC, and as described in the previously submitted Site-Wide Work Plan dated March 9, 2007. However, prior to implementation of the field characterization studies specified by the RI/FS Management Area-Specific Work Plans, immediate risks that could occur at the Site are evaluated herein and addressed via the NTCRA. Such immediate risks are evaluated in the streamline risk evaluation, provided herein.

In accordance with USEPA guidance (USEPA, 1993) , this risk evaluation specifically considers:

- The Contaminants of Potential Concern (COPCs) identified for the POIs as a result of a risk-based screening process;
- The types of human receptors and plausible exposures to the COPCs that may occur; and,
- The potential risk to human health at the Site during the interim period before the RI/FS configured remedy is emplaced.

Consistent with USEPA EE/CA guidance (1993), the scope of the streamlined risk evaluation provides more detail than a limited risk evaluation performed for emergency removal actions, but is more streamlined than a conventional baseline risk assessment typically conducted during a RI/FS. Accordingly, the streamlined risk assessment focuses on the specific response actions it is intended to address and, at a minimum, must identify contaminants of concern in the affected media, contaminant concentrations, and toxicity associated with each contaminant. Furthermore, the removal action will be implemented in a manner consistent with the overall management of the individual management areas. Simply stated, the approach involves a predominant focus on human uses in upland Management Areas A through E and a predominant ecological focus in the aquatic/wetlands Management Area F. For this reason, a screening level ecological risk assessment (SLERA) will be the primary approach eventually applied to the upland areas and a baseline ecological risk assessment (BERA), which consists of more in-depth evaluations of bioaccumulation and toxic effects, will be the primary approach applied to the aquatic/wetlands of Management Area F.

Since the majority of historic disposal activities occurred in areas that are now referred to as upland, the EE/CA identified action levels that pertained to human exposures. The primary objective of the EE/CA is to identify discrete locations for removal where there is obvious potential for acute human exposure. However, where removal actions are taken to address such potential exposures, the implementation plan does incorporate ecological considerations. While the "trigger" is human health-based, the actions will serve to address both human and ecological exposures at these same locations. Thus, this approach, while designed to reduce risks with respect to potential acute human exposure, will

also reduce potential ecological risks. The residual exposure concentrations for surface soils will subsequently be considered in the human health risk assessment, the SLERA for upland Management Areas A through E, and the BERA for aquatic/wetland Management Area F.

The focused assessment provides sufficient detail to justify the response action identified for implementation. In addition, exposure pathways that indicate an immediate threat to human health or the environment may be identified through comparison with chemical-specific risk-based concentrations. As such, the human health components of the EE/CA are discussed in the following sections.

2.4.1 *Human Health Risks*

A streamlined human health risk assessment (HHRA) addresses the potential human health risks associated with exposure to the COPCs in soil. The methodology applied for the streamlined HHRA generally follows the USEPA Risk Assessment Guidance for Superfund: Human Health Evaluation Manual Part A (USEPA, 1989), and subsequent guidance documents developed by USEPA and used to perform human health risk assessments (USEPA 1991, 1997, 2001).

2.4.1.1 *Identification of COPCs for Each POI*

As described in the EE/CA Work Plan and as the first step in the assessment, the COPCs were identified. To identify COPCs for each POI, the field screening results were compared with pre-determined screening levels, as defined in the EE/CA Work Plan.

The screening levels for VOCs, SVOCs, PCBs, and pesticides represent the "total" concentration and could consist of multiple compounds within the elemental group. For organic compounds, the pre-determined screening levels are arbitrarily set based on the potential for human exposure to the Site-specific COPCs and the detection limits of the identified field screening methods. For pesticides and PCBs, the toxicity thresholds are set based on the mid-range cancer risk for the most toxic of these COPCs detected at the Site. Using this approach, the pre-determined screening levels for organic compounds were defined as follows:

- Total VOCs: 50 ppm
- Total SVOCs: 50 ppm
- Total PCBs: 15 ppm
- Total Pesticides: 10 ppm

The XRF analysis was capable of screening individual metals (specifically arsenic, cadmium, chromium, and lead); thus, field screening results did not

represent the total metal concentration. For purposes of deriving the pre-determined screening levels, the toxicity threshold was established at the mid-range cancer risk of 1×10^{-5} for carcinogenic constituents (i.e., arsenic) and a hazard quotient of 1 for non-carcinogens (i.e., cadmium and chromium). For lead, toxicity threshold is based on the USEPA guidance for residential soils (USEPA, 1994). Using this approach, the pre-determined screening levels for metals are as follows:

- Arsenic: 10 ppm
- Cadmium: 1000 ppm
- Chromium: 3000 ppm
- Lead: 400 ppm

2.4.1.2 *Potential Human Receptors and Exposure Pathways*

Human receptors that would most likely contact the COPCs are primarily trespassers, which may be exposed to soil through incidental ingestion, dermal contact or inhalation of fugitive dusts that may be produced during the field activities. It is also important to note that the pre-determined screening levels are generally based on an acceptable risk levels associated with typical industrial exposures which assume daily contact with soil over a standard work-year and work-life (i.e., 250 days/year for 25 years). Due to the restricted duration of the anticipated activities that may occur while at the Site, limited exposure to impacted soil is expected, with exposures that may be experienced by trespassers being far less than that considered within a typical industrial exposure.

As previously described, the closest residents are located hydraulically up-gradient or cross-gradient of the Site; consequently, no residential impacts are anticipated and, therefore, are not included in this evaluation.

2.4.1.3 *Potential Risk to Human Health*

For purposes of estimating the potential risk to human health, it is expected that the reported COPC concentrations that were lower than the defined screening levels would result in human health risks for trespassers that would fall within the USEPA acceptable cancer risk range of 1×10^{-6} to 1×10^{-4} and would likely be below a hazard index of 1. For the remaining POIs that included concentrations above the screening levels, an upper-bound action level was defined that considered acute exposure situations. Again, the action level thresholds were set based at the upper-bound range cancer risk and a hazard quotient of 10 for non-carcinogens for the most toxic of the COPCs detected at the Site. Using this approach, the pre-determined action levels for COPCs are as follows:

- Total VOCs: 100 ppm
- Total SVOCs: 100 ppm
- Total PCBs: 150 ppm
- Total Pesticides: 50 ppm
- Arsenic: 150 ppm
- Cadmium: 10,000 ppm
- Chromium: 30,000 ppm
- Lead: 4,000 ppm

In concept, it is assumed that COPC concentrations that are above the action levels could result in an unacceptable risk to trespassers who may be exposed to the impacted soils. Furthermore, if the POIs with reported COPC concentrations above the action levels remained in place, these data, when combined with data collected for the RI (historic and proposed) could result in an elevated exposure point concentration which could ultimately result in unacceptable cancer and non-cancer risks. Nonetheless, consideration of potentially acute risks that could be posed by exposures to COPC concentrations above the action levels in advance of conducting the RI will provide an immediate benefit to both human health and the environment. Thus, POIs with COPC concentrations above the action levels should be managed under the NTCRA. It is important to note that after NTCRA activities are completed, residual COPC concentrations will be included in the RI.

3.0 IDENTIFICATION OF RESPONSE ACTION OBJECTIVES

This section describes the basis for the selection of a response action to be implemented at the Site. The identification of remedial alternatives is based on the overall scope, goals, and objectives of the response actions, and the schedule for implementation of any response activities.

3.1 SCOPE, GOALS AND OBJECTIVES

3.1.1 Scope of the Response Action

The scope of the response action will solely focus on the POIs that currently exhibit exposed waste or similar materials at the ground surface, and that present a potential hazard in the immediate term . A Site-wide RI/FS will be conducted to fully characterize the Site for subsequent remedial action.

3.1.2 Goals and Objectives of the Response Action

The goals of the response action for the POIs are to effectively reduce the potential for exposures during the conduct of the RI field investigations to an acceptable range, to mitigate impacts in a manner that improves protection of human health and the environment, and to achieve compliance with established Applicable or Relevant and Appropriate Requirements (ARARs) to the maximum extent practicable. More specifically, the response action objectives (RAOs) for this NTCRA include the following:

- Reduce localized, elevated risks to human health, including the public and ecological receptors associated with exposed materials.
- Integrate with any long-term remedial action determined through the course of the Site-wide RI/FS activities.

3.1.3 Compliance with ARARs and Other Criteria

Section 121(d) of CERCLA requires that on-Site remedial, and to the extent practical removal actions attain or waive ARARs under federal or state environmental laws and regulations. ARARs are defined as clean-up standards, standards of control, and other substantive environmental protection requirements, criteria, or limitations promulgated under federal or state law that specifically address a hazardous substance, pollutant, contaminant, remedial action, location, or other circumstances at a Site. A requirement under environmental laws may either be "applicable" or "relevant and appropriate" to

a response action, but not both. Applicable and relevant and appropriate, as defined by the USEPA (1991), are as follows:

- **Applicable** requirements are clean-up standards, standards of control and other substantive requirements, criteria or limitations promulgated under federal environmental or state environmental or facility siting laws that specifically address a hazardous substance, pollutant, contaminant, remedial action, location or other circumstance at a CERCLA site.
- **Relevant and Appropriate** requirements are clean-up standards, standards of control and other substantive requirements, criteria or limitations promulgated under federal environmental or state environmental or facility siting laws that, while not "applicable" to a hazardous substance, pollutant, contaminant, remedial action, location, or other circumstances at a CERCLA site, address problems or situations sufficiently similar to those encountered at the CERCLA site and are well suited to the particular Site.

To Be Considered (TBC) guidance is comprised of non-promulgated advisories or guidance issued by federal or state regulatory bodies that are not legally binding, but may be useful in developing CERCLA remedies; i.e., health effects information or guidance for determining clean-up levels. These ARARs and TBC guidance are divided into three categories: chemical-specific, action-specific, and location-specific requirements.

This section describes the ARARs and TBC guidance that may be applied to the removal action being evaluated within this EE/CA Report. In accordance with the National Contingency Plan (NCP) [40 CFR 300.415(j)], removal actions must comply with ARARs only "to the extent practicable considering the exigencies of the situation."

3.1.3.1 *Potential Chemical-Specific ARARs*

Chemical-specific requirements establish health- or risk-based concentration limits or ranges for specific hazardous substances in various environmental media. These ARARs provide site clean-up levels or a basis for calculating clean-up levels for chemicals of concern. Chemical-specific ARARs are also used to indicate an acceptable level of discharge, to determine treatment and disposal requirements for a particular remedial activity, and to assess the effectiveness of a remedial alternative. The chemical-specific ARARs and TBC guidance identified for a response action in the AOC identified herein for the Site are presented in Table 4.

3.1.3.2 *Potential Location-Specific ARARs*

Location-specific requirements establish restrictions on the types of remedial activities that can be performed based on specific Site characteristics or location. Location-specific ARARs provide a basis for assessing restrictions during the formulation and evaluation of Site-specific remedies. Remedial alternatives may be restricted or precluded based on siting laws for hazardous waste facilities and based on proximity to wetlands, floodplains, or man-made features such as a landfill, disposal area, and/or local historic buildings. The location-specific ARARs and TBC guidance identified for a response action for the Site are presented in Table 5.

3.1.3.3 *Potential Action-Specific ARARs*

Action-specific requirements establish controls or restrictions on the design, implementation, and performance of removal actions. These ARARs specify performance levels, actions, or technologies, and specific levels for the discharge of residual chemicals. They also provide a basis for assessing the feasibility and effectiveness of the remedial alternatives. The action-specific ARARs and TBC guidance identified for a removal for the Site are presented in Table 6.

3.2 *RESPONSE ACTION SCHEDULE*

This EE/CA Report and the response action recommended herein, is subject to regulatory review and public comment. After the regulatory review and public comment period, the identification of the removal action to be implemented, if any, will be finalized. Given these conditions, the projected schedule for the completion of this response action is as follows:

- EE/CA Report Submittal to the USEPA — March 25, 2008
- USEPA/MDE Regulatory Review — March 26, 2008 through April 10, 2008
- Address Comments, Submit Final EE/CA Report to USEPA — April 10, 2008 through April 17, 2008
- Public Comment Period — April 21, 2008 through May 20, 2008
- Preparation of Action Memorandum — May 21, 2008 through May 27, 2008
- Preparation of Permit Submittals — March through May 2008

- Contractor Procurement — April through May 2008
- Implementation of Response Action — May 28, 2008 through June 27, 2008

The timing of the removal action is dependent upon obtaining all necessary reviews, approvals, and acceptances from the various regulatory and public entities in a timely manner. The schedule will also be subject to weather and/or other similar unforeseen delays. It is noted that a portion of the Site termed the Unclaimed Landfill is subject to access restrictions which require completion of the response action before June 23, 2008. The response action on this portion of the Site will be prioritized to meet the stipulated schedule in the event of any unforeseen delays in the milestones presented above.

4.0 IDENTIFICATION AND ANALYSIS OF RESPONSE ACTIONS

This section presents the identification and initial screening of potential response action technologies for the NTCRA. These potential technologies are summarized in Section 4.1, and the various alternatives derived from either stand-alone or composite response action technologies are presented in Section 4.2. A comprehensive analysis of the resulting response alternatives is presented in Section 4.3.

4.1 IDENTIFICATION OF POTENTIAL REMEDIAL TECHNOLOGIES

Typically, the breadth of response action technologies considered for addressing impacted soils include removal, consolidation, on-Site or off-Site disposal, containment, in-situ or ex-situ treatment, and off-Site treatment. This early action will, however, be interim to the implementation of a full Site remedy conducted as a result of the RI/FS activities, and is therefore temporary in nature. The response action selected therefore must not be inconsistent with any long-term remedy for the Site. Further, since the POIs are small, discrete areas with a minimum volume of surface soils to be addressed through an early removal action, many of the typical alternatives can be screened from further consideration based on inefficiencies relative to constructability and cost. Therefore, the response action technologies that meet the RAOs, either stand-alone or in combination, and are further assessed herein are presented below:

- No action;
- Limited action with engineering controls;
- Removal with off-Site disposal; and,
- Removal with consolidation and on-Site storage.

In the case of removal with off-Site disposal, several sub-alternatives are available to accomplish this overall task, including off-Site treatment versus direct disposal. Each of these technologies is discussed subsequently in this section.

4.1.1 No Action

CERCLA and the National Contingency Plan (NCP) require that the no-action alternative be evaluated at every site to establish a baseline for comparison. Under this alternative, no response action of any kind would be employed. The no-action alternative will not reduce any risk associated with direct contact,

ingestion, or inhalation of impacted materials; therefore, this alternative is not more protective of human health and the environment than the current condition. Nevertheless, CERCLA requires a review of Site conditions every five years, at which time the no-action alternative representative of the condition of the Site at that time will be reconsidered.

Even though the no-action alternative does not meet the RAOs, it is retained as an alternative to serve as a basis for the comparison of performance of other alternatives

4.1.2 *Limited action with engineering controls*

Limited actions acknowledge the potential threat posed by a Site, but do not implement active, but rather passive response actions which reduce the potential exposure pathways made available. These actions may include passive controls such as Site inspection and monitoring, isolation through engineering controls (inclusive of fencing, signage or other barriers to exposure), and similar activities. Institutional controls may also be included as limited action.

Since limited actions do not reduce the threat posed by the materials or contamination on the Site, only limited exposure pathways are addressed. As an example, direct contact to, and ingestion of contaminated soils could be mitigated through isolation achieved with fencing, signage and other barriers. In this case, releases to the groundwater and surface-water pathways would not, however, be addressed. Nevertheless, the isolation, inspection and monitoring of identified Site contamination could be temporarily managed until the final Site remedy was emplaced after the RI/FS. Therefore, limited action, and the components contained therein, will be retained for further consideration.

4.1.3 *Removal with off-Site Disposal*

The potential technologies for removal include: 1) excavation of impacted surficial soils and sediment; 2) removal of intact and non-intact containers with liquids or non-native soil contents; and, 3) removal of intact and non-intact containers with native soil contents or no contents. Access is not readily available to a majority of the POI locations identified herein; therefore, clearing of surficial scrub trees and brush would be required in concert with the removal activities. Soil, sediment, and container removal activities would also include establishing temporary staging, stockpile, and/or loading areas.

Soils, sediment and containers designated for removal would be transported to a permitted, off-site treatment or disposal facility. Treatment and/or disposal at hazardous and non-hazardous facilities may be required based on the characterization of the materials. This technology requires sampling,

characterization, and transportation to the permitted facility, and has been retained for further consideration. The components of this response action are discussed in the following sections.

4.1.3.1 *Excavation*

Earthmoving equipment would be utilized to remove impacted soil and/or sediment. The area of excavation of soil and sediment would be initially based on field screening results from the EE/CA field investigations and amended in the field, as needed, during removal activities. Removal of surface soils would be to a maximum one-foot depth and include, at a minimum, the POIs that are comprised of surface soils exceeding the upper bound cancer/non-cancer risk (i.e., 1×10^{-4} and a hazard quotient of 10). Obviously contaminated materials below a depth of one-foot, as determined by visual examination, would also be removed as determined in the field. Additionally, any empty container located in or within the immediate vicinity of the excavation area would be removed as a general housekeeping measure. Excavated areas would be backfilled or regraded as necessary, and vegetated.

4.1.3.2 *Containers with Liquid/Non-Native Contents*

Intact and non-intact containers with liquids or non-native contents would be sampled and characterized. Containers with contents deemed hazardous would be removed along with their contents. Containers designated for removal would be managed appropriately, including overpacking and staging. Removal would be utilized by appropriately-sized earthmoving equipment that would be selected to minimize any damage to the surrounding environment.

4.1.3.3 *Containers with Non-hazardous, Native Soil, or No Contents*

Intact and non-intact containers with native soil or no contents would be removed; however, native soil would remain in place to the extent practicable. Removal would be utilized by appropriately-sized earthmoving equipment that would be selected to minimize any damage to the surrounding environment.

4.1.4 ***Removal with Consolidation and on-Site Storage***

Soils, sediment and drums that are removed from their current location, as discussed in Section 4.1.3, would be consolidated and stored at a designated on-Site location(s) for further consideration and incorporation into the full Site remedy to result from the RI/FS. These materials would be stored in containers; i.e., roll-offs, and covered in a secured area (e.g., fenced area). The surficial soils and sediment would be excavated and consolidated in the designated area. Containers with non-native solids and liquids would, first, be sampled and

analyzed. Drums that contain hazardous materials would be re-located to the designated staging area. This technology has been retained for further consideration.

4.2 *RESPONSE ALTERNATIVES AND ANALYSIS*

This section of the EE/CA report formulates alternatives compiled from the response action technologies that have been retained through the technology screening process discussed in Section 4.1. Each of the resulting alternatives is considered potentially applicable for the NTCRA, and consist of elements of the various technologies as needed to address each risk consideration. The following response action alternatives were configured for more comprehensive evaluation:

- Alternative 1 – No Action;
- Alternative 2 – Excavation and Off-Site Disposal of Impacted Soils, Sediment, and Containers with Hazardous Liquid/Non-Native Contents, and Site Access Restriction;
- Alternative 3 – Excavation and Off-Site Disposal of Impacted Soils, Sediment, and Intact and Non-Intact Containers , and Site Access Restriction; and,
- Alternative 4 – Excavation, Consolidation, and On-Site Storage of Soils, Sediment, and Containers with Hazardous Liquid/Non-Native Contents, , and Site Access Restriction.

Each of these response action alternatives are further discussed and evaluated independently against the specific screening criteria below. Opinions of Probable Construction Cost for each of the alternatives were developed for incorporation into the comparative analysis, and are presented in Tables 7 through 9.

4.2.1 *Screening Criteria*

The removal action alternatives were evaluated against three screening criteria, as follows:

- Implementability;
- Effectiveness; and,
- Cost.

The implementability criterion addresses the technical and administrative feasibility of implementing an alternative, and the availability of various

materials and services required during its implementation. In addition, the potential for acceptance of an alternative by the regulatory agencies and the community is also considered in the implementation of a response action. Technical feasibility includes the consideration of the long-term reliability, prior application, and operational difficulties of an alternative as well as logistical, climate, and terrain limitations. Administrative feasibility includes the consideration of coordinating activities with regulatory agencies and obtaining permits, easements, right-of-way agreements and zoning variances. The availability of materials and services includes consideration of the availability and distance to off-Site materials suppliers and/or treatment, storage, and disposal facilities.

The effectiveness criterion addresses the ability of an alternative to meet the RAOs, including overall protection of human health and the environment, attainment of ARARs and TBC guidance, long-term effectiveness and permanence, short-term effectiveness, and reduction of toxicity, mobility, or volume by treatment or permitted disposal. The protection of human health and the environment considers the reduction, control or elimination of risks at the Site through the use of treatment, engineering or institutional controls. Attainment of ARARs and TBC guidance considers the ability of response actions to meet regulatory requirements. Long-term effectiveness and permanence includes consideration of the magnitude of risks associated with residuals or untreated waste at the Site relative to trespassers and the reliability of the removal action to maintain its integrity. Short-term effectiveness includes the consideration of community protection from air quality impacts, fugitive dust, and the transportation of hazardous materials; worker protection during implementation; environmental impacts; and the timeframe required to achieve protection. Reduction of toxicity, mobility, or volume includes the consideration of the USEPA policy of preference for treatment and the extent and irreversibility of treatment.

The cost criterion addresses the relative magnitude of capital costs. Capital costs consist of direct and indirect costs. Direct costs include costs associated with construction, equipment, materials, transportation, disposal, analytical services, treatment, and operation. Indirect costs include expenses related to engineering, design, legal fees, permits, and start-up. Since the removal action is an antecedent to the long-term remedial action, operation and maintenance costs are not considered herein.

4.2.2 *Alternative 1 – No Action*

No active response action would be implemented under this alternative. The "no action" alternative, however, must be evaluated at every site to establish a baseline for comparison. As discussed in Section 2.4, the current conditions of

the selected POIs present a risk to human health and the environment, including the public. Therefore, the no action alternative does not meet the RAOs and is not protective of the environment.

4.2.2.1 *Implementability*

Since there are no active construction activities or engineering/ administrative issues with this alternative, the no action alternative is readily implementable.

4.2.2.2 *Effectiveness*

The no-action alternative is not effective in reducing risks to human health or the environment as the currently available exposure pathways are not mitigated. Therefore, this alternative would not meet the established RAOs.

4.2.2.3 *Cost*

There are no costs associated with this alternative. The selected POIs would be addressed during the Site-wide remedy to evolve from the RI/FS.

4.2.3 *Alternative 2 – Excavation and Off-Site Disposal of Impacted Soils, Sediment, and Containers with Hazardous Liquid/Non-Native Contents, and Site Access Restriction*

This alternative primarily includes excavation and disposal of impacted soils and sediment, and the characterization and disposal of containers with hazardous liquid or non-native contents. Based on field screening results from the EE/CA work activities conducted in February 2008, eleven (11) locations at 10 POIs were identified for soil excavation and disposal: A-6, A-14-1, A-58, A-79-1 and A-79-2, B-31, B-71-2, B-127, B-143-2, D-1, and D-5 (see Figure 3). These locations exceed the upper-bound cancer risk as defined in Section 2.4. Additionally, POIs A-70, B-124, and B-134 will be sampled and analytical laboratory-tested to refine the "greater than" screening result and determine whether the POI exceeds the specified action level for the constituent of interest (PCBs or pesticides).

Soil and sediment would be removed within the impacted area determined by prior field screening data from the EE/CA work activities. The dimensions of the designated area for removal would be 10 feet long by 10 feet wide by 1 foot deep. The removal of additional soil and sediment located adjacent to existing impacted areas would be considered where visible staining is observed. Upon initial completion of excavation activities, confirmation analyses would be conducted for the constituent(s) that exceeded the action level(s) (upper-bound risk level) at that POI, as indicated in Table 2. Confirmation analyses would be conducted at five (5) locations, including the bottom and the sidewall of the completed initial excavation, in each cardinal direction. If the confirmation

results exceed an action level at a sidewall location, the excavation boundary would be extended five (5) feet in that direction, and confirmation analyses

would be performed again. If the second confirmation results continue to exceed the action level, no further excavation would be conducted; rather, the area would be designated for further investigation during the RI/FS activities and addressed by the resulting Site-wide remedy. Similarly, if the confirmation results from the bottom of the excavation exceed the action level, an additional one foot of soil would be removed from the bottom of the area. Confirmation would be performed again, but no additional removal would be conducted. Confirmation analyses would consist of field screening with the XRF for metals and sampling and laboratory analysis for pesticides (EPA Method 8081); VOCs, SVOCs, and PCBs did not exceed the action level at any POI and therefore would not be addressed further. Calibration samples for the XRF will be collected and analyzed in the laboratory at eight (8) screening locations. Quality assurance will be conducted in accordance with the USEPA-approved Site-Wide Work Plan.

Earthmoving equipment of appropriate size considering the restricted access would be used to remove the soils and sediment within each designated POI location; the excavated material would then be consolidated, sampled, and characterized for off-site disposal to an appropriate facility for treatment and/or disposal. Each designated POI location would be backfilled with common borrow soils from an appropriate off-Site source of clean borrow soil, graded to match the surrounding area, seeded and mulched.

All containers previously observed during the EE/CA work activities with potential liquid or non-native contents would be characterized for hazardous constituents. Fifteen (15) POI locations contain one or more drums designated for characterization, including, A-58, A-64, A-79-1, A-122, A-133-2, A-140, B-7-1 and B-7-2, B-68, B-137-1, B-143-2, B-169, D-1, D-2, and D-3 (see Figure 3). Four (4) of these locations also include soil excavation and disposal (A-58, A-79-1, B-143-2, and D-1). Drum sampling and management would be performed in accordance with the USEPA Drum Sampling SOP #209 (see Appendix D). A field determination would be made at each location as to whether the drums would be overpacked or the drum contents would be transferred to mitigate the hazards associated with container collapse. Containers will be sampled and tested in accordance with the following methods:

- Toxicity Characteristic Leaching Procedure (TCLP), (EPA Method 1311);
- Flash Point (EPA Method 1020);
- pH, Corrosivity (EPA Method 9045); and,
- Reactivity (EPA Method 9014/9034).

Containers with contents deemed to be hazardous upon characterization would be removed and properly disposed off-Site, while containers deemed to be non-hazardous would remain in their existing locations. However, empty containers and other materials that are observed during normal NTCRA activities may be removed with consideration to accessibility, container characteristics and other constraints as a means of general housekeeping.

A total of 22 locations at 21 POIs are included within Alternative 2. Limited clearing would be required to access POI locations designated for removal activities. Existing conditions at the Site, including dense woody vegetation, steep terrain, major and minor waterways, debris and other obstacles currently prohibit access by removal equipment. Clearing would be limited to the extent practicable to permit access and an unobstructed work area. Existing paths would be used to the maximum extent practicable.

Signs would be posted around the perimeter of the Site, where authorized, to prohibit trespassing by the public and to inform potential trespassers that the area is a former landfill and subject to health and safety and access restrictions. Signs would only be posted upon the approval of the property owner, and at a nominal interval of 500-feet. The signs would be approximately 24 inches by 18 inches and read "No Trespassing / This Property is a Superfund Site / Clean-up Activities On-going", or similar. The signage would supplement fencing and vehicular access controls installed to-date by individual property owners. Specifically, the access controls that currently exist include the following:

- a berm located at the end of Quad Avenue to restrict vehicular access onto MA-B;
- a locked gate located approximately 600 feet south of the North Point Boulevard/Quad Avenue intersection that provides access to MA-A and B via a unpaved access path;
- a utility pole across the access path to MA-B near the substation from the warehouse parking area;
- a fence in the northeastern portion of the study area between Redhouse Run, the unnamed pond, and the CSX rail lines;
- concrete "jersey" barriers located between the Moravia Road exit and the ramp stub ending at MA-E;
- the sanitary sewer pipe that crosses Herring Run has been elevated deterring access to the Island Landfill; and,
- natural waterways and heavy vegetation deter vehicular access to the Site at other non-fenced areas.

4.2.3.1 *Implementability*

Alternative 2 is implementable; clearing and grubbing and other access measures may be required to permit access and an unobstructed work area. Engineering controls may be required to minimize fugitive dust emissions, limit the area of disturbance, and minimize erosion and sediment transport during earthwork operations. Permits would not be required for disturbance of the native vegetation at this time. Property owner approval would be required for the posting of signs.

4.2.3.2 *Effectiveness*

This alternative will eliminate areas of significant risk to human health and the environment, most notability trespassers and ecologic receptors. The response action would support the performance of the Site-wide RI/FS activities by providing additional access data collection points and reducing risks to field operators. This alternative would also not be inconsistent with future long-term remedial actions.

4.2.3.3 *Cost*

The capital costs associated with this alternative are approximately $183,000, as presented in Table 7.

4.2.4 *Alternative 3 – Excavation and Off-Site Disposal of Impacted Soils, Sediment, and Intact and Non-Intact Containers, and Site Access Restriction*

This alternative includes the activities described in Alternative 2 with the scope expanded to include the removal of all intact and non-intact containers, regardless of content or lack thereof.

Eleven (11) locations at 10 POIs were identified for soil excavation and disposal: A-6, A-14-1, A-58, A-79-1 and A-79-2, B-31, B-71-2, B-127, B-143-2, D-1, and D-5 (See Figure 3). These locations exceed the upper-bound cancer risk. Soil and sediment will be removed within the impacted area determined by prior field screening data from the EE/CA work activities. The removal of additional soil and sediment located adjacent to existing impacted areas would be considered where visible staining is observed. Confirmation analyses would be performed consistent with the protocol described under Alternative 2. Additionally, POIs A-70, B-124, and B-134 will be sampled and analytical laboratory-tested to refine the "greater than" screening result and determine whether the POI exceeds the specified action level for the constituent of interest (PCBs or pesticides).

All intact and non-intact containers, with and without contents, previously observed during the EE/CA work activities would be removed and treated or

disposed off-Site. Sixty three (63) POI locations contain one or more drums designated for removal under this alternative. Container carcasses would not be considered within the scope of this alternative. Those containers with liquid or non-native soil contents would be sampled and characterized for hazardous constituents (see Table 1 for applicable locations). Characterized containers would be properly disposed off-Site as hazardous or non-hazardous; the remaining containers would be disposed as non-hazardous materials. A total of 77 locations at 63 POIs are included within Alternative 3.

4.2.4.1 *Implementability*

Alternative 3 is implementable. However, the number of POIs to be addressed would require significant disturbance of native vegetation to clear pathways to access each location. This ecological disturbance may not be warranted before the full Site remedy is determined and implemented. Further, engineering controls may be required to minimize fugitive dust emissions, limit the area of disturbance, and minimize erosion and sediment transport during earthwork operations. Property owner approval would be required for the posting of signs.

4.2.4.2 *Effectiveness*

This response action would support the performance of the Site-wide RI/FS activities by providing additional access data collection points and reducing risks to field operators. This alternative would also not be inconsistent with future long-term remedial actions.

4.2.4.3 *Cost*

The capital costs associated with this alternative are approximately $283,000, as presented in Table 8.

4.2.5 *Alternative 4 – Excavation, Consolidation, and On-Site Storage of Soils, Sediment, and Containers with Hazardous Liquid/Non-Native Contents, and Site Access Restriction*

With the exception of the final treatment or disposal method, Alternative 4 is similar to Alternative 2. The removal operations would be the same, only the management thereafter would consist of temporary on-Site storage in a secure area until the full Site remedy was implemented. The storage containers would be isolated and protected from precipitation infiltration, leachate releases, and fugitive dust generation. Due to the streams that bisect the Site and the requirement to drive beyond the Site boundaries to gain access to the entire Site , two storage areas will likely be required.

Eleven (11) locations at 10 POIs were identified for soil excavation and disposal: A-6, A-14-1, A-58, A-79-1 and A-79-2, B-31, B-71-2, B-127, B-143-2, D-1, and D-5 (See Figure 3). These locations exceed the upper-bound cancer risk. Soil and sediment will be removed within the impacted area determined by prior field screening data from the EE/CA work activities. The removal of additional soil and sediment located adjacent to existing impacted areas would be considered where visible staining is observed. Confirmation analyses would be performed consistent with the protocol described under Alternative 2. Additionally, POIs A-70, B-124, and B-134 will be sampled and analytical laboratory-tested to refine the "greater than" screening result and determine whether the POI exceeds the specified action level for the constituent of interest (PCBs or pesticides).

Similar to Alternative 2, fifteen (15) POI locations contain one or more drums designated for characterization, including, A-58, A-64, A-79-1, A-122, A-133-2, A-140, B-7-1 and B-7-2, B-68, B-137-1, B-143-2, B-169, D-1, D-2, and D-3 (see Figure 3). Four (4) of these locations also include soil excavation and disposal (A-58, A-79-1, B-143-2, and D-1). When considering both soil and drum removal, a total of 22 locations at 21 POIs are included within Alternative 4.

4.2.5.1 *Implementability*

Alternative 4 is implementable; clearing and grubbing and other access measures may be required to permit access and an unobstructed work area. Engineering controls may be required to minimize fugitive dust emissions, limit the area of disturbance, and minimize erosion and sediment transport during earthwork operations. Property owner approval would be required for the posting of signs and for use as a designated storage location for consolidated soils and containers.

4.2.5.2 *Effectiveness*

This response action would support the performance of the Site-wide RI/FS activities by providing additional access data collection points and reducing risks to field operators. However, the on-Site storage component would concentrate materials potentially presenting risks to human health and the environment, but would be isolated from ready access and exposure through engineering controls and containment. Nevertheless, this alternative would not be inconsistent with future long-term remedial actions

4.2.5.3 *Cost*

The capital costs associated with this alternative are approximately $197,000, as presented in Table 9.

5.0 *COMPARATIVE ANALYSIS AND RECOMMENDATIONS*

Each of the response action alternatives for the POIs at the 68th Street Landfill Site were separately evaluated in Section 4.2. A comparative analysis of the alternatives relative to each other is described within this section to determine the respective advantages and disadvantages of each and to determine the most suitable response action for implementation. The screening criteria discussed in Section 4.2.1 and utilized for individual alternative evaluation, including implementability, effectiveness, and cost, are also applied in this comparative analysis. The Summary of Comparative Analysis of Response Actions is presented in Table 10.

In order to objectively compare the response action alternatives, a weighted array was developed applying numerical weights and ratings to each of the screening criteria. Implementability and effectiveness were further subdivided for consideration of the specific components of those criteria. An appropriate relative weight for each component was assigned, from 0.5 to 1.5, for these subcategories; the relative weights are indicative of the significance of the contribution of that component to the overall criterion. Ratings between 1 (lowest) and 5 (highest) were assigned based upon a subjective evaluation of the degree to which each component satisfied the established goals. As noted in Table 10, the overall scores range from 54 to 68. This overall score is based on subjective input inherent in the process; nevertheless, the higher scores are indicative of anticipated overall performance of a particular remedy with respect to the other alternatives when considering the screening criteria and, therefore, assist in the decision-making process in conjunction with other evaluations.

The preferred response action alternative should provide the optimum balance among the alternatives with respect to the screening criteria. Specifically, the preferred alternative must satisfy the RAOs, comply with ARARs, and be cost effective. Consequently, Alternative 2 - Excavation and Off-Site Disposal of Impacted Soils, Sediment, and Containers with Hazardous Liquid/Non-Native Contents, and Site Access Restriction is recommended as the preferred response action alternative. Alternative 2 focuses on the higher risk areas consistent with the RAOs; whereas, Alternative 3 includes a significant effort to perform general housekeeping activities that could otherwise be performed as part of the overall long-term remedy and may adversely affect ecological receptors as a result of increased disturbance without any significant improvement in overall effectiveness. Alternative 2 had the highest overall score relative to the other alternatives when applying the screening criteria. The cost associated with this alternative is within the range of the other alternatives, but is the lowest in relative terms at $183,000.

The key factors that support this recommendation include the following:

- The reduction of risk to human health and the local ecology through the removal of higher risk surface exposures;
- The focused scope targets key areas limiting disturbance and accelerating implementation; and,
- The ability to reduce risk at a moderate cost by focusing on the POIs of greatest concern.

6.0 REFERENCES

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Tables

Table 1. EE/CA Work Plan and Additional Points of Interest

POI ID #	Coordinates		Points of Interest Subcategories			Description
	North	West	Containers with Liquids/Non-Native Contents	Containers w/Native or No Contents	Container Carcasses	
A-6	39.30924	-76.51826		5		tires, wires, drums, paint cans, bucket, scrap metal
(A-9) NA	39.31006	-76.51907				large piece of scrap metal
A-14	39.30998	-76.51901		3	2	(2) Sample Locations: 55-gal drums (5), tires, red-stained vegetation
A-17	39.31018	-76.51877		3		rusted car parts, drum and bucket covered in black material
A-21	39.31065	-76.51904		1		mattress, concrete cylinder, couch, drums, plastic trash
A-22	39.31064	-76.51899		1		concrete cylinder, wood furniture, fuel tank
A-37	39.30857	-76.52156			1	fabric material (carpet), rusted drum lid
A-40	39.30841	-76.52028		1		vehicle gas tank, tires (2)
(A-44) NA	39.30826	-76.52077				old trash can
A-49	39.30864	-76.52351		1		propane tank
A-58	39.30563	-76.52850	1			rusted drum containing hard black substance
A-62	39.30525	-76.52805		1		rusted fridge, concrete slabs, 55-gal drum, drain pipe
A-64	39.30523	-76.52752	1			appliances, rusted drum w/light colored soils, bricks, rubble, tires
A-70	39.30512	-76.52745		2		pile of tires (40), brick rubble, 55-gal drums
A-79	39.30474	-76.52588	1	5		(2) Sample Locations: several 55-gal drums scattered around ~20 ft radius, 1 with white granular materials
A-81	39.30468	-76.52526		1		55-gal drum (1), tires
A-82	39.30428	-76.52582		1		flattened rusted drum
A-89	39.30781	-76.52139		1		rusted 55-gal drum
A-95	39.30486	-76.52744				car battery
A-104	39.30387	-76.52755		2		uncapped well head, 55-gal drums (2), fridge
A-107	39.30414	-76.52773		7		(2) Sample Locations: 55-gal drums (7) scattered around ~10 ft
(A-112) NA	39.30134	-76.53248		1		blue barrel with contents observed as 'rock salt'
(A-113) NA	39.30421	-76.52851		1		blue barrel relocated for use as target practice
A-121	39.30880	-76.51616			1	plastic bottles, concrete block, washed out bridge, rusted drum
A-122	39.30824	-76.51603	1			blue barrel on its side (contains liquid)
A-123	39.30797	-76.51481			1	remnants of metal drums, scattered tires and litter
A-125	39.30772	-76.51493		1		pile of concrete blocks, drum, asphalt
(A-127) NR	39.30803	-76.51643				2007 Site Recon. Description: white plastic barrel
(A-128) NR	39.30832	-76.51670				2007 Site Recon. Description: flattened rusted drum
(A-129) NA	39.30814	-76.51796				rusty scrap metal
A-133	39.30619	-76.50823	1	1	2	(2) Sample Locations: 1 intact 55-gal drum w/potential soil contents, 1 55-gal non-intact drum, 2 corroded partial 55-gal drums
A-140	39.30626	-76.50892	1			extensive scattering of debris, tires (~60-80), appliances, drums, shopping cart
(A-141) NA	39.30608	-76.50920				tires, applicances, scrap metal
A-142	39.30619	-76.50961			1	55-gal drums, large camper van, rusted metal debris
A-146	39.30665	-76.51138		1		empty 10-gal fuel can
(A-152) NR	39.30551	-76.50812				2007 Site Recon. Description: upright 55-gal drum with label: 'flammable liquid'
A-154	39.30568	-76.51009				car battery, several tires
A-164	39.30542	-76.51184		2		(2) Sample Locations: corroded 55-gal drums (2)
(A-165) NR	39.30661	-76.51160				POI was identified as C-3
(A-166) NR	39.30687	-76.51254				2007 Site Recon. Description: corroded 55-gal drum in Herring Run
B-1	39.31195	-76.51649		2		two non-intact 55-gal drums with native soil contents
B-7	39.31157	-76.51652	4	10		(2) Sample Locations: 2 intact 55-gal drums w/liquid, 3+ non-intact 55-gal drums, 10-gal fuel can w/liquid, 3 intact 500-gal AST, significant additional debris
B-14	39.30966	-76.51550		1		Tires (9) in RHR, drum and conc piles
B-16	39.30915	-76.51511		3		Tires (20 scattered), drums (3), 50'x200' pond area
B-18	39.30964	-76.51635		3	1	(2) Sample Locations: Tires (4), drums (2)
(B-19) NR	39.31149	-76.51617				2007 Site Recon. Description: Drum, metal, general refuse
B-25	39.30977	-76.51985		1		Drum, 4" PVC pipe (60' long)
B-29	39.30930	-76.51935		1		Tires (7), corroded drum
B-31	39.30899	-76.51837			2	rubber/drum remains, scattered tires
B-33	39.30840	-76.51840			1	tires (2), drum remains

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	North	West	Containers with Liquids/Non-Native Contents	Containers w/Native or No Contents	Container Carcasses	
B-36	39.30830	-76.51893			3	(2) Sample Locations: partially buried tires (3), drum remain, roofing material
B-38	39.30845	-76.51950			1	tires (7), bottles, drums (2), 5-gallon can
(B-39) NR	39.30812	-76.51941				2007 Site Recon. Description: tire, drum remain, metal, general
B-59	39.30611	-76.52755		1		55-gallon drum, tires (2), metal items
B-62	39.30654	-76.52700				55-gallon drum was removed but previous location was evident, metal scraps, tires (2)
B-68	39.30678	-76.52490	1			non-intact 55-gal drum w/solid, tires (2)
B-71	39.30637	-76.52468		4	1	(2) Sample Locations: 55-gallon drums (6), tires (6), cinder blocks, brick, clay pipe, metal
B-72	39.30625	-76.52467		4		55-gallon drums (3), tires (11), box spring, metal/conc.
B-73	39.30602	-76.52511		1	1	55-gallon drum, tire
B-75	39.30606	-76.52537		2		(3) Sample Locations: drum remains (2), metal item, tires (2)
B-76	39.30586	-76.52550		2		(2) Sample Locations: drum remains (5), tires (15), metal item, conc/brick rubble
B-77	39.30559	-76.52537		2		drum remains (2)
(B-78) NA	39.30535	-76.52515				tires (3), car body, conc cylinders (3' DIA), general debris, plastic trash can, metal, wire
B-92	39.30359	-76.53266			2	metal, metal pipe (1" DIA), drum remains
B-93	39.30443	-76.53232		1		oil tank, metal appliances, orange seep in roadway
(B-103) NR	39.30681	-76.51628				Drum, tire
(B-107) NR	39.30765	-76.51625				POI portion not removed identified as D-3
(B-112) NR	39.30750	-76.51541				Tires (3), barrel
B-115	39.30720	-76.51932		2		250-gallon oil tank, metal scraps, drum remains
B-116	39.30706	-76.51942		1		55-gallon drum, (10) 5-gallon buckets, cinder blocks, conc
B-119	39.30700	-76.51799		1		Scattered partially overgrown drum remains, tires (5), metal
B-123	39.30676	-76.51724			1	Flattened drum
B-124	39.30677	-76.51710			3	Buried flattened drums
B-127	39.30642	-76.51728		1		blanket, 55-gallon drum, tires (2), metal
B-134	39.30714	-76.51716		1		Drum remains, metal, tire (large area of scattered protruding
B-135	39.30721	-76.51722			1	Tires (3), rubber matting, 55-gallon barrel
B-136	39.30633	-76.51587		1		two 55-gallon drums, wood spread along road edge
B-137	39.30607	-76.51589	1	5	2	(2) Sample Locations: 1 55-gal drum w/liquid, 7+ non-intact or crushed 55-gal drums, various other refuse
B-138	39.30591	-76.51585		1		Blue plastic, 55-gallon drum
B-143	39.30476	-76.51570	1	8		(2) Sample Location: 1 55-gal drum w/liquid, 8 empty non-intact 55-gal drums, various other refuse
B-145	39.30390	-76.51486		1		Pile of dry wall, 55-gallon drum, tires (15)
B-151	39.30462	-76.51646		1		Tires (40) spread over large pond area, 55-gallon drum, scrap metal
B-169	39.30363	-76.51453	1			non-intact 55-gal drum w/ash like contents
C-1	39.31050	-76.51947		1		500-gallon steel tank in tributary, scattered debris
C-2	39.31045	-76.51860		1		rusted empty, non-intact 55-gallon drum labelled as non-haz, car battery
C-3	39.30612	-76.51153		1		rubber 30-gal drum partially buried
C-4	39.30619	-76.51581		1		55-gal empty, rusty drum
C-5	39.30620	-76.51607		8		(2) Sample Locations: eight 55-gal, rusty, mostly intact drums
C-6	39.30733	-76.51581		1		55-gal rusty, intact drum
C-7	39.30666	-76.51711			2	two corroded, non-intact 55-gal drums
C-8	39.30512	-76.52537		2		(2) Sample Locations: two non-intact 30-gal drums
D-1	39.30504	-76.51577	1	1		two 55-gallon drums, 1 is non-intact, 1 intact w/solid contents
D-2	39.30529	-76.51578	2	6		eight 55-gallon drums, 6 are empty/non-intact, 2 partially full w/liquid
D-3	39.30747	-76.51604	2			two intact 30-gallon drums w/liquid, various debris
D-4	39.30688	-76.51565			1	crushed 55-gallon drum
D-5	39.30678	-76.51689		1	1	500-1000-gallon tank, crushed 55-gallon drum
Non-POI 1	39.30134	-76.53248				

Table 1. EE/CA Work Plan and Additional Points of Interest

POI ID #	Coordinates		Points of Interest Subcategories			Description
	North	West	Containers with Liquids/Non-Native Contents	Containers w/Native or No Contents	Container Carcasses	
Non-POI 2	39.30654	-76.51718				
Non-POI 3	39.30847	-76.51614				
Non-POI 4	39.30501	-76.52507				
Non-POI 5	39.30443	-76.53232				
Non-POI 6	39.30640	-76.51649				
CP-1						Grass covered soil adjacent to swingset and park building.
CP-2						Grass covered soil adjacent to swingset and park building.

Notes:

NA Point of Interest (POI) was not observed to contain materials that would create a human health risk (e.g., drum or other container).

NR POI was not re-located during EE/CA work activities; POI may have be relocated, removed, or not found as a result of human or environmental interactions. Presented coordinates are from 2007 Reconnaissance

CP Colgate Park, located approximately 1 mile southwest of the Site

1 Additional POIs identified during EE/CA work activities are labeled as "C-#' or "D-#".

2 Non-POI locations are arbitrarily chosen points throughout the Site.

Table 2
EE/CA Field Screening and Sampling Results

All results are listed in parts per million (ppm)

POI ID #	Arsenic			Lead			Cadmium			Chromium			VOCs		SVOCs		PCBs		DDT		Chlordane	
	Result	Qual	Accuracy	Result	Qual	Accuracy	Result	Qual	Accuracy	Result	Qual	Accuracy	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
68-F-K24-SS-G-(0-0.25)-(A-6)-02042008	65		13	1389		20	53	U		311		58	0.2		0		2.5	U	0.837		4.5	
68-F-K24-SS-G-(0-0.25)-(A-6-N)-02042008	**574**		33	**6395**		64	78		21	547		70										
68-F-K24-SS-G-(0-0.25)-(A-6-S)-02042008	33	U		864		16	58	U		336		67										
68-F-K24-SS-G-(0-0.25)-(A-6-E)-02042008	35	U		901		17	62	U		262		72										
68-F-K24-SS-G-(0-0.25)-(A-6-W)-02042008	57		15	1100		12	67	U		562		92										
68-F-J23-SS-G-(0-0.25)-(A-14-1)-02042008	36		8	437		11	59	U		302		74	0		1.54		2.5	U	4.937		0	U
68-F-J23-SS-G-(0-0.25)-(A-14-1-N)-02042008	49		10	705		14	59	U		525		73										
68-F-J23-SS-G-(0-0.25)-(A-14-1-S)-02042008	103		31	**6420**		64	163		22	1478		96										
68-F-J23-SS-G-(0-0.25)-(A-14-1-E)-02042008	20	U		431		12	62	U		381		85										
68-F-J23-SS-G-(0-0.25)-(A-14-1-W)-02042008	19	U		403		9	64		16	234		43										
68-F-J23-SS-G-(0-0.25)-(A-14-2)-02042008	15	U		186		7	56	U		234		48	0		0.95		2.5	U	8.234		0	U
68-F-J23-SS-G-(0-0.25)-(A-14-2-N)-02042008	22		6	320		8	53		18	313		47										
68-F-J23-SS-G-(0-0.25)-(A-14-2-S)-02042008	17	U		287		8	52	U		298		46										
68-F-J23-SS-G-(0-0.25)-(A-14-2-E)-02042008	19	U		410		9	66		17	119	U											
68-F-J23-SS-G-(0-0.25)-(A-14-2-W)-02042008	22		6	111		8	74	U		1043		112										
68-C-I23-SS-G-(0-0.25)-(A-17)-02042008	20	U		363		9	54	U		1331		78	0.38		1.2		2.5	U	8.541		0.45	
68-C-I23-SS-G-(0-0.25)-(A-17-N)-02042008	33	U		630		15	67	U		2262		121										
68-C-I23-SS-G-(0-0.25)-(A-17-S)-02042008	15	U		256		7	46	U		508		51										
68-C-I23-SS-G-(0-0.25)-(A-17-E)-02042008	32	U		608		15	66	U		1569		108										
68-C-I23-SS-G-(0-0.25)-(A-17-W)-02042008	22	U		421		10	25	U		2021		94										
68-C-H22-SS-G-(0-0.25)-(A-21)-02042008	16	U		294		8	61		16	858		57	0		0		2.5	U	0.18		0	U
68-C-H22-SS-G-(0-0.25)-(A-21-N)-02042008	26	U		454		12	61	U		408		59										
68-C-H22-SS-G-(0-0.25)-(A-21-S)-02042008	10	U		80		5	69		18	523		52										
68-C-H22-SS-G-(0-0.25)-(A-21-E)-02042008	8	U		36		4	55	U		113	U											
68-C-H22-SS-G-(0-0.25)-(A-21-W)-02042008	25	U		430		12	60	U		287		53										
68-C-H23-SS-G-(0-0.25)-(A-22)-02042008	7	U		34		3	50	U		166		38	0		0		2.5	U	0.123		0.005	
68-D-L19-SS-G-(0-0.25)-(A-37)-02052008	17		4	322		6	37	U		89	U		0		0		2.5	U	0.639		0	U
68-D-L19-SS-G-(0-0.25)-(A-37-N)-02052008	10	U		237		5	33	U		78		24										
68-D-L19-SS-G-(0-0.25)-(A-37-S)-02052008	18		5	424		7	37	U		176		34										
68-D-L19-SS-G-(0-0.25)-(A-37-E)-02052008	20		4	294		6	35	U		122		29										
68-D-L19-SS-G-(0-0.25)-(A-37-W)-02052008	9	U		137		4	35	U		93		25										
68-D-L21-SS-G-(0-0.25)-(A-40)-02052008	7	U		91		3	34		11	62	U		0.3		0.64		2.5	U	2.341		0	U
68-D-L16-SS-G-(0-0.25)-(A-49)-02052008	7	U		120		3	92		11	140		24	0.95		1.2		2.5	U	0.279	U	0	U
68-E-R9-SS-G-(0-0.25)-(A-58)-02112008	10	U		84		4	42	U		205		43	0.21			E	2.5	U	6.266		**72**	>
68-E-R9-SS-G-(0-0.25)-(A-58-N)-02112008																					0	U
68-E-R9-SS-G-(0-0.25)-(A-58-S)-02112008																					0.3	
68-E-R9-SS-G-(0-0.25)-(A-58-E)-02112008																					0	U
68-E-R9-SS-G-(0-0.25)-(A-58-W)-02112008																					2.5	
68-E-R9-SS-G-(0-0.25)-(A-62)-02082008	16	U		271		7	45	U		257		38	0.3		0		2.5	U	0.778		0	U
68-E-R9-SS-G-(0-0.25)-(A-62-N)-02082008	17	U		279		7	46	U		235		38										
68-E-R9-SS-G-(0-0.25)-(A-62-S)-02082008	8	U		91		3	37	U		69	U											

AR100507

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POI ID #	Arsenic			Lead			Cadmium			Chromium			VOCs		SVOCs		PCBs		DDT		Chlordane	
	Result	Qual	Accuracy	Result	Qual	Accuracy	Result	Qual	Accuracy	Result	Qual	Accuracy	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
68-E-R9-SS-G-(0-0.25)-(A-62-E)-02082008	13	U		216		5	40	U		272		33										
68-E-R9-SS-G-(0-0.25)-(A-62-W)-02082008	20	U		341		8	52	U		386		47										
68-E-R11-SS-G-(0-0.25)-(A-64)-02082008	16	U		276		7	46	U		182		37	0.16		-2.15		2.5	U	2.171		0	U
68-E-R11-SS-G-(0-0.25)-(A-64-N)-02082008	62	U		1236		28	87	U		522		90										
68-E-R11-SS-G-(0-0.25)-(A-64-S)-02082008	10	U		148		4	35	U		222		30										
68-E-R11-SS-G-(0-0.25)-(A-64-E)-02082008	21	U		360		9	53	U		309		46										
68-E-R11-SS-G-(0-0.25)-(A-64-W)-02082008	64		18	969		23	81	U		305		72										
68-E-R11-SS-G-(0-0.25)-(A-70)-02082008	30	U		505		13	61	U		141	U		0.17		0		2.5	U	20	>	0	U
68-E-R11-SS-G-(0-0.25)-(A-70-N)-02082008	10	U		139		4	36	U		72	U											
68-E-R11-SS-G-(0-0.25)-(A-70-S)-02082008	15	U		242		6	42	U		85	U											
68-E-R11-SS-G-(0-0.25)-(A-70-E)-02082008	11	U		195		5	38	U		94		26										
68-E-S13-SS-G-(0-0.25)-(A-79-1)-02112008	145	U		**13238**		117	66	U		**40928**		501	0.17		2.59		20.3		40		0.11	
68-E-S13-SS-G-(0-0.25)-(A-79-1-N)-02112008	9	U		70		3	42	U		569		40					2.5	U	2.629			
68-E-S13-SS-G-(0-0.25)-(A-79-1-S)-02112008	60	U		3540		33	55		17	2423		98					2.5	U	0.304			
68-E-S13-SS-G-(0-0.25)-(A-79-1-E)-02112008	9	U		93		4	41	U		212		31					2.5	U	2.482			
68-E-S13-SS-G-(0-0.25)-(A-79-1-W)-02112008	12	U		215		5	40	U		145		29					2.5	U	3.107			
68-E-S13-SS-G-(0-0.25)-(A-79-2)-02112008	13	U		172		5	44	U		6467		118	0.13		1.15		2.5	U	0.123		0.343	
68-E-S13-SS-G-(0-0.25)-(A-79-2-N)-02112008	32		6	271		7	49	U		17585		225										
68-E-S13-SS-G-(0-0.25)-(A-79-2-S)-02112008	17	U		459		7	39	U		1021		45										
68-E-S13-SS-G-(0-0.25)-(A-79-2-E)-02112008	25	U		235		10	67	U		**99294**		1049										
68-E-S13-SS-G-(0-0.25)-(A-79-2-W)-02112008	140	U		**9661**		102	75	U		12716		318										
68-F-S14-SS-G-(0-0.25)-(A-81)-02112008	13	U		219		5	41	U		164		32	0.17		5.69		2.5	U	0.976		0	U
68-F-S14-SS-G-(0-0.25)-(A-81-N)-02112008	30	U		517		13	36	U		276		55										
68-F-S14-SS-G-(0-0.25)-(A-81-S)-02112008	15	U		245		6	43	U		108		32										
68-F-S14-SS-G-(0-0.25)-(A-81-E)-02112008	13	U		218		5	40	U		115		28										
68-F-S14-SS-G-(0-0.25)-(A-81-W)-02112008	31	U		538		13	66	U		305		55										
68-E-T13-SS-G-(0-0.25)-(A-82)-02112008	18	U		413		8	43	U		334		42	0.11		3.12		2.5	U	0.343		0	U
68-E-T13-SS-G-(0-0.25)-(A-82-N)-02112008	15	U		346		6	38	U		149		33										
68-E-T13-SS-G-(0-0.25)-(A-82-S)-02112008	14	U		270		6	40	U		286		33										
68-E-T13-SS-G-(0-0.25)-(A-82-E)-02112008	15	U		300		6	41	U		196		32										
68-E-T13-SS-G-(0-0.25)-(A-82-W)-02112008	15	U		281		6	41	U		214		32										
68-F-N20-SS-G-(0-0.25)-(A-89)-02142008	11	U		159		6	41	U		148		31	0		0		2.5	U	0.527		1.696	
68-F-N20-SS-G-(0-0.25)-(A-89-N)-02142008	10	U		100		4	40	U		85	U											
68-F-N20-SS-G-(0-0.25)-(A-89-S)-02142008	10	U		126		4	48		13	128		29										
68-F-N20-SS-G-(0-0.25)-(A-89-E)-02142008	10	U		154		4	38	U		137		28										
68-F-N20-SS-G-(0-0.25)-(A-89-W)-02142008	10	U		122		4	40	U		106		29										
68-E-S11-SS-G-(0-0.25)-(A-95)-02082008	17	U		250		7	49	U		295		48	0.19			E	3		1.137		0	U
68-E-S11-SS-G-(0-0.25)-(A-95-N)-02082008	12	U		201		5	40	U		227		31										
68-E-S11-SS-G-(0-0.25)-(A-95-S)-02082008	13	U		219		5	42	U		309		35										
68-E-S11-SS-G-(0-0.25)-(A-95-E)-02082008	13	U		213		5	41	U		240		32										
68-E-S11-SS-G-(0-0.25)-(A-95-W)-02082008	19	U		327		8	52	U		247		41										

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Table 2
EE/CA Field Screening and Sampling Results

All results are listed in parts per million (ppm)

POI ID #	Arsenic			Lead			Cadmium			Chromium			VOCs		SVOCs		PCBs		DDT		Chlordane	
	Result	Qual	Accuracy	Result	Qual	Accuracy	Result	Qual	Accuracy	Result	Qual	Accuracy	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
68-E-U11-SS-G-(0-0.25)-(A-104)-02082008	8	U		146		4	56		12	69	U		0.07		0.11		2.5	U	1.137		0.343	
68-E-T11-SS-G-(0-0.25)-(A-107)-02082008	12	U		191		5	39	U		120		28	0.4		0		2.5	U	0.529		0	U
68-E-T11-SS-G-(0-0.25)-(A-107-N)-02082008	19	U		311		8	49	U		426		45										
68-E-T11-SS-G-(0-0.25)-(A-107-S)-02082008	14	U		261		7	59		16	194	U											
68-E-T11-WW-G-(0-0.25)-(A-107-W)-02082008	12	U		200		5	48		13	129		27										
68-E-T11-SS-G-(0-0.25)-(A-107-E)-02082008	41	U		703		18	73	U		276		64	0.08		0		2.5	U	6.75		0	U
68-E-T11-SS-G-(0-0.25)-(A-107-E-N)-02082008	39	U		667		16	72	U		313		62										
68-E-T11-SS-G-(0-0.25)-(A-107-E-S)-02082008	50	U		903		22	80	U		407		76										
68-E-T11-SS-G-(0-0.25)-(A-107-E-E)-02082008	40	U		708		17	76		25	582		77										
68-E-T11-SS-G-(0-0.25)-(A-107-E-W)-02082008	23	U		394		10	57	U		187		43										
68-E-U9-SS-G-(0-0.25)-(A-112)-02082008	7	U		35		3	42	U		83		28	0		0		2.5	U	0.963		0	U
68-F-K27-SS-G-(0-0.25)-(A-121)-02082008	7	U		72		3	53		12	68	U		0		0.9		2.5	U	0.43		5.363	
68-F-L28-SS-G-(0-0.25)-(A-122)-02082008	7	U		96		3	85		11	236		28	0		0.35		6.2		3.024		0	U
68-F-M29-SS-G-(0-0.25)-(A-123)-02082008	42		4	202		6	42	U		217		41	0		0		2.5	U	0.62		0	U
68-F-M29-SS-G-(0-0.25)-(A-123-N)-02082008	8	U		132		3	74		11	106		23										
68-F-M29-SS-G-(0-0.25)-(A-123-S)-02082008	79		4	115		4	87		13	252		44										
68-F-M29-SS-G-(0-0.25)-(A-123-E)-02082008	41		4	237		5	47		12	233		34										
68-F-M29-SS-G-(0-0.25)-(A-123-W)-02082008	48		4	163		4	75		12	227		37										
68-F-M29-SS-G-(0-0.25)-(A-125)-02082008	24		3	96		4	64		13	222		42	0		0.63		2.5	U	1.824		0	U
68-F-M29-SS-G-(0-0.25)-(A-125-N)-02082008	9		3	119		4	47		12	81	U											
68-F-M29-SS-G-(0-0.25)-(A-125-S)-02082008	61		4	119		4	42	U		220		44										
68-F-M29-SS-G-(0-0.25)-(A-125-E)-02082008	11		2	96		3	48		11	76	U											
68-F-M29-SS-G-(0-0.25)-(A-125-W)-02082008	15		2	80		3	35	U		83		26										
68-F-P38-SS-G-(0-0.25)-(A-133-1)-02062008	9	U		182		4	33	U		267		28	0		1.05		2.5	U	2.941		0	U
68-F-P38-SS-G-(0-0.25)-(A-133-1-S)-02062008	9	U		180		4	34	U		153		26	0		0		2.5	U	0.831		0.401	
68-F-P38-SS-G-(0-0.25)-(A-133-2)-02062008	14		3	208		5	52		12	334		33	0.21		0		2.5	U	1.953		0.466	
68-F-P38-SS-G-(0-0.25)-(A-133-2-N)-02062008	21		4	363		6	33	U		333		30										
68-F-P38-SS-G-(0-0.25)-(A-133-2-S)-02062008	28		5	323		7	48		13	640		53										
68-F-P38-SS-G-(0-0.25)-(A-133-2-E)-02062008	18	U		593		8	41		13	491		42										
68-F-P38-SS-G-(0-0.25)-(A-133-2-W)-02062008	7		2	111		3	31	U		143		23										
68-F-P37-SS-G-(0-0.25)-(A-140)-02062008	6	U		71		3	34	U		184		25	0.2		0		2.5	U	0.05		0	U
68-F-P36-SS-G-(0-0.25)-(A-142)-02062008	11	U		285		5	39		12	161		27	0		0		2.5	U	1.612		0	U
68-F-P36-SS-G-(0-0.25)-(A-142-N)-02062008	13		3	226		5	34	U		216		26										
68-F-P36-SS-G-(0-0.25)-(A-142-S)-02062008	12		4	252		5	34	U		150		25										
68-F-P36-SS-G-(0-0.25)-(A-142-E)-02062008	11		4	255		5	34	U		160		25										
68-F-P36-SS-G-(0-0.25)-(A-142-W)-02062008	13		4	312		6	35	U		157		26										
68-F-O34-SS-G-(0-0.25)-(A-146)-02062008	8	U		162		4	31	U		63	U		0		0		2.5	U	0.7		0.075	
68-A-Q35-SS-G-(0-0.25)-(A-154)-02052008	51		11	2603		18	97		11	282		27	4.3		3.5		2.5	U	1.054		0	U
68-A-Q35-SS-G-(0-0.25)-(A-154-N)-02052008	15		4	360		5	56		11	208		23										
68-A-Q35-SS-G-(0-0.25)-(A-154-S)-02052008	16	U		585		7	36		12	186		25										
68-A-Q35-SS-G-(0-0.25)-(A-154-E)-02052008	11	U		252		5	57		11	227		26										

Table 2
EE/CA Field Screening and Sampling Results

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POI ID #	Arsenic			Lead			Cadmium			Chromium			VOCs		SVOCs		PCBs		DDT		Chlordane	
	Result	Qual	Accuracy	Result	Qual	Accuracy	Result	Qual	Accuracy	Result	Qual	Accuracy	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
68-A-Q35-SS-G-(0-0.25)-(A-154-W)-02052008	10	U		238		5	60		11	124		22										
68-A-R-33-SS-G-(0-0.25)-(A-164-1)-02052008	6	U		63		3	77		11	113		24	0		0		2.5	U	0.252		0	U
68-A-R33-SS-G-(0-0.25)-(A-164-2)-02052008	7		2	82		12	73		3	421		32	0		0.25		2.5	U	3.647		0	U
68-F-E26-SS-G-(0-0.25)-(B-1)-02052008	30	U		511		12	62	U		611		59	0.2		1		2.5	U	0.669		0	U
68-F-E26-SS-G-(0-0.25)-(B-1-N)-02052008	30	U		512		13	65	U		304		52										
68-F-E26-SS-G-(0-0.25)-(B-1-S)-02052008	27	U		459		16	59	U		179		53										
68-F-E26-SS-G-(0-0.25)-(B-1-E)-02052008	35	U		621		11	69	U		215		79										
68-F-E26-SS-G-(0-0.25)-(B-1-W)-02052008	23	U		397		10	56	U		384		38										
68-F-G27-SS-G-(0-0.25)-(B-7-1)-02052008	27	U		456		11	58	U		192		53	0.1		5		2.5	U	0.485		0	U
68-F-G27-SS-G-(0-0.25)-(B-7-1-N)-02052008	40		9	403		10	59	U		299		57										
68-F-G27-SS-G-(0-0.25)-(B-7-1-S)-02052008	25	U		424		20	57	U		131	U											
68-F-G27-SS-G-(0-0.25)-(B-7-1-E)-02052008	30	U		521		13	65	U		264		55										
68-F-G27-SS-G-(0-0.25)-(B-7-1-W)-02052008	34	U		582		14	67	U		214	U											
68-F-G27-SS-G-(0-0.25)-(B-7-2)-02052008	12	U		61		5	60	U		135		44	0.17		3		2.5	U	0.203		0	U
68-F-G27-SS-G-(0-0.25)-(B-7-2-N)-02052008	25	U		392		10	60	U		214		51										
68-F-G27-SS-G-(0-0.25)-(B-7-2-S)-02052008	19	U		317		11	51	U		96	U	46										
68-F-G27-SS-G-(0-0.25)-(B-7-2-E)-02052008	26	U		433		8	58	U		155												
68-F-G27-SS-G-(0-0.25)-(B-7-2-W)-02052008	31	U		540		13	66	U		273		62										
68-F-I28-SS-G-(0-0.25)-(B-14)-02052008	14	U		107		6	59	U		135			0.12		7		2.5	U	0.572		0	U
68-F-I28-SS-G-(0-0.25)-(B-14-N)-02052008	11		3	39		4	54	U		115	U											
68-F-I28-SS-G-(0-0.25)-(B-14-S)-02052008	17		5	119		6	59	U		219		53										
68-F-I28-SS-G-(0-0.25)-(B-14-E)-02052008	21	U		273		9	59	U		258		49										
68-F-I28-SS-G-(0-0.25)-(B-14-W)-02052008	13	U		94		5	55	U		115	U											
68-F-K28-SS-G-(0-0.25)-(B-16)-02052008	10	U		59		4	53	U		109	U		0.03		0		2.5	U	0.268		0	U
68-F-J27-SS-G-(0-0.25)-(B-18-1)-02052008	18	U		182		7	61	U		122	U		0.12		3		2.5	U	3.459		0	U
68-F-J27-SS-G-(0-0.25)-(B-18-1-N)-02052008	23	U		319		9	58	U		150	U											
68-F-J27-SS-G-(0-0.25)-(B-18-1-S)-02052008	19	U		226		8	61	U		126	U											
68-F-J27-SS-G-(0-0.25)-(B-18-1-E)-02052008	16	U		140		6	59	U		118	U											
68-F-J27-SS-G-(0-0.25)-(B-18-1-W)-02052008	17	U		189		7	59	U		118	U											
68-F-J27-SS-G-(0-0.25)-(B-18-2)-02052008	13	U		217		5	41	U		132		33	0.2		5		2.5	U	5.98		0	U
68-F-J27-SS-G-(0-0.25)-(B-18-2-N)-02052008	17	U		283		7	48	U		175		40										
68-F-J27-SS-G-(0-0.25)-(B-18-2-S)-02052008	10	U		133		4	39		13	139		28										
68-F-J27-SS-G-(0-0.25)-(B-18-2-E)-02052008	12	U		194		5	38	U		75	U											
68-F-J27-SS-G-(0-0.25)-(B-18-2-W)-02052008	14	U		226		6	43		14	185		34										
68-F-J22-SS-G-(0-0.25)-(B-25)-02042008	25	U		131		9	79	U		170	U		0		4		2.5	U	1.032		0.031	U
68-F-J22-SS-G-(0-0.25)-(B-25-N)-02042008	14	U		151		6	48	U		94	U											
68-F-J22-SS-G-(0-0.25)-(B-25-S)-02042008	10	U		864		4	43	U		79	U											
68-F-J22-SS-G-(0-0.25)-(B-25-E)-02042008	20	U		298		8	56	U		241		45										
68-F-J22-SS-G-(0-0.25)-(B-25-W)-02042008	15	U		125		6	59	U		113	U											
68-F-K22-SS-G-(0-0.25)-(B-29)-02042008	41	U		576		17	77	U		224	U		0.04		3		2.5	U	3.361		0	U
68-F-K22-SS-G-(0-0.25)-(B-29-N)-02042008	14	U		172		6	50	U		189		36										

Table 2
EE/CA Field Screening and Sampling Results

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POI ID #	Arsenic			Lead			Cadmium			Chromium			VOCs		SVOCs		PCBs		DDT		Chlordane	
	Result	Qual	Accuracy	Result	Qual	Accuracy	Result	Qual	Accuracy	Result	Qual	Accuracy	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
68-F-K22-SS-G-(0-0.25)-(B-29-S)-02042008	53	U		929		23	82	U		261	U											
68-F-K22-SS-G-(0-0.25)-(B-29-E)-02042008	71	U		1566		33	85	U		285	U											
68-F-K22-SS-G-(0-0.25)-(B-29-W)-02042008	47	U		748		20	82	U		317		88										
68-F-K23-SS-G-(0-0.25)-(B-31)-02042008	28	U		443		11	60	U		239		62	0.18		2.64		2.5	U	1.259		0	U
68-F-K23-SS-G-(0-0.25)-(B-31-N)-02042008	**301**		54	**6974**		101	93	U		454		112										
68-F-K23-SS-G-(0-0.25)-(B-31-N-dup)-02042008	**178**		59	**6585**		110	108	U		328	U											
68-F-K23-SS-G-(0-0.25)-(B-31-S)-02042008	21	U		272		9	59	U		245		51										
68-F-K23-SS-G-(0-0.25)-(B-31-E)-02042008	27	U		406		11	62	U		304		61										
68-F-K23-SS-G-(0-0.25)-(B-31-W)-02042008	65		9	395		10	60	U		171	U											
68-F-L23-SS-G-(0-0.25)-(B-33)-02042008	32	U		535		13	64	U		374		62	0.04		0		2.5	U	0.445		0	U
68-F-L23-SS-G-(0-0.25)-(B-33-N)-02042008	20		4	63		5	57	U		112	U											
68-F-L23-SS-G-(0-0.25)-(B-33-S)-02042008	57		7	157		7	62	U		198	U											
68-F-L23-SS-G-(0-0.25)-(B-33-E)-02042008	24		5	110		6	60	U		141		46										
68-F-L23-SS-G-(0-0.25)-(B-33-W)-02042008	29	U		212		10	77	U		198	U											
68-F-L23-SS-G-(0-0.25)-(B-36-1)-02042008	48	U		848		21	77	U		423		107	0.04		0		2.5	U	2.341		0	U
68-F-L23-SS-G-(0-0.25)-(B-36-1-N)-02042008	48	U		856		21	77	U		377		87										
68-F-L23-SS-G-(0-0.25)-(B-36-1-S)-02042008	60		20	1049		26	86	U		346		11										
68-F-L23-SS-G-(0-0.25)-(B-36-1-E)-02042008	53		14	744		18	73	U		268		84										
68-F-L23-SS-G-(0-0.25)-(B-36-1-W)-02042008	49		14	699		17	70	U		211	U											
68-F-L23-SS-G-(0-0.25)-(B-36-2)-02042008	35	U		587		15	67	U		272		95	0.12		0		8.9		1.137		3.862	
68-F-L23-SS-G-(0-0.25)-(B-36-2-N)-02042008	27	U		376		11	67	U		213		61										
68-F-L23-SS-G-(0-0.25)-(B-36-2-S)-02042008	93		12	482		15	72	U		251	U											
68-F-L23-SS-G-(0-0.25)-(B-36-2-E)-02042008	35		7	232		9	63	U		186	U											
68-F-L23-SS-G-(0-0.25)-(B-36-2-W)-02042008	77	U		1392		35	98	U		428		124										
68-F-L22-SS-G-(0-0.25)-(B-38)-02052008	28	U		481		12	58	U		209	U		0		1		2.5	U	4.473		0.031	
68-F-L22-SS-G-(0-0.25)-(B-38-N)-02052008	16	U		184		7	55	U		115	U											
68-F-L22-SS-G-(0-0.25)-(B-38-S)-02052008	32	U		530		13	63	U		148	U											
68-F-L22-SS-G-(0-0.25)-(B-38-E)-02052008	76		20	1047		26	88		28	347	U											
68-F-L22-SS-G-(0-0.25)-(B-38-W)-02052008	52	U		932		23	78	U		243	U											
68-E-Q10-SS-G-(0-0.25)-(B-59)-02112008	16	U		304		7	43	U		220		35	0.32			E	2.5	U	0.014		1.424	
68-E-Q10-SS-G-(0-0.25)-(B-59-N)-02112008	15	U		314		6	39	U		233		32										
68-E-Q10-SS-G-(0-0.25)-(B-59-S)-02112008	16		5	280		6	43	U		881		50										
68-E-Q10-SS-G-(0-0.25)-(B-59-E)-02112008	15	U		382		6	43		13	274		30										
68-E-Q10-SS-G-(0-0.25)-(B-59-W)-02112008	13	U		254		6	39	U		212		32										
68-E-P11-SS-G-(0-0.25)-(B-62)-02112008	10	U		147		4	37	U		78	U		0.21			E	2.5	U	1.032		2.356	
68-F-O14-SS-G-(0-0.25)-(B-62)-02142008	10	U		147		7	37	U		78	U		0.21			E	2.5	U	1.032		2.356	
68-F-O14-SS-G-(0-0.25)-(B-68)-02142008	9	U		115		4	39		12	77	U		0.22		2		2.5	U	0.9		0	U
68-F-P15-SS-G-(0-0.25)-(B-71-1)-02142008	11	U		173		5	39	U		92		27	0.53		0		2.5	U	2.077		0	
68-F-P15-SS-G-(0-0.25)-(B-71-1-N)-02142008	13	U		250		5	46		12	108		27										
68-F-P15-SS-G-(0-0.25)-(B-71-1-S)-02142008	8	U		86		3	38	U		75	U											
68-F-P15-SS-G-(0-0.25)-(B-71-1-E)-02142008	8	U		83		3	38	U		74	U											

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Table 2
EE/CA Field Screening and Sampling Results

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POI ID #	Arsenic			Lead			Cadmium			Chromium			VOCs		SVOCs		PCBs		DDT		Chlordane	
	Result	Qual	Accuracy	Result	Qual	Accuracy	Result	Qual	Accuracy	Result	Qual	Accuracy	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
68-F-P15-SS-G-(0-0.25)-(B-71-1-W)-02142008	12	U		224		5	38	U		73	U											
68-F-P15-SS-G-(0-0.25)-(B-71-2)-02142008	11	U		173		5	39	U		78	U		0.57		10.5		2.5	U	0.102		72	>
68-F-P15-SS-G-(0-0.25)-(B-71-2-N)-02142008	7	U		64		3	46		13	70	U										0.862	
68-F-P15-SS-G-(0-0.25)-(B-71-2-S)-02142008	11	U		175		5	59		13	152		30									0.102	
68-F-P15-SS-G-(0-0.25)-(B-71-2-E)-02142008	8	U		114		3	34	U		63	U										3.9	
68-F-P15-SS-G-(0-0.25)-(B-71-2-W)-02142008	7	U		45		3	39	U		74	U										1.248	
68-F-P15-SS-G-(0-0.25)-(B-72)-02142008	12	U		184		5	38	U		92		29	0.72		7.5		2.5	U	0.065		0	U
68-F-P15-SS-G-(0-0.25)-(B-72-N)-02142008	10	U		153		4	36	U		92		24										
68-F-P15-SS-G-(0-0.25)-(B-72-S)-02142008	11	U		199		5	41		12	135		27										
68-F-P15-SS-G-(0-0.25)-(B-72-E)-02142008	15	U		387		6	54		13	79	U											
68-F-P15-SS-G-(0-0.25)-(B-72-W)-02142008	11	U		167		4	37	U		72	U											
68-F-P14-SS-G-(0-0.25)-(B-73)-02122008	12	U		208		5	40	U		363		37	0.36		1.66		2.5	U	1.408		3.4	
68-F-P14-SS-G-(0-0.25)-(B-73-N)-02122008	9	U		133		4	36	U		104		29										
68-F-P14-SS-G-(0-0.25)-(B-73-S)-02122008	9	U		102		4	37	U		76	U											
68-F-P14-SS-G-(0-0.25)-(B-73-E)-02122008	14	U		316		6	38	U		77	U											
68-F-P14-SS-G-(0-0.25)-(B-73-W)-02122008	8	U		99		3	35	U		91		24										
68-E-P14-SS-G-(0-0.25)-(B-75-1)-02122008	13	U		306		5	34	U		159		25	0.24		0		2.5	U	2.171		0.538	
68-E-P14-SS-G-(0-0.25)-(B-75-1-N)-02122008	14	U		324		6	35	U		189		26										
68-E-P14-SS-G-(0-0.25)-(B-75-1-S)-02122008	14		4	310		6	34	U		138		25										
68-E-P14-SS-G-(0-0.25)-(B-75-1-E)-02122008	10	U		163		4	35	U		166		166										
68-E-P14-SS-G-(0-0.25)-(B-75-1-W)-02122008	13	U		319		5	34	U		139		24										
68-E-P14-SS-G-(0-0.25)-(B-75-2)-02122008	11	U		217		5	34	U		213		26	0.19		0		2.5	U	1.137		0	U
68-E-P14-SS-G-(0-0.25)-(B-75-2-N)-02122008	10	U		189		4	34	U		183		25										
68-E-P14-SS-G-(0-0.25)-(B-75-2-S)-02122008	11	U		239		5	33	U		229		26										
68-E-P14-SS-G-(0-0.25)-(B-75-2-E)-02122008	12	U		232		5	36	U		300		30										
68-E-P14-SS-G-(0-0.25)-(B-75-2-W)-02122008	10	U		191		4	33	U		122		22										
68-E-P14-SS-G-(0-0.25)-(B-75-3)-02122008	11	U		210		5	34	U		235		25										
68-E-Q13-SS-G-(0-0.25)-(B-76-1)-02122008	9	U		130		4	33	U		112		22	0.37		0		2.5	U	1.618		1.11	
68-E-Q13-SS-G-(0-0.25)-(B-76-2)-02122008	7	U		103		3	29	U		53	U		0		0		2.5	U	3.28		0	U
68-F-Q14-SS-G-(0-0.25)-(B-77)-02122008	10	U		192		5	35	U		149		26	0.13		1.01		2.5	U	0.123		2.6	
68-F-V3-SS-G-(0-0.25)-(B-92)-02082008	10	U		151		4	34	U		125		28	0		0		2.5	U	0.373		0	U
68-E-T4-SS-G-(0-0.25)-(B-93)-02082008	25	U		424		11	57	U		121	U		0		0		2.5	U	0.123		0	U
68-E-T4-SS-G-(0-0.25)-(B-93-N)-02082008	10	U		132		4	41		13	71	U											
68-E-T4-SS-G-(0-0.25)-(B-93-S)-02082008	7	U		75		3	33	U		60	U											
68-E-T4-SS-G-(0-0.25)-(B-93-E)-02082008	12	U		167		5	41	U		95		28										
68-E-T4-SS-G-(0-0.25)-(B-93-W)-02082008	11	U		172		4	37	U		72	U											
68-E-T4-SS-G-(0-0.25)-(B-93-SEEP)-02082008	6	U		28		3	42		13	100		26										
68-F-N22-SS-G-(0-0.25)-(B-115)-02062008	14	U		227		6	42	U		153		32	1.43		1.33		2.5	U	0.123		0.225	
68-F-N22-SS-G-(0-0.25)-(B-115-N)-02062008	10	U		217		5	40	U		195		32										
68-F-N22-SS-G-(0-0.25)-(B-115-S)-02062008	10	U		152		4	37	U		127		26										
68-F-N22-SS-G-(0-0.25)-(B-115-E)-02062008	8	U		95		3	33	U		93		22										

AR100512

Table 2
EE/CA Field Screening and Sampling Results

All results are listed in parts per million (ppm)

POI ID #	Arsenic			Lead			Cadmium			Chromium			VOCs		SVOCs		PCBs		DDT		Chlordane	
	Result	Qual	Accuracy	Result	Qual	Accuracy	Result	Qual	Accuracy	Result	Qual	Accuracy	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
68-F-N22-SS-G-(0-0.25)-(B-115-W)-02062008	27	U		463		12	61	U		156		48										
68-F-N22-SS-G-(0-0.25)-(B-116)-02062008	8	U		69		3	38	U		102	U		0.9		5		2.5	U	0.174		0.659	
68-F-O22-SS-G-(0-0.25)-(B-119)-02062008	15	U		248		6	40	U		105	U		0.23		10		2.5	U	2.941		0.28	
68-F-N22-SS-G-(0-0.25)-(B-119-N)-02062008	30	U		516		13	62	U		172	U											
68-F-N22-SS-G-(0-0.25)-(B-119-S)-02062008	14	U		228		6	41	U		86	U											
68-F-N22-SS-G-(0-0.25)-(B-119-E)-02062008	28	U		461		11	71		20	172		56										
68-F-N22-SS-G-(0-0.25)-(B-119-W)-02062008	40	U		682		17	70	U		181	U											
68-B-O25-SS-G-(0-0.25)-(B-123)-02072008	75	U		1394		35	96	U		522	U		0.15		2		2.5	U	9.399		0.224	
68-B-O25-SS-G-(0-0.25)-(B-123-N)-02072008	32	U		550		14	62	U		338	U											
68-B-O25-SS-G-(0-0.25)-(B-123-S)-02072008	48		13	659		16	66	U		371	U											
68-B-O25-SS-G-(0-0.25)-(B-123-E)-02072008	33	U		555		14	82		21	328		71										
68-B-O25-SS-G-(0-0.25)-(B-123-W)-02072008	46	U		810		20	77	U		320	U											
68-B-O25-SS-G-(0-0.25)-(B-124)-02072008	47	U		882		21	75	U		301		73	0.1			E	2.5	U	20	>	1.727	
68-B-O25-SS-G-(0-0.25)-(B-124-N)-02072008	21	U		366		9	57		17	110	U											
68-B-O25-SS-G-(0-0.25)-(B-124-S)-02072008	54		10	483		12	83		20	300		60										
68-B-O25-SS-G-(0-0.25)-(B-124-E)-02072008	27	U		458		11	58	U		116	U											
68-B-O25-SS-G-(0-0.25)-(B-124-W)-02072008	44		7	310		8	48	U		110	U											
68-B-P25-SS-G-(0-0.25)-(B-127)-02072008	**172**		26	**4790**		48	85		20	3719		158	0.02		0.21		8.4		3.647		1.795	
68-B-P25-SS-G-(0-0.25)-(B-127-N)-02072008	41		5	455		7	50		11	312		35										
68-B-P25-SS-G-(0-0.25)-(B-127-S)-02072008	17		4	152		5	56		13	378		53										
68-B-P25-SS-G-(0-0.25)-(B-127-E)-02072008	37		5	242		7	54		15	799		71										
68-B-P25-SS-G-(0-0.25)-(B-127-W)-02072008	37		4	239		6	60		13	516		53										
68-F-N25-SS-G-(0-0.25)-(B-134)-02072008	16	U		632		7	54		10	185		26	0.12		0		20.4		2.941		0.097	
68-F-N25-SS-G-(0-0.25)-(B-134-N)-02072008	34		7	942		10	75		11	244		32					12.7					
68-F-N25-SS-G-(0-0.25)-(B-134-S)-02072008	100		14	2750		23	79		13	659		63					2.5	U				
68-F-N25-SS-G-(0-0.25)-(B-134-E)-02062008	24		7	887		9	48		11	131		30					2.5	U				
68-F-N25-SS-G-(0-0.25)-(B-134-W)-02062008	74		8	840		10	60		13	430		43					50	>				
68-F-N25-SS-G-(0-0.25)-(B-135)-02072008	19		5	430		7	84		12	201		34	0.1		0		17.5		9.181		0.186	U
68-F-N25-SS-G-(0-0.25)-(B-135-N)-02072008	36		6	567		8	82		12	285		34					2.8					
68-F-N25-SS-G-(0-0.25)-(B-135-S)-02072008	30		6	573		8	75		13	246		41					2.5	U				
68-F-N25-SS-G-(0-0.25)-(B-135-E)-02072008	16	U		520		8	43		12	210		38					3.9					
68-F-N25-SS-G-(0-0.25)-(B-135-W)-02072008	16	U		511		7	52		12	138		32					2.5	U				
68-B-P27-SS-G-(0-0.25)-(B-136)-02072008	16	U		259		6	44	U		202		40	0.08		1.12		2.5	U	0.226		0.839	
68-B-P27-SS-G-(0-0.25)-(B-136-N)-02072008	12	U		167		5	41	U		103		29										
68-B-P27-SS-G-(0-0.25)-(B-136-S)-02072008	9	U		110		4	38	U		166		29										
68-B-P27-SS-G-(0-0.25)-(B-136-E)-02072008	10	U		151		4	37	U		125		26										
68-B-P27-SS-G-(0-0.25)-(B-136-W)-02072008	10	U		98		4	41	U		121		31										
68-B-P27-SS-G-(0-0.25)-(B-137-1)-02072008	13	U		215		5	41	U		88	U		0.38		2.5		6.6		19.237		0.682	
68-B-P27-SS-G-(0-0.25)-(B-137-1-N)-02072008	51		16	1002		21	70	U		168	U											
68-B-P27-SS-G-(0-0.25)-(B-137-1-S)-02072008	41	U		706		18	73	U		968		114										
68-B-P27-SS-G-(0-0.25)-(B-137-1-E)-02072008	57		10	46		12	59	U		565		75										

AR100513

Table 2
EE/CA Field Screening and Sampling Results

All results are listed in parts per million (ppm)

POI ID #	Arsenic			Lead			Cadmium			Chromium			VOCs		SVOCs		PCBs		DDT		Chlordane	
	Result	Qual	Accuracy	Result	Qual	Accuracy	Result	Qual	Accuracy	Result	Qual	Accuracy	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
68-B-P27-SS-G-(0-0.25)-(B-137-1-W)-02072008	79		13	883		17	58	U		105	U											
68-B-P27-SS-G-(0-0.25)-(B-137-2)-02072008	43	U		734		18	81		25	223	U		0.25		6		2.5	U	0.203		0	U
68-B-P27-SS-G-(0-0.25)-(B-137-2-N)-02072008	22	U		359		9	51	U		100	U											
68-B-P27-SS-G-(0-0.25)-(B-137-2-S)-02072008	68	U		1219		30	93	U		551		139										
68-B-P27-SS-G-(0-0.25)-(B-137-2-E)-02072008	26		6	316		8	48	U		1823		83										
68-B-P27-SS-G-(0-0.25)-(B-137-2-W)-02072008	104	U		370		56	77	U		508		85										
68-B-Q27-SS-G-(0-0.25)-(B-138)-02062008	35		10	474		12	61	U		932		80	1.12		1.43		2.5	U	0.529		0.344	
68-B-Q27-SS-G-(0-0.25)-(B-138-N)-02062008	36		9	462		12	61	U		451		64										
68-B-Q27-SS-G-(0-0.25)-(B-138-S)-02062008	53		10	512		13	64	U		394		138										
68-B-Q27-SS-G-(0-0.25)-(B-138-E)-02062008	23		5	206		6	54		15	328		46										
68-B-Q27-SS-G-(0-0.25)-(B-138-W)-02062008	20	U		333		8	51	U		336		52										
68-B-S27-SS-G-(0-0.25)-(B-143-1)-02062008	28		5	163		6	50	U		104		83	2.35		-2.54		2.5	U	2.629		0.752	
68-B-S27-SS-G-(0-0.25)-(B-143-1-N)-02062008	32	U		546		14	66	U		143	U											
68-B-S27-SS-G-(0-0.25)-(B-143-1-S)-02062008	19		5	197		6	46	U		488		102										
68-B-S27-SS-G-(0-0.25)-(B-143-1-E)-02062008	49		12	615		15	70	U		875		102										
68-B-S27-SS-G-(0-0.25)-(B-143-1-W)-02062008	55		14	690		17	73	U		588		100										
68-B-S27-SS-G-(0-0.25)-(B-143-2)-02062008	45		14	710		18	24	U	-	20626		375	0.6		1		3.8		5.704		0.075	
68-B-S27-SS-G-(0-0.25)-(B-143-2-N)-02062008	40		13	653		16	72		23	**39540**		543										
68-B-S27-SS-G-(0-0.25)-(B-143-2-S)-02062008	83		11	524		13	63	U		13287		251										
68-B-S27-SS-G-(0-0.25)-(B-143-2-E)-02062008	52		15	759		19	75	U		9563		251										
68-B-S27-SS-G-(0-0.25)-(B-143-2-W)-02062008	65		9	430		11	57	U		1788		251										
68-B-T28-SS-G-(0-0.25)-(B-145)-02072008	12	U		172		5	40	U		33	U		0.11		2.2		2.5	U	0.976		0	U
68-B-T28-SS-G-(0-0.25)-(B-145-N)-02072008	10	U		145		4	38	U		544		37										
68-B-T28-SS-G-(0-0.25)-(B-145-S)-02072008	18	U		293		7	47	U		237		46										
68-B-T28-SS-G-(0-0.25)-(B-145-E)-02072008	10	U		139		4	37	U		74	U											
68-B-T28-SS-G-(0-0.25)-(B-145-W)-02072008	15	U		257		6	72		15	240		41										
68-B-S26-SS-G-(0-0.25)-(B-151)-02072008	14	U		184		6	51		15	149	U		0.14		3.12		2.5	U	18.462		0.009	
68-B-S26-SS-G-(0-0.25)-(B-151-N)-02072008	12	U		195		5	39	U		111		27										
68-B-S26-SS-G-(0-0.25)-(B-151-S)-02072008	17	U		285		7	48	U		192		35										
68-B-S26-SS-G-(0-0.25)-(B-151-W)-02072008	8	U		112		3	33	U		62		21										
68-B-U29-SS-G-(0-0.25)-(B-169)-02072008	13	U		215		6	47		14	122		40	0.08		1		2.5	U	3.28		0	U
68-B-U29-SS-G-(0-0.25)-(B-169-N)-02072008	15	U		197		6	48	U		375		50										
68-B-U29-SS-G-(0-0.25)-(B-169-S)-02072008	8	U		70		3	40	U		111		26										
68-B-U29-SS-G-(0-0.25)-(B-169-E)-02072008	11	U		179		5	40	U		150		30										
68-B-U29-SS-G-(0-0.25)-(B-169-W)-02072008	15	U		239		6	43	U		343		40										
68-F-H22-SS-G-(0-0.25)-(C-1)-02042008	26		9	448		12	63	U		348		67	0.02		0		2.5	U	4.254		0	U
68-F-H22-SS-G-(0-0.25)-(C-1-N)-02042008	30	U		751		14	89		19	472		63										
68-F-H22-SS-G-(0-0.25)-(C-1-S)-02042008	23		7	327		10	62	U		595		73										
68-F-H22-SS-G-(0-0.25)-(C-1-E)-02042008	17	U		286		8	82		17	310		47										
68-F-H22-SS-G-(0-0.25)-(C-1-W)-02042008	10	U		82		4	50	U		291		40										
68-C-I23-SS-G-(0-0.25)-(C-2)-02042008	9	U		44		4	58	U		121	U		1.39		1.24		2.5	U	1.223		0	U

AR100514

Table 2
EE/CA Field Screening and Sampling Results

All results are listed in parts per million (ppm)

POI ID #	Arsenic			Lead			Cadmium			Chromium			VOCs		SVOCs		PCBs		DDT		Chlordane	
	Result	Qual	Accuracy	Result	Qual	Accuracy	Result	Qual	Accuracy	Result	Qual	Accuracy	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
68-F-P33-SS-G-(0-0.25)-(C-3)-02062008	11		2	83		3	32	U		101		23	8.1		0.5		2.5	U	3.28		0.075	
68-F-P33-SS-G-(0-0.25)-(C-3-S)-02062008	9	U		121		4	41	U		155		32										
68-F-P33-SS-G-(0-0.25)-(C-3-E)-02062008	25		4	222		5	37	U		199		35										
68-F-P33-SS-G-(0-0.25)-(C-3-W)-02062008	7		2	96		3	30	U		57	U											
68-F-M27-SS-G-(0-0.25)-(C-6)-02072008	10	U		182		4	53		12	151		27	0.24		0		2.5	U	0.102		0.024	
68-B-P27-SS-G-(0-0.25)-(C-4)-02072008	35		6	459		8	63		13	601		52	0.15		0.1		2.5	U	1.259		0	U
68-B-P27-SS-G-(0-0.25)-(C-4-N)-02072008	36		6	325		8	67		15	869		68										
68-B-P27-SS-G-(0-0.25)-(C-4-S)-02072008	37		5	300		7	80		15	621		59										
68-B-P27-SS-G-(0-0.25)-(C-4-E)-02072008	13	U		329		6	61		12	227		29										
68-B-P27-SS-G-(0-0.25)-(C-4-W)-02072008	28		5	371		7	76		14	697		28										
68-B-P27-SS-G-(0-0.25)-(C-5-1)-02072008	63		10	1716		15	58		12	268		36	0.06		0.3		2.5	U	0.763		0	U
68-B-P27-SS-G-(0-0.25)-(C-5-1-N)-02072008	49		4	179		5	39	U		233		40										
68-B-P27-SS-G-(0-0.25)-(C-5-1-S)-02072008	63		3	137		4	40		11	149		26										
68-B-P27-SS-G-(0-0.25)-(C-5-1-E)-02072008	26		4	449		6	36		10	111		23										
68-B-P27-SS-G-(0-0.25)-(C-5-1-W)-02072008	57		4	186		5	57		12	261		36										
68-B-P27-SS-G-(0-0.25)-(C-5-2)-02072008	63		5	302		6	55		13	349		46	0.21		0		2.5	U	1.612		0	U
68-B-P27-SS-G-(0-0.25)-(C-5-2-N)-02072008	48		4	180		5	50			81		47										
68-B-P27-SS-G-(0-0.25)-(C-5-2-S)-02072008	52		4	180		5	39	U		403		47										
68-B-P27-SS-G-(0-0.25)-(C-5-2-E)-02072008	33		6	643		8	32	U		81	U											
68-B-P27-SS-G-(0-0.25)-(C-5-2-W)-02072008	31		3	133		4	36		12	159		32										
68-B-O26-SS-G-(0-0.25)-(C-7)-02072008	20		6	680		8	49		11	563		38	0.05		0.15		2.5	U	20		0.79	
68-B-O26-SS-G-(0-0.25)-(C-7-N)-02072008	30		4	360		6	37		10	276		29							2.341			
68-B-O26-SS-G-(0-0.25)-(C-7-S)-02072008	73		10	1671		15	53		12	501		42							9.399			
68-B-O26-SS-G-(0-0.25)-(C-7-E)-02072008	111		9	1147		13	41	U		494		51							13.808			
68-B-O26-SS-G-(0-0.25)-(C-7-W)-02072008	107		8	978		11	52		13	506		43							4.701			
68-F-S14-SS-G-(0-0.25)-(C-8-1)-02112008	38		11	567		14	65	U		296	U		0.16		3.19		2.5	U	2.298		0.024	
68-F-S14-SS-G-(0-0.25)-(C-8-1-N)-02112008	27	U		454		11	133	U		59	U											
68-F-S14-SS-G-(0-0.25)-(C-8-1-S)-02112008	22	U		364		9	54	U		131	U											
68-F-S14-SS-G-(0-0.25)-(C-8-1-E)-02112008	25	U		430		11	58	U		149	U											
68-F-S14-SS-G-(0-0.25)-(C-8-1-W)-02112008	23	U		395		10	55	U		180		47										
68-F-S14-SS-G-(0-0.25)-(C-8-2)-02112008	23	U		933		10	36	U		84		27	0.22		3.27		2.5	U	3.73		0.28	
68-F-S14-SS-G-(0-0.25)-(C-8-2-N)-02112008	37		8	704		10	40	U		124		32										
68-F-S14-SS-G-(0-0.25)-(C-8-2-S)-02112008	27	U		1343		12	35	U		221		27										
68-F-S14-SS-G-(0-0.25)-(C-8-2-E)-02112008	17	U		536		7	36	U		202		29										
68-F-S14-SS-G-(0-0.25)-(C-8-2-W)-02112008	46		9	949		11	40	U		297		37										
68-B-O26-SS-G-(0-0.25)-(D-1)-02062008	**207**		48	**4488**		80	101	U		399	U		1.95		2.06		2.5	U	0.037		0	U
68-B-O26-SS-G-(0-0.25)-(D-1-N)-02062008	**412**		58	**6300**		106	105	U		402	U											
68-B-O26-SS-G-(0-0.25)-(D-1-S)-02062008	58		5	160		6	47	U		325		59										
68-B-O26-SS-G-(0-0.25)-(D-1-E)-02062008	32		6	285		7	46	U		228		51										
68-B-O26-SS-G-(0-0.25)-(D-1-W)-02062008	**771**		91	**14942**		223	112	U		376	U											
68-B-R27-SS-G-(0-0.25)-(D-2)-02062008	14	U		208		6	43	U		179		40	0.3		4.41		2.5	U	0.123		0.752	

AR100515

Table 2
EE/CA Field Screening and Sampling Results

All results are listed in parts per million (ppm)

POI ID #	Arsenic			Lead			Cadmium			Chromium			VOCs		SVOCs		PCBs		DDT		Chlordane	
	Result	Qual	Accuracy	Result	Qual	Accuracy	Result	Qual	Accuracy	Result	Qual	Accuracy	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
68-B-R27-SS-G-(0-0.25)-(D-2-N)-02062008	12	U		159		5	63		13	148		38										
68-B-R27-SS-G-(0-0.25)-(D-2-S)-02062008	14		5	192		5	43	U		249		42										
68-B-R27-SS-G-(0-0.25)-(D-2-E)-02062008	29		5	263		7	45	U		333		46										
68-B-R27-SS-G-(0-0.25)-(D-2-W)-02062008	50		7	323		8	67		17	282		59										
68-F-N27-SS-G-(0-0.25)-(D-3)-02072008	17	U		276		7	47	U		124		37	0.12		2.92		2.5	U	1.054		0	U
68-F-N27-SS-G-(0-0.25)-(D-3-N)-02072008	13	U		212		5	40	U		132		30										
68-F-N27-SS-G-(0-0.25)-(D-3-S)-02072008	11	U		134		4	42	U		97	U											
68-F-N27-SS-G-(0-0.25)-(D-3-E)-02072008	14	U		219		6	43	U		285		40										
68-F-N27-SS-G-(0-0.25)-(D-3-W)-02072008	17	U		273		7	53		16	153		37										
68-F-O26-SS-G-(0-0.25)-(D-4)-02072008	22		7	351		9	52	U		189		46	0.04		0.02		2.5	U	0.343		0.225	
68-F-O26-SS-G-(0-0.25)-(D-4-N)-02072008	25	U		412		10	65		19	279		57										
68-F-O26-SS-G-(0-0.25)-(D-4-S)-02072008	14	U		226		6	41	U		96		32										
68-F-O26-SS-G-(0-0.25)-(D-4-E)-02072008	20	U		338		8	53	U		238		44										
68-F-O26-SS-G-(0-0.25)-(D-4-W)-02072008	35		9	445		11	60	U		170	U											
68-B-O25-SS-G-(0-0.25)-(D-5)-02072008	58		14	709		18	74	U		255	U		0.13			E	2.5	U	1.508		0.268	
68-B-O25-SS-G-(0-0.25)-(D-5-N)-02072008	**156**		30	2151		42	91	U		328	U											
68-B-O25-SS-G-(0-0.25)-(D-5-S)-02072008	77	U		2409		38	72	U		179	U											
68-B-O25-SS-G-(0-0.25)-(D-5-E)-02072008	66	U		1361		30	83	U		309	U	309										
68-B-O25-SS-G-(0-0.25)-(D-5-W)-02072008	143		29	2541		42	81	U		255		84										
68-E-U9-SS-G-(0-0.25)-(Non-POI 1)-02082008	10	U		125		4	48		13	87		26										
68-B-P26-SS-G-(0-0.25)-(Non-POI 2)-02072008	19		4	248		6	73		13	300		48										
68-F-K28-SS-G-(0-0.25)-(Non-POI 3)-02082008	7	U		90		3	41		12	142		26										
68-E-T14-SS-G-(0-0.25)-(Non-POI 4)-02112008	10	U		145		4	61		12	193		28										
68-E-T4-SS-G-(0-0.25)-(Non-POI 5)-02082008	6	U		28		3	42		13	100		26										
68-B-O26-SS-G-(0-0.25)-(Non-POI 6)-02072008	43	U		749		18	72	U		190	U											
Colgate Park-SS-G-(0-0.25)-(CP-1)-02052008	9	U		28		4	57	U		115	U											
Colgate Park-SS-G-(0-0.25)-(CP-2)-02052008	8	U		22		3	53	U		103	U											

Notes:
E indicates field screening tool exhibited inaccurate reading
U indicates parameter was not detected at or above the detection limit. Result represents the detection limit.
> indicates parameter was detected above the upper bound detection limit. Result represents the upper bound detection limit.
Indicates exceedance of EE/CA Work Plan field screening level which required expanding the sampling area in the cardinal directions.
Indicates exceedance of upper bound risk level.
1. Arsenic, lead, cadmium, and chromium were field screened by a portable XRF. VOCs by a PID, SVOCs by an FID, and PCBs, DDT, and Chlordane by immunoassay.

AR100516

Table 3. Summary of Laboratory Results
68th Street Landfill
Rosedale, Maryland

Parameter	Units	Sample ID Date Location[2] Depth	A-17 2/4/2008† MA-C (I23) 0-0.25	A-40 2/5/2008† MA-D (L21) 0-0.25	A-79-1* 14-Feb-08 MA-E (S13) 0-0.25	A-140 2/6/2008† MA-F (P37) 0-0.25	B-1 2/2/2008† MA-F (E26) 0-0.25	B-36-1 2/4/2008† MA-F (L23) 0-0.25	B-75-1* 12-Feb-08 MA-E (P14) 0-0.25	B-127 7-Feb-08 MA-B (P25) 0-0.25	B-143-1 2/6/2008† MA-B (S27) 0-0.25	C-8-2* 12-Feb-08 MA-F (S14) 0-0.25
Volatile Organic Compounds												
Acetone	µg/kg		ND <31	ND <23	ND <31	41	ND <31	ND <27	ND <22	ND <20	8.5 J	ND <23
Benzene	µg/kg		ND <7.7	ND <5.8	ND <7.7	ND <6.4	ND <7.9	ND <6.7	ND <5.5	ND <5.0	ND <5.5	ND <5.7
Bromodichloromethane	µg/kg		ND <7.7	ND <5.8	ND <7.7	ND <6.4	ND <7.9	ND <6.7	ND <5.5	ND <5.0	ND <5.5	ND <5.7
Bromoform	µg/kg		ND <7.7	ND <5.8	ND <7.7	ND <6.4	ND <7.9	ND <6.7	ND <5.5	ND <5.0	ND <5.5	ND <5.7
2-Butanone	µg/kg		ND <7.7	ND <5.8	ND <7.7	ND <6.4	ND <7.9	ND <6.7	ND <5.5	ND <5.0	ND <5.5	ND <5.7
Carbon Disulfide	µg/kg		ND <7.7	ND <5.8	ND <7.7	ND <6.4	ND <7.9	ND <6.7	ND <5.5	ND <5.0	ND <5.5	ND <5.7
Carbon Tetrachloride	µg/kg		ND <7.7	ND <5.8	ND <7.7	ND <6.4	ND <7.9	ND <6.7	ND <5.5	ND <5.0	ND <5.5	ND <5.7
Chlorobenzene	µg/kg		ND <7.7	ND <5.8	ND <7.7	ND <6.4	ND <7.9	ND <6.7	ND <5.5	ND <5.0	ND <5.5	ND <5.7
Chloroethane	µg/kg		ND <7.7	ND <5.8	ND <7.7	ND <6.4	ND <7.9	ND <6.7	ND <5.5	ND <5.0	ND <5.5	ND <5.7
Cyclohexane	µg/kg		ND <7.7	ND <5.8	ND <7.7	ND <6.4	ND <7.9	ND <6.7	ND <5.5	ND <5.0	ND <5.5	ND <5.7
Dibromochloromethane	µg/kg		ND <7.7	ND <5.8	ND <7.7	ND <6.4	ND <7.9	ND <6.7	ND <5.5	ND <5.0	ND <5.5	ND <5.7
1,2-Dirbomo-3-chloropropane	µg/kg		ND <7.7	ND <5.8	ND <7.7	ND <6.4	ND <7.9	ND <6.7	ND <5.5	ND <5.0	ND <5.5	ND <5.7
1,2-Dibromoethane	µg/kg		ND <7.7	ND <5.8	ND <7.7	ND <6.4	ND <7.9	ND <6.7	ND <5.5	ND <5.0	ND <5.5	ND <5.7
1,2-Dichlorobenzene	µg/kg		ND <7.7	ND <5.8	ND <7.7	ND <6.4	ND <7.9	ND <6.7	ND <5.5	ND <5.0	ND <5.5	ND <5.7
1,3-Dichlorobenzene	µg/kg		ND <7.7	ND <5.8	ND <7.7	ND <6.4	ND <7.9	ND <6.7	ND <5.5	ND <5.0	ND <5.5	ND <5.7
1,4-Dichlorobenzene	µg/kg		ND <7.7	ND <5.8	ND <7.7	ND <6.4	ND <7.9	ND <6.7	ND <5.5	ND <5.0	ND <5.5	ND <5.7
Dichlorodifluoromethane	µg/kg		ND <7.7	ND <5.8	ND <7.7	ND <6.4	ND <7.9	ND <6.7	ND <5.5	ND <5.0	ND <5.5	ND <5.7
1,1-Dichloroethane	µg/kg		ND <7.7	ND <5.8	ND <7.7	ND <6.4	ND <7.9	ND <6.7	ND <5.5	ND <5.0	ND <5.5	ND <5.7
1,2-Dichloroethane	µg/kg		ND <7.7	ND <5.8	ND <7.7	ND <6.4	ND <7.9	ND <6.7	ND <5.5	ND <5.0	ND <5.5	ND <5.7
1,1-Dichloroethene	µg/kg		ND <7.7	ND <5.8	ND <7.7	ND <6.4	ND <7.9	ND <6.7	ND <5.5	ND <5.0	ND <5.5	ND <5.7
cis-1,2,-Dichloroethene	µg/kg		ND <7.7	ND <5.8	ND <7.7	ND <6.4	ND <7.9	ND <6.7	ND <5.5	ND <5.0	ND <5.5	ND <5.7
trans-1,2-Dichloroethene	µg/kg		ND <7.7	ND <5.8	ND <7.7	ND <6.4	ND <7.9	ND <6.7	ND <5.5	ND <5.0	ND <5.5	ND <5.7
1,2-Dichloropropane	µg/kg		ND <7.7	ND <5.8	ND <7.7	ND <6.4	ND <7.9	ND <6.7	ND <5.5	ND <5.0	ND <5.5	ND <5.7
cis-1,3-Dichloropropene	µg/kg		ND <7.7	ND <5.8	ND <7.7	ND <6.4	ND <7.9	ND <6.7	ND <5.5	ND <5.0	ND <5.5	ND <5.7
trans-1,3-Dichloropropene	µg/kg		ND <7.7	ND <5.8	ND <7.7	ND <6.4	ND <7.9	ND <6.7	ND <5.5	ND <5.0	ND <5.5	ND <5.7
Ethylbenzene	µg/kg		ND <7.7	ND <5.8	ND <7.7	ND <6.4	ND <7.9	ND <6.7	ND <5.5	ND <5.0	ND <5.5	ND <5.7
2-Hexanone	µg/kg		ND <7.7	ND <5.8	ND <7.7	ND <6.4	ND <7.9	ND <6.7	ND <5.5	ND <5.0	ND <5.5	ND <5.7
Isopropylbenzne	µg/kg		ND <7.7	ND <5.8	ND <7.7	ND <6.4	ND <7.9	ND <6.7	ND <5.5	ND <5.0	ND <5.5	ND <5.7
Methyl Acetate	µg/kg		ND <7.7	ND <5.8	ND <7.7	ND <6.4	ND <7.9	ND <6.7	ND <5.5	ND <5.0	ND <5.5	ND <5.7
Methylene Chloride	µg/kg		ND <7.7	ND <5.8	2.8 J	2.7 J	ND <7.9	ND <6.7	ND <5.5	ND <5.0	ND <5.5	ND <5.7
Methylcyclohexane	µg/kg		ND <7.7	ND <5.8	ND <7.7	ND <6.4	ND <7.9	ND <6.7	ND <5.5	ND <5.0	ND <5.5	ND <5.7
4-Methyl-2-pentanone	µg/kg		ND <7.7	ND <5.8	ND <7.7	ND <6.4	ND <7.9	ND <6.7	ND <5.5	ND <5.0	ND <5.5	ND <5.7
Methyl tert-Butyl Ether	µg/kg		ND <7.7	ND <5.8	ND <7.7	ND <6.4	ND <7.9	ND <6.7	ND <5.5	ND <5.0	ND <5.5	ND <5.7
Styrene	µg/kg		ND <7.7	ND <5.8	ND <7.7	ND <6.4	ND <7.9	ND <6.7	ND <5.5	ND <5.0	ND <5.5	ND <5.7
1,1,2,2-Tetrachloroethane	µg/kg		ND <7.7	ND <5.8	ND <7.7	ND <6.4	ND <7.9	ND <6.7	ND <5.5	ND <5.0	ND <5.5	ND <5.7
1,2,4-Trichlorobenzene	µg/kg		ND <7.7	ND <5.8	ND <7.7	ND <6.4	ND <7.9	ND <6.7	ND <5.5	ND <5.0	ND <5.5	ND <5.7
Tetrachloroethene	µg/kg		ND <7.7	ND <5.8	ND <7.7	ND <6.4	ND <7.9	ND <6.7	ND <5.5	ND <5.0	ND <5.5	ND <5.7
1,1,1-Trichloroethane	µg/kg		ND <7.7	ND <5.8	ND <7.7	ND <6.4	ND <7.9	ND <6.7	ND <5.5	ND <5.0	ND <5.5	ND <5.7
1,1,2-Trichloroethane	µg/kg		ND <7.7	ND <5.8	ND <7.7	ND <6.4	ND <7.9	ND <6.7	ND <5.5	ND <5.0	ND <5.5	ND <5.7
Trichloroethene	µg/kg		ND <7.7	ND <5.8	ND <7.7	ND <6.4	ND <7.9	ND <6.7	ND <5.5	ND <5.0	ND <5.5	ND <5.7
Trichlorofluoromethane	µg/kg		ND <7.7	ND <5.8	ND <7.7	ND <6.4	ND <7.9	ND <6.7	ND <5.5	ND <5.0	ND <5.5	ND <5.7
1,1,2-Trichloro-1,2,2-Trifluoroethane	µg/kg		ND <7.7	ND <5.8	ND <7.7	ND <6.4	ND <7.9	ND <6.7	ND <5.5	ND <5.0	ND <5.5	ND <5.7
Toluene	µg/kg		ND <7.7	ND <5.8	ND <7.7	ND <6.4	ND <7.9	ND <6.7	ND <5.5	ND <5.0	ND <5.5	ND <5.7
Vinyl Chloride	µg/kg		ND <7.7	ND <5.8	ND <7.7	ND <6.4	ND <7.9	ND <6.7	ND <5.5	ND <5.0	ND <5.5	ND <5.7
Xylenes (Total)	µg/kg		ND <23	ND <17	ND <23	ND <19	ND <24	ND <20	ND <16	ND <15	ND <16	ND <17

Notes:
[1]Environmental Protection Agency Region III RBC Table. October 2007.
[2]Location identifies management area and grid (parantheses).
†Samples analyzed for Volatile Organic Compounds were collected on 14 February 2008 and are based on preliminary data from laboratory.
*Results are based on preliminary data from laboratory.
J: Estimate result. Result less than reporting limit.
J: (Metals Only) Method blank contamination. The aossiciated method blank contains the target analyte at a reportable level.
PG: Percent difference between the original and confirmation analyses is greater than 40%
B: (Metals only) Estimate Result. Results is less than reporting limit.

AR100517

Table 3. Summary of Laboratory Results
68th Street Landfill
Rosedale, Maryland

Parameter	Units	Sample ID Date Location[2] Depth	A-17 2/4/2008† MA-C (I23) 0-0.25	A-40 2/5/2008† MA-D (L21) 0-0.25	A-79-1* 14-Feb-08 MA-E (S13) 0-0.25	A-140 2/6/2008† MA-F (P37) 0-0.25	B-1 2/2/2008† MA-F (E26) 0-0.25	B-36-1 2/4/2008† MA-F (L23) 0-0.25	B-75-1* 12-Feb-08 MA-E (P14) 0-0.25	B-127 7-Feb-08 MA-B (P25) 0-0.25	B-143-1 2/6/2008† MA-B (S27) 0-0.25	C-8-2* 12-Feb-08 MA-F (S14) 0-0.25
Semi-Volatile Organic Compounds												
Acenaphthene	µg/kg		630 J	ND <430	ND <540	ND <450	ND <520	ND <2,100	ND <380	ND <370	ND <460	1,800 J
Acenaphthylene	µg/kg		ND <5,200	160 J	ND <540	ND <450	81 J	340 J	130 J	ND <370	100 J	650 J
Acetophenone	µg/kg		ND <5,200	ND <430	ND <540	ND <450	43 J	ND <2,100	ND <380	370 J	ND <460	ND <4,100
Anthracene	µg/kg		1,400 J	140 J	ND <540	ND <450	96 J	300 J	90 J	ND <370	110 J	3,500 J
Atrazine	µg/kg		ND <5,200	ND <430	ND <540	ND <450	ND <520	ND <2,100	ND <380	ND <370	ND <460	ND <4,100
Benzo (a) anthracene	µg/kg		5,300	260 J	ND <540	74 J	150 J	1,400 J	290 J	ND <370	210 J	9,900
Benzo (a) pyrene	µg/kg		4,200 J	280 J	44 J	80J	200 J	1,300 J	300 J	ND <370	330 J	8,300
Benzo (b) fluoranthene	µg/kg		7,800	410 J	170 J	110 J	260 J	1,700 J	440	130 J	720	11,000
Benzon (ghi) perylene	µg/kg		3,000 J	190 J	180 J	52 J	260 J	1,100 J	290 J	ND <370	270 J	7,100
Benzon (k) fluoranthene	µg/kg		ND <5,200	130 J	56 J	35 J	87 J	580 J	160 J	ND <370	ND <460	4,100
Benzaldehyde	µg/kg		ND <5,200	ND <430	ND <540	230 J	ND <520	ND <2,100	1,900	ND <370	ND <460	ND <4,100
1,1'Biphenyl	µg/kg		ND <5,200	ND <430	ND <540	ND <450	ND <520	ND <2,100	ND <380	240 J	26 J	ND <4,100
bis (2-Chloroethoxy) methane	µg/kg		ND <5,200	ND <430	ND <540	ND <450	ND <520	ND <2,100	ND <380	ND <370	ND <460	ND <4,100
bis (2-Chloroethyl)-ether	µg/kg		ND <5,200	ND <430	ND <540	ND <450	ND <520	ND <2,100	ND <380	ND <370	ND <460	ND <4,100
bis (2-Ethylhexyl) phthalate	µg/kg		5,300	140 J	ND <540	90 J	4,000	21,000	120 J	5,800	130 J	ND <4,100
4-Bromophenyl Phenyl Ether	µg/kg		ND <5,200	ND <430	ND <540	ND <450	ND <520	ND <2,100	ND <380	ND <370	ND <460	ND <4,100
Butyl Benzyl Phthalate	µg/kg		54,000	ND <430	ND <540	120 J	260 J	22,000	74 J	13,000	1,100	ND <4,100
Caprolactam	µg/kg		ND <5,200	ND <430	ND <540	ND <450	ND <520	ND <2,100	74 J	ND <370	ND <460	ND <4,100
Carbazole	µg/kg		1,000 J	38 J	ND <540	ND <450	52 J	85 J	ND <380	ND <370	26 J	1,600 J
4-Chloroaniline	µg/kg		ND <5,200	ND <430	ND <540	ND <450	ND <520	ND <2,100	ND <380	ND <370	ND <460	ND <4,100
4-Chloro-3-Methylphenol	µg/kg		ND <5,200	ND <430	ND <540	ND <450	ND <520	ND <2,100	ND <380	ND <370	ND <460	ND <4,100
2-Chloronaphthalene	µg/kg		ND <5,200	ND <430	ND <540	ND <450	ND <520	ND <2,100	ND <380	ND <370	ND <460	ND <4,100
2-Chlorophenol	µg/kg		ND <5,200	ND <430	ND <540	ND <450	ND <520	ND <2,100	ND <380	ND <370	ND <460	ND <4,100
4-Chlorophenyl Phenyl Ether	µg/kg		ND <5,200	ND <430	ND <540	ND <450	ND <520	ND <2,100	ND <380	ND <370	ND <460	ND <4,100
Chrysene	µg/kg		5,200	270 J	390 J	95 J	200 J	1,400 J	360 J	ND <370	340 J	10,000
Dibens (a,h) Anthracene	µg/kg		770 J	ND <430	ND <540	ND <450	ND <520	270 J	78 J	ND <370	ND <460	1,600 J
Dibenzofuran	µg/kg		300 J	ND <430	ND <540	ND <450	ND <520	ND <2,100	ND <380	ND <370	45 J	710 J
3,3'-Dichlorobenzidine	µg/kg		ND <25,000	ND <2,100	ND <2,600	ND <2,200	ND <2,500	ND <10,000	ND <1,800	ND <1,800	ND <2,200	ND <20,000
2,4-Dichlorophenol	µg/kg		ND <5,200	ND <430	ND <540	ND <450	ND <520	ND <2,100	ND <380	ND <370	ND <460	ND <4,100
Diethyl Phthalate	µg/kg		ND <5,200	ND <430	ND <540	ND <450	ND <520	260 J	ND <380	ND <370	ND <460	ND <4,100
2,4-Dimethylphenol	µg/kg		ND <5,200	ND <430	ND <540	ND <450	ND <520	ND <2,100	ND <380	ND <370	ND <460	ND <4,100
Dimethyl Phthalate	µg/kg		ND <5,200	ND <430	ND <540	ND <450	ND <520	ND <2,100	ND <380	ND <370	ND <460	ND <4,100
Di-n-Butyl Phthalate	µg/kg		ND <5,200	ND <430	ND <540	ND <450	ND <520	350 J	ND <380	210 J	ND <460	ND <4,100
4,6-Dinitro-2-Methylphenol	µg/kg		ND <25,000	ND <2,100	ND <2,600	ND <2,200	ND <2,500	ND <10,000	ND <1,800	ND <1,800	ND <2,200	ND <20,000
2,4-Dinitrophenol	µg/kg		ND <25,000	ND <2,100	ND <2,600	ND <2,200	ND <2,500	ND <10,000	ND <380	ND <1,800	ND <2,200	ND <20,000
2,4-Dinitrotoluene	µg/kg		ND <5,200	ND <430	ND <540	ND <450	ND <520	ND <2,100	ND <380	ND <370	ND <460	ND <4,100
2,6-Dinitrotoluene	µg/kg		ND <5,200	ND <430	ND <540	ND <450	ND <520	ND <2,100	ND <380	ND <370	ND <460	ND <4,100
Di-n-otyl Phthalate	µg/kg		ND <5,200	ND <430	ND <540	ND <450	ND <520	ND <2,100	ND <380	ND <370	ND <460	ND <4,100
Fluoranthene	µg/kg		12,000	280 J	130 J	160 J	300 J	2,000 J	550	150 J	380 J	24,000
Fluorene	µg/kg		400 J	ND <430	ND <540	ND <450	ND <520	ND <2,100	ND <380	ND <370	ND <460	1,400 J
Hexachlorobenzene	µg/kg		ND <5,200	ND <430	ND <540	ND <450	ND <520	ND <2,100	ND <380	ND <370	ND <460	ND <4,100
Hexachlorobutadiene	µg/kg		ND <5,200	ND <430	ND <540	ND <450	ND <520	ND <2,100	ND <380	ND <370	ND <460	ND <4,100
Hexachlorocylcopentadiene	µg/kg		ND <25,000	ND <2,100	ND <2,600	ND <2,200	ND <2,500	ND <10,000	ND <380	ND <1,800	ND <2,200	ND <20,000
Hexachloroethane	µg/kg		ND <5,200	ND <430	ND <540	ND <450	ND <520	ND <2,100	ND <1,800	ND <370	ND <460	ND <4,100
Indeno (1,2,3-cd) Pyrene	µg/kg		2,600 J	180 J	150 J	39 J	140 J	760 J	290 J	ND <370	240 J	6,700
Isophorone	µg/kg		ND <5,200	ND <430	ND <540	ND <450	ND <520	2,500	ND <380	1,500	ND <460	ND <4,100
2-Methylnaphthalene	µg/kg		ND <5,200	ND <430	ND <540	ND <450	58 J	ND <2,100	31 J	3,600	72 J	280 J
2-Methylphenol	µg/kg		ND <5,200	ND <430	ND <540	ND <450	ND <520	ND <2,100	ND <380	ND <370	ND <460	ND <4,100
4-Methylphenol	µg/kg		ND <5,200	ND <430	ND <540	ND <450	ND <520	ND <2,100	ND <380	ND <370	ND <460	ND <4,100
Naphthalene	µg/kg		ND <5,200	ND <430	51 J	ND <450	55 J	ND <2,100	29 J	1,900	79 J	430 J
2-Nitroaniline	µg/kg		ND <25,000	ND <2,100	ND <2,600	ND <2,200	ND <2,500	ND <10,000	ND <1,800	ND <370	ND <2,200	ND <20,000
3-Nitroaniline	µg/kg		ND <25,000	ND <2,100	ND <2,600	ND <2,200	ND <2,500	ND <10,000	ND <1,800	ND <370	ND <2,200	ND <20,000
4-Nitroaniline	µg/kg		ND <25,000	ND <2,100	ND <2,600	ND <2,200	ND <2,500	ND <10,000	ND <1,800	ND <370	ND <2,200	ND <20,000
Nitrobenzene	µg/kg		ND <5,200	ND <430	ND <540	ND <450	ND <520	ND <2,100	ND <380	ND <370	ND <460	ND <4,100

Notes:

[1]Environmental Protection Agency Region III RBC Table. October 2007.

[2]Location identifies management area and grid (parantheses).

†Samples analyzed for Volatile Organic Compounds were collected on 14 February 2008 and are based on preliminary data from laboratory.

*Results are based on preliminary data from laboratory.

J: Estimate result. Result less than reporting limit.

J: (Metals Only) Method blank contamination. The aossiciated method blank contains the target analyte at a reportable level.

PG: Percent difference between the original and confirmation analyses is greater than 40%

B: (Metals only) Estimate Result. Results is less than reporting limit.

AR100518

Table 3. Summary of Laboratory Results
68th Street Landfill
Rosedale, Maryland

Parameter	Units	Sample ID Date Location[2] Depth	A-17 2/4/2008† MA-C (I23) 0-0.25	A-40 2/5/2008† MA-D (L21) 0-0.25	A-79-1* 14-Feb-08 MA-E (S13) 0-0.25	A-140 2/6/2008† MA-F (P37) 0-0.25	B-1 2/2/2008† MA-F (E26) 0-0.25	B-36-1 2/4/2008† MA-F (L23) 0-0.25	B-75-1* 12-Feb-08 MA-E (P14) 0-0.25	B-127 7-Feb-08 MA-B (P25) 0-0.25	B-143-1 2/6/2008† MA-B (S27) 0-0.25	C-8-2* 12-Feb-08 MA-F (S14) 0-0.25
Semi-Volatile Organic Compounds (Cont'd)												
2-Nitrophenol	µg/kg		ND <5,200	ND <430	ND <540	ND <450	ND <520	ND <2,100	ND <380	ND <370	ND <460	ND <4,100
4-Nitrophenol	µg/kg		ND <5,000	ND <2,100	ND <2,600	ND <2,200	ND <2,500	ND <10,000	ND <1,800	ND <1,800	ND <2,200	ND <20,000
N-Nitrosodi-n-Propylamine	µg/kg		ND <5,200	ND <430	ND <540	ND <450	ND <520	ND <2,100	ND <380	ND <370	ND <460	ND <4,100
N-Nitrosodiphenylamine	µg/kg		ND <5,200	ND <430	270 J	ND <450	ND <520	ND <2,100	ND <380	ND <370	ND <460	ND <4,100
2,2'-Oxybis (1-Chloropropane)	µg/kg		ND <5,200	ND <430	ND <540	ND <450	ND <520	ND <2,100	ND <380	ND <370	ND <460	ND <4,100
Pentachlorophenol	µg/kg		ND <5,200	ND <2,100	ND <2,600	ND <2,200	ND <2,500	ND <10,000	ND <1,800	ND <1,800	ND <2,200	ND <20,000
Phenanthrene	µg/kg		6,000	69 J	110 J	66 J	180 J	880 J	220 J	150 J	22 J	12,000
Phenol	µg/kg		ND <5,200	ND <430	ND <540	ND <450	ND <520	ND <2,100	ND <380	ND <370	ND <460	ND <4,100
Pyrene	µg/kg		8,200	250 J	320 J	130 J	250 J	2,200	610	120 J	310 J	20,000
2,4,5-Trichlorophenol	µg/kg		ND <5,200	ND <430	ND <540	ND <450	ND <520	ND <2,100	ND <380	ND <370	ND <460	ND <4,100
2,4,6-Trichlorophenol	µg/kg		ND <5,200	ND <430	ND <540	ND <450	ND <520	ND <2,100	ND <380	ND <370	ND <460	ND <4,100
Pesticides												
4,4'-DDD	µg/kg		ND <53	ND <22	ND <28	ND <23	ND <27	ND <26	ND <9.8	ND <19	ND <24	ND <210
4,4'-DDE	µg/kg		ND <53	ND <22	ND <28	1.4 J, PG	ND <27	ND <26	ND <9.8	0.5 PG	ND <24	ND <210
4,4'-DDT	µg/kg		ND <53	ND <22	ND <28	3.7 PG	ND <27	ND <26	ND <9.8	ND <19	ND <24	140 J
Aldrin	µg/kg		ND <53	ND <22	12 J, PG	0.52 J, PG	3.2 J, PG	ND <26	ND <9.8	ND <19	ND <24	ND <210
alpha-BHC	µg/kg		ND <53	ND <22	ND <28	0.86 J	ND <27	ND <26	ND <9.8	ND <19	ND <24	ND <210
beta-BHC	µg/kg		ND <53	ND <22	ND <28	ND <23	ND <27	ND <26	ND <9.8	ND <19	ND <24	ND <210
delta-BHC	µg/kg		ND <53	ND <22	ND <28	ND <23	11 J	ND <26	1.2 J, PG	ND <19	2.9 J	ND <210
gamma-BHC (Lindane)	µg/kg		ND <53	ND <22	25 J, PG	ND <23	ND <27	2.6 PG	3.0 J	ND <19	7.3 J, PG	ND <210
alpha-Chlordane	µg/kg		43 J, PG	ND <22	ND <28	ND <23	11 J, PG	7.9	ND <9.8	ND <19	ND <24	ND <210
gamma-Chlordane	µg/kg		66 PG	3.9 J, PG	630 PG	3.4	24 J	150 PG	4.3 J, PG	360 PG	38 PG	54 J, PG
Dieldrin	µg/kg		ND <53	ND <22	ND <28	ND <23	6.2 J, PG	ND <26	ND <9.8	220 PG	ND <24	ND <210
Endosulfan I	µg/kg		ND <53	ND <22	71 PG	ND <23	ND <27	ND <26	ND <9.8	ND <19	ND <24	ND <210
Endosulfan II	µg/kg		ND <53	ND <22	ND <28	2.0 J, PG	ND <27	ND <26	ND <9.8	ND <19	ND <24	ND <210
Endosulfan Sulfate	µg/kg		39 J, PG	ND <22	92 PG	0.71 J, PG	ND <27	22 J, PG	8.1 J, PG	160 PG	ND <24	ND <210
Endrin	µg/kg		ND <53	ND <22	ND <28	0.4 J, PG	ND <27	ND <26	ND <9.8	ND <19	ND <24	ND <210
Endrin Aldehyde	µg/kg		ND <53	ND <22	ND <28	ND <23	ND <27	ND <26	ND <9.8	ND <19	ND <24	ND <210
Endrin Ketone	µg/kg		ND <53	ND <22	ND <28	ND <23	ND <27	ND <26	ND <9.8	ND <19	ND <24	ND <210
Heptachlor	µg/kg		ND <53	ND <22	25 J, PG	ND <23	ND <27	ND <26	ND <9.8	ND <19	ND <24	ND <210
Heptachlor Epoxide	µg/kg		16 J,PG	ND <22	260 PG	1.3 J, PG	1.5 J, PG	1.7 J,PG	ND <9.8	ND <19	ND <24	31 J, PG
Methoxychlor	µg/kg		ND <100	ND <42	ND <54	ND <45	ND <51	ND <51	ND <19	ND <37	ND <46	ND <410
Toxaphene	µg/kg		ND <2,100	ND <850	ND <1,100	ND <91	ND <1,000	ND <1,000	ND <390	ND <760	ND <940	ND <8,300
Polychlorinated Byphenyls (PCBs)												
Aroclor 1016	µg/kg		63	ND <42	ND <1,100	ND <45	ND <52	810	ND <38	ND <1,100	ND <46	ND <41
Aroclor 1221	µg/kg		ND <52	ND <42	ND <1,100	ND <45	ND <52	ND <51	ND <38	ND <1,100	ND <46	ND <41
Aroclor 1232	µg/kg		ND <52	ND <42	ND <1,100	ND <45	ND <52	ND <51	ND <38	ND <1,100	ND <46	ND <41
Aroclor 1242	µg/kg		ND <52	ND <42	ND <1,100	ND <45	ND <52	ND <51	ND <38	ND <1,100	ND <46	ND <41
Aroclor 1248	µg/kg		ND <52	ND <42	ND <1,100	6.6 J	140	ND <51	ND <38	ND <1,100	ND <46	81
Aroclor 1254	µg/kg		590	ND <42	35,000	35 J	210	9,300	ND <38	28,000	2,300	ND <41
Aroclor 1260	µg/kg		ND <52	ND <42	ND <1,100	ND <45	ND <52	ND <51	380	ND <1,100	ND <46	100

Notes:

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[2]Location identifies management area and grid (parantheses).

†Samples analyzed for Volatile Organic Compounds were collected on 14 February 2008 and are based on preliminary data from laboratory.

*Results are based on preliminary data from laboratory.

J: Estimate result. Result less than reporting limit.

J: (Metals Only) Method blank contamination. The aossiciated method blank contains the target analyte at a reportable level.

PG: Percent difference between the original and confirmation analyses is greater than 40%

B: (Metals only) Estimate Result. Results is less than reporting limit.

AR100519

Table 3. Summary of Laboratory Results
68th Street Landfill
Rosedale, Maryland

Parameter	Units	Sample ID Date Location[2] Depth	A-17 2/4/2008[†] MA-C (I23) 0-0.25	A-40 2/5/2008[†] MA-D (L21) 0-0.25	A-79-1* 14-Feb-08 MA-E (S13) 0-0.25	A-140 2/6/2008[†] MA-F (P37) 0-0.25	B-1 2/2/2008[†] MA-F (E26) 0-0.25	B-36-1 2/4/2008[†] MA-F (L23) 0-0.25	B-75-1* 12-Feb-08 MA-E (P14) 0-0.25	B-127 7-Feb-08 MA-B (P25) 0-0.25	B-143-1 2/6/2008[†] MA-B (S27) 0-0.25	C-8-2* 12-Feb-08 MA-F (S14) 0-0.25
Total Metals												
Aluminum	mg/kg		6,890 J	3,020 J	5,920	6,440 J	3,360 J	3,870	77,700	5,720 J	6,170 J	15,000
Antimony	mg/kg		6.7	0.49 B	30.9	7.8	12.1	2.1	6.4	0.24 B	6.3	0.86 B
Arsenic	mg/kg		26.4	2.0	15.400	4.1	24.8	19.4	4.5	4.3	5.4	8.1
Barium	mg/kg		1,320 J	46.7 J	111	223 J	478 J	192 J	94.3	41.8 J	321 J	259
Beryllium	mg/kg		5.9	0.26 B	0.36 B	0.4 B	0.4 B	0.43 B	0.89	0.8	0.25 B	0.59
Cadmium	mg/kg		8.6	0.56 B	6.0	2.4	12.4	0.68 B	4.6	1.4	15.6	5.0
Calcium	mg/kg		10,900 J	1690 J	19,400	51,100 J	1,650 J	5,110 J	5,540	2,700 J	8,570 J	6,960
Chromium	mg/kg		184 J	247 J	6,790	108 J	358 J	133 J	154	18.3 J	104 J	78.1
Cobalt	mg/kg		14.7	3.3 B	359	6.1 B	16.3	5.1 B	17.1	6.0	6.3 B	10.3
Copper	mg/kg		690	26.8	4,840	709	251	69.7	1,420	20.4	627	175
Iron	mg/kg		28,100	11,600	270,000	9,370	129,000	24,700	12,200	14,200.0	56,800.0	44,400
Lead	mg/kg		489	69.3	24,200	587	2,460.00	155	325	97.6	2,590.00	1,840
Magnesium	mg/kg		1,690 J	468 B, J	3,880	7,610 J	398 B, J	641 B, J	2,980	1,020 J	1,100 J	2,080
Manganese	mg/kg		543 J	180 J	5,880	460 J	621 J	196 J	597	222 J	513 J	577
Mercury	mg/kg		0.45 J	0.087 J	1.6	0.087 J	0.38 J	1.6 J	0.35	1.7 J	0.22 J	1.3
Nickel	mg/kg		140	19.5	24,900	41.2	67.9	115	98.2	15.2	46.8	37.9
Potassium	mg/kg		668 B	276 B	2,830	567 B	338 B	661 B	771	612	308 B	976
Selenium	mg/kg		ND <0.79	ND <0.65	ND <4.1	0.68	4.3	1.9	3.1	0.42 B	4.2	8.5
Silver	mg/kg		ND <3.9	0.17 B	6.1	0.72	0.57 B	0.41 B	3.2	0.11 B	2.0	1.2
Sodium	mg/kg		ND <786	ND <646	16,800	99.6 B	ND <3,950	24.6 B	ND <578	ND <565	135 B	ND <0.623
Thallium	mg/kg		ND <1.6	ND <1.3	ND <8.2	ND <1.4	ND <7.9	ND <1.6	ND <1.2	ND <1.1	ND <1.4	ND <1.2
Vanadium	mg/kg		25.8	14.6	451	61.4	16.2 B	24.2	65.7	22.7	18.0	34.6
Zinc	mg/kg		3,170 J	191 J	1,100	948 J	936 J	351 J	1,110	122 J	1,160 J	3,570

Notes:

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[†]Samples analyzed for Volatile Organic Compounds were collected on 14 February 2008 and are based on preliminary data from laboratory.

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J: Estimate result. Result less than reporting limit.

J: (Metals Only) Method blank contamination. The aossiciated method blank contains the target analyte at a reportable level.

PG: Percent difference between the original and confirmation analyses is greater than 40%

B: (Metals only) Estimate Result. Results is less than reporting limit.

AR100520

Table 4. Potential Chemical - Specific Standards
Points of Interest – 68th Street Landfill Site
Rosedale, Maryland

Media	Authority	Requirement	Status	Requirement Synopsis
Soil/Sediment	Federal Criteria, Advisories, and Guidance	Toxic Substance Control Act (40 CFR 761)	Applicable	TSCA regulates PCBs at concentrations of 50ppm or greater.
		USEPA Region 3 Human Health Risk – Based Screening Concentrations (RBCs) for Industrial Land Use	To Be Considered	These values are non-promulgated guidance that provides RBCs based on potential adult worker exposure to soil contaminants through incidental ingestion of soil and inhalation of vapors and airborne particles from the soil. Calculated RBCs correspond to a lifetime cancer risk of 1.0×10^{-5} for carcinogens, or a hazard quotient of 1 for noncarcinogens.
		USEPA Soil Screening Levels	To Be Considered	These levels are non-promulgated guidance that represent concentrations in soil that may pose a migration risk to groundwater used as a drinking water source.
		USEPA Ecological Data Quality Levels (EDQLs)	To Be Considered	EDQLs are non-promulgated guidance that provide conservative levels protective of ecological receptors. EDQLs are obtained from the lowest available federal, state, and in some cases, international criteria, or from toxicological data extrapolated for selected ecological receptors. EDQLs are used by RCRA as a media-specific screening comparison to site-specific information. Exceedances of these levels trigger concern and generally warrant further investigation at sites.
Air	State Criteria, Advisories and Guidance	General Emission Standards (COMAR 26.11.06.03)	Relevant and Appropriate	Particulate emission standards must also be met for the disturbance of soil

Table 5
Potential Location-Specific Standards
Points of Interest – 68th Street Landfill Site
Rosedale, Maryland

Authority	Requirement	Status	Requirement Synopsis
Federal Regulatory Requirement	Executive Order 11990: Protection of Wetlands (40 CFR 6, Appendix A)	To Be Considered	Federal agencies are required to minimize the destruction, loss, or degradation of wetlands and to preserve and enhance the natural and beneficial values of wetlands.
	Clean Water Act (CWA), Section 404 (40 CFR 230.10, 33 CFR 320-330)	Relevant and Appropriate	These regulations prohibit discharge of dredged material or other fill material into wetlands without a permit. It provides for the enhancement, restoration, or creation of alternate wetlands. These regulations are administered by the U.S. army Corps of Engineers and are applicable to fill placement into any jurisdictional wetlands at the Site.
	U.S. Army Corps of Engineers Nationwide Permit Program (33 CFR 330)	Relevant and Appropriate	This program prohibits any activity that adversely affects a wetland if a practicable alternative is available that has less effect. A Nationwide Permit (#38) is specifically designed to address environmental remediation activities.
	100-year floodplain management (Executive Order 11988)	To Be Considered	Effects of response actions on the navigable water of the U.S. may need to be addressed
State Criteria, Advisories and Guidance	General Waterway Construction Permit (COMAR 26.17.04.10)	Applicable	Removal actions may involve clearing or grading within a waterway or 100-year floodplain.
	Maryland Wetlands Regulations (Nontidal COMAR 26.23; Tidal COMAR 26.24)	Relevant and Appropriate	May apply to wetlands identified on site for the protection of general ecological concerns.
	Maryland Floodplain Management Program (COMAR 26.17.04)	Relevant and Appropriate	Related to construction activities on the floodplain.

Table 6
Potential Action-Specific Standards
Points of Interest – 68th Street Landfill Site
Rosedale, Maryland

Authority	Requirement	Status	Requirement Synopsis
Federal Regulatory Requirements	RCRA – Prohibitions on Storage of Restricted Wastes (40CFR 268.50)	Applicable	These regulations establish requirements for the storage of hazardous waste restricted from land disposal.
	National Primary and Secondary Ambient Air Quality Standards (40 CFR 50.6, 50.7; 40 CFR 52 Subpart V)	Relevant and Appropriate	Engineering controls are required to reduce emissions associated with excavation and transportation as needed to maintain ambient air quality standards.
	National Pollution Discharge Elimination System (40 CFR 122 – 125)	Relevant and Appropriate	Substantive requirements are relevant and appropriate for on-site storm water discharges associated with industrial activity, including waste disposal areas.
State Regulatory Requirement	Maryland Hazardous Waste Regulations, Pretransportation Requirements (COMAR 26.13.03.05)	Applicable	To the extent that hazardous waste will be stored in containers prior to offsite disposal, this ARAR applies.
	Maryland Hazardous Waste Regulations, Containers (COMAR 26.13.05.09)	Relevant and Appropriate	To the extent that hazardous waste will be stored in containers prior to offsite disposal, this ARAR is relevant and appropriate.
	Maryland Solid Waste Management Regulations (COMAR 26.04.07)	To Be Considered	May apply to solid waste or sludge.
	Maryland Erosion and Sediment Control Regulations (COMAR 26.17.01)	To Be Considered	Soil disturbances may require compliance with erosion and sedimentation control statutes.
	Maryland Stormwater Management Regulations (COMAR 26.17.02)	To Be Considered	Soil disturbances may require compliance with Maryland Stormwater regulations.

Table 6
Potential Action-Specific Standards
Points of Interest – 68th Street Landfill Site
Rosedale, Maryland

Authority	Requirement	Status	Requirement Synopsis
State Regulatory Requirement *(continued)*	Maryland Air Quality Standards (COMAR 26.11.04; Air Resources Protection (COMAR 26.20.23.01)	Relevant and Appropriate	Engineering controls are required to reduce emissions associated with excavation and transportation as needed to maintain ambient air quality standards.

Table 7. Alternative 2 - Opinion of Probable Cost
68th Street Landfill Site
EE/CA Report

Item	Unit	Quantity	Unit Price	Total Estimated Cost
Site Preparation				
Mobilization/Demobilization	LS	1	$15,000	$15,000
Site Preparation/Clearing	LS	1	$5,000	$5,000
Notification Sign	EA	52	$200	$10,400
Soil Removal				
Clear to POI Location	AC	0.9	$10,000	$9,229
Clearing and Grubbing at Location	LS	1	$3,000	$3,000
Surface Soil Excavation and Haul to Staging Area	CY	65	$60	$3,888
Container Removal - Housekeeping (35 drums)	LS	1	$5,000	$5,000
Characterization Sampling of Staged Soils	EA	3	$1,125	$3,375
Transport and Disposal (Non-hazardous)	TON	73	$100	$7,337
Transport and Disposal (Hazardous)	TON	37	$350	$12,839
Structural Fill (Imported and Installed)	CY	65	$40	$2,592
Establish Vegetation	AC	0.9	$10,000	$9,229
Containers w/Liquid or Non-Native Soil Contents				
Characterization Sampling of Drum Contents	EA	20	$1,125	$22,500
Clearing to Drum Locations	LOC	5	$1,000	$5,000
Overpacking and Removal to Staging Area	EA	7	$400	$2,800
Transport and Disposal (Liquids)	EA	3	$300	$900
Transport and Disposal (Solids)	EA	4	$250	$1,000
Site Restoration				
Establish Vegetation	AC	1.0	$4,000	$4,000
			CLOSURE CONSTRUCTION SUBTOTAL:	$123,088
			Engineering & Administration	$15,000
			Construction Management	$20,000
			Contingency @ 20 Percent	$24,618
			TOTAL REMEDIAL ACTION COSTS:	***$182,706***

Notes:

1. All costs include material and labor.
2. Unit prices obtained from RS Means for Building Construction, RS Means for Environmental Remediation, and engineering experience.
3. Engineering & administration includes procurement assistance and certification report.
4. No Post Closure Costs are associated with this alternative. The NTCRA is antecedent to long-term RD/RA.

Table 8. Alternative 3 - Opinion of Probable Cost
68th Street Landfill Site
EE/CA Report

Item	Unit	Quantity	Unit Price	Total Estimated Cost
Site Preparation				
Mobilization/Demobilization	LS	1	$20,000	$20,000
Site Preparation/Clearing	LS	1	$5,000	$5,000
Notification Sign	EA	52	$200	$10,400
Soil Removal				
Clear to POI Location	AC	0.9	$10,000	$9,229
Clearing and Grubbing at Location	LS	1.0	$3,000	$3,000
Surface Soil Excavation and Haul to Staging Area	CY	65	$60	$3,888
Container Removal - Housekeeping (35 drums)	LS	1	$5,000	$5,000
Characterization Sampling of Staged Soils	EA	3	$1,125	$3,375
Transport and Disposal (Non-hazardous)	TON	73	$100	$7,337
Transport and Disposal (Hazardous)	TON	37	$350	$12,839
Structural Fill (Imported and Installed)	CY	65	$40	$2,592
Establish Vegetation	AC	1	$10,000	$9,229
Containers				
Characterization Sampling	EA	20	$1,125	$22,500
Clearing to Drum Locations	LOC	54	$800	$43,200
Removal to Stockpile	LOC	54	$100	$5,400
Overpacking and Removal to Staging Area	EA	7	$400	$2,800
Transport and Disposal (Hazardous, Liquids)	EA	3	$300	$900
Transport and Disposal (Hazardous, Solids)	EA	4	$250	$1,000
Transport and Disposal (Non-hazardous materials)	TON	24	$60	$1,439
Site Restoration				
Establish Vegetation	AC	1.0	$4,000	$4,000
			CLOSURE CONSTRUCTION SUBTOTAL:	$173,127
			Engineering & Administration	$15,000
			Construction Management	$60,000
			Contingency @ 20 Percent	$34,625
			TOTAL REMEDIAL ACTION COSTS:	***$282,752***

Notes:

1. All costs include material and labor.
2. Unit prices obtained from RS Means for Building Construction, RS Means for Environmental Remediation, and engineering experience.
3. Engineering & administration includes procurement assistance and certification report.
4. No Post Closure Costs are associated with this alternative. The NTCRA is antecedent to long-term RD/RA.

Table 9. Alternative 4 - Opinion of Probable Cost
68th Street Landfill Site
EE/CA Report

Item	Unit	Quantity	Unit Price	Total Estimated Cost
Site Preparation				
Mobilization/Demobilization	LS	1	$15,000	$15,000
Site Preparation/Clearing	LS	1	$5,000	$5,000
Notification Sign	EA	52	$200	$10,400
Soil Removal				
Clear to POI Location	AC	0.9	$10,000	$9,229
Clearing and Grubbing at Location	LS	1	$3,000	$3,000
Surface Soil Excavation and Haul to Staging Area	CY	65	$60	$3,888
Container Removal - Housekeeping (35 drums)	LS	1	$5,000	$5,000
Characterization Sampling of Staged Soils	EA	4	$1,125	$4,500
Storage within 20cy Roll-off Containers	EA	10	$3,200	$32,000
Structural Fill (Imported and Installed)	CY	65	$40	$2,592
Establish Vegetation	AC	1	$10,000	$9,229
Containers w/Liquid or Non-Native Soil Contents				
Characterization Sampling of Drum Contents	EA	20	$1,125	$22,500
Clearing to Drum Locations	LOC	5	$1,000	$5,000
Overpacking and Removal to Storage Area	EA	7	$500	$3,500
Site Restoration				
Establish Vegetation	AC	1.0	$4,000	$4,000
			CLOSURE CONSTRUCTION SUBTOTAL:	$134,837
			Engineering & Administration	$15,000
			Construction Management	$20,000
			Contingency @ 20 Percent	$26,967
			TOTAL REMEDIAL ACTION COSTS:	***$196,805***

Notes:

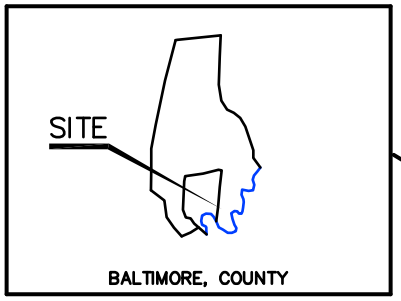
1. All costs include material and labor.
2. Unit prices obtained from RS Means for Building Construction, RS Means for Environmental Remediation, and engineering experience.
3. Engineering & administration includes procurement assistance and certification report.
4. No Post Closure Costs are associated with this alternative. The NTCRA is antecedent to long-term RD/RA.

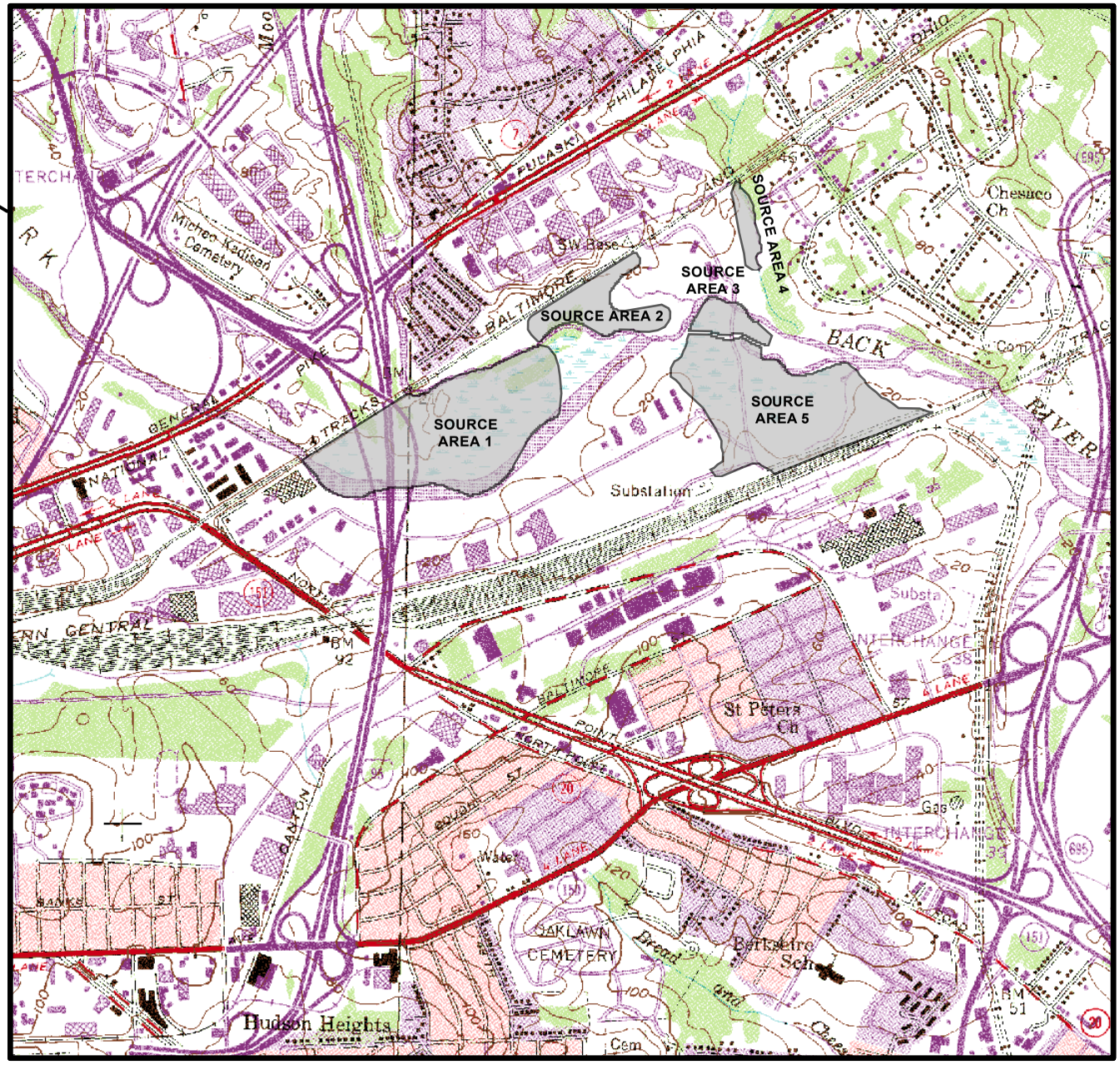
Table 10
Summary of Comparative Analysis of Response Actions
68th Street Landfill Site

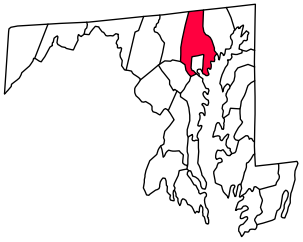
Criterion	Implementability				Effectiveness						Cost	
Aspects	Acceptance	Technical Feasibility	Administrative Feasibility	Availability	Meets Response Objectives	Protective of Human Health and the Environment	Compliance with ARARs	Long-Term Effectiveness and Permanence	Short-Term Effectiveness	Reduction of Mobility, Toxicity and Volume	Present-Worth Cost	Overall Score
Weight	1	1.5	1.5	1	1.5	1.5	0.5	0.5	1.5	0.5	5	
Alternative 1 – No Action	1	5	5	5	1	1	5	1	1	1	5	54
Alternative 2 – Excavation and Haz. Container Removal	5	4	4	4	5	4	5	3	5	3	4	67.5
Alternative 3 – Excavation and Removal of all Containers	5	3	3	3	5	4	5	4	4	3	3	57.5
Alternative 4 – Excavation and Haz. Container Staging	3	3	3	3	4	3	5	3	4	2	4	56.5

Notes:
1. Ratings range from 1 (poor) to 5 (good); Ratings applied are relative subject appraisals of performance.
2. Overall Score = Summation (Rating x Weight)

Figures







ADAPTED FROM USGS
BALTIMORE EAST/1953–PHOTOREVISED/1966/1974

AR 100530

Environmental Resources Management, Inc.
April 14, 2008

N
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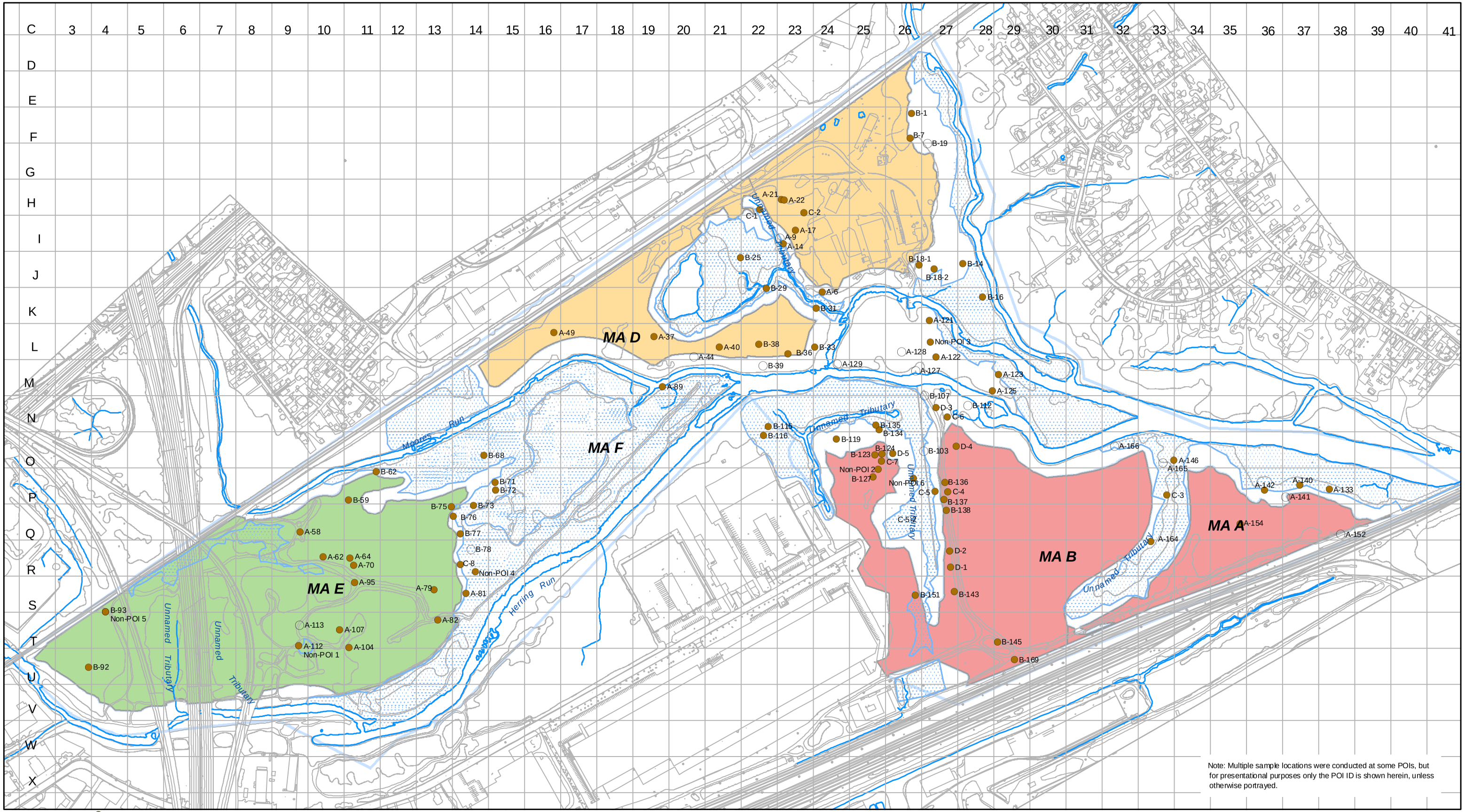
Scale in Feet
1" = 2,000'
0 2000

FIGURE 1
Site Location Map
68th Street Landfill Site
Rosedale, Maryland



AR100531

Environmental Resources Management, Inc.

ERM

April 14, 2008

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Scale in Feet
1" = 500'

500 250 0 500 Feet

Legend

Sampled POI Locations

POI Locations not Sampled

Ap

Developable Area

Non Developable Area

FIGURE 2
EE/CA Work Plan
and Additional Points of Interest
68th Street Landfill Site
Rosedale, Maryland

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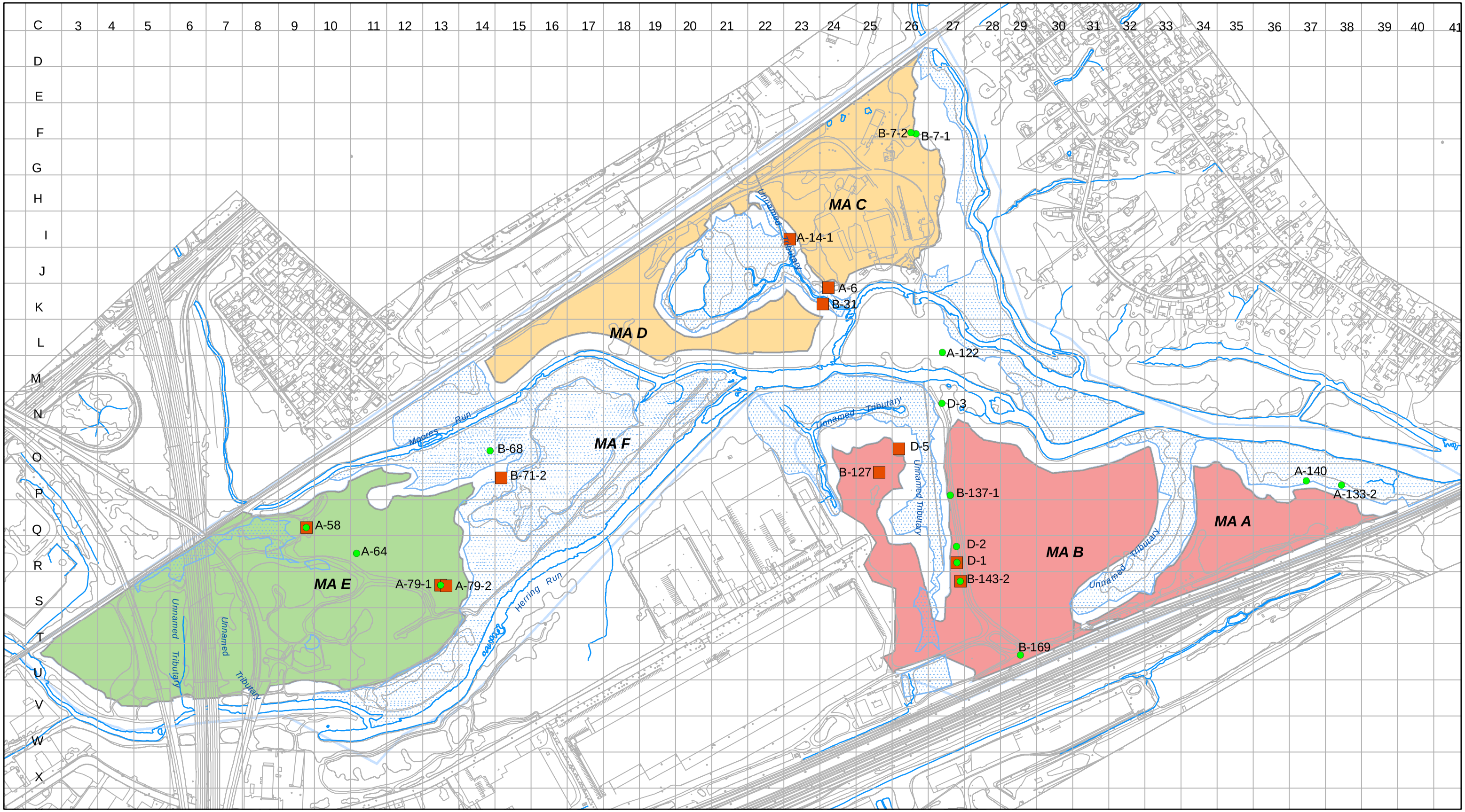

Environmental Resources Management, Inc.

ERM

April 14, 200

AR100532

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Scale in Feet
1" = 500'

500 250 0 500 Feet

Legend

- Excavation Locations
- Container Locations
- USEPA - Defined Source Area

Developable Area

Non Developable Area

FIGURE 3
Alternative 2 Locations with Impacted Soil/Sediment and/or Containers with Liquids/Non-Native Contents
68th Street Landfill Site
Rosedale, Maryland

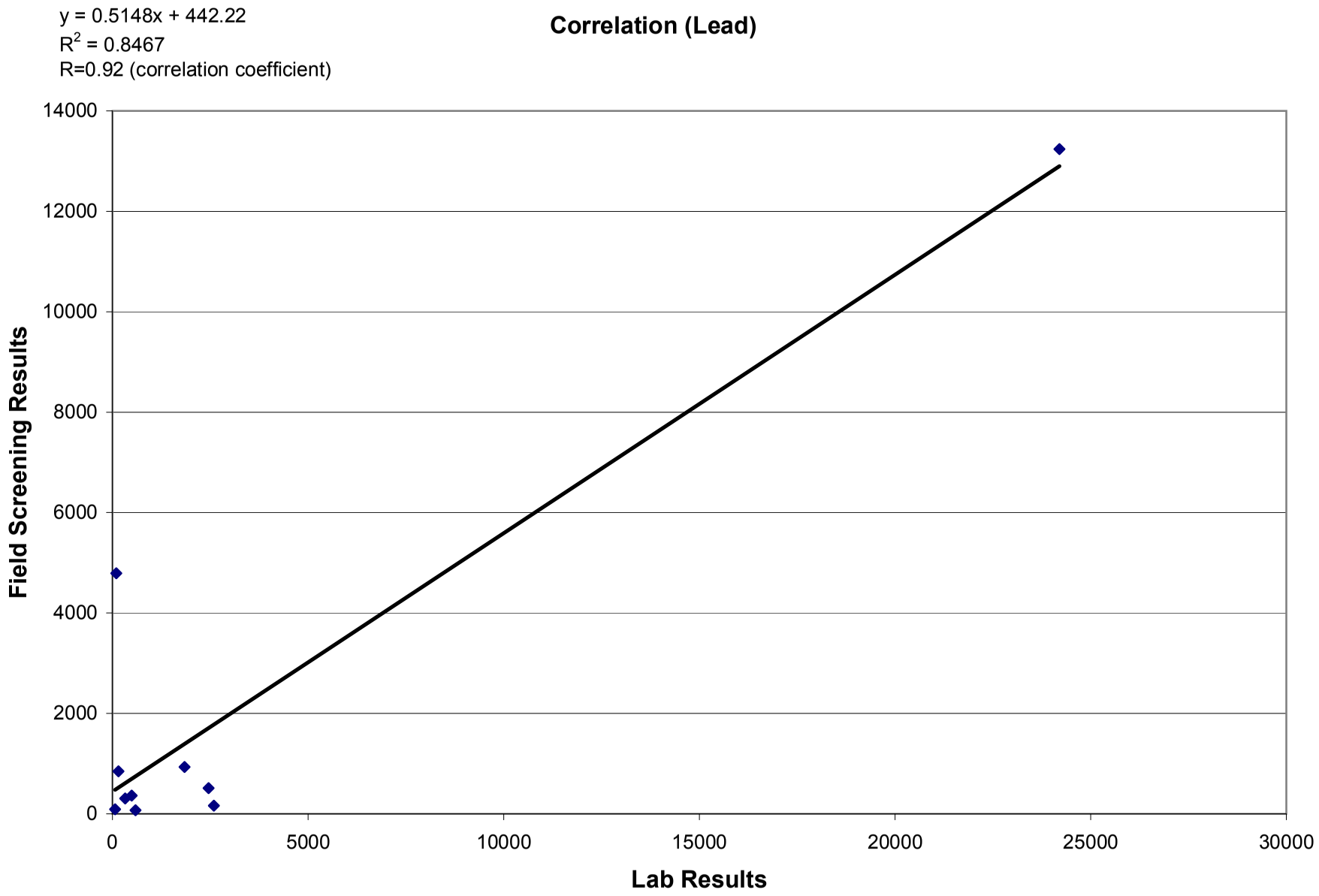
j:/gis/projects/68thstreet/_MXD/EECA/EECA-Figure3.MXD | SML-030708 rev 031008

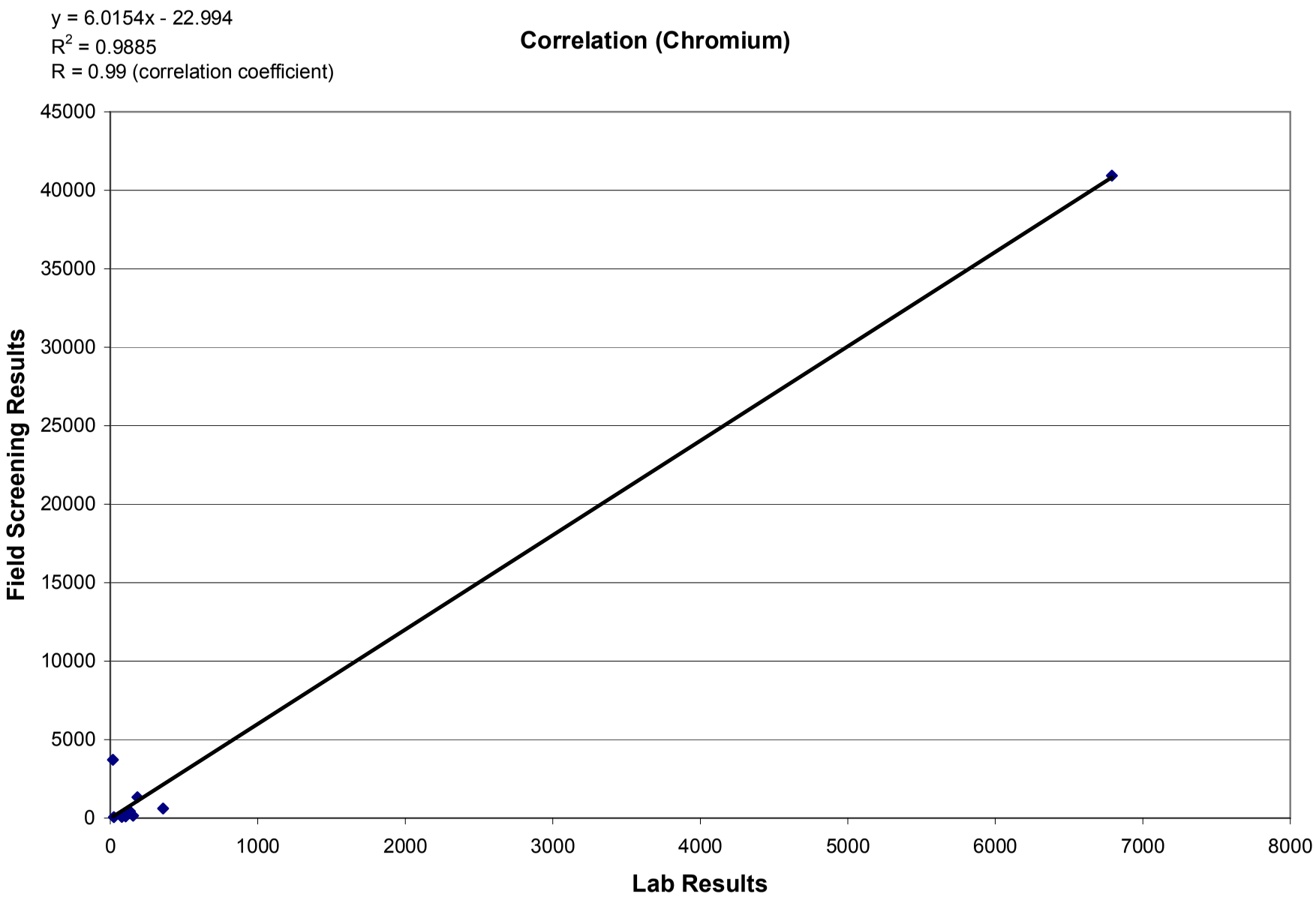
Appendix B
Analytical Calibration Results

Appendix B
Analytical Calibration Results
Comparison between Field Screening and Laboratory Data

Constituent	Points of Interest									
Arsenic	**A-17**	**A-40**	**A-79-1**	**A-140**	**B-1**	**B-36-1**	**B-75-1**	**B-127**	**B-143-1**	**C-8-2**
Field	*<20*	*<7*	*<145*	*<6*	*<30*	*<48*	*<13*	172	28	23
Lab	26.4	2	15.4	4.1	24.8	19.4	4.5	4.3	5.4	8.1
Lead										
Field	363	91	13238	71	511	848	306	4790	163	933
Lab	489	69.3	24200	587	2460	155	325	97.6	2590	1840
Cadmium										
Field	*<54*	34	*<66*	*<34*	*<62*	*<77*	*<34*	85	*<50*	*<36*
Lab	8.6	0.56	6.0	2.4	12.4	0.68	4.6	1.4	15.6	5.0
Chromium										
Field	1331	*<62*	40928	184	611	423	159	3719	104	84
Lab	**184**	**24.7**	6790	**108**	**358**	**133**	154	**18.3**	**104**	78.1
VOCs										
Field	0.38	0.3	0.17	0.2	0.2	0.04	0.24	0.02	2.35	0.22
Lab	*0.031*	*0.023*	**0.0038**	**0.044**	*0.031*	*0.027*	*0.265*	*0.265*	**0.0085**	*0.265*
SVOCs										
Field	1.2	0.64	2.59	0	1	0	0	0.21	-2.54	3.27
Lab	**108**	**2.8**	**1.87**	**1.281**	**7**	**59**	**6.04**	**27**	**4.7**	**125**
PCBs										
Field	*<2.5*	*<2.5*	20.3	*<2.5*	*<2.5*	*<2.5*	*<2.5*	8.4	*<2.5*	*<2.5*
Lab	0.65	*0.42*	35	**0.042**	0.35	10.1	0.38	28	2.3	0.181
DDT										
Field	8.541	2.341	40	0.05	0.669	2.341	2.171	3.647	2.629	3.73
Lab	*0.053*	*0.022*	*0.028*	0.0037	*0.027*	*0.26*	*0.0098*	*0.019*	*0.024*	**0.14**
Chlordane										
Field	0.45	*0*	0.11	*0*	*0*	*0*	0.538	1.795	0.752	0.28
Lab	**0.109**	**0.0039**	0.63	0.0034	**0.035**	0.23	**0.0043**	0.36	0.038	**0.054**

Not Detected (Reporting limit indicated)
J 'Qualifier'
Results in parts per million (ppm)


y = 0.5148x + 442.22
R2 = 0.8467
R=0.92 (correlation coefficient)
Correlation (Lead)
Field Screening Results
Lab Results
0
2000
4000
6000
8000
10000
12000
14000
0
5000
10000
15000
20000
25000
30000


y = 6.0154x - 22.994
R2 = 0.9885
R = 0.99 (correlation coefficient)
Correlation (Chromium)
Field Screening Results
Lab Results
45000
40000
35000
30000
25000
20000
15000
10000
5000
0
0
1000
2000
3000
4000
5000
6000
7000
8000

Appendix C
Laboratory Report

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

ERM/68th Street Landfill

Lot #: C8B090171

Daniel Hoadley

The ERM Group Inc
200 Harry S Truman Pkwy
Suite 400
Annapolis, MD 21401

TESTAMERICA LABORATORIES, INC.

Kathryn L. Bort
Project Manager

February 27, 2008

NELAC REPORTING:

At the time of analysis the laboratory was in compliance with the current NELAC standards and held accreditation for all analyses performed unless noted by a qualifier. The labs accreditation numbers are listed below. The format and contents of the report meets all applicable NELAC standards except as noted in the narrative and shall not be reproduced except in full, without the written approval of the laboratory. The table below presents a summary of the certifications held by TestAmerica Pittsburgh. Our primary accreditation authority for the Non-potable water and Solid & Hazardous waste programs is Pennsylvania DEP. A more detailed parameter list is available upon request. Please ask your project manager for this information when required.

Certifying State/Program	Certificate #	Program Types	TestAmerica
NFESC	NA	NAVY	X
US Dept of Agriculture	(#P330-07-00101)	Foreign Soil Import Permit	X
Arkansas	(#03-022-1)	WW	X
		HW	X
California – NELAC	04224CA	WW	X
		HW	X
Connecticut	(#PH-0688)	WW	X
		HW	X
Florida – NELAC	(#E87660)	WW	X
		HW	X
Illinois – NELAC	(#200005)	WW	X
		HW	X
Kansas – NELAC	(#E-10350)	WW	X
		HW	X
Louisiana – NELAC	(#93200)	WW	X
		HW	X
New Hampshire – NELAC	(#203002)	WW	X
		--	--
New Jersey – NELAC	(PA-005)	WW	X
		HW	X
New York – NELAC	(#11182)	WW	X
		HW	X
North Carolina	(#434)	WW	X
		HW	X
Pennsylvania - NELAC	(#02-00416)	WW	X
		HW	X
South Carolina	(#89014001)	WW	X
		HW	X
Utah – NELAC	(STLP)	WW	X
		HW	X
West Virginia	(#142)	WW	X
		HW	X
Wisconsin	998027800	WW	X
		HW	X

The codes utilized for program types are described below:

HW Hazardous Waste certification
WW Non-potable Water and/or Wastewater certification
X Laboratory has some form of certification under the specific program. Many states certify laboratories for specific parameters or tests within a category. The information in the table indicates the lab is certified in a general category of testing. Please contact the laboratory if parameter specific certification information is required.

Updated: 12/28/07 C:\Documents and Settings\derubeisn\My Documents\NELAC NARRATIVE Pttsburgh.doc

CASE NARRATIVE
ERM INC
68th Street Landfill

Lot # C8B090171

Sample Receiving:
TestAmerica Pittsburgh received samples on February 9, 2008. The coolers were received within the proper temperature range.

The lab received 1 vial labeled 68-A-Z1-SW-G that froze and broke at the lab. There are no results to report for this sample. Daniel Hoadley was notified on February 11, 2008.

The holding time for all the volatiles samples except B-127 had expired prior to receipt of the samples in the lab. Daniel Hoadley was notified on February 11, 2008 and will resample these locations.

If project specific QC was not required for samples contained in this report, and batch QC was completed on these samples, anomalous results are discussed below.

GC/MS Volatiles :
All non-CCC compounds that have >15% RSD were evaluated to see if a better curve could be drawn using a quadratic curve. All compounds <30% RSD will use an average response factor curve if no visible improvement is accomplished using a quadratic curve. A quadratic curve will be used for a compound where it is determined to be the "best-fit" evaluation.

There was insufficient sample volume provided to prepare a project-specific MS/MSD. A duplicate LCS has been prepared to provide accuracy and precision measurement for the samples in this project.

GC/MS Semivolatiles:
All non-CCC compounds that have >15% RSD were evaluated to see if a better curve could be drawn using a quadratic curve. All compounds <30% RSD will use an average response factor curve if no visible improvement is accomplished using a quadratic curve. A quadratic curve will be used for a compound where it is determined to be the "best-fit" evaluation.

The reporting level for sample 68-C-G24-SS-G-(0-2.5)-(A-17)-02042008 is elevated due to required sample dilution. Target compounds were over range and required dilution to bring on scale.

Pesticides:
The samples were analyzed at dilutions due to closing CCV failure. The CCV failed during both analyses most likely due to sample matrix. Based on our SOP the results are reported.

The surrogates were diluted out for several samples due to sample dilution for matrix interferences.

PCBs:
Due to the concentration of target PCBs in samples 68-B-M26-SS-G-(0-2.5)-(B-127)-02072008 and 68-D-J25-SS-G-(0-2.5)-(B-36-1)-02042008, the reporting limits are elevated. Surrogates recoveries were also diluted out.

Metals:
The lead concentration in sample 68-B-P28-SS-G-(0-2.5)-(B-143-1)-02062008 was over the instruments linear range and required dilution.

The zinc concentration in sample 68-C-G24-SS-G-(0-2.5)-(A-17)-02042008 was over the instruments linear range and required dilution. The silver concentration in this sample was less than the negative reporting limit and was also reported from dilution.

The concentrations of iron and lead in sample 68-B-B27-SS-G-(0-2.5)-(B-1)-02052008 were over the instruments linear range and required dilution. Cadmium, chromium, sodium, antimony, selenium, thallium, vanadium, and zinc are reported from a dilution due to interelement corrections associated with iron.

The method blank had analytes detected at concentrations between the MDL and the reporting limit. The results were flagged with a "B" qualifier. Sample results for these analytes are flagged with a "J" qualifier.

General Chemistry:
There were no problems with the analysis.

METHODS SUMMARY

C8B090171

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Mercury in Solid Waste (Manual Cold-Vapor)	SW846 7471A	SW846 7471A
Organochlorine Pesticides	SW846 8081A	SW846 3541
PCBs by SW-846 8082	SW846 8082	SW846 3541
Semivolatile Organic Compounds by GC/MS	SW846 8270C	SW846 3541
Total Residue as Percent Solids	SM20 2540G	
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B	SW846 3050B
Volatile Organics by GC/MS	SW846 8260B	SW846 5035

References:

SM20 "STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER", 20TH EDITION."

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

SAMPLE SUMMARY

C8B090171

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
KGWCN	001	68-A-N38-SS-G(0-2.5)-(A-140)-02062008	02/06/08	10:45
KGWCQ	002	68-B-B27-SS-G-(0-2.5)-(B-1)-02052008	02/05/08	14:20
KGWCW	003	68-B-M26-SS-G-(0-2.5)-(B-127)-02072008	02/07/08	15:25
KGWCX	004	68-D-J22-SS-G-(0-2.5)-(A-40)-02052008	02/05/08	08:45
KGWC1	005	68-B-P28-SS-G-(0-2.5)-(B-143-1)-02062008	02/06/08	14:15
KGWC5	006	68-D-J25-SS-G-(0-2.5)-(B-36-1)-02042008	02/04/08	16:40
KGWC6	007	68-C-G24-SS-G-(0-2.5)-(A-17)-02042008	02/04/08	14:30

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.

C8B090171

Chain of Custody Record

SEVERN TRENT **STL**

Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client	Project Manager	Date	Chain of Custody Number
ERM	Darren Quillen / Dan Hoadley	2/8/08	258420
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 1**
200 Harry S. Truman Pkw St. 400	(410) 266-0006 / (410) 266-8912	C8B090171	

City	State	Zip Code	Site Contact	Lab Contact
Annapolis, MD	MD	21401		

Project Name and Location (State): 68th Street EECA (MD)

Carrier/Waybill Number:

Contract/Purchase Order/Quote No.: 0049608.33.02

Analysis (Attach list if more space is needed): VOCs (8260B), SVOCs (8270C), TAL Metals (6010B), PCBs (8082), Pesticides (8081A)

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	Methanol w/DI	VOCs (8260B)	SVOCs (8270C)	TAL Metals (6010B)	PCBs (8082)	Pesticides (8081A)	Special Instructions/ Conditions of Receipt
A-140	2/6/08	1045				X	1						1*	X	X	X	X	X	
B-1	2/5/08	1420				X	1						1*	X	X	X	X	X	Refer to Table 1
B-127	2/7/08	1525				X	1						1*	X	X	X	X	X	For Reportable
A-40	2/5/08	0845				X	1						1*	X	X	X	X	X	Sample IDs
B-143-1	2/6/08	1415				X	1						1*	X	X	X	X	X	
B-36-1	2/4/08	1640				X	1						1*	X	X	X	X	X	
A-17	2/4/08	1430				X	1						1*	X	X	X	X	X	
68-A-21-SW-G	2/8/08	1610		X															*Part of terra core
																			Set w/ 2-40mL
																			DI water & 1-40mL
																			Methanol

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ 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: Megan Kennedy	2/8/08	1615	1. Received By:	2-8-2008	16:20
2. Relinquished By: M. [illegible]	2-8-2008	17:35	2. Received By:	2/9/8	09:48
3. Relinquished By			3. Received By		

Comments: Sample 68-A-21-SW-G Received 1 vial which froze and broke prior to analysis 2/11/08 KLB
B-127 only analyzed for volatiles due to expired holding times on other samples per D. Hoadley 2/11/08 KLB

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

AR100544

Table 1: Chain of Custody Sample IDs to Reportable Sample IDs C8B090171

Sample ID Chain of Custody	Sample ID Reportable
A-140	68-A-N38-SS-G-(0-2.5)-(A-140)-02062008
B-1	68-B-B27-SS-G-(0-2.5)-(B-1)-02052008
B-127	68-B-M26-SS-G-(0-2.5)-(B-127)-02072008
A-40	68-D-J22-SS-G-(0-2.5)-(A-40)-02052008
B-143-1	68-B-P28-SS-G-(0-2.5)-(B-143-1)-02062008
B-36-1	68-D-J25-SS-G-(0-2.5)-(B-36-1)-02042008
A-17	68-C-G24-SS-G-(0-2.5)-(A-17)-02042008

ERM Group Inc, The

Client Sample ID: 68-A-N38-SS-G(0-2.5)-(A-140)-02062008

GC/MS Semivolatiles

Lot-Sample #...:	C8B090171-001	**Work Order #...:**	KGWCN1AD	**Matrix.....:**	SOLID
Date Sampled...:	02/06/08	**Date Received..:**	02/09/08	**MS Run #.....:**	8043005
Prep Date.....:	02/12/08	**Analysis Date..:**	02/13/08		
Prep Batch #...:	8043013	**Analysis Time..:**	02:34		
Dilution Factor:	1				
% Moisture.....:	26	**Method.....:**	SW846 8270C		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acenaphthene	ND	450	ug/kg
Acenaphthylene	ND	450	ug/kg
Acetophenone	ND	450	ug/kg
Anthracene	ND	450	ug/kg
Atrazine	ND	450	ug/kg
Benzo(a)anthracene	**74 J**	**450**	**ug/kg**
Benzo(a)pyrene	**80 J**	**450**	**ug/kg**
Benzo(b)fluoranthene	**110 J**	**450**	**ug/kg**
Benzo(ghi)perylene	**52 J**	**450**	**ug/kg**
Benzo(k)fluoranthene	**35 J**	**450**	**ug/kg**
Benzaldehyde	**230 J**	**450**	**ug/kg**
1,1'-Biphenyl	ND	450	ug/kg
bis(2-Chloroethoxy) methane	ND	450	ug/kg
bis(2-Chloroethyl)-ether	ND	450	ug/kg
bis(2-Ethylhexyl) phthalate	**90 J**	**450**	**ug/kg**
4-Bromophenyl phenyl ether	ND	450	ug/kg
Butyl benzyl phthalate	**120 J**	**450**	**ug/kg**
Caprolactam	ND	450	ug/kg
Carbazole	ND	450	ug/kg
4-Chloroaniline	ND	450	ug/kg
4-Chloro-3-methylphenol	ND	450	ug/kg
2-Chloronaphthalene	ND	450	ug/kg
2-Chlorophenol	ND	450	ug/kg
4-Chlorophenyl phenyl ether	ND	450	ug/kg
Chrysene	**95 J**	**450**	**ug/kg**
Dibenz(a,h)anthracene	ND	450	ug/kg
Dibenzofuran	ND	450	ug/kg
3,3'-Dichlorobenzidine	ND	2200	ug/kg
2,4-Dichlorophenol	ND	450	ug/kg
Diethyl phthalate	ND	450	ug/kg
2,4-Dimethylphenol	ND	450	ug/kg
Dimethyl phthalate	ND	450	ug/kg
Di-n-butyl phthalate	ND	450	ug/kg

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ERM Group Inc, The

Client Sample ID: 68-A-N38-SS-G(0-2.5)-(A-140)-02062008

GC/MS Semivolatiles

Lot-Sample #...: C8B090171-001 **Work Order #...:** KGWCN1AD **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4,6-Dinitro-2-methylphenol	ND	2200	ug/kg
2,4-Dinitrophenol	ND	2200	ug/kg
2,4-Dinitrotoluene	ND	450	ug/kg
2,6-Dinitrotoluene	ND	450	ug/kg
Di-n-octyl phthalate	ND	450	ug/kg
Fluoranthene	**160 J**	**450**	**ug/kg**
Fluorene	ND	450	ug/kg
Hexachlorobenzene	ND	450	ug/kg
Hexachlorobutadiene	ND	450	ug/kg
Hexachlorocyclopentadiene	ND	2200	ug/kg
Hexachloroethane	ND	450	ug/kg
Indeno(1,2,3-cd)pyrene	**39 J**	**450**	**ug/kg**
Isophorone	ND	450	ug/kg
2-Methylnaphthalene	ND	450	ug/kg
2-Methylphenol	ND	450	ug/kg
4-Methylphenol	ND	450	ug/kg
Naphthalene	ND	450	ug/kg
2-Nitroaniline	ND	2200	ug/kg
3-Nitroaniline	ND	2200	ug/kg
4-Nitroaniline	ND	2200	ug/kg
Nitrobenzene	ND	450	ug/kg
2-Nitrophenol	ND	450	ug/kg
4-Nitrophenol	ND	2200	ug/kg
N-Nitrosodi-n-propylamine	ND	450	ug/kg
N-Nitrosodiphenylamine	ND	450	ug/kg
2,2'-oxybis(1-Chloropropane)	ND	450	ug/kg
Pentachlorophenol	ND	2200	ug/kg
Phenanthrene	**66 J**	**450**	**ug/kg**
Phenol	ND	450	ug/kg
Pyrene	**130 J**	**450**	**ug/kg**
2,4,5-Trichlorophenol	ND	450	ug/kg
2,4,6-Trichlorophenol	ND	450	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4,6-Tribromophenol	77	(10 - 117)
2-Fluorobiphenyl	69	(20 - 109)
2-Fluorophenol	64	(10 - 113)
Nitrobenzene-d5	66	(18 - 106)
Phenol-d5	67	(18 - 113)
Terphenyl-d14	69	(10 - 138)

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ERM Group Inc, The

Client Sample ID: 68-A-N38-SS-G(0-2.5)-(A-140)-02062008

GC/MS Semivolatiles

Lot-Sample #...: C8B090171-001 Work Order #...: KGWCN1AD Matrix.....: SOLID

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

ERM Group Inc, The

Client Sample ID: 68-A-N38-SS-G(0-2.5)-(A-140)-02062008

GC Semivolatiles

Lot-Sample #...:	C8B090171-001	**Work Order #...:**	KGWCN1AE	**Matrix.....:**	SOLID
Date Sampled...:	02/06/08	**Date Received..:**	02/09/08	**MS Run #.....:**	8043002
Prep Date.....:	02/12/08	**Analysis Date..:**	02/16/08		
Prep Batch #...:	8043010	**Analysis Time..:**	10:38		
Dilution Factor:	1				
% Moisture.....:	26	**Method.....:**	SW846 8081A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
alpha-BHC	**0.86 J**	**2.3**	**ug/kg**
beta-BHC	ND	2.3	ug/kg
delta-BHC	ND	2.3	ug/kg
gamma-BHC (Lindane)	ND	2.3	ug/kg
Heptachlor	ND	2.3	ug/kg
Aldrin	**0.52 J,PG**	**2.3**	**ug/kg**
Heptachlor epoxide	**1.3 J,PG**	**2.3**	**ug/kg**
Endosulfan I	ND	2.3	ug/kg
Dieldrin	ND	2.3	ug/kg
4,4'-DDE	**1.4 J,PG**	**2.3**	**ug/kg**
Endrin	**0.40 J,PG**	**2.3**	**ug/kg**
Endrin ketone	ND	2.3	ug/kg
Endrin aldehyde	ND	2.3	ug/kg
Endosulfan II	**2.0 J,PG**	**2.3**	**ug/kg**
4,4'-DDD	ND	2.3	ug/kg
Endosulfan sulfate	**0.71 J,PG**	**2.3**	**ug/kg**
4,4'-DDT	**3.7 PG**	**2.3**	**ug/kg**
Methoxychlor	ND	4.5	ug/kg
alpha-Chlordane	ND	2.3	ug/kg
gamma-Chlordane	**3.4**	**2.3**	**ug/kg**
Toxaphene	ND	91	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	80	(31 - 131)
Decachlorobiphenyl	85	(18 - 145)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

PG The percent difference between the original and confirmation analyses is greater than 40%.

ERM Group Inc, The

Client Sample ID: 68-A-N38-SS-G(0-2.5)-(A-140)-02062008

GC Semivolatiles

Lot-Sample #...:	C8B090171-001	**Work Order #...:**	KGWCN1AF	**Matrix.....:**	SOLID
Date Sampled...:	02/06/08	**Date Received..:**	02/09/08	**MS Run #.....:**	8043003
Prep Date.....:	02/12/08	**Analysis Date..:**	02/13/08		
Prep Batch #...:	8043011	**Analysis Time..:**	15:43		
Dilution Factor:	1				
% Moisture.....:	26	**Method.....:**	SW846 8082		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	45	ug/kg
Aroclor 1221	ND	45	ug/kg
Aroclor 1232	ND	45	ug/kg
Aroclor 1242	ND	45	ug/kg
Aroclor 1248	**6.6 J**	**45**	**ug/kg**
Aroclor 1254	**35 J**	**45**	**ug/kg**
Aroclor 1260	ND	45	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	88	(31 - 127)
Decachlorobiphenyl	92	(23 - 141)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

ERM Group Inc, The

Client Sample ID: 68-A-N38-SS-G(0-2.5)-(A-140)-02062008

TOTAL Metals

Lot-Sample #...: C8B090171-001
Date Sampled...: 02/06/08 Date Received..: 02/09/08
% Moisture.....: 26
Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8044242						
Mercury	0.087 J	0.045	mg/kg	SW846 7471A	02/13/08	KGWCN1A7
		Dilution Factor: 1		Analysis Time..: 16:42	MS Run #.....: 8044148	
Prep Batch #...: 8044357						
Silver	0.72	0.68	mg/kg	SW846 6010B	02/13-02/22/08	KGWCN1AG
		Dilution Factor: 1		Analysis Time..: 15:58	MS Run #.....: 8044208	
Aluminum	6440 J	27.2	mg/kg	SW846 6010B	02/13-02/22/08	KGWCN1AH
		Dilution Factor: 1		Analysis Time..: 15:58	MS Run #.....: 8044208	
Arsenic	4.1	1.4	mg/kg	SW846 6010B	02/13-02/22/08	KGWCN1AJ
		Dilution Factor: 1		Analysis Time..: 15:58	MS Run #.....: 8044208	
Barium	223 J	27.2	mg/kg	SW846 6010B	02/13-02/22/08	KGWCN1AK
		Dilution Factor: 1		Analysis Time..: 15:58	MS Run #.....: 8044208	
Beryllium	0.40 B	0.54	mg/kg	SW846 6010B	02/13-02/22/08	KGWCN1AL
		Dilution Factor: 1		Analysis Time..: 15:58	MS Run #.....: 8044208	
Calcium	51100 J	680	mg/kg	SW846 6010B	02/13-02/22/08	KGWCN1AM
		Dilution Factor: 1		Analysis Time..: 15:58	MS Run #.....: 8044208	
Cadmium	2.4	0.68	mg/kg	SW846 6010B	02/13-02/22/08	KGWCN1AN
		Dilution Factor: 1		Analysis Time..: 15:58	MS Run #.....: 8044208	
Cobalt	6.1 B	6.8	mg/kg	SW846 6010B	02/13-02/22/08	KGWCN1AP
		Dilution Factor: 1		Analysis Time..: 15:58	MS Run #.....: 8044208	
Chromium	108 J	0.68	mg/kg	SW846 6010B	02/13-02/22/08	KGWCN1AQ
		Dilution Factor: 1		Analysis Time..: 15:58	MS Run #.....: 8044208	
Copper	709	3.4	mg/kg	SW846 6010B	02/13-02/22/08	KGWCN1AR
		Dilution Factor: 1		Analysis Time..: 15:58	MS Run #.....: 8044208	
Iron	9370	13.6	mg/kg	SW846 6010B	02/13-02/22/08	KGWCN1AT
		Dilution Factor: 1		Analysis Time..: 15:58	MS Run #.....: 8044208	

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ERM Group Inc, The

Client Sample ID: 68-A-N38-SS-G(0-2.5)-(A-140)-02062008

TOTAL Metals

Lot-Sample #...: C8B090171-001 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Potassium	567 B	680	mg/kg	SW846 6010B	02/13-02/22/08	KGWCN1AU
		Dilution Factor: 1		Analysis Time..: 15:58	MS Run #.....: 8044208	
Magnesium	7610 J	680	mg/kg	SW846 6010B	02/13-02/22/08	KGWCN1AV
		Dilution Factor: 1		Analysis Time..: 15:58	MS Run #.....: 8044208	
Manganese	460 J	2.0	mg/kg	SW846 6010B	02/13-02/22/08	KGWCN1AW
		Dilution Factor: 1		Analysis Time..: 15:58	MS Run #.....: 8044208	
Sodium	99.6 B	680	mg/kg	SW846 6010B	02/13-02/22/08	KGWCN1AX
		Dilution Factor: 1		Analysis Time..: 15:58	MS Run #.....: 8044208	
Nickel	41.2	5.4	mg/kg	SW846 6010B	02/13-02/22/08	KGWCN1A0
		Dilution Factor: 1		Analysis Time..: 15:58	MS Run #.....: 8044208	
Lead	587	0.41	mg/kg	SW846 6010B	02/13-02/22/08	KGWCN1A1
		Dilution Factor: 1		Analysis Time..: 15:58	MS Run #.....: 8044208	
Selenium	0.68	0.68	mg/kg	SW846 6010B	02/13-02/22/08	KGWCN1A2
		Dilution Factor: 1		Analysis Time..: 15:58	MS Run #.....: 8044208	
Thallium	ND	1.4	mg/kg	SW846 6010B	02/13-02/22/08	KGWCN1A3
		Dilution Factor: 1		Analysis Time..: 15:58	MS Run #.....: 8044208	
Antimony	7.8	1.4	mg/kg	SW846 6010B	02/13-02/22/08	KGWCN1A4
		Dilution Factor: 1		Analysis Time..: 15:58	MS Run #.....: 8044208	
Vanadium	61.4	6.8	mg/kg	SW846 6010B	02/13-02/22/08	KGWCN1A5
		Dilution Factor: 1		Analysis Time..: 15:58	MS Run #.....: 8044208	
Zinc	948 J	2.7	mg/kg	SW846 6010B	02/13-02/22/08	KGWCN1A6
		Dilution Factor: 1		Analysis Time..: 15:58	MS Run #.....: 8044208	

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

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

B Estimated result. Result is less than RL.

ERM Group Inc, The

Client Sample ID: 68-A-N38-SS-G(0-2.5)-(A-140)-02062008

General Chemistry

Lot-Sample #...: C8B090171-001 **Work Order #...:** KGWCN **Matrix.....:** SOLID
Date Sampled...: 02/06/08 **Date Received..:** 02/09/08
% Moisture.....: 26

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**73.5**	**1.0**	**%**	**SM20 2540G**	**02/11-02/12/08**	**8042188**

Dilution Factor: 1 Analysis Time..: 00:00 MS Run #.....: 8042113

ERM Group Inc, The

Client Sample ID: 68-B-B27-SS-G-(0-2.5)-(B-1)-02052008

GC/MS Semivolatiles

Lot-Sample #...:	C8B090171-002	**Work Order #...:**	KGWCQ1AM	**Matrix.....:**	SOLID
Date Sampled...:	02/05/08	**Date Received..:**	02/09/08	**MS Run #.....:**	8043005
Prep Date.....:	02/12/08	**Analysis Date..:**	02/13/08		
Prep Batch #...:	8043013	**Analysis Time..:**	04:29		
Dilution Factor:	0.99				
% Moisture.....:	37	**Method.....:**	SW846 8270C		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acenaphthene	ND	520	ug/kg
Acenaphthylene	**81 J**	**520**	**ug/kg**
Acetophenone	**43 J**	**520**	**ug/kg**
Anthracene	**96 J**	**520**	**ug/kg**
Atrazine	ND	520	ug/kg
Benzo(a)anthracene	**150 J**	**520**	**ug/kg**
Benzo(a)pyrene	**200 J**	**520**	**ug/kg**
Benzo(b)fluoranthene	**260 J**	**520**	**ug/kg**
Benzo(ghi)perylene	**260 J**	**520**	**ug/kg**
Benzo(k)fluoranthene	**87 J**	**520**	**ug/kg**
Benzaldehyde	ND	520	ug/kg
1,1'-Biphenyl	ND	520	ug/kg
bis(2-Chloroethoxy) methane	ND	520	ug/kg
bis(2-Chloroethyl)-ether	ND	520	ug/kg
bis(2-Ethylhexyl) phthalate	**4000**	**520**	**ug/kg**
4-Bromophenyl phenyl ether	ND	520	ug/kg
Butyl benzyl phthalate	**260 J**	**520**	**ug/kg**
Caprolactam	ND	520	ug/kg
Carbazole	**52 J**	**520**	**ug/kg**
4-Chloroaniline	ND	520	ug/kg
4-Chloro-3-methylphenol	ND	520	ug/kg
2-Chloronaphthalene	ND	520	ug/kg
2-Chlorophenol	ND	520	ug/kg
4-Chlorophenyl phenyl ether	ND	520	ug/kg
Chrysene	**200 J**	**520**	**ug/kg**
Dibenz(a,h)anthracene	ND	520	ug/kg
Dibenzofuran	ND	520	ug/kg
3,3'-Dichlorobenzidine	ND	2500	ug/kg
2,4-Dichlorophenol	ND	520	ug/kg
Diethyl phthalate	ND	520	ug/kg
2,4-Dimethylphenol	ND	520	ug/kg
Dimethyl phthalate	ND	520	ug/kg
Di-n-butyl phthalate	ND	520	ug/kg

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ERM Group Inc, The

Client Sample ID: 68-B-B27-SS-G-(0-2.5)-(B-1)-02052008

GC/MS Semivolatiles

Lot-Sample #...: C8B090171-002 **Work Order #...:** KGWCQ1AM **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4,6-Dinitro-2-methylphenol	ND	2500	ug/kg
2,4-Dinitrophenol	ND	2500	ug/kg
2,4-Dinitrotoluene	ND	520	ug/kg
2,6-Dinitrotoluene	ND	520	ug/kg
Di-n-octyl phthalate	ND	520	ug/kg
Fluoranthene	**300 J**	**520**	**ug/kg**
Fluorene	ND	520	ug/kg
Hexachlorobenzene	ND	520	ug/kg
Hexachlorobutadiene	ND	520	ug/kg
Hexachlorocyclopentadiene	ND	2500	ug/kg
Hexachloroethane	ND	520	ug/kg
Indeno(1,2,3-cd)pyrene	**140 J**	**520**	**ug/kg**
Isophorone	ND	520	ug/kg
2-Methylnaphthalene	**58 J**	**520**	**ug/kg**
2-Methylphenol	ND	520	ug/kg
4-Methylphenol	ND	520	ug/kg
Naphthalene	**55 J**	**520**	**ug/kg**
2-Nitroaniline	ND	2500	ug/kg
3-Nitroaniline	ND	2500	ug/kg
4-Nitroaniline	ND	2500	ug/kg
Nitrobenzene	ND	520	ug/kg
2-Nitrophenol	ND	520	ug/kg
4-Nitrophenol	ND	2500	ug/kg
N-Nitrosodi-n-propylamine	ND	520	ug/kg
N-Nitrosodiphenylamine	ND	520	ug/kg
2,2'-oxybis(1-Chloropropane)	ND	520	ug/kg
Pentachlorophenol	ND	2500	ug/kg
Phenanthrene	**180 J**	**520**	**ug/kg**
Phenol	ND	520	ug/kg
Pyrene	**250 J**	**520**	**ug/kg**
2,4,5-Trichlorophenol	ND	520	ug/kg
2,4,6-Trichlorophenol	ND	520	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4,6-Tribromophenol	64	(10 - 117)
2-Fluorobiphenyl	59	(20 - 109)
2-Fluorophenol	52	(10 - 113)
Nitrobenzene-d5	57	(18 - 106)
Phenol-d5	56	(18 - 113)
Terphenyl-d14	61	(10 - 138)

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ERM Group Inc, The

Client Sample ID: 68-B-B27-SS-G-(0-2.5)-(B-1)-02052008

GC/MS Semivolatiles

Lot-Sample #...: C8B090171-002 Work Order #...: KGWCQ1AM Matrix.....: SOLID

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

ERM Group Inc, The

Client Sample ID: 68-B-B27-SS-G-(0-2.5)-(B-1)-02052008

GC Semivolatiles

Lot-Sample #...:	C8B090171-002	**Work Order #...:**	KGWCQ1AN	**Matrix.....:**	SOLID
Date Sampled...:	02/05/08	**Date Received..:**	02/09/08	**MS Run #.....:**	8043002
Prep Date.....:	02/12/08	**Analysis Date..:**	02/16/08		
Prep Batch #...:	8043010	**Analysis Time..:**	11:14		
Dilution Factor:	9.87				
% Moisture.....:	37	**Method.....:**	SW846 8081A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
alpha-BHC	ND	27	ug/kg
beta-BHC	ND	27	ug/kg
delta-BHC	**11 J**	**27**	**ug/kg**
gamma-BHC (Lindane)	ND	27	ug/kg
Heptachlor	ND	27	ug/kg
Aldrin	**3.2 J,PG**	**27**	**ug/kg**
Heptachlor epoxide	**15 J,PG**	**27**	**ug/kg**
Endosulfan I	ND	27	ug/kg
Dieldrin	**6.2 J,PG**	**27**	**ug/kg**
4,4'-DDE	ND	27	ug/kg
Endrin	ND	27	ug/kg
Endrin ketone	ND	27	ug/kg
Endrin aldehyde	ND	27	ug/kg
Endosulfan II	ND	27	ug/kg
4,4'-DDD	ND	27	ug/kg
Endosulfan sulfate	ND	27	ug/kg
4,4'-DDT	ND	27	ug/kg
Methoxychlor	ND	51	ug/kg
alpha-Chlordane	**11 J,PG**	**27**	**ug/kg**
gamma-Chlordane	**24 J**	**27**	**ug/kg**
Toxaphene	ND	1000	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	NC,DIL	(31 - 131)
Decachlorobiphenyl	NC,DIL	(18 - 145)

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.

J Estimated result. Result is less than RL.

PG The percent difference between the original and confirmation analyses is greater than 40%.

ERM Group Inc, The

Client Sample ID: 68-B-B27-SS-G-(0-2.5)-(B-1)-02052008

GC Semivolatiles

Lot-Sample #...:	C8B090171-002	**Work Order #...:**	KGWCQ1AP	**Matrix.....:**	SOLID
Date Sampled...:	02/05/08	**Date Received..:**	02/09/08	**MS Run #.....:**	8043003
Prep Date.....:	02/12/08	**Analysis Date..:**	02/13/08		
Prep Batch #...:	8043011	**Analysis Time..:**	16:03		
Dilution Factor:	0.99				
% Moisture.....:	37	**Method.....:**	SW846 8082		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	52	ug/kg
Aroclor 1221	ND	52	ug/kg
Aroclor 1232	ND	52	ug/kg
Aroclor 1242	ND	52	ug/kg
Aroclor 1248	**140**	**52**	**ug/kg**
Aroclor 1254	**210**	**52**	**ug/kg**
Aroclor 1260	ND	52	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	86	(31 - 127)
Decachlorobiphenyl	92	(23 - 141)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

ERM Group Inc, The

Client Sample ID: 68-B-B27-SS-G-(0-2.5)-(B-1)-02052008

TOTAL Metals

Lot-Sample #...: C8B090171-002
Date Sampled...: 02/05/08 Date Received..: 02/09/08
% Moisture.....: 37
Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8044242						
Mercury	0.38 J	0.052	mg/kg	SW846 7471A	02/13/08	KGWCQ1AJ
		Dilution Factor: 1		Analysis Time..: 16:47	MS Run #.....: 8044148	
Prep Batch #...: 8044357						
Silver	0.57 B	0.79	mg/kg	SW846 6010B	02/13-02/22/08	KGWCQ1AQ
		Dilution Factor: 1		Analysis Time..: 16:03	MS Run #.....: 8044208	
Aluminum	3360 J	31.6	mg/kg	SW846 6010B	02/13-02/22/08	KGWCQ1AR
		Dilution Factor: 1		Analysis Time..: 16:03	MS Run #.....: 8044208	
Arsenic	24.8	1.6	mg/kg	SW846 6010B	02/13-02/22/08	KGWCQ1AT
		Dilution Factor: 1		Analysis Time..: 16:03	MS Run #.....: 8044208	
Barium	478 J	31.6	mg/kg	SW846 6010B	02/13-02/22/08	KGWCQ1AU
		Dilution Factor: 1		Analysis Time..: 16:03	MS Run #.....: 8044208	
Beryllium	0.40 B	0.63	mg/kg	SW846 6010B	02/13-02/22/08	KGWCQ1AV
		Dilution Factor: 1		Analysis Time..: 16:03	MS Run #.....: 8044208	
Calcium	1650 J	790	mg/kg	SW846 6010B	02/13-02/22/08	KGWCQ1AW
		Dilution Factor: 1		Analysis Time..: 16:03	MS Run #.....: 8044208	
Cadmium	12.4	3.9	mg/kg	SW846 6010B	02/13-02/25/08	KGWCQ1AX
		Dilution Factor: 5		Analysis Time..: 14:35	MS Run #.....: 8044208	
Cobalt	16.3	7.9	mg/kg	SW846 6010B	02/13-02/22/08	KGWCQ1A0
		Dilution Factor: 1		Analysis Time..: 16:03	MS Run #.....: 8044208	
Chromium	358 J	3.9	mg/kg	SW846 6010B	02/13-02/25/08	KGWCQ1A1
		Dilution Factor: 5		Analysis Time..: 14:35	MS Run #.....: 8044208	
Copper	251	3.9	mg/kg	SW846 6010B	02/13-02/22/08	KGWCQ1A2
		Dilution Factor: 1		Analysis Time..: 16:03	MS Run #.....: 8044208	
Iron	129000	79.0	mg/kg	SW846 6010B	02/13-02/25/08	KGWCQ1A3
		Dilution Factor: 5		Analysis Time..: 14:35	MS Run #.....: 8044208	

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ERM Group Inc, The

Client Sample ID: 68-B-B27-SS-G-(0-2.5)-(B-1)-02052008

TOTAL Metals

Lot-Sample #...: C8B090171-002 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Potassium	338 B	790	mg/kg	SW846 6010B	02/13-02/22/08	KGWCQ1A4
		Dilution Factor: 1		Analysis Time..: 16:03	MS Run #.....: 8044208	
Magnesium	398 B,J	790	mg/kg	SW846 6010B	02/13-02/22/08	KGWCQ1A5
		Dilution Factor: 1		Analysis Time..: 16:03	MS Run #.....: 8044208	
Manganese	621 J	2.4	mg/kg	SW846 6010B	02/13-02/22/08	KGWCQ1A6
		Dilution Factor: 1		Analysis Time..: 16:03	MS Run #.....: 8044208	
Sodium	ND	3950	mg/kg	SW846 6010B	02/13-02/25/08	KGWCQ1A7
		Dilution Factor: 5		Analysis Time..: 14:35	MS Run #.....: 8044208	
Nickel	67.9	6.3	mg/kg	SW846 6010B	02/13-02/22/08	KGWCQ1AA
		Dilution Factor: 1		Analysis Time..: 16:03	MS Run #.....: 8044208	
Lead	2460	2.4	mg/kg	SW846 6010B	02/13-02/25/08	KGWCQ1AC
		Dilution Factor: 5		Analysis Time..: 14:35	MS Run #.....: 8044208	
Selenium	4.3	3.9	mg/kg	SW846 6010B	02/13-02/25/08	KGWCQ1AD
		Dilution Factor: 5		Analysis Time..: 14:35	MS Run #.....: 8044208	
Thallium	ND	7.9	mg/kg	SW846 6010B	02/13-02/25/08	KGWCQ1AE
		Dilution Factor: 5		Analysis Time..: 14:35	MS Run #.....: 8044208	
Antimony	12.1	7.9	mg/kg	SW846 6010B	02/13-02/25/08	KGWCQ1AF
		Dilution Factor: 5		Analysis Time..: 14:35	MS Run #.....: 8044208	
Vanadium	16.2 B	39.5	mg/kg	SW846 6010B	02/13-02/25/08	KGWCQ1AG
		Dilution Factor: 5		Analysis Time..: 14:35	MS Run #.....: 8044208	
Zinc	936 J	15.8	mg/kg	SW846 6010B	02/13-02/25/08	KGWCQ1AH
		Dilution Factor: 5		Analysis Time..: 14:35	MS Run #.....: 8044208	

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

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

B Estimated result. Result is less than RL.

ERM Group Inc, The

Client Sample ID: 68-B-B27-SS-G-(0-2.5)-(B-1)-02052008

General Chemistry

Lot-Sample #...: C8B090171-002 **Work Order #...:** KGWCQ **Matrix.....:** SOLID
Date Sampled...: 02/05/08 **Date Received..:** 02/09/08
% Moisture.....: 37

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**63.3**	**1.0**	**%**	**SM20 2540G**	**02/11-02/12/08**	**8042188**

Dilution Factor: 1 Analysis Time..: 00:00 MS Run #.....: 8042113

ERM Group Inc, The

Client Sample ID: 68-B-M26-SS-G-(0-2.5)-(B-127)-02072008

GC/MS Volatiles

Lot-Sample #...: C8B090171-003 **Work Order #...:** KGWCW1AL **Matrix.....:** SOLID
Date Sampled...: 02/07/08 **Date Received..:** 02/09/08 **MS Run #.....:**
Prep Date.....: 02/13/08 **Analysis Date..:** 02/13/08
Prep Batch #...: 8044061 **Analysis Time..:** 14:14
Dilution Factor: 0.89
% Moisture.....: 11 **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	5.0	ug/kg
2-Butanone	ND	5.0	ug/kg
Carbon disulfide	ND	5.0	ug/kg
Carbon tetrachloride	ND	5.0	ug/kg
Chlorobenzene	ND	5.0	ug/kg
Chloroethane	ND	5.0	ug/kg
Chloroform	ND	5.0	ug/kg
Chloromethane	ND	5.0	ug/kg
Cyclohexane	ND	5.0	ug/kg
Dibromochloromethane	ND	5.0	ug/kg
1,2-Dibromo-3-chloro-propane	ND	5.0	ug/kg
1,2-Dibromoethane	ND	5.0	ug/kg
1,3-Dichlorobenzene	ND	5.0	ug/kg
1,4-Dichlorobenzene	ND	5.0	ug/kg
1,2-Dichlorobenzene	ND	5.0	ug/kg
Dichlorodifluoromethane	ND	5.0	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
cis-1,2-Dichloroethene	ND	5.0	ug/kg
trans-1,2-Dichloroethene	ND	5.0	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	5.0	ug/kg
Isopropylbenzene	ND	5.0	ug/kg
Methyl acetate	ND	5.0	ug/kg
Methylene chloride	ND	5.0	ug/kg
Methylcyclohexane	ND	5.0	ug/kg
4-Methyl-2-pentanone	ND	5.0	ug/kg
Methyl tert-butyl ether	ND	5.0	ug/kg
Styrene	ND	5.0	ug/kg

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ERM Group Inc, The

Client Sample ID: 68-B-M26-SS-G-(0-2.5)-(B-127)-02072008

GC/MS Volatiles

Lot-Sample #...: C8B090171-003 Work Order #...: KGWCW1AL Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg
1,2,4-Trichloro-benzene	ND	5.0	ug/kg
Tetrachloroethene	ND	5.0	ug/kg
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	5.0	ug/kg
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0	ug/kg
Toluene	ND	5.0	ug/kg
Vinyl chloride	ND	5.0	ug/kg
Xylenes (total)	ND	15	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	107	(52 - 124)
Toluene-d8	106	(72 - 127)
4-Bromofluorobenzene	72	(63 - 120)
Dibromofluoromethane	99	(68 - 121)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

ERM Group Inc, The

Client Sample ID: 68-B-M26-SS-G-(0-2.5)-(B-127)-02072008

GC/MS Semivolatiles

Lot-Sample #...:	C8B090171-003	**Work Order #...:**	KGWCW1AM	**Matrix.....:**	SOLID
Date Sampled...:	02/07/08	**Date Received..:**	02/09/08	**MS Run #.....:**	8043005
Prep Date.....:	02/12/08	**Analysis Date..:**	02/13/08		
Prep Batch #...:	8043013	**Analysis Time..:**	05:26		
Dilution Factor:	1				
% Moisture.....:	11	**Method.....:**	SW846 8270C		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acenaphthene	ND	370	ug/kg
Acenaphthylene	ND	370	ug/kg
Acetophenone	**340 J**	**370**	**ug/kg**
Anthracene	ND	370	ug/kg
Atrazine	ND	370	ug/kg
Benzo(a)anthracene	ND	370	ug/kg
Benzo(a)pyrene	ND	370	ug/kg
Benzo(b)fluoranthene	**130 J**	**370**	**ug/kg**
Benzo(ghi)perylene	ND	370	ug/kg
Benzo(k)fluoranthene	ND	370	ug/kg
Benzaldehyde	ND	370	ug/kg
1,1'-Biphenyl	**240 J**	**370**	**ug/kg**
bis(2-Chloroethoxy) methane	ND	370	ug/kg
bis(2-Chloroethyl)-ether	ND	370	ug/kg
bis(2-Ethylhexyl) phthalate	**5800**	**370**	**ug/kg**
4-Bromophenyl phenyl ether	ND	370	ug/kg
Butyl benzyl phthalate	**13000**	**370**	**ug/kg**
Caprolactam	ND	370	ug/kg
Carbazole	ND	370	ug/kg
4-Chloroaniline	ND	370	ug/kg
4-Chloro-3-methylphenol	ND	370	ug/kg
2-Chloronaphthalene	ND	370	ug/kg
2-Chlorophenol	ND	370	ug/kg
4-Chlorophenyl phenyl ether	ND	370	ug/kg
Chrysene	ND	370	ug/kg
Dibenz(a,h)anthracene	ND	370	ug/kg
Dibenzofuran	ND	370	ug/kg
3,3'-Dichlorobenzidine	ND	1800	ug/kg
2,4-Dichlorophenol	ND	370	ug/kg
Diethyl phthalate	ND	370	ug/kg
2,4-Dimethylphenol	ND	370	ug/kg
Dimethyl phthalate	ND	370	ug/kg
Di-n-butyl phthalate	**210 J**	**370**	**ug/kg**

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ERM Group Inc, The

Client Sample ID: 68-B-M26-SS-G-(0-2.5)-(B-127)-02072008

GC/MS Semivolatiles

Lot-Sample #...: C8B090171-003 **Work Order #...:** KGWCW1AM **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4,6-Dinitro-2-methylphenol	ND	1800	ug/kg
2,4-Dinitrophenol	ND	1800	ug/kg
2,4-Dinitrotoluene	ND	370	ug/kg
2,6-Dinitrotoluene	ND	370	ug/kg
Di-n-octyl phthalate	ND	370	ug/kg
Fluoranthene	**150 J**	**370**	**ug/kg**
Fluorene	ND	370	ug/kg
Hexachlorobenzene	ND	370	ug/kg
Hexachlorobutadiene	ND	370	ug/kg
Hexachlorocyclopentadiene	ND	1800	ug/kg
Hexachloroethane	ND	370	ug/kg
Indeno(1,2,3-cd)pyrene	ND	370	ug/kg
Isophorone	**1500**	**370**	**ug/kg**
2-Methylnaphthalene	**3600**	**370**	**ug/kg**
2-Methylphenol	ND	370	ug/kg
4-Methylphenol	ND	370	ug/kg
Naphthalene	**1900**	**370**	**ug/kg**
2-Nitroaniline	ND	1800	ug/kg
3-Nitroaniline	ND	1800	ug/kg
4-Nitroaniline	ND	1800	ug/kg
Nitrobenzene	ND	370	ug/kg
2-Nitrophenol	ND	370	ug/kg
4-Nitrophenol	ND	1800	ug/kg
N-Nitrosodi-n-propylamine	ND	370	ug/kg
N-Nitrosodiphenylamine	ND	370	ug/kg
2,2'-oxybis(1-Chloropropane)	ND	370	ug/kg
Pentachlorophenol	ND	1800	ug/kg
Phenanthrene	**150 J**	**370**	**ug/kg**
Phenol	ND	370	ug/kg
Pyrene	**120 J**	**370**	**ug/kg**
2,4,5-Trichlorophenol	ND	370	ug/kg
2,4,6-Trichlorophenol	ND	370	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4,6-Tribromophenol	68	(10 - 117)
2-Fluorobiphenyl	61	(20 - 109)
2-Fluorophenol	61	(10 - 113)
Nitrobenzene-d5	63	(18 - 106)
Phenol-d5	62	(18 - 113)
Terphenyl-d14	63	(10 - 138)

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ERM Group Inc, The

Client Sample ID: 68-B-M26-SS-G-(0-2.5)-(B-127)-02072008

GC/MS Semivolatiles

Lot-Sample #...: C8B090171-003 Work Order #...: KGWCW1AM Matrix.....: SOLID

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

ERM Group Inc, The

Client Sample ID: 68-B-M26-SS-G-(0-2.5)-(B-127)-02072008

GC Semivolatiles

Lot-Sample #...:	C8B090171-003	**Work Order #...:**	KGWCW1AN	**Matrix.....:**	SOLID
Date Sampled...:	02/07/08	**Date Received..:**	02/09/08	**MS Run #.....:**	8043002
Prep Date.....:	02/12/08	**Analysis Date..:**	02/16/08		
Prep Batch #...:	8043010	**Analysis Time..:**	11:32		
Dilution Factor:	10				
% Moisture.....:	11	**Method.....:**	SW846 8081A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
alpha-BHC	ND	19	ug/kg
beta-BHC	ND	19	ug/kg
delta-BHC	ND	19	ug/kg
gamma-BHC (Lindane)	ND	19	ug/kg
Heptachlor	ND	19	ug/kg
Aldrin	ND	19	ug/kg
Heptachlor epoxide	ND	19	ug/kg
Endosulfan I	ND	19	ug/kg
Dieldrin	**220 PG**	**19**	**ug/kg**
4,4'-DDE	**500 PG**	**19**	**ug/kg**
Endrin	ND	19	ug/kg
Endrin ketone	ND	19	ug/kg
Endrin aldehyde	ND	19	ug/kg
Endosulfan II	ND	19	ug/kg
4,4'-DDD	ND	19	ug/kg
Endosulfan sulfate	**160 PG**	**19**	**ug/kg**
4,4'-DDT	ND	19	ug/kg
Methoxychlor	ND	37	ug/kg
alpha-Chlordane	ND	19	ug/kg
gamma-Chlordane	**360 PG**	**19**	**ug/kg**
Toxaphene	ND	760	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	NC,DIL	(31 - 131)
Decachlorobiphenyl	NC,DIL	(18 - 145)

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.

PG The percent difference between the original and confirmation analyses is greater than 40%.

ERM Group Inc, The

Client Sample ID: 68-B-M26-SS-G-(0-2.5)-(B-127)-02072008

GC Semivolatiles

Lot-Sample #...:	C8B090171-003	**Work Order #...:**	KGWCW1AP	**Matrix.....:**	SOLID
Date Sampled...:	02/07/08	**Date Received..:**	02/09/08	**MS Run #.....:**	8043003
Prep Date.....:	02/12/08	**Analysis Date..:**	02/13/08		
Prep Batch #...:	8043011	**Analysis Time..:**	16:23		
Dilution Factor:	30				
% Moisture.....:	11	**Method.....:**	SW846 8082		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	1100	ug/kg
Aroclor 1221	ND	1100	ug/kg
Aroclor 1232	ND	1100	ug/kg
Aroclor 1242	ND	1100	ug/kg
Aroclor 1248	ND	1100	ug/kg
Aroclor 1254	**28000**	**1100**	**ug/kg**
Aroclor 1260	ND	1100	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	NC,DIL	(31 - 127)
Decachlorobiphenyl	NC,DIL	(23 - 141)

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.

ERM Group Inc, The

Client Sample ID: 68-B-M26-SS-G-(0-2.5)-(B-127)-02072008

TOTAL Metals

Lot-Sample #...: C8B090171-003
Date Sampled...: 02/07/08 Date Received..: 02/09/08
% Moisture.....: 11
Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8044242						
Mercury	**1.7 J**	**0.037**	**mg/kg**	**SW846 7471A**	**02/13/08**	**KGWCW1AJ**
		Dilution Factor: 1		Analysis Time..: 16:48	MS Run #.....: 8044148	
Prep Batch #...: 8044357						
Silver	**0.11 B**	**0.56**	**mg/kg**	**SW846 6010B**	**02/13-02/22/08**	**KGWCW1AQ**
		Dilution Factor: 1		Analysis Time..: 16:09	MS Run #.....: 8044208	
Aluminum	**5720 J**	**22.6**	**mg/kg**	**SW846 6010B**	**02/13-02/22/08**	**KGWCW1AR**
		Dilution Factor: 1		Analysis Time..: 16:09	MS Run #.....: 8044208	
Arsenic	**4.3**	**1.1**	**mg/kg**	**SW846 6010B**	**02/13-02/22/08**	**KGWCW1AT**
		Dilution Factor: 1		Analysis Time..: 16:09	MS Run #.....: 8044208	
Barium	**41.8 J**	**22.6**	**mg/kg**	**SW846 6010B**	**02/13-02/22/08**	**KGWCW1AU**
		Dilution Factor: 1		Analysis Time..: 16:09	MS Run #.....: 8044208	
Beryllium	**0.80**	**0.45**	**mg/kg**	**SW846 6010B**	**02/13-02/22/08**	**KGWCW1AV**
		Dilution Factor: 1		Analysis Time..: 16:09	MS Run #.....: 8044208	
Calcium	**2700 J**	**565**	**mg/kg**	**SW846 6010B**	**02/13-02/22/08**	**KGWCW1AW**
		Dilution Factor: 1		Analysis Time..: 16:09	MS Run #.....: 8044208	
Cadmium	**1.4**	**0.56**	**mg/kg**	**SW846 6010B**	**02/13-02/22/08**	**KGWCW1AX**
		Dilution Factor: 1		Analysis Time..: 16:09	MS Run #.....: 8044208	
Cobalt	**6.0**	**5.6**	**mg/kg**	**SW846 6010B**	**02/13-02/22/08**	**KGWCW1A0**
		Dilution Factor: 1		Analysis Time..: 16:09	MS Run #.....: 8044208	
Chromium	**18.3 J**	**0.56**	**mg/kg**	**SW846 6010B**	**02/13-02/22/08**	**KGWCW1A1**
		Dilution Factor: 1		Analysis Time..: 16:09	MS Run #.....: 8044208	
Copper	**20.4**	**2.8**	**mg/kg**	**SW846 6010B**	**02/13-02/22/08**	**KGWCW1A2**
		Dilution Factor: 1		Analysis Time..: 16:09	MS Run #.....: 8044208	
Iron	**14200**	**11.3**	**mg/kg**	**SW846 6010B**	**02/13-02/22/08**	**KGWCW1A3**
		Dilution Factor: 1		Analysis Time..: 16:09	MS Run #.....: 8044208	

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ERM Group Inc, The

Client Sample ID: 68-B-M26-SS-G-(0-2.5)-(B-127)-02072008

TOTAL Metals

Lot-Sample #...: C8B090171-003 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Potassium	612	565	mg/kg	SW846 6010B	02/13-02/22/08	KGWCW1A4
		Dilution Factor: 1		Analysis Time..: 16:09	MS Run #.....: 8044208	
Magnesium	1020 J	565	mg/kg	SW846 6010B	02/13-02/22/08	KGWCW1A5
		Dilution Factor: 1		Analysis Time..: 16:09	MS Run #.....: 8044208	
Manganese	222 J	1.7	mg/kg	SW846 6010B	02/13-02/22/08	KGWCW1A6
		Dilution Factor: 1		Analysis Time..: 16:09	MS Run #.....: 8044208	
Sodium	ND	565	mg/kg	SW846 6010B	02/13-02/22/08	KGWCW1A7
		Dilution Factor: 1		Analysis Time..: 16:09	MS Run #.....: 8044208	
Nickel	15.2	4.5	mg/kg	SW846 6010B	02/13-02/22/08	KGWCW1AA
		Dilution Factor: 1		Analysis Time..: 16:09	MS Run #.....: 8044208	
Lead	97.6	0.34	mg/kg	SW846 6010B	02/13-02/22/08	KGWCW1AC
		Dilution Factor: 1		Analysis Time..: 16:09	MS Run #.....: 8044208	
Selenium	0.42 B	0.56	mg/kg	SW846 6010B	02/13-02/22/08	KGWCW1AD
		Dilution Factor: 1		Analysis Time..: 16:09	MS Run #.....: 8044208	
Thallium	ND	1.1	mg/kg	SW846 6010B	02/13-02/22/08	KGWCW1AE
		Dilution Factor: 1		Analysis Time..: 16:09	MS Run #.....: 8044208	
Antimony	0.24 B	1.1	mg/kg	SW846 6010B	02/13-02/22/08	KGWCW1AF
		Dilution Factor: 1		Analysis Time..: 16:09	MS Run #.....: 8044208	
Vanadium	22.7	5.6	mg/kg	SW846 6010B	02/13-02/22/08	KGWCW1AG
		Dilution Factor: 1		Analysis Time..: 16:09	MS Run #.....: 8044208	
Zinc	122 J	2.3	mg/kg	SW846 6010B	02/13-02/22/08	KGWCW1AH
		Dilution Factor: 1		Analysis Time..: 16:09	MS Run #.....: 8044208	

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

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

B Estimated result. Result is less than RL.

ERM Group Inc, The

Client Sample ID: 68-B-M26-SS-G-(0-2.5)-(B-127)-02072008

General Chemistry

Lot-Sample #...: C8B090171-003 Work Order #...: KGWCW Matrix.....: SOLID
Date Sampled...: 02/07/08 Date Received..: 02/09/08
% Moisture.....: 11

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	88.5	1.0	%	SM20 2540G	02/11-02/12/08	8042188

Dilution Factor: 1 Analysis Time..: 00:00 MS Run #.....: 8042113

ERM Group Inc, The

Client Sample ID: 68-D-J22-SS-G-(0-2.5)-(A-40)-02052008

GC/MS Semivolatiles

Lot-Sample #...:	C8B090171-004	**Work Order #...:**	KGWCX1AM	**Matrix.....:**	SOLID
Date Sampled...:	02/05/08	**Date Received..:**	02/09/08	**MS Run #.....:**	8043005
Prep Date.....:	02/12/08	**Analysis Date..:**	02/13/08		
Prep Batch #...:	8043013	**Analysis Time..:**	06:23		
Dilution Factor:	1				
% Moisture.....:	23	**Method.....:**	SW846 8270C		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acenaphthene	ND	430	ug/kg
Acenaphthylene	**160 J**	**430**	**ug/kg**
Acetophenone	ND	430	ug/kg
Anthracene	**140 J**	**430**	**ug/kg**
Atrazine	ND	430	ug/kg
Benzo(a)anthracene	**260 J**	**430**	**ug/kg**
Benzo(a)pyrene	**280 J**	**430**	**ug/kg**
Benzo(b)fluoranthene	**410 J**	**430**	**ug/kg**
Benzo(ghi)perylene	**190 J**	**430**	**ug/kg**
Benzo(k)fluoranthene	**130 J**	**430**	**ug/kg**
Benzaldehyde	ND	430	ug/kg
1,1'-Biphenyl	ND	430	ug/kg
bis(2-Chloroethoxy) methane	ND	430	ug/kg
bis(2-Chloroethyl)-ether	ND	430	ug/kg
bis(2-Ethylhexyl) phthalate	**140 J**	**430**	**ug/kg**
4-Bromophenyl phenyl ether	ND	430	ug/kg
Butyl benzyl phthalate	ND	430	ug/kg
Caprolactam	ND	430	ug/kg
Carbazole	**38 J**	**430**	**ug/kg**
4-Chloroaniline	ND	430	ug/kg
4-Chloro-3-methylphenol	ND	430	ug/kg
2-Chloronaphthalene	ND	430	ug/kg
2-Chlorophenol	ND	430	ug/kg
4-Chlorophenyl phenyl ether	ND	430	ug/kg
Chrysene	**270 J**	**430**	**ug/kg**
Dibenz(a,h)anthracene	ND	430	ug/kg
Dibenzofuran	ND	430	ug/kg
3,3'-Dichlorobenzidine	ND	2100	ug/kg
2,4-Dichlorophenol	ND	430	ug/kg
Diethyl phthalate	ND	430	ug/kg
2,4-Dimethylphenol	ND	430	ug/kg
Dimethyl phthalate	ND	430	ug/kg
Di-n-butyl phthalate	ND	430	ug/kg

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ERM Group Inc, The

Client Sample ID: 68-D-J22-SS-G-(0-2.5)-(A-40)-02052008

GC/MS Semivolatiles

Lot-Sample #...: C8B090171-004 **Work Order #...:** KGWCX1AM **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4,6-Dinitro-2-methylphenol	ND	2100	ug/kg
2,4-Dinitrophenol	ND	2100	ug/kg
2,4-Dinitrotoluene	ND	430	ug/kg
2,6-Dinitrotoluene	ND	430	ug/kg
Di-n-octyl phthalate	ND	430	ug/kg
Fluoranthene	**280 J**	**430**	**ug/kg**
Fluorene	ND	430	ug/kg
Hexachlorobenzene	ND	430	ug/kg
Hexachlorobutadiene	ND	430	ug/kg
Hexachlorocyclopentadiene	ND	2100	ug/kg
Hexachloroethane	ND	430	ug/kg
Indeno(1,2,3-cd)pyrene	**180 J**	**430**	**ug/kg**
Isophorone	ND	430	ug/kg
2-Methylnaphthalene	ND	430	ug/kg
2-Methylphenol	ND	430	ug/kg
4-Methylphenol	ND	430	ug/kg
Naphthalene	ND	430	ug/kg
2-Nitroaniline	ND	2100	ug/kg
3-Nitroaniline	ND	2100	ug/kg
4-Nitroaniline	ND	2100	ug/kg
Nitrobenzene	ND	430	ug/kg
2-Nitrophenol	ND	430	ug/kg
4-Nitrophenol	ND	2100	ug/kg
N-Nitrosodi-n-propylamine	ND	430	ug/kg
N-Nitrosodiphenylamine	ND	430	ug/kg
2,2'-oxybis(1-Chloropropane)	ND	430	ug/kg
Pentachlorophenol	ND	2100	ug/kg
Phenanthrene	**69 J**	**430**	**ug/kg**
Phenol	ND	430	ug/kg
Pyrene	**250 J**	**430**	**ug/kg**
2,4,5-Trichlorophenol	ND	430	ug/kg
2,4,6-Trichlorophenol	ND	430	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4,6-Tribromophenol	61	(10 - 117)
2-Fluorobiphenyl	54	(20 - 109)
2-Fluorophenol	52	(10 - 113)
Nitrobenzene-d5	53	(18 - 106)
Phenol-d5	52	(18 - 113)
Terphenyl-d14	59	(10 - 138)

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ERM Group Inc, The

Client Sample ID: 68-D-J22-SS-G-(0-2.5)-(A-40)-02052008

GC/MS Semivolatiles

Lot-Sample #...: C8B090171-004 Work Order #...: KGWCX1AM Matrix.....: SOLID

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

ERM Group Inc, The

Client Sample ID: 68-D-J22-SS-G-(0-2.5)-(A-40)-02052008

GC Semivolatiles

Lot-Sample #...: C8B090171-004
Date Sampled...: 02/05/08
Prep Date.....: 02/12/08
Prep Batch #...: 8043010
Dilution Factor: 9.87
% Moisture.....: 23

Work Order #...: KGWCX1AN
Date Received..: 02/09/08
Analysis Date..: 02/16/08
Analysis Time..: 11:50

Method.....: SW846 8081A

Matrix.....: SOLID
MS Run #.....: 8043002

PARAMETER	RESULT	REPORTING LIMIT	UNITS
alpha-BHC	ND	22	ug/kg
beta-BHC	ND	22	ug/kg
delta-BHC	ND	22	ug/kg
gamma-BHC (Lindane)	ND	22	ug/kg
Heptachlor	ND	22	ug/kg
Aldrin	ND	22	ug/kg
Heptachlor epoxide	ND	22	ug/kg
Endosulfan I	ND	22	ug/kg
Dieldrin	ND	22	ug/kg
4,4'-DDE	ND	22	ug/kg
Endrin	ND	22	ug/kg
Endrin ketone	ND	22	ug/kg
Endrin aldehyde	ND	22	ug/kg
Endosulfan II	ND	22	ug/kg
4,4'-DDD	ND	22	ug/kg
Endosulfan sulfate	ND	22	ug/kg
4,4'-DDT	ND	22	ug/kg
Methoxychlor	ND	42	ug/kg
alpha-Chlordane	ND	22	ug/kg
gamma-Chlordane	**3.9 J,PG**	**22**	**ug/kg**
Toxaphene	ND	850	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	NC,DIL	(31 - 131)
Decachlorobiphenyl	NC,DIL	(18 - 145)

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.

J Estimated result. Result is less than RL.

PG The percent difference between the original and confirmation analyses is greater than 40%.

ERM Group Inc, The

Client Sample ID: 68-D-J22-SS-G-(0-2.5)-(A-40)-02052008

GC Semivolatiles

Lot-Sample #...:	C8B090171-004	**Work Order #...:**	KGWCX1AP	**Matrix.....:**	SOLID
Date Sampled...:	02/05/08	**Date Received..:**	02/09/08	**MS Run #.....:**	8043003
Prep Date.....:	02/12/08	**Analysis Date..:**	02/13/08		
Prep Batch #...:	8043011	**Analysis Time..:**	16:43		
Dilution Factor:	0.99				
% Moisture.....:	23	**Method.....:**	SW846 8082		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	42	ug/kg
Aroclor 1221	ND	42	ug/kg
Aroclor 1232	ND	42	ug/kg
Aroclor 1242	ND	42	ug/kg
Aroclor 1248	ND	42	ug/kg
Aroclor 1254	ND	42	ug/kg
Aroclor 1260	ND	42	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	88	(31 - 127)
Decachlorobiphenyl	103	(23 - 141)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

ERM Group Inc, The

Client Sample ID: 68-D-J22-SS-G-(0-2.5)-(A-40)-02052008

TOTAL Metals

Lot-Sample #...: C8B090171-004
Date Sampled...: 02/05/08 Date Received..: 02/09/08 Matrix.....: SOLID
% Moisture.....: 23

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8044242						
Mercury	0.087 J	0.043	mg/kg	SW846 7471A	02/13/08	KGWCX1AJ
		Dilution Factor: 1		Analysis Time..: 16:50	MS Run #.....: 8044148	
Prep Batch #...: 8044357						
Silver	0.17 B	0.65	mg/kg	SW846 6010B	02/13-02/22/08	KGWCX1AQ
		Dilution Factor: 1		Analysis Time..: 16:14	MS Run #.....: 8044208	
Aluminum	3020 J	25.8	mg/kg	SW846 6010B	02/13-02/22/08	KGWCX1AR
		Dilution Factor: 1		Analysis Time..: 16:14	MS Run #.....: 8044208	
Arsenic	2.0	1.3	mg/kg	SW846 6010B	02/13-02/22/08	KGWCX1AT
		Dilution Factor: 1		Analysis Time..: 16:14	MS Run #.....: 8044208	
Barium	46.7 J	25.8	mg/kg	SW846 6010B	02/13-02/22/08	KGWCX1AU
		Dilution Factor: 1		Analysis Time..: 16:14	MS Run #.....: 8044208	
Beryllium	0.26 B	0.52	mg/kg	SW846 6010B	02/13-02/22/08	KGWCX1AV
		Dilution Factor: 1		Analysis Time..: 16:14	MS Run #.....: 8044208	
Calcium	1690 J	646	mg/kg	SW846 6010B	02/13-02/22/08	KGWCX1AW
		Dilution Factor: 1		Analysis Time..: 16:14	MS Run #.....: 8044208	
Cadmium	0.56 B	0.65	mg/kg	SW846 6010B	02/13-02/22/08	KGWCX1AX
		Dilution Factor: 1		Analysis Time..: 16:14	MS Run #.....: 8044208	
Cobalt	3.3 B	6.5	mg/kg	SW846 6010B	02/13-02/22/08	KGWCX1A0
		Dilution Factor: 1		Analysis Time..: 16:14	MS Run #.....: 8044208	
Chromium	24.7 J	0.65	mg/kg	SW846 6010B	02/13-02/22/08	KGWCX1A1
		Dilution Factor: 1		Analysis Time..: 16:14	MS Run #.....: 8044208	
Copper	26.8	3.2	mg/kg	SW846 6010B	02/13-02/22/08	KGWCX1A2
		Dilution Factor: 1		Analysis Time..: 16:14	MS Run #.....: 8044208	
Iron	11600	12.9	mg/kg	SW846 6010B	02/13-02/22/08	KGWCX1A3
		Dilution Factor: 1		Analysis Time..: 16:14	MS Run #.....: 8044208	

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ERM Group Inc, The

Client Sample ID: 68-D-J22-SS-G-(0-2.5)-(A-40)-02052008

TOTAL Metals

Lot-Sample #...: C8B090171-004 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Potassium	276 B	646	mg/kg	SW846 6010B	02/13-02/22/08	KGWCX1A4
		Dilution Factor: 1		Analysis Time..: 16:14	MS Run #.....: 8044208	
Magnesium	468 B,J	646	mg/kg	SW846 6010B	02/13-02/22/08	KGWCX1A5
		Dilution Factor: 1		Analysis Time..: 16:14	MS Run #.....: 8044208	
Manganese	180 J	1.9	mg/kg	SW846 6010B	02/13-02/22/08	KGWCX1A6
		Dilution Factor: 1		Analysis Time..: 16:14	MS Run #.....: 8044208	
Sodium	ND	646	mg/kg	SW846 6010B	02/13-02/22/08	KGWCX1A7
		Dilution Factor: 1		Analysis Time..: 16:14	MS Run #.....: 8044208	
Nickel	19.5	5.2	mg/kg	SW846 6010B	02/13-02/22/08	KGWCX1AA
		Dilution Factor: 1		Analysis Time..: 16:14	MS Run #.....: 8044208	
Lead	69.3	0.39	mg/kg	SW846 6010B	02/13-02/22/08	KGWCX1AC
		Dilution Factor: 1		Analysis Time..: 16:14	MS Run #.....: 8044208	
Selenium	ND	0.65	mg/kg	SW846 6010B	02/13-02/22/08	KGWCX1AD
		Dilution Factor: 1		Analysis Time..: 16:14	MS Run #.....: 8044208	
Thallium	ND	1.3	mg/kg	SW846 6010B	02/13-02/22/08	KGWCX1AE
		Dilution Factor: 1		Analysis Time..: 16:14	MS Run #.....: 8044208	
Antimony	0.49 B	1.3	mg/kg	SW846 6010B	02/13-02/22/08	KGWCX1AF
		Dilution Factor: 1		Analysis Time..: 16:14	MS Run #.....: 8044208	
Vanadium	14.6	6.5	mg/kg	SW846 6010B	02/13-02/22/08	KGWCX1AG
		Dilution Factor: 1		Analysis Time..: 16:14	MS Run #.....: 8044208	
Zinc	191 J	2.6	mg/kg	SW846 6010B	02/13-02/22/08	KGWCX1AH
		Dilution Factor: 1		Analysis Time..: 16:14	MS Run #.....: 8044208	

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

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

B Estimated result. Result is less than RL.

ERM Group Inc, The

Client Sample ID: 68-D-J22-SS-G-(0-2.5)-(A-40)-02052008

General Chemistry

Lot-Sample #...: C8B090171-004 Work Order #...: KGWCX Matrix.....: SOLID
Date Sampled...: 02/05/08 Date Received..: 02/09/08
% Moisture.....: 23

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	63.8		%	SM20 2540G	02/11-02/12/08	8042188

Dilution Factor: 1 Analysis Time..: 00:00 MS Run #.....: 8042113

ERM Group Inc, The

Client Sample ID: 68-B-P28-SS-G-(0-2.5)-(B-143-1)-02062008

GC/MS Semivolatiles

Lot-Sample #...:	C8B090171-005	Work Order #...:	KGWC11AM	Matrix.....:	SOLID
Date Sampled...:	02/06/08	Date Received..:	02/09/08	MS Run #.....:	8043005
Prep Date.....:	02/12/08	Analysis Date..:	02/13/08		
Prep Batch #...:	8043013	Analysis Time..:	07:21		
Dilution Factor:	1				
% Moisture.....:	29	Method.....:	SW846 8270C		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acenaphthene	ND	460	ug/kg
Acenaphthylene	**100 J**	**460**	**ug/kg**
Acetophenone	ND	460	ug/kg
Anthracene	**110 J**	**460**	**ug/kg**
Atrazine	ND	460	ug/kg
Benzo(a)anthracene	**210 J**	**460**	**ug/kg**
Benzo(a)pyrene	**330 J**	**460**	**ug/kg**
Benzo(b)fluoranthene	**720**	**460**	**ug/kg**
Benzo(ghi)perylene	**270 J**	**460**	**ug/kg**
Benzo(k)fluoranthene	ND	460	ug/kg
Benzaldehyde	ND	460	ug/kg
1,1'-Biphenyl	**26 J**	**460**	**ug/kg**
bis(2-Chloroethoxy) methane	ND	460	ug/kg
bis(2-Chloroethyl)-ether	ND	460	ug/kg
bis(2-Ethylhexyl) phthalate	**130 J**	**460**	**ug/kg**
4-Bromophenyl phenyl ether	ND	460	ug/kg
Butyl benzyl phthalate	**1100**	**460**	**ug/kg**
Caprolactam	ND	460	ug/kg
Carbazole	**26 J**	**460**	**ug/kg**
4-Chloroaniline	ND	460	ug/kg
4-Chloro-3-methylphenol	ND	460	ug/kg
2-Chloronaphthalene	ND	460	ug/kg
2-Chlorophenol	ND	460	ug/kg
4-Chlorophenyl phenyl ether	ND	460	ug/kg
Chrysene	**340 J**	**460**	**ug/kg**
Dibenz(a,h)anthracene	ND	460	ug/kg
Dibenzofuran	**45 J**	**460**	**ug/kg**
3,3'-Dichlorobenzidine	ND	2200	ug/kg
2,4-Dichlorophenol	ND	460	ug/kg
Diethyl phthalate	ND	460	ug/kg
2,4-Dimethylphenol	ND	460	ug/kg
Dimethyl phthalate	ND	460	ug/kg
Di-n-butyl phthalate	ND	460	ug/kg

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ERM Group Inc, The

Client Sample ID: 68-B-P28-SS-G-(0-2.5)-(B-143-1)-02062008

GC/MS Semivolatiles

Lot-Sample #...: C8B090171-005 **Work Order #...:** KGWC11AM **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4,6-Dinitro-2-methylphenol	ND	2200	ug/kg
2,4-Dinitrophenol	ND	2200	ug/kg
2,4-Dinitrotoluene	ND	460	ug/kg
2,6-Dinitrotoluene	ND	460	ug/kg
Di-n-octyl phthalate	ND	460	ug/kg
Fluoranthene	**380 J**	**460**	**ug/kg**
Fluorene	ND	460	ug/kg
Hexachlorobenzene	ND	460	ug/kg
Hexachlorobutadiene	ND	460	ug/kg
Hexachlorocyclopentadiene	ND	2200	ug/kg
Hexachloroethane	ND	460	ug/kg
Indeno(1,2,3-cd)pyrene	**240 J**	**460**	**ug/kg**
Isophorone	ND	460	ug/kg
2-Methylnaphthalene	**72 J**	**460**	**ug/kg**
2-Methylphenol	ND	460	ug/kg
4-Methylphenol	ND	460	ug/kg
Naphthalene	**79 J**	**460**	**ug/kg**
2-Nitroaniline	ND	2200	ug/kg
3-Nitroaniline	ND	2200	ug/kg
4-Nitroaniline	ND	2200	ug/kg
Nitrobenzene	ND	460	ug/kg
2-Nitrophenol	ND	460	ug/kg
4-Nitrophenol	ND	2200	ug/kg
N-Nitrosodi-n-propylamine	ND	460	ug/kg
N-Nitrosodiphenylamine	ND	460	ug/kg
2,2'-oxybis(1-Chloropropane)	ND	460	ug/kg
Pentachlorophenol	ND	2200	ug/kg
Phenanthrene	**220 J**	**460**	**ug/kg**
Phenol	ND	460	ug/kg
Pyrene	**310 J**	**460**	**ug/kg**
2,4,5-Trichlorophenol	ND	460	ug/kg
2,4,6-Trichlorophenol	ND	460	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4,6-Tribromophenol	79	(10 - 117)
2-Fluorobiphenyl	70	(20 - 109)
2-Fluorophenol	63	(10 - 113)
Nitrobenzene-d5	68	(18 - 106)
Phenol-d5	67	(18 - 113)
Terphenyl-d14	73	(10 - 138)

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ERM Group Inc, The

Client Sample ID: 68-B-P28-SS-G-(0-2.5)-(B-143-1)-02062008

GC/MS Semivolatiles

Lot-Sample #...: C8B090171-005 Work Order #...: KGWC11AM Matrix.....: SOLID

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

ERM Group Inc, The

Client Sample ID: 68-B-P28-SS-G-(0-2.5)-(B-143-1)-02062008

GC Semivolatiles

Lot-Sample #...:	C8B090171-005	**Work Order #...:**	KGWC11AN	**Matrix.....:**	SOLID
Date Sampled...:	02/06/08	**Date Received..:**	02/09/08	**MS Run #.....:**	8043002
Prep Date.....:	02/12/08	**Analysis Date..:**	02/16/08		
Prep Batch #...:	8043010	**Analysis Time..:**	12:08		
Dilution Factor:	10				
% Moisture.....:	29	**Method.....:**	SW846 8081A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
alpha-BHC	ND	24	ug/kg
beta-BHC	ND	24	ug/kg
delta-BHC	**2.9 J**	**24**	**ug/kg**
gamma-BHC (Lindane)	**7.3 J,PG**	**24**	**ug/kg**
Heptachlor	ND	24	ug/kg
Aldrin	ND	24	ug/kg
Heptachlor epoxide	ND	24	ug/kg
Endosulfan I	ND	24	ug/kg
Dieldrin	ND	24	ug/kg
4,4'-DDE	ND	24	ug/kg
Endrin	ND	24	ug/kg
Endrin ketone	ND	24	ug/kg
Endrin aldehyde	ND	24	ug/kg
Endosulfan II	ND	24	ug/kg
4,4'-DDD	ND	24	ug/kg
Endosulfan sulfate	ND	24	ug/kg
4,4'-DDT	ND	24	ug/kg
Methoxychlor	ND	46	ug/kg
alpha-Chlordane	ND	24	ug/kg
gamma-Chlordane	**38 PG**	**24**	**ug/kg**
Toxaphene	ND	940	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	NC,DIL	(31 - 131)
Decachlorobiphenyl	NC,DIL	(18 - 145)

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.

J Estimated result. Result is less than RL.

PG The percent difference between the original and confirmation analyses is greater than 40%.

ERM Group Inc, The

Client Sample ID: 68-B-P28-SS-G-(0-2.5)-(B-143-1)-02062008

GC Semivolatiles

Lot-Sample #...:	C8B090171-005	**Work Order #...:**	KGWC11AP	**Matrix.....:**	SOLID
Date Sampled...:	02/06/08	**Date Received..:**	02/09/08	**MS Run #.....:**	8043003
Prep Date.....:	02/12/08	**Analysis Date..:**	02/13/08		
Prep Batch #...:	8043011	**Analysis Time..:**	17:03		
Dilution Factor:	1				
% Moisture.....:	29	**Method.....:**	SW846 8082		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	46	ug/kg
Aroclor 1221	ND	46	ug/kg
Aroclor 1232	ND	46	ug/kg
Aroclor 1242	ND	46	ug/kg
Aroclor 1248	ND	46	ug/kg
Aroclor 1254	**2300**	**46**	**ug/kg**
Aroclor 1260	ND	46	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	89	(31 - 127)
Decachlorobiphenyl	105	(23 - 141)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

ERM Group Inc, The

Client Sample ID: 68-B-P28-SS-G-(0-2.5)-(B-143-1)-02062008

TOTAL Metals

Lot-Sample #...: C8B090171-005
Date Sampled...: 02/06/08 Date Received..: 02/09/08
% Moisture.....: 29
Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8044242						
Mercury	0.22 J	0.046	mg/kg	SW846 7471A	02/13/08	KGWC11AJ
		Dilution Factor: 1		Analysis Time..: 16:55	MS Run #.....: 8044148	
Prep Batch #...: 8044357						
Silver	2.0	0.70	mg/kg	SW846 6010B	02/13-02/22/08	KGWC11AQ
		Dilution Factor: 1		Analysis Time..: 15:41	MS Run #.....: 8044208	
Aluminum	6170 J	28.0	mg/kg	SW846 6010B	02/13-02/22/08	KGWC11AR
		Dilution Factor: 1		Analysis Time..: 15:41	MS Run #.....: 8044208	
Arsenic	5.4	1.4	mg/kg	SW846 6010B	02/13-02/22/08	KGWC11AT
		Dilution Factor: 1		Analysis Time..: 15:41	MS Run #.....: 8044208	
Barium	321 J	28.0	mg/kg	SW846 6010B	02/13-02/22/08	KGWC11AU
		Dilution Factor: 1		Analysis Time..: 15:41	MS Run #.....: 8044208	
Beryllium	0.25 B	0.56	mg/kg	SW846 6010B	02/13-02/22/08	KGWC11AV
		Dilution Factor: 1		Analysis Time..: 15:41	MS Run #.....: 8044208	
Calcium	8570 J	701	mg/kg	SW846 6010B	02/13-02/22/08	KGWC11AW
		Dilution Factor: 1		Analysis Time..: 15:41	MS Run #.....: 8044208	
Cadmium	15.6	0.70	mg/kg	SW846 6010B	02/13-02/22/08	KGWC11AX
		Dilution Factor: 1		Analysis Time..: 15:41	MS Run #.....: 8044208	
Cobalt	6.3 B	7.0	mg/kg	SW846 6010B	02/13-02/22/08	KGWC11A0
		Dilution Factor: 1		Analysis Time..: 15:41	MS Run #.....: 8044208	
Chromium	104 J	0.70	mg/kg	SW846 6010B	02/13-02/22/08	KGWC11A1
		Dilution Factor: 1		Analysis Time..: 15:41	MS Run #.....: 8044208	
Copper	627	3.5	mg/kg	SW846 6010B	02/13-02/22/08	KGWC11A2
		Dilution Factor: 1		Analysis Time..: 15:41	MS Run #.....: 8044208	
Iron	56800	14.0	mg/kg	SW846 6010B	02/13-02/22/08	KGWC11A3
		Dilution Factor: 1		Analysis Time..: 15:41	MS Run #.....: 8044208	

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ERM Group Inc, The

Client Sample ID: 68-B-P28-SS-G-(0-2.5)-(B-143-1)-02062008

TOTAL Metals

Lot-Sample #...: C8B090171-005

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Potassium	308 B	701	mg/kg	SW846 6010B	02/13-02/22/08	KGWC11A4
		Dilution Factor: 1		Analysis Time..: 15:41	MS Run #.....: 8044208	
Magnesium	1100 J	701	mg/kg	SW846 6010B	02/13-02/22/08	KGWC11A5
		Dilution Factor: 1		Analysis Time..: 15:41	MS Run #.....: 8044208	
Manganese	513 J	2.1	mg/kg	SW846 6010B	02/13-02/22/08	KGWC11A6
		Dilution Factor: 1		Analysis Time..: 15:41	MS Run #.....: 8044208	
Sodium	135 B	701	mg/kg	SW846 6010B	02/13-02/22/08	KGWC11A7
		Dilution Factor: 1		Analysis Time..: 15:41	MS Run #.....: 8044208	
Nickel	46.8	5.6	mg/kg	SW846 6010B	02/13-02/22/08	KGWC11AA
		Dilution Factor: 1		Analysis Time..: 15:41	MS Run #.....: 8044208	
Lead	2590	2.1	mg/kg	SW846 6010B	02/13-02/25/08	KGWC11AC
		Dilution Factor: 5		Analysis Time..: 14:19	MS Run #.....: 8044208	
Selenium	4.2	0.70	mg/kg	SW846 6010B	02/13-02/22/08	KGWC11AD
		Dilution Factor: 1		Analysis Time..: 15:41	MS Run #.....: 8044208	
Thallium	ND	1.4	mg/kg	SW846 6010B	02/13-02/22/08	KGWC11AE
		Dilution Factor: 1		Analysis Time..: 15:41	MS Run #.....: 8044208	
Antimony	6.3	1.4	mg/kg	SW846 6010B	02/13-02/22/08	KGWC11AF
		Dilution Factor: 1		Analysis Time..: 15:41	MS Run #.....: 8044208	
Vanadium	18.0	7.0	mg/kg	SW846 6010B	02/13-02/22/08	KGWC11AG
		Dilution Factor: 1		Analysis Time..: 15:41	MS Run #.....: 8044208	
Zinc	1160 J	2.8	mg/kg	SW846 6010B	02/13-02/22/08	KGWC11AH
		Dilution Factor: 1		Analysis Time..: 15:41	MS Run #.....: 8044208	

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

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

B Estimated result. Result is less than RL.

ERM Group Inc, The

Client Sample ID: 68-B-P28-SS-G-(0-2.5)-(B-143-1)-02062008

General Chemistry

Lot-Sample #...: C8B090171-005 **Work Order #...:** KGWC1 **Matrix.....:** SOLID
Date Sampled...: 02/06/08 **Date Received..:** 02/09/08
% Moisture.....: 29

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**71.4**	**1.0**	**%**	**SM20 2540G**	**02/11-02/12/08**	**8042188**

Dilution Factor: 1 Analysis Time..: 00:00 MS Run #.....: 8042113

ERM Group Inc, The

Client Sample ID: 68-D-J25-SS-G-(0-2.5)-(B-36-1)-02042008

GC/MS Semivolatiles

Lot-Sample #...:	C8B090171-006	Work Order #...:	KGWC51AM	Matrix.....:	SOLID
Date Sampled...:	02/04/08	Date Received..:	02/09/08	MS Run #.....:	8043005
Prep Date.....:	02/12/08	Analysis Date..:	02/13/08		
Prep Batch #...:	8043013	Analysis Time..:	08:18		
Dilution Factor:	1				
% Moisture.....:	36	Method.....:	SW846 8270C		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acenaphthene	ND	520	ug/kg
Acenaphthylene	**300 J**	**520**	**ug/kg**
Acetophenone	ND	520	ug/kg
Anthracene	**300 J**	**520**	**ug/kg**
Atrazine	ND	520	ug/kg
Benzo(a)anthracene	**1200**	**520**	**ug/kg**
Benzo(a)pyrene	**1200**	**520**	**ug/kg**
Benzo(b)fluoranthene	**1600**	**520**	**ug/kg**
Benzo(ghi)perylene	**970**	**520**	**ug/kg**
Benzo(k)fluoranthene	**530**	**520**	**ug/kg**
Benzaldehyde	ND	520	ug/kg
1,1'-Biphenyl	**53 J**	**520**	**ug/kg**
bis(2-Chloroethoxy) methane	ND	520	ug/kg
bis(2-Chloroethyl)-ether	ND	520	ug/kg
bis(2-Ethylhexyl) phthalate	**21000 E**	**520**	**ug/kg**
4-Bromophenyl phenyl ether	ND	520	ug/kg
Butyl benzyl phthalate	**22000 E**	**520**	**ug/kg**
Caprolactam	ND	520	ug/kg
Carbazole	**78 J**	**520**	**ug/kg**
4-Chloroaniline	ND	520	ug/kg
4-Chloro-3-methylphenol	ND	520	ug/kg
2-Chloronaphthalene	ND	520	ug/kg
2-Chlorophenol	ND	520	ug/kg
4-Chlorophenyl phenyl ether	ND	520	ug/kg
Chrysene	**1400**	**520**	**ug/kg**
Dibenz(a,h)anthracene	**240 J**	**520**	**ug/kg**
Dibenzofuran	**33 J**	**520**	**ug/kg**
3,3'-Dichlorobenzidine	ND	2500	ug/kg
2,4-Dichlorophenol	ND	520	ug/kg
Diethyl phthalate	**230 J**	**520**	**ug/kg**
2,4-Dimethylphenol	ND	520	ug/kg
Dimethyl phthalate	ND	520	ug/kg
Di-n-butyl phthalate	**320 J**	**520**	**ug/kg**

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ERM Group Inc, The

Client Sample ID: 68-D-J25-SS-G-(0-2.5)-(B-36-1)-02042008

GC/MS Semivolatiles

Lot-Sample #...: C8B090171-006 **Work Order #...:** KGWC51AM **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4,6-Dinitro-2-methylphenol	ND	2500	ug/kg
2,4-Dinitrophenol	ND	2500	ug/kg
2,4-Dinitrotoluene	ND	520	ug/kg
2,6-Dinitrotoluene	ND	520	ug/kg
Di-n-octyl phthalate	ND	520	ug/kg
Fluoranthene	**1900**	**520**	**ug/kg**
Fluorene	**63 J**	**520**	**ug/kg**
Hexachlorobenzene	ND	520	ug/kg
Hexachlorobutadiene	ND	520	ug/kg
Hexachlorocyclopentadiene	ND	2500	ug/kg
Hexachloroethane	ND	520	ug/kg
Indeno(1,2,3-cd)pyrene	**770**	**520**	**ug/kg**
Isophorone	**2300**	**520**	**ug/kg**
2-Methylnaphthalene	**62 J**	**520**	**ug/kg**
2-Methylphenol	ND	520	ug/kg
4-Methylphenol	ND	520	ug/kg
Naphthalene	**100 J**	**520**	**ug/kg**
2-Nitroaniline	ND	2500	ug/kg
3-Nitroaniline	ND	2500	ug/kg
4-Nitroaniline	ND	2500	ug/kg
Nitrobenzene	ND	520	ug/kg
2-Nitrophenol	ND	520	ug/kg
4-Nitrophenol	ND	2500	ug/kg
N-Nitrosodi-n-propylamine	ND	520	ug/kg
N-Nitrosodiphenylamine	ND	520	ug/kg
2,2'-oxybis(1-Chloropropane)	ND	520	ug/kg
Pentachlorophenol	ND	2500	ug/kg
Phenanthrene	**880**	**520**	**ug/kg**
Phenol	ND	520	ug/kg
Pyrene	**2100**	**520**	**ug/kg**
2,4,5-Trichlorophenol	ND	520	ug/kg
2,4,6-Trichlorophenol	ND	520	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4,6-Tribromophenol	56	(10 - 117)
2-Fluorobiphenyl	52	(20 - 109)
2-Fluorophenol	49	(10 - 113)
Nitrobenzene-d5	53	(18 - 106)
Phenol-d5	49	(18 - 113)
Terphenyl-d14	55	(10 - 138)

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ERM Group Inc, The

Client Sample ID: 68-D-J25-SS-G-(0-2.5)-(B-36-1)-02042008

GC/MS Semivolatiles

Lot-Sample #...: C8B090171-006 Work Order #...: KGWC51AM Matrix.....: SOLID

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

E Estimated result. Result concentration exceeds the calibration range.

ERM Group Inc, The

Client Sample ID: 68-D-J25-SS-G-(0-2.5)-(B-36-1)-02042008

GC/MS Semivolatiles

Lot-Sample #...:	C8B090171-006	**Work Order #...:**	KGWC52AM	**Matrix.....:**	SOLID
Date Sampled...:	02/04/08	**Date Received..:**	02/09/08	**MS Run #.....:**	8043005
Prep Date.....:	02/12/08	**Analysis Date..:**	02/13/08		
Prep Batch #...:	8043013	**Analysis Time..:**	11:38		
Dilution Factor:	4				
% Moisture.....:	36	**Method.....:**	SW846 8270C		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acenaphthene	ND	2100	ug/kg
Acenaphthylene	**340 J**	**2100**	**ug/kg**
Acetophenone	ND	2100	ug/kg
Anthracene	**300 J**	**2100**	**ug/kg**
Atrazine	ND	2100	ug/kg
Benzo(a)anthracene	**1400 J**	**2100**	**ug/kg**
Benzo(a)pyrene	**1300 J**	**2100**	**ug/kg**
Benzo(b)fluoranthene	**1700 J**	**2100**	**ug/kg**
Benzo(ghi)perylene	**1100 J**	**2100**	**ug/kg**
Benzo(k)fluoranthene	**580 J**	**2100**	**ug/kg**
Benzaldehyde	ND	2100	ug/kg
1,1'-Biphenyl	ND	2100	ug/kg
bis(2-Chloroethoxy) methane	ND	2100	ug/kg
bis(2-Chloroethyl)-ether	ND	2100	ug/kg
bis(2-Ethylhexyl) phthalate	**21000**	**2100**	**ug/kg**
4-Bromophenyl phenyl ether	ND	2100	ug/kg
Butyl benzyl phthalate	**22000**	**2100**	**ug/kg**
Caprolactam	ND	2100	ug/kg
Carbazole	**85 J**	**2100**	**ug/kg**
4-Chloroaniline	ND	2100	ug/kg
4-Chloro-3-methylphenol	ND	2100	ug/kg
2-Chloronaphthalene	ND	2100	ug/kg
2-Chlorophenol	ND	2100	ug/kg
4-Chlorophenyl phenyl ether	ND	2100	ug/kg
Chrysene	**1400 J**	**2100**	**ug/kg**
Dibenz(a,h)anthracene	**270 J**	**2100**	**ug/kg**
Dibenzofuran	ND	2100	ug/kg
3,3'-Dichlorobenzidine	ND	10000	ug/kg
2,4-Dichlorophenol	ND	2100	ug/kg
Diethyl phthalate	**260 J**	**2100**	**ug/kg**
2,4-Dimethylphenol	ND	2100	ug/kg
Dimethyl phthalate	ND	2100	ug/kg
Di-n-butyl phthalate	**350 J**	**2100**	**ug/kg**

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ERM Group Inc, The

Client Sample ID: 68-D-J25-SS-G-(0-2.5)-(B-36-1)-02042008

GC/MS Semivolatiles

Lot-Sample #...: C8B090171-006 **Work Order #...:** KGWC52AM **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4,6-Dinitro-2-methylphenol	ND	10000	ug/kg
2,4-Dinitrophenol	ND	10000	ug/kg
2,4-Dinitrotoluene	ND	2100	ug/kg
2,6-Dinitrotoluene	ND	2100	ug/kg
Di-n-octyl phthalate	ND	2100	ug/kg
Fluoranthene	**2000 J**	**2100**	**ug/kg**
Fluorene	ND	2100	ug/kg
Hexachlorobenzene	ND	2100	ug/kg
Hexachlorobutadiene	ND	2100	ug/kg
Hexachlorocyclopentadiene	ND	10000	ug/kg
Hexachloroethane	ND	2100	ug/kg
Indeno(1,2,3-cd)pyrene	**760 J**	**2100**	**ug/kg**
Isophorone	**2500**	**2100**	**ug/kg**
2-Methylnaphthalene	ND	2100	ug/kg
2-Methylphenol	ND	2100	ug/kg
4-Methylphenol	ND	2100	ug/kg
Naphthalene	ND	2100	ug/kg
2-Nitroaniline	ND	10000	ug/kg
3-Nitroaniline	ND	10000	ug/kg
4-Nitroaniline	ND	10000	ug/kg
Nitrobenzene	ND	2100	ug/kg
2-Nitrophenol	ND	2100	ug/kg
4-Nitrophenol	ND	10000	ug/kg
N-Nitrosodi-n-propylamine	ND	2100	ug/kg
N-Nitrosodiphenylamine	ND	2100	ug/kg
2,2'-oxybis(1-Chloropropane)	ND	2100	ug/kg
Pentachlorophenol	ND	10000	ug/kg
Phenanthrene	**880 J**	**2100**	**ug/kg**
Phenol	ND	2100	ug/kg
Pyrene	**2200**	**2100**	**ug/kg**
2,4,5-Trichlorophenol	ND	2100	ug/kg
2,4,6-Trichlorophenol	ND	2100	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4,6-Tribromophenol	56	(10 - 117)
2-Fluorobiphenyl	55	(20 - 109)
2-Fluorophenol	51	(10 - 113)
Nitrobenzene-d5	57	(18 - 106)
Phenol-d5	53	(18 - 113)
Terphenyl-d14	58	(10 - 138)

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ERM Group Inc, The

Client Sample ID: 68-D-J25-SS-G-(0-2.5)-(B-36-1)-02042008

GC/MS Semivolatiles

Lot-Sample #...: C8B090171-006 Work Order #...: KGWC52AM Matrix.....: SOLID

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

ERM Group Inc, The

Client Sample ID: 68-D-J25-SS-G-(0-2.5)-(B-36-1)-02042008

GC Semivolatiles

Lot-Sample #...:	C8B090171-006	**Work Order #...:**	KGWC51AN	**Matrix.....:**	SOLID
Date Sampled...:	02/04/08	**Date Received..:**	02/09/08	**MS Run #.....:**	8043002
Prep Date.....:	02/12/08	**Analysis Date..:**	02/16/08		
Prep Batch #...:	8043010	**Analysis Time..:**	12:26		
Dilution Factor:	9.87				
% Moisture.....:	36	**Method.....:**	SW846 8081A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
alpha-BHC	ND	26	ug/kg
beta-BHC	ND	26	ug/kg
delta-BHC	ND	26	ug/kg
gamma-BHC (Lindane)	**26 PG**	**26**	**ug/kg**
Heptachlor	ND	26	ug/kg
Aldrin	ND	26	ug/kg
Heptachlor epoxide	**17 J,PG**	**26**	**ug/kg**
Endosulfan I	ND	26	ug/kg
Dieldrin	ND	26	ug/kg
4,4'-DDE	ND	26	ug/kg
Endrin	ND	26	ug/kg
Endrin ketone	ND	26	ug/kg
Endrin aldehyde	ND	26	ug/kg
Endosulfan II	ND	26	ug/kg
4,4'-DDD	ND	26	ug/kg
Endosulfan sulfate	**22 J,PG**	**26**	**ug/kg**
4,4'-DDT	ND	26	ug/kg
Methoxychlor	ND	51	ug/kg
alpha-Chlordane	**79**	**26**	**ug/kg**
gamma-Chlordane	**150 PG**	**26**	**ug/kg**
Toxaphene	ND	1000	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	NC,DIL	(31 - 131)
Decachlorobiphenyl	NC,DIL	(18 - 145)

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.

PG The percent difference between the original and confirmation analyses is greater than 40%.

J Estimated result. Result is less than RL.

ERM Group Inc, The

Client Sample ID: 68-D-J25-SS-G-(0-2.5)-(B-36-1)-02042008

GC Semivolatiles

Lot-Sample #...:	C8B090171-006	**Work Order #...:**	KGWC51AP	**Matrix.....:**	SOLID
Date Sampled...:	02/04/08	**Date Received..:**	02/09/08	**MS Run #.....:**	8043003
Prep Date.....:	02/12/08	**Analysis Date..:**	02/13/08		
Prep Batch #...:	8043011	**Analysis Time..:**	17:23		
Dilution Factor:	9.87				
% Moisture.....:	36	**Method.....:**	SW846 8082		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	**810**	**510**	**ug/kg**
Aroclor 1221	ND	510	ug/kg
Aroclor 1232	ND	510	ug/kg
Aroclor 1242	ND	510	ug/kg
Aroclor 1248	ND	510	ug/kg
Aroclor 1254	**9300**	**510**	**ug/kg**
Aroclor 1260	ND	510	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	NC,DIL	(31 - 127)
Decachlorobiphenyl	NC,DIL	(23 - 141)

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.

ERM Group Inc, The

Client Sample ID: 68-D-J25-SS-G-(0-2.5)-(B-36-1)-02042008

TOTAL Metals

Lot-Sample #...: C8B090171-006
Date Sampled...: 02/04/08 Date Received..: 02/09/08
% Moisture.....: 36
Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8044242						
Mercury	1.6 J	0.052	mg/kg	SW846 7471A	02/13/08	KGWC51AJ
		Dilution Factor: 1		Analysis Time..: 16:57	MS Run #.....: 8044148	
Prep Batch #...: 8044357						
Silver	0.41 B	0.78	mg/kg	SW846 6010B	02/13-02/22/08	KGWC51AQ
		Dilution Factor: 1		Analysis Time..: 15:47	MS Run #.....: 8044208	
Aluminum	3870 J	31.2	mg/kg	SW846 6010B	02/13-02/22/08	KGWC51AR
		Dilution Factor: 1		Analysis Time..: 15:47	MS Run #.....: 8044208	
Arsenic	19.4	1.6	mg/kg	SW846 6010B	02/13-02/22/08	KGWC51AT
		Dilution Factor: 1		Analysis Time..: 15:47	MS Run #.....: 8044208	
Barium	192 J	31.2	mg/kg	SW846 6010B	02/13-02/22/08	KGWC51AU
		Dilution Factor: 1		Analysis Time..: 15:47	MS Run #.....: 8044208	
Beryllium	0.43 B	0.62	mg/kg	SW846 6010B	02/13-02/22/08	KGWC51AV
		Dilution Factor: 1		Analysis Time..: 15:47	MS Run #.....: 8044208	
Calcium	5110 J	781	mg/kg	SW846 6010B	02/13-02/22/08	KGWC51AW
		Dilution Factor: 1		Analysis Time..: 15:47	MS Run #.....: 8044208	
Cadmium	0.68 B	0.78	mg/kg	SW846 6010B	02/13-02/22/08	KGWC51AX
		Dilution Factor: 1		Analysis Time..: 15:47	MS Run #.....: 8044208	
Cobalt	5.1 B	7.8	mg/kg	SW846 6010B	02/13-02/22/08	KGWC51A0
		Dilution Factor: 1		Analysis Time..: 15:47	MS Run #.....: 8044208	
Chromium	133 J	0.78	mg/kg	SW846 6010B	02/13-02/22/08	KGWC51A1
		Dilution Factor: 1		Analysis Time..: 15:47	MS Run #.....: 8044208	
Copper	69.7	3.9	mg/kg	SW846 6010B	02/13-02/22/08	KGWC51A2
		Dilution Factor: 1		Analysis Time..: 15:47	MS Run #.....: 8044208	
Iron	24700	15.6	mg/kg	SW846 6010B	02/13-02/22/08	KGWC51A3
		Dilution Factor: 1		Analysis Time..: 15:47	MS Run #.....: 8044208	

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ERM Group Inc, The

Client Sample ID: 68-D-J25-SS-G-(0-2.5)-(B-36-1)-02042008

TOTAL Metals

Lot-Sample #...: C8B090171-006 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Potassium	661 B	781	mg/kg	SW846 6010B	02/13-02/22/08	KGWC51A4
		Dilution Factor: 1		Analysis Time..: 15:47	MS Run #.....: 8044208	
Magnesium	641 B,J	781	mg/kg	SW846 6010B	02/13-02/22/08	KGWC51A5
		Dilution Factor: 1		Analysis Time..: 15:47	MS Run #.....: 8044208	
Manganese	196 J	2.3	mg/kg	SW846 6010B	02/13-02/22/08	KGWC51A6
		Dilution Factor: 1		Analysis Time..: 15:47	MS Run #.....: 8044208	
Sodium	24.6 B	781	mg/kg	SW846 6010B	02/13-02/22/08	KGWC51A7
		Dilution Factor: 1		Analysis Time..: 15:47	MS Run #.....: 8044208	
Nickel	115	6.2	mg/kg	SW846 6010B	02/13-02/22/08	KGWC51AA
		Dilution Factor: 1		Analysis Time..: 15:47	MS Run #.....: 8044208	
Lead	155	0.47	mg/kg	SW846 6010B	02/13-02/22/08	KGWC51AC
		Dilution Factor: 1		Analysis Time..: 15:47	MS Run #.....: 8044208	
Selenium	1.9	0.78	mg/kg	SW846 6010B	02/13-02/22/08	KGWC51AD
		Dilution Factor: 1		Analysis Time..: 15:47	MS Run #.....: 8044208	
Thallium	ND	1.6	mg/kg	SW846 6010B	02/13-02/22/08	KGWC51AE
		Dilution Factor: 1		Analysis Time..: 15:47	MS Run #.....: 8044208	
Antimony	2.1	1.6	mg/kg	SW846 6010B	02/13-02/22/08	KGWC51AF
		Dilution Factor: 1		Analysis Time..: 15:47	MS Run #.....: 8044208	
Vanadium	24.2	7.8	mg/kg	SW846 6010B	02/13-02/22/08	KGWC51AG
		Dilution Factor: 1		Analysis Time..: 15:47	MS Run #.....: 8044208	
Zinc	351 J	3.1	mg/kg	SW846 6010B	02/13-02/22/08	KGWC51AH
		Dilution Factor: 1		Analysis Time..: 15:47	MS Run #.....: 8044208	

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

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

B Estimated result. Result is less than RL.

ERM Group Inc, The

Client Sample ID: 68-D-J25-SS-G-(0-2.5)-(B-36-1)-02042008

General Chemistry

Lot-Sample #...: C8B090171-006 **Work Order #...:** KGWC5 **Matrix.....:** SOLID
Date Sampled...: 02/04/08 **Date Received..:** 02/09/08
% Moisture.....: 36

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**64.1**	**1.0**	**%**	**SM20 2540G**	**02/11-02/12/08**	**8042188**

Dilution Factor: 1 Analysis Time..: 00:00 MS Run #.....: 8042113

ERM Group Inc, The

Client Sample ID: 68-C-G24-SS-G-(0-2.5)-(A-17)-02042008

GC/MS Semivolatiles

Lot-Sample #...:	C8B090171-007	**Work Order #...:**	KGWC61AD	**Matrix.....:**	SOLID
Date Sampled...:	02/04/08	**Date Received..:**	02/09/08	**MS Run #.....:**	8043005
Prep Date.....:	02/12/08	**Analysis Date..:**	02/13/08		
Prep Batch #...:	8043013	**Analysis Time..:**	09:15		
Dilution Factor:	2				
% Moisture.....:	36	**Method.....:**	SW846 8270C		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acenaphthene	**480 J**	**1000**	**ug/kg**
Acenaphthylene	**71 J**	**1000**	**ug/kg**
Acetophenone	ND	1000	ug/kg
Anthracene	**1200**	**1000**	**ug/kg**
Atrazine	ND	1000	ug/kg
Benzo(a)anthracene	**4300**	**1000**	**ug/kg**
Benzo(a)pyrene	**3600**	**1000**	**ug/kg**
Benzo(b)fluoranthene	**6400**	**1000**	**ug/kg**
Benzo(ghi)perylene	**2600**	**1000**	**ug/kg**
Benzo(k)fluoranthene	ND	1000	ug/kg
Benzaldehyde	ND	1000	ug/kg
1,1'-Biphenyl	ND	1000	ug/kg
bis(2-Chloroethoxy) methane	ND	1000	ug/kg
bis(2-Chloroethyl)-ether	ND	1000	ug/kg
bis(2-Ethylhexyl) phthalate	**4300**	**1000**	**ug/kg**
4-Bromophenyl phenyl ether	ND	1000	ug/kg
Butyl benzyl phthalate	**48000 E**	**1000**	**ug/kg**
Caprolactam	ND	1000	ug/kg
Carbazole	**930 J**	**1000**	**ug/kg**
4-Chloroaniline	ND	1000	ug/kg
4-Chloro-3-methylphenol	ND	1000	ug/kg
2-Chloronaphthalene	ND	1000	ug/kg
2-Chlorophenol	ND	1000	ug/kg
4-Chlorophenyl phenyl ether	ND	1000	ug/kg
Chrysene	**4200**	**1000**	**ug/kg**
Dibenz(a,h)anthracene	**640 J**	**1000**	**ug/kg**
Dibenzofuran	**250 J**	**1000**	**ug/kg**
3,3'-Dichlorobenzidine	ND	5000	ug/kg
2,4-Dichlorophenol	ND	1000	ug/kg
Diethyl phthalate	ND	1000	ug/kg
2,4-Dimethylphenol	ND	1000	ug/kg
Dimethyl phthalate	ND	1000	ug/kg
Di-n-butyl phthalate	ND	1000	ug/kg

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ERM Group Inc, The

Client Sample ID: 68-C-G24-SS-G-(0-2.5)-(A-17)-02042008

GC/MS Semivolatiles

Lot-Sample #...: C8B090171-007 **Work Order #...:** KGWC61AD **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4,6-Dinitro-2-methylphenol	ND	5000	ug/kg
2,4-Dinitrophenol	ND	5000	ug/kg
2,4-Dinitrotoluene	ND	1000	ug/kg
2,6-Dinitrotoluene	ND	1000	ug/kg
Di-n-octyl phthalate	ND	1000	ug/kg
Fluoranthene	**10000**	**1000**	**ug/kg**
Fluorene	**420 J**	**1000**	**ug/kg**
Hexachlorobenzene	ND	1000	ug/kg
Hexachlorobutadiene	ND	1000	ug/kg
Hexachlorocyclopentadiene	ND	5000	ug/kg
Hexachloroethane	ND	1000	ug/kg
Indeno(1,2,3-cd)pyrene	**2200**	**1000**	**ug/kg**
Isophorone	ND	1000	ug/kg
2-Methylnaphthalene	**94 J**	**1000**	**ug/kg**
2-Methylphenol	ND	1000	ug/kg
4-Methylphenol	ND	1000	ug/kg
Naphthalene	**210 J**	**1000**	**ug/kg**
2-Nitroaniline	ND	5000	ug/kg
3-Nitroaniline	ND	5000	ug/kg
4-Nitroaniline	ND	5000	ug/kg
Nitrobenzene	ND	1000	ug/kg
2-Nitrophenol	ND	1000	ug/kg
4-Nitrophenol	ND	5000	ug/kg
N-Nitrosodi-n-propylamine	ND	1000	ug/kg
N-Nitrosodiphenylamine	ND	1000	ug/kg
2,2'-oxybis(1-Chloropropane)	ND	1000	ug/kg
Pentachlorophenol	ND	5000	ug/kg
Phenanthrene	**5400**	**1000**	**ug/kg**
Phenol	ND	1000	ug/kg
Pyrene	**6900**	**1000**	**ug/kg**
2,4,5-Trichlorophenol	ND	1000	ug/kg
2,4,6-Trichlorophenol	ND	1000	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4,6-Tribromophenol	47	(10 - 117)
2-Fluorobiphenyl	42	(20 - 109)
2-Fluorophenol	43	(10 - 113)
Nitrobenzene-d5	44	(18 - 106)
Phenol-d5	43	(18 - 113)
Terphenyl-d14	45	(10 - 138)

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ERM Group Inc, The

Client Sample ID: 68-C-G24-SS-G-(0-2.5)-(A-17)-02042008

GC/MS Semivolatiles

Lot-Sample #...: C8B090171-007 Work Order #...: KGWC61AD Matrix.....: SOLID

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

E Estimated result. Result concentration exceeds the calibration range.

ERM Group Inc, The

Client Sample ID: 68-C-G24-SS-G-(0-2.5)-(A-17)-02042008

GC/MS Semivolatiles

Lot-Sample #...:	C8B090171-007	**Work Order #...:**	KGWC62AD	**Matrix.....:**	SOLID
Date Sampled...:	02/04/08	**Date Received..:**	02/09/08	**MS Run #.....:**	8043005
Prep Date.....:	02/12/08	**Analysis Date..:**	02/13/08		
Prep Batch #...:	8043013	**Analysis Time..:**	12:06		
Dilution Factor:	10				
% Moisture.....:	36	**Method.....:**	SW846 8270C		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acenaphthene	**630 J**	**5200**	**ug/kg**
Acenaphthylene	ND	5200	ug/kg
Acetophenone	ND	5200	ug/kg
Anthracene	**1400 J**	**5200**	**ug/kg**
Atrazine	ND	5200	ug/kg
Benzo(a)anthracene	**5300**	**5200**	**ug/kg**
Benzo(a)pyrene	**4200 J**	**5200**	**ug/kg**
Benzo(b)fluoranthene	**7800**	**5200**	**ug/kg**
Benzo(ghi)perylene	**3000 J**	**5200**	**ug/kg**
Benzo(k)fluoranthene	ND	5200	ug/kg
Benzaldehyde	ND	5200	ug/kg
1,1'-Biphenyl	ND	5200	ug/kg
bis(2-Chloroethoxy) methane	ND	5200	ug/kg
bis(2-Chloroethyl)-ether	ND	5200	ug/kg
bis(2-Ethylhexyl) phthalate	**5300**	**5200**	**ug/kg**
4-Bromophenyl phenyl ether	ND	5200	ug/kg
Butyl benzyl phthalate	**54000**	**5200**	**ug/kg**
Caprolactam	ND	5200	ug/kg
Carbazole	**1000 J**	**5200**	**ug/kg**
4-Chloroaniline	ND	5200	ug/kg
4-Chloro-3-methylphenol	ND	5200	ug/kg
2-Chloronaphthalene	ND	5200	ug/kg
2-Chlorophenol	ND	5200	ug/kg
4-Chlorophenyl phenyl ether	ND	5200	ug/kg
Chrysene	**5200**	**5200**	**ug/kg**
Dibenz(a,h)anthracene	**770 J**	**5200**	**ug/kg**
Dibenzofuran	**300 J**	**5200**	**ug/kg**
3,3'-Dichlorobenzidine	ND	25000	ug/kg
2,4-Dichlorophenol	ND	5200	ug/kg
Diethyl phthalate	ND	5200	ug/kg
2,4-Dimethylphenol	ND	5200	ug/kg
Dimethyl phthalate	ND	5200	ug/kg
Di-n-butyl phthalate	ND	5200	ug/kg

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ERM Group Inc, The

Client Sample ID: 68-C-G24-SS-G-(0-2.5)-(A-17)-02042008

GC/MS Semivolatiles

Lot-Sample #...: C8B090171-007 **Work Order #...:** KGWC62AD **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4,6-Dinitro-2-methylphenol	ND	25000	ug/kg
2,4-Dinitrophenol	ND	25000	ug/kg
2,4-Dinitrotoluene	ND	5200	ug/kg
2,6-Dinitrotoluene	ND	5200	ug/kg
Di-n-octyl phthalate	ND	5200	ug/kg
Fluoranthene	**12000**	**5200**	**ug/kg**
Fluorene	**400 J**	**5200**	**ug/kg**
Hexachlorobenzene	ND	5200	ug/kg
Hexachlorobutadiene	ND	5200	ug/kg
Hexachlorocyclopentadiene	ND	25000	ug/kg
Hexachloroethane	ND	5200	ug/kg
Indeno(1,2,3-cd)pyrene	**2600 J**	**5200**	**ug/kg**
Isophorone	ND	5200	ug/kg
2-Methylnaphthalene	ND	5200	ug/kg
2-Methylphenol	ND	5200	ug/kg
4-Methylphenol	ND	5200	ug/kg
Naphthalene	ND	5200	ug/kg
2-Nitroaniline	ND	25000	ug/kg
3-Nitroaniline	ND	25000	ug/kg
4-Nitroaniline	ND	25000	ug/kg
Nitrobenzene	ND	5200	ug/kg
2-Nitrophenol	ND	5200	ug/kg
4-Nitrophenol	ND	25000	ug/kg
N-Nitrosodi-n-propylamine	ND	5200	ug/kg
N-Nitrosodiphenylamine	ND	5200	ug/kg
2,2'-oxybis(1-Chloropropane)	ND	5200	ug/kg
Pentachlorophenol	ND	25000	ug/kg
Phenanthrene	**6000**	**5200**	**ug/kg**
Phenol	ND	5200	ug/kg
Pyrene	**8200**	**5200**	**ug/kg**
2,4,5-Trichlorophenol	ND	5200	ug/kg
2,4,6-Trichlorophenol	ND	5200	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4,6-Tribromophenol	54	(10 - 117)
2-Fluorobiphenyl	52	(20 - 109)
2-Fluorophenol	46	(10 - 113)
Nitrobenzene-d5	54	(18 - 106)
Phenol-d5	52	(18 - 113)
Terphenyl-d14	55	(10 - 138)

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ERM Group Inc, The

Client Sample ID: 68-C-G24-SS-G-(0-2.5)-(A-17)-02042008

GC/MS Semivolatiles

Lot-Sample #...: C8B090171-007 **Work Order #...:** KGWC62AD **Matrix.....:** SOLID

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

ERM Group Inc, The

Client Sample ID: 68-C-G24-SS-G-(0-2.5)-(A-17)-02042008

GC Semivolatiles

Lot-Sample #...:	C8B090171-007	**Work Order #...:**	KGWC61AE	**Matrix.....:**	SOLID
Date Sampled...:	02/04/08	**Date Received..:**	02/09/08	**MS Run #.....:**	8043002
Prep Date.....:	02/12/08	**Analysis Date..:**	02/16/08		
Prep Batch #...:	8043010	**Analysis Time..:**	12:44		
Dilution Factor:	20				
% Moisture.....:	36	**Method.....:**	SW846 8081A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
alpha-BHC	ND	53	ug/kg
beta-BHC	ND	53	ug/kg
delta-BHC	ND	53	ug/kg
gamma-BHC (Lindane)	ND	53	ug/kg
Heptachlor	ND	53	ug/kg
Aldrin	ND	53	ug/kg
Heptachlor epoxide	**16 J,PG**	**53**	**ug/kg**
Endosulfan I	ND	53	ug/kg
Dieldrin	ND	53	ug/kg
4,4'-DDE	ND	53	ug/kg
Endrin	ND	53	ug/kg
Endrin ketone	ND	53	ug/kg
Endrin aldehyde	ND	53	ug/kg
Endosulfan II	ND	53	ug/kg
4,4'-DDD	ND	53	ug/kg
Endosulfan sulfate	**39 J,PG**	**53**	**ug/kg**
4,4'-DDT	ND	53	ug/kg
Methoxychlor	ND	100	ug/kg
alpha-Chlordane	**43 J,PG**	**53**	**ug/kg**
gamma-Chlordane	**66 PG**	**53**	**ug/kg**
Toxaphene	ND	2100	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	NC,DIL	(31 - 131)
Decachlorobiphenyl	NC,DIL	(18 - 145)

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.

J Estimated result. Result is less than RL.

PG The percent difference between the original and confirmation analyses is greater than 40%.

ERM Group Inc, The

Client Sample ID: 68-C-G24-SS-G-(0-2.5)-(A-17)-02042008

GC Semivolatiles

Lot-Sample #...:	C8B090171-007	**Work Order #...:**	KGWC61AF	**Matrix.....:**	SOLID
Date Sampled...:	02/04/08	**Date Received..:**	02/09/08	**MS Run #.....:**	8043003
Prep Date.....:	02/12/08	**Analysis Date..:**	02/13/08		
Prep Batch #...:	8043011	**Analysis Time..:**	17:43		
Dilution Factor:	1				
% Moisture.....:	36	**Method.....:**	SW846 8082		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	**63**	**52**	**ug/kg**
Aroclor 1221	ND	52	ug/kg
Aroclor 1232	ND	52	ug/kg
Aroclor 1242	ND	52	ug/kg
Aroclor 1248	ND	52	ug/kg
Aroclor 1254	**590**	**52**	**ug/kg**
Aroclor 1260	ND	52	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	91	(31 - 127)
Decachlorobiphenyl	105	(23 - 141)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

ERM Group Inc, The

Client Sample ID: 68-C-G24-SS-G-(0-2.5)-(A-17)-02042008

TOTAL Metals

Lot-Sample #...: C8B090171-007
Date Sampled...: 02/04/08 Date Received..: 02/09/08 Matrix.....: SOLID
% Moisture.....: 36

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8044242						
Mercury	**0.45 J**	**0.052**	**mg/kg**	**SW846 7471A**	**02/13/08**	**KGWC61A7**
		Dilution Factor: 1		Analysis Time..: 16:58	MS Run #.....: 8044148	
Prep Batch #...: 8044357						
Silver	ND	3.9	mg/kg	SW846 6010B	02/13-02/25/08	KGWC61AG
		Dilution Factor: 5		Analysis Time..: 14:24	MS Run #.....: 8044208	
Aluminum	**6890 J**	**31.5**	**mg/kg**	**SW846 6010B**	**02/13-02/22/08**	**KGWC61AH**
		Dilution Factor: 1		Analysis Time..: 15:52	MS Run #.....: 8044208	
Arsenic	**26.4**	**1.6**	**mg/kg**	**SW846 6010B**	**02/13-02/22/08**	**KGWC61AJ**
		Dilution Factor: 1		Analysis Time..: 15:52	MS Run #.....: 8044208	
Barium	**1320 J**	**31.5**	**mg/kg**	**SW846 6010B**	**02/13-02/22/08**	**KGWC61AK**
		Dilution Factor: 1		Analysis Time..: 15:52	MS Run #.....: 8044208	
Beryllium	**5.9**	**0.63**	**mg/kg**	**SW846 6010B**	**02/13-02/22/08**	**KGWC61AL**
		Dilution Factor: 1		Analysis Time..: 15:52	MS Run #.....: 8044208	
Calcium	**10900 J**	**786**	**mg/kg**	**SW846 6010B**	**02/13-02/22/08**	**KGWC61AM**
		Dilution Factor: 1		Analysis Time..: 15:52	MS Run #.....: 8044208	
Cadmium	**8.6**	**0.79**	**mg/kg**	**SW846 6010B**	**02/13-02/22/08**	**KGWC61AN**
		Dilution Factor: 1		Analysis Time..: 15:52	MS Run #.....: 8044208	
Cobalt	**14.7**	**7.9**	**mg/kg**	**SW846 6010B**	**02/13-02/22/08**	**KGWC61AP**
		Dilution Factor: 1		Analysis Time..: 15:52	MS Run #.....: 8044208	
Chromium	**184 J**	**0.79**	**mg/kg**	**SW846 6010B**	**02/13-02/22/08**	**KGWC61AQ**
		Dilution Factor: 1		Analysis Time..: 15:52	MS Run #.....: 8044208	
Copper	**690**	**3.9**	**mg/kg**	**SW846 6010B**	**02/13-02/22/08**	**KGWC61AR**
		Dilution Factor: 1		Analysis Time..: 15:52	MS Run #.....: 8044208	
Iron	**28100**	**15.7**	**mg/kg**	**SW846 6010B**	**02/13-02/22/08**	**KGWC61AT**
		Dilution Factor: 1		Analysis Time..: 15:52	MS Run #.....: 8044208	

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ERM Group Inc, The

Client Sample ID: 68-C-G24-SS-G-(0-2.5)-(A-17)-02042008

TOTAL Metals

Lot-Sample #...: C8B090171-007

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Potassium	668 B	786	mg/kg	SW846 6010B	02/13-02/22/08	KGWC61AU
		Dilution Factor: 1		Analysis Time..: 15:52	MS Run #.....: 8044208	
Magnesium	1690 J	786	mg/kg	SW846 6010B	02/13-02/22/08	KGWC61AV
		Dilution Factor: 1		Analysis Time..: 15:52	MS Run #.....: 8044208	
Manganese	543 J	2.4	mg/kg	SW846 6010B	02/13-02/22/08	KGWC61AW
		Dilution Factor: 1		Analysis Time..: 15:52	MS Run #.....: 8044208	
Sodium	ND	786	mg/kg	SW846 6010B	02/13-02/22/08	KGWC61AX
		Dilution Factor: 1		Analysis Time..: 15:52	MS Run #.....: 8044208	
Nickel	140	6.3	mg/kg	SW846 6010B	02/13-02/22/08	KGWC61A0
		Dilution Factor: 1		Analysis Time..: 15:52	MS Run #.....: 8044208	
Lead	489	0.47	mg/kg	SW846 6010B	02/13-02/22/08	KGWC61A1
		Dilution Factor: 1		Analysis Time..: 15:52	MS Run #.....: 8044208	
Selenium	ND	0.79	mg/kg	SW846 6010B	02/13-02/22/08	KGWC61A2
		Dilution Factor: 1		Analysis Time..: 15:52	MS Run #.....: 8044208	
Thallium	ND	1.6	mg/kg	SW846 6010B	02/13-02/22/08	KGWC61A3
		Dilution Factor: 1		Analysis Time..: 15:52	MS Run #.....: 8044208	
Antimony	6.7	1.6	mg/kg	SW846 6010B	02/13-02/22/08	KGWC61A4
		Dilution Factor: 1		Analysis Time..: 15:52	MS Run #.....: 8044208	
Vanadium	25.8	7.9	mg/kg	SW846 6010B	02/13-02/22/08	KGWC61A5
		Dilution Factor: 1		Analysis Time..: 15:52	MS Run #.....: 8044208	
Zinc	3170 J	15.7	mg/kg	SW846 6010B	02/13-02/25/08	KGWC61A6
		Dilution Factor: 5		Analysis Time..: 14:24	MS Run #.....: 8044208	

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

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

B Estimated result. Result is less than RL.

ERM Group Inc, The

Client Sample ID: 68-C-G24-SS-G-(0-2.5)-(A-17)-02042008

General Chemistry

Lot-Sample #...: C8B090171-007 Work Order #...: KGWC6 Matrix.....: SOLID
Date Sampled...: 02/04/08 Date Received..: 02/09/08
% Moisture.....: 36

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	63.6	1.0	%	SM20 2540G	02/11-02/12/08	8042188

Dilution Factor: 1 Analysis Time..: 00:00 MS Run #.....: 8042113

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: C8B090171
MB Lot-Sample #: C8B130000-061
Work Order #...: KG1H11AA
Matrix.....: SOLID
Prep Date.....: 02/13/08
Analysis Date..: 02/13/08
Prep Batch #...: 8044061
Analysis Time..: 07:48
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	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	5.0	ug/kg	SW846 8260B
2-Butanone	ND	5.0	ug/kg	SW846 8260B
Carbon disulfide	ND	5.0	ug/kg	SW846 8260B
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260B
Chlorobenzene	ND	5.0	ug/kg	SW846 8260B
Chloroethane	ND	5.0	ug/kg	SW846 8260B
Chloroform	ND	5.0	ug/kg	SW846 8260B
Chloromethane	ND	5.0	ug/kg	SW846 8260B
Cyclohexane	ND	5.0	ug/kg	SW846 8260B
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	5.0	ug/kg	SW846 8260B
1,2-Dibromoethane	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
1,2-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
Dichlorodifluoromethane	ND	5.0	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
cis-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
trans-1,2-Dichloroethene	ND	5.0	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	5.0	ug/kg	SW846 8260B
Isopropylbenzene	ND	5.0	ug/kg	SW846 8260B
Methyl acetate	ND	5.0	ug/kg	SW846 8260B
Methylene chloride	ND	5.0	ug/kg	SW846 8260B
Methylcyclohexane	ND	5.0	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/kg	SW846 8260B
Methyl tert-butyl ether	ND	5.0	ug/kg	SW846 8260B
Styrene	ND	5.0	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: C8B090171 **Work Order #...:** KG1H11AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Tetrachloroethene	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
Trichlorofluoromethane	ND	5.0	ug/kg	SW846 8260B
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0	ug/kg	SW846 8260B
Toluene	ND	5.0	ug/kg	SW846 8260B
Vinyl chloride	ND	5.0	ug/kg	SW846 8260B
Xylenes (total)	ND	15	ug/kg	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	85	(52 - 124)
Toluene-d8	90	(72 - 127)
4-Bromofluorobenzene	76	(63 - 120)
Dibromofluoromethane	82	(68 - 121)

NOTE(S):

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

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: C8B090171 **Work Order #...:** KGXP71AA **Matrix.....:** SOLID
MB Lot-Sample #: C8B120000-013

Prep Date.....: 02/12/08 **Analysis Time..:** 01:37
Analysis Date..: 02/13/08 **Prep Batch #...:** 8043013
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
Anthracene	ND	330	ug/kg	SW846 8270C
Atrazine	ND	330	ug/kg	SW846 8270C
Benzo(a)anthracene	ND	330	ug/kg	SW846 8270C
Benzo(a)pyrene	ND	330	ug/kg	SW846 8270C
Benzo(b)fluoranthene	ND	330	ug/kg	SW846 8270C
Benzo(ghi)perylene	ND	330	ug/kg	SW846 8270C
Benzo(k)fluoranthene	ND	330	ug/kg	SW846 8270C
Benzaldehyde	ND	330	ug/kg	SW846 8270C
1,1'-Biphenyl	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
Caprolactam	ND	330	ug/kg	SW846 8270C
Carbazole	ND	330	ug/kg	SW846 8270C
4-Chloroaniline	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
Dibenz(a,h)anthracene	ND	330	ug/kg	SW846 8270C
Dibenzofuran	ND	330	ug/kg	SW846 8270C
3,3'-Dichlorobenzidine	ND	1600	ug/kg	SW846 8270C
2,4-Dichlorophenol	ND	330	ug/kg	SW846 8270C
Diethyl phthalate	ND	330	ug/kg	SW846 8270C
2,4-Dimethylphenol	ND	330	ug/kg	SW846 8270C
Dimethyl phthalate	ND	330	ug/kg	SW846 8270C
Di-n-butyl phthalate	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

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: C8B090171 **Work Order #...:** KGXP71AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
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
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
Indeno(1,2,3-cd)pyrene	ND	330	ug/kg	SW846 8270C
Isophorone	ND	330	ug/kg	SW846 8270C
2-Methylnaphthalene	ND	330	ug/kg	SW846 8270C
2-Methylphenol	ND	330	ug/kg	SW846 8270C
4-Methylphenol	ND	330	ug/kg	SW846 8270C
Naphthalene	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
2-Nitrophenol	ND	330	ug/kg	SW846 8270C
4-Nitrophenol	ND	1600	ug/kg	SW846 8270C
N-Nitrosodi-n-propyl-amine	ND	330	ug/kg	SW846 8270C
N-Nitrosodiphenylamine	ND	330	ug/kg	SW846 8270C
2,2'-oxybis(1-Chloropropa	ND	330	ug/kg	SW846 8270C
Pentachlorophenol	ND	1600	ug/kg	SW846 8270C
Phenanthrene	ND	330	ug/kg	SW846 8270C
Phenol	ND	330	ug/kg	SW846 8270C
Pyrene	ND	330	ug/kg	SW846 8270C
2,4,5-Trichloro-phenol	ND	330	ug/kg	SW846 8270C
2,4,6-Trichloro-phenol	ND	330	ug/kg	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4,6-Tribromophenol	64	(10 - 117)
2-Fluorobiphenyl	57	(20 - 109)
2-Fluorophenol	51	(10 - 113)
Nitrobenzene-d5	59	(18 - 106)
Phenol-d5	55	(18 - 113)
Terphenyl-d14	75	(10 - 138)

NOTE(S):

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

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: C8B090171
MB Lot-Sample #: C8B120000-010
Work Order #...: KGXP41AA
Matrix.....: SOLID
Prep Date.....: 02/12/08
Analysis Time..: 13:38
Analysis Date..: 02/16/08
Prep Batch #...: 8043010
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
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
Heptachlor	ND	1.7	ug/kg	SW846 8081A
Aldrin	ND	1.7	ug/kg	SW846 8081A
Heptachlor epoxide	ND	1.7	ug/kg	SW846 8081A
Endosulfan I	ND	1.7	ug/kg	SW846 8081A
Dieldrin	ND	1.7	ug/kg	SW846 8081A
4,4'-DDE	ND	1.7	ug/kg	SW846 8081A
Endrin	ND	1.7	ug/kg	SW846 8081A
Endrin ketone	ND	1.7	ug/kg	SW846 8081A
Endrin aldehyde	ND	1.7	ug/kg	SW846 8081A
Endosulfan II	ND	1.7	ug/kg	SW846 8081A
4,4'-DDD	ND	1.7	ug/kg	SW846 8081A
Endosulfan sulfate	ND	1.7	ug/kg	SW846 8081A
4,4'-DDT	ND	1.7	ug/kg	SW846 8081A
Methoxychlor	ND	3.3	ug/kg	SW846 8081A
alpha-Chlordane	ND	1.7	ug/kg	SW846 8081A
gamma-Chlordane	ND	1.7	ug/kg	SW846 8081A
Toxaphene	ND	67	ug/kg	SW846 8081A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	82	(31 - 131)
Decachlorobiphenyl	92	(18 - 145)

NOTE(S):

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

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: C8B090171
MB Lot-Sample #: C8B120000-011
Work Order #...: KGXP51AA
Matrix.....: SOLID
Prep Date.....: 02/12/08
Analysis Date..: 02/13/08
Prep Batch #...: 8043011
Analysis Time..: 20:42
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	33	ug/kg	SW846 8082
Aroclor 1221	ND	33	ug/kg	SW846 8082
Aroclor 1232	ND	33	ug/kg	SW846 8082
Aroclor 1242	ND	33	ug/kg	SW846 8082
Aroclor 1248	ND	33	ug/kg	SW846 8082
Aroclor 1254	ND	33	ug/kg	SW846 8082
Aroclor 1260	ND	33	ug/kg	SW846 8082

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	92	(31 - 127)
Decachlorobiphenyl	94	(23 - 141)

NOTE(S):

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

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: C8B090171

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: C8B130000-242 **Prep Batch #...:** 8044242						
Mercury	**0.012 B**	**0.033**	**mg/kg**	**SW846 7471A**	**02/13/08**	**KG11J1AA**
		Dilution Factor: 1				
		Analysis Time..: 16:38				
MB Lot-Sample #: C8B130000-357 **Prep Batch #...:** 8044357						
Silver	ND	0.50	mg/kg	SW846 6010B	02/13-02/22/08	KG2KQ1AP
		Dilution Factor: 1				
		Analysis Time..: 14:19				
Aluminum	**1.4 B**	**20.0**	**mg/kg**	**SW846 6010B**	**02/13-02/22/08**	**KG2KQ1A8**
		Dilution Factor: 1				
		Analysis Time..: 14:19				
Arsenic	ND	1.0	mg/kg	SW846 6010B	02/13-02/22/08	KG2KQ1AJ
		Dilution Factor: 1				
		Analysis Time..: 14:19				
Barium	**0.12 B**	**20.0**	**mg/kg**	**SW846 6010B**	**02/13-02/22/08**	**KG2KQ1AC**
		Dilution Factor: 1				
		Analysis Time..: 14:19				
Beryllium	ND	0.40	mg/kg	SW846 6010B	02/13-02/22/08	KG2KQ1AE
		Dilution Factor: 1				
		Analysis Time..: 14:19				
Calcium	**25.2 B**	**500**	**mg/kg**	**SW846 6010B**	**02/13-02/22/08**	**KG2KQ1A9**
		Dilution Factor: 1				
		Analysis Time..: 14:19				
Cadmium	ND	0.50	mg/kg	SW846 6010B	02/13-02/22/08	KG2KQ1AK
		Dilution Factor: 1				
		Analysis Time..: 14:19				
Cobalt	ND	5.0	mg/kg	SW846 6010B	02/13-02/22/08	KG2KQ1CA
		Dilution Factor: 1				
		Analysis Time..: 14:19				
Chromium	**0.10 B**	**0.50**	**mg/kg**	**SW846 6010B**	**02/13-02/22/08**	**KG2KQ1AL**
		Dilution Factor: 1				
		Analysis Time..: 14:19				

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: C8B090171

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	ND	2.5	mg/kg	SW846 6010B	02/13-02/22/08	KG2KQ1AG
		Dilution Factor: 1				
		Analysis Time..: 14:19				
Iron	ND	10.0	mg/kg	SW846 6010B	02/13-02/22/08	KG2KQ1CC
		Dilution Factor: 1				
		Analysis Time..: 14:19				
Potassium	ND	500	mg/kg	SW846 6010B	02/13-02/22/08	KG2KQ1CD
		Dilution Factor: 1				
		Analysis Time..: 14:19				
Magnesium	**8.6 B**	**500**	**mg/kg**	**SW846 6010B**	**02/13-02/22/08**	**KG2KQ1CE**
		Dilution Factor: 1				
		Analysis Time..: 14:19				
Manganese	**0.041 B**	**1.5**	**mg/kg**	**SW846 6010B**	**02/13-02/22/08**	**KG2KQ1CF**
		Dilution Factor: 1				
		Analysis Time..: 14:19				
Sodium	ND	500	mg/kg	SW846 6010B	02/13-02/22/08	KG2KQ1CG
		Dilution Factor: 1				
		Analysis Time..: 14:19				
Nickel	ND	4.0	mg/kg	SW846 6010B	02/13-02/22/08	KG2KQ1AF
		Dilution Factor: 1				
		Analysis Time..: 14:19				
Lead	ND	0.30	mg/kg	SW846 6010B	02/13-02/22/08	KG2KQ1AM
		Dilution Factor: 1				
		Analysis Time..: 14:19				
Selenium	ND	0.50	mg/kg	SW846 6010B	02/13-02/22/08	KG2KQ1AN
		Dilution Factor: 1				
		Analysis Time..: 14:19				
Thallium	ND	1.0	mg/kg	SW846 6010B	02/13-02/22/08	KG2KQ1AQ
		Dilution Factor: 1				
		Analysis Time..: 14:19				
Antimony	ND	1.0	mg/kg	SW846 6010B	02/13-02/22/08	KG2KQ1AH
		Dilution Factor: 1				
		Analysis Time..: 14:19				
Vanadium	ND	5.0	mg/kg	SW846 6010B	02/13-02/22/08	KG2KQ1AA
		Dilution Factor: 1				
		Analysis Time..: 14:19				

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: C8B090171

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc	**0.45 B**	**2.0**	**mg/kg**	**SW846 6010B**	**02/13-02/22/08**	**KG2KQ1AD**

Dilution Factor: 1

Analysis Time..: 14:19

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

GC/MS Volatiles

Client Lot #...: C8B090171 **Work Order #...:** KG1H11AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: C8B130000-061 KG1H11AD-LCSD
Prep Date.....: 02/13/08 **Analysis Date..:** 02/13/08
Prep Batch #...: 8044061 **Analysis Time..:** 08:36
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	**94**	**(77 - 120)**			**SW846 8260B**
	96	**(77 - 120)**	**1.5**	**(0-20)**	**SW846 8260B**
Chlorobenzene	**100**	**(79 - 120)**			**SW846 8260B**
	102	**(79 - 120)**	**1.5**	**(0-20)**	**SW846 8260B**
1,1-Dichloroethene	**100**	**(59 - 129)**			**SW846 8260B**
	104	**(59 - 129)**	**3.2**	**(0-25)**	**SW846 8260B**
Trichloroethene	**97**	**(76 - 119)**			**SW846 8260B**
	95	**(76 - 119)**	**2.4**	**(0-21)**	**SW846 8260B**
Toluene	**100**	**(78 - 124)**			**SW846 8260B**
	101	**(78 - 124)**	**1.6**	**(0-21)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	87	(52 - 124)
	85	(52 - 124)
Toluene-d8	94	(72 - 127)
	97	(72 - 127)
4-Bromofluorobenzene	81	(63 - 120)
	81	(63 - 120)
Dibromofluoromethane	87	(68 - 121)
	85	(68 - 121)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: C8B090171 **Work Order #...:** KGXP71AC **Matrix.....:** SOLID
LCS Lot-Sample#: C8B120000-013
Prep Date.....: 02/12/08 **Analysis Date..:** 02/13/08
Prep Batch #...: 8043013 **Analysis Time..:** 02:06
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Acenaphthene	**64**	**(38 - 112)**	**SW846 8270C**
1,2,4-Trichloro-benzene	**60**	**(37 - 111)**	**SW846 8270C**
1,4-Dichlorobenzene	**58**	**(36 - 107)**	**SW846 8270C**
4-Bromophenyl phenyl ether	**67**	**(46 - 120)**	**SW846 8270C**
Butyl benzyl phthalate	**64**	**(47 - 115)**	**SW846 8270C**
4-Chloro-3-methylphenol	**72**	**(39 - 111)**	**SW846 8270C**
2-Chlorophenol	**61**	**(38 - 109)**	**SW846 8270C**
2,4-Dinitrotoluene	**78**	**(35 - 117)**	**SW846 8270C**
Hexachloroethane	**58**	**(40 - 106)**	**SW846 8270C**
4-Methylphenol	**63**	**(41 - 117)**	**SW846 8270C**
Naphthalene	**58**	**(44 - 109)**	**SW846 8270C**
4-Nitrophenol	**74**	**(30 - 125)**	**SW846 8270C**
N-Nitrosodi-n-propyl-amine	**63**	**(36 - 114)**	**SW846 8270C**
Pentachlorophenol	**73**	**(21 - 127)**	**SW846 8270C**
Phenol	**63**	**(36 - 110)**	**SW846 8270C**
Pyrene	**63**	**(43 - 118)**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4,6-Tribromophenol	75	(10 - 117)
2-Fluorobiphenyl	64	(20 - 109)
2-Fluorophenol	60	(10 - 113)
Nitrobenzene-d5	64	(18 - 106)
Phenol-d5	63	(18 - 113)
Terphenyl-d14	73	(10 - 138)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: C8B090171
LCS Lot-Sample#: C8B120000-010
Prep Date.....: 02/12/08
Prep Batch #...: 8043010
Dilution Factor: 1

Work Order #...: KGXP41AC
Analysis Date..: 02/16/08
Analysis Time..: 13:56

Matrix.....: SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
gamma-BHC (Lindane)	**98**	**(66 - 124)**	**SW846 8081A**
Heptachlor	**90**	**(73 - 128)**	**SW846 8081A**
Aldrin	**98**	**(75 - 123)**	**SW846 8081A**
Dieldrin	**96**	**(76 - 123)**	**SW846 8081A**
Endrin	**92**	**(77 - 127)**	**SW846 8081A**
4,4'-DDT	**66**	**(61 - 126)**	**SW846 8081A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	95	(31 - 131)
Decachlorobiphenyl	94	(18 - 145)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: C8B090171 **Work Order #...:** KGXP51AC **Matrix.....:** SOLID
LCS Lot-Sample#: C8B120000-011
Prep Date.....: 02/12/08 **Analysis Date..:** 02/13/08
Prep Batch #...: 8043011 **Analysis Time..:** 21:01
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Aroclor 1016	**79**	**(55 - 117)**	**SW846 8082**
Aroclor 1260	**95**	**(54 - 117)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	93	(31 - 127)
Decachlorobiphenyl	98	(23 - 141)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: C8B090171 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: C8B130000-242 **Prep Batch #...:** 8044242					
Mercury	93	(80 - 120)	SW846 7471A	02/13/08	KG11J1AC
		Dilution Factor: 1	Analysis Time..: 16:40		
LCS Lot-Sample#: C8B130000-357 **Prep Batch #...:** 8044357					
Silver	99	(80 - 120)	SW846 6010B	02/13-02/22/08	KG2KQ1A6
		Dilution Factor: 1	Analysis Time..: 14:24		
Aluminum	97	(80 - 120)	SW846 6010B	02/13-02/22/08	KG2KQ1CH
		Dilution Factor: 1	Analysis Time..: 14:24		
Arsenic	92	(80 - 120)	SW846 6010B	02/13-02/22/08	KG2KQ1A1
		Dilution Factor: 1	Analysis Time..: 14:24		
Barium	94	(80 - 120)	SW846 6010B	02/13-02/22/08	KG2KQ1AT
		Dilution Factor: 1	Analysis Time..: 14:24		
Beryllium	93	(80 - 120)	SW846 6010B	02/13-02/22/08	KG2KQ1AV
		Dilution Factor: 1	Analysis Time..: 14:24		
Calcium	95	(80 - 120)	SW846 6010B	02/13-02/22/08	KG2KQ1CJ
		Dilution Factor: 1	Analysis Time..: 14:24		
Cadmium	93	(80 - 120)	SW846 6010B	02/13-02/22/08	KG2KQ1A2
		Dilution Factor: 1	Analysis Time..: 14:24		
Cobalt	93	(80 - 120)	SW846 6010B	02/13-02/22/08	KG2KQ1CK
		Dilution Factor: 1	Analysis Time..: 14:24		
Chromium	96	(80 - 120)	SW846 6010B	02/13-02/22/08	KG2KQ1A3
		Dilution Factor: 1	Analysis Time..: 14:24		
Copper	99	(80 - 120)	SW846 6010B	02/13-02/22/08	KG2KQ1AX
		Dilution Factor: 1	Analysis Time..: 14:24		
Iron	92	(80 - 120)	SW846 6010B	02/13-02/22/08	KG2KQ1CL
		Dilution Factor: 1	Analysis Time..: 14:24		
Potassium	102	(80 - 120)	SW846 6010B	02/13-02/22/08	KG2KQ1CM
		Dilution Factor: 1	Analysis Time..: 14:24		

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: C8B090171 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	92	(80 - 120)	SW846 6010B	02/13-02/22/08	KG2KQ1CN
		Dilution Factor: 1	Analysis Time..: 14:24		
Manganese	96	(80 - 120)	SW846 6010B	02/13-02/22/08	KG2KQ1CP
		Dilution Factor: 1	Analysis Time..: 14:24		
Sodium	94	(80 - 120)	SW846 6010B	02/13-02/22/08	KG2KQ1CQ
		Dilution Factor: 1	Analysis Time..: 14:24		
Nickel	94	(80 - 120)	SW846 6010B	02/13-02/22/08	KG2KQ1AW
		Dilution Factor: 1	Analysis Time..: 14:24		
Lead	94	(80 - 120)	SW846 6010B	02/13-02/22/08	KG2KQ1A4
		Dilution Factor: 1	Analysis Time..: 14:24		
Selenium	90	(80 - 120)	SW846 6010B	02/13-02/22/08	KG2KQ1A5
		Dilution Factor: 1	Analysis Time..: 14:24		
Thallium	93	(80 - 120)	SW846 6010B	02/13-02/22/08	KG2KQ1A7
		Dilution Factor: 1	Analysis Time..: 14:24		
Antimony	94	(80 - 120)	SW846 6010B	02/13-02/22/08	KG2KQ1A0
		Dilution Factor: 1	Analysis Time..: 14:24		
Vanadium	96	(80 - 120)	SW846 6010B	02/13-02/22/08	KG2KQ1AR
		Dilution Factor: 1	Analysis Time..: 14:24		
Zinc	99	(80 - 120)	SW846 6010B	02/13-02/22/08	KG2KQ1AU
		Dilution Factor: 1	Analysis Time..: 14:24		

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...:	C8B090171	**Work Order #...:**	KGWCN1A8-MS KGWCN1A9-MSD	**Matrix.....:**	SOLID
MS Lot-Sample #:	C8B090171-001				
Date Sampled...:	02/06/08	**Date Received..:**	02/09/08	**MS Run #.....:**	8043005
Prep Date.....:	02/12/08	**Analysis Date..:**	02/13/08		
Prep Batch #...:	8043013	**Analysis Time..:**	03:03		
Dilution Factor:	1	**% Moisture.....:**	26		

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acenaphthene	48	(15 - 130)			SW846 8270C
	44	(15 - 130)	7.4	(0-50)	SW846 8270C
1,2,4-Trichloro-benzene	42	(21 - 118)			SW846 8270C
	40	(21 - 118)	5.9	(0-49)	SW846 8270C
1,4-Dichlorobenzene	34	(20 - 105)			SW846 8270C
	35	(20 - 105)	1.7	(0-62)	SW846 8270C
4-Bromophenyl phenyl ether	48	(27 - 136)			SW846 8270C
	44	(27 - 136)	7.2	(0-48)	SW846 8270C
Butyl benzyl phthalate	45	(27 - 130)			SW846 8270C
	44	(27 - 130)	2.2	(0-48)	SW846 8270C
4-Chloro-3-methylphenol	53	(16 - 128)			SW846 8270C
	51	(16 - 128)	3.6	(0-52)	SW846 8270C
2-Chlorophenol	42	(16 - 120)			SW846 8270C
	43	(16 - 120)	2.6	(0-54)	SW846 8270C
2,4-Dinitrotoluene	54	(15 - 132)			SW846 8270C
	52	(15 - 132)	5.1	(0-49)	SW846 8270C
Hexachloroethane	33	(13 - 111)			SW846 8270C
	35	(13 - 111)	5.6	(0-63)	SW846 8270C
4-Methylphenol	48	(17 - 131)			SW846 8270C
	48	(17 - 131)	0.86	(0-50)	SW846 8270C
Naphthalene	42	(10 - 140)			SW846 8270C
	40	(10 - 140)	3.4	(0-56)	SW846 8270C
4-Nitrophenol	56	(10 - 154)			SW846 8270C
	55	(10 - 154)	2.9	(0-88)	SW846 8270C
N-Nitrosodi-n-propyl-amine	45	(30 - 118)			SW846 8270C
	46	(30 - 118)	1.3	(0-51)	SW846 8270C
Pentachlorophenol	47	(10 - 136)			SW846 8270C
	45	(10 - 136)	4.0	(0-123)	SW846 8270C
Phenol	43	(19 - 119)			SW846 8270C
	42	(19 - 119)	2.2	(0-50)	SW846 8270C
Pyrene	46	(10 - 168)			SW846 8270C
	44	(10 - 168)	3.5	(0-69)	SW846 8270C

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: C8B090171 **Work Order #...:** KGWCN1A8-MS **Matrix.....:** SOLID
MS Lot-Sample #: C8B090171-001 KGWCN1A9-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4,6-Tribromophenol	55	(10 - 117)
	51	(10 - 117)
2-Fluorobiphenyl	47	(20 - 109)
	45	(20 - 109)
2-Fluorophenol	41	(10 - 113)
	40	(10 - 113)
Nitrobenzene-d5	45	(18 - 106)
	44	(18 - 106)
Phenol-d5	43	(18 - 113)
	44	(18 - 113)
Terphenyl-d14	51	(10 - 138)
	50	(10 - 138)

NOTE(S):

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

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...:	C8B090171	**Work Order #...:**	KGWC61A8-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	C8B090171-007		KGWC61A9-MSD		
Date Sampled...:	02/04/08	**Date Received..:**	02/09/08	**MS Run #.....:**	8043002
Prep Date.....:	02/12/08	**Analysis Date..:**	02/16/08		
Prep Batch #...:	8043010	**Analysis Time..:**	13:02		
Dilution Factor:	20	**% Moisture.....:**	36		

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
gamma-BHC (Lindane)	**NC,DIL**	**(11 - 129)**			**SW846 8081A**
	NC,DIL	**(11 - 129)**		**(0-75)**	**SW846 8081A**
Heptachlor	**NC,DIL**	**(43 - 133)**			**SW846 8081A**
	NC,DIL	**(43 - 133)**		**(0-36)**	**SW846 8081A**
Aldrin	**NC,DIL**	**(40 - 135)**			**SW846 8081A**
	NC,DIL	**(40 - 135)**		**(0-37)**	**SW846 8081A**
Dieldrin	**NC,DIL**	**(34 - 138)**			**SW846 8081A**
	NC,DIL	**(34 - 138)**		**(0-39)**	**SW846 8081A**
Endrin	**NC,DIL**	**(37 - 141)**			**SW846 8081A**
	NC,DIL	**(37 - 141)**		**(0-43)**	**SW846 8081A**
4,4'-DDT	**NC,DIL**	**(10 - 155)**			**SW846 8081A**
	NC,DIL	**(10 - 155)**		**(0-71)**	**SW846 8081A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	NC,DIL	(31 - 131)
	NC,DIL	(31 - 131)
Decachlorobiphenyl	NC,DIL	(18 - 145)
	NC,DIL	(18 - 145)

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 EVALUATION REPORT

GC Semivolatiles

Client Lot #...:	C8B090171	**Work Order #...:**	KGWC61CA-MS KGWC61CC-MSD	**Matrix.....:**	SOLID
MS Lot-Sample #:	C8B090171-007				
Date Sampled...:	02/04/08	**Date Received..:**	02/09/08	**MS Run #.....:**	8043003
Prep Date.....:	02/12/08	**Analysis Date..:**	02/13/08		
Prep Batch #...:	8043011	**Analysis Time..:**	18:03		
Dilution Factor:	1	**% Moisture.....:**	36		

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Aroclor 1016	**69**	**(10 - 183)**			**SW846 8082**
	67	**(10 - 183)**	**2.6**	**(0-39)**	**SW846 8082**
Aroclor 1260	**103**	**(25 - 143)**			**SW846 8082**
	103	**(25 - 143)**	**0.14**	**(0-34)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	86	(31 - 127)
	86	(31 - 127)
Decachlorobiphenyl	109	(23 - 141)
	103	(23 - 141)

NOTE(S):

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

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: C8B090171
Date Sampled...: 02/06/08 **Date Received..:** 02/09/08
Matrix.....: SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: C8B090171-001 **Prep Batch #...:** 8044242							
						% Moisture.....: 26	
Mercury	82	(75 - 125)			SW846 7471A	02/13/08	KGWCN1CA
	87	(75 - 125)	4.1	(0-20)	SW846 7471A	02/13/08	KGWCN1CC

Dilution Factor: 1
Analysis Time..: 16:43
MS Run #.....: 8044148

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 #...: C8B090171 **Matrix.....:** SOLID
Date Sampled...: 02/08/08 **Date Received..:** 02/09/08

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: C8B090123-001 **Prep Batch #...:** 8044357							
						% Moisture.....: 17	
Silver	91	(75 - 125)			SW846 6010B	02/13-02/22/08	KGVJ61C2
	96	(75 - 125)	5.2	(0-20)	SW846 6010B	02/13-02/22/08	KGVJ61C3
		Dilution Factor: 1					
		Analysis Time..: 14:41					
		MS Run #.....: 8044208					
Aluminum	NC	(75 - 125)			SW846 6010B	02/13-02/22/08	KGVJ61C7
	NC	(75 - 125)		(0-20)	SW846 6010B	02/13-02/22/08	KGVJ61C8
		Dilution Factor: 1					
		Analysis Time..: 14:41					
		MS Run #.....: 8044208					
Arsenic	72 N	(75 - 125)			SW846 6010B	02/13-02/22/08	KGVJ61CP
	63 N	(75 - 125)	12	(0-20)	SW846 6010B	02/13-02/22/08	KGVJ61CQ
		Dilution Factor: 1					
		Analysis Time..: 14:41					
		MS Run #.....: 8044208					
Barium	87	(75 - 125)			SW846 6010B	02/13-02/22/08	KGVJ61CA
	91	(75 - 125)	3.2	(0-20)	SW846 6010B	02/13-02/22/08	KGVJ61CC
		Dilution Factor: 1					
		Analysis Time..: 14:41					
		MS Run #.....: 8044208					
Beryllium	87	(75 - 125)			SW846 6010B	02/13-02/22/08	KGVJ61CF
	91	(75 - 125)	4.1	(0-20)	SW846 6010B	02/13-02/22/08	KGVJ61CG
		Dilution Factor: 1					
		Analysis Time..: 14:41					
		MS Run #.....: 8044208					
Calcium	83	(75 - 125)			SW846 6010B	02/13-02/22/08	KGVJ61DA
	87	(75 - 125)	3.6	(0-20)	SW846 6010B	02/13-02/22/08	KGVJ61DC
		Dilution Factor: 1					
		Analysis Time..: 14:41					
		MS Run #.....: 8044208					
Cadmium	89	(75 - 125)			SW846 6010B	02/13-02/22/08	KGVJ61CR
	84	(75 - 125)	5.2	(0-20)	SW846 6010B	02/13-02/22/08	KGVJ61CT
		Dilution Factor: 1					
		Analysis Time..: 14:41					
		MS Run #.....: 8044208					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: C8B090171 **Matrix.....:** SOLID
Date Sampled...: 02/08/08 **Date Received..:** 02/09/08

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	84	(75 - 125)			SW846 6010B	02/13-02/22/08	KGVJ61DE
	88	(75 - 125)	4.5	(0-20)	SW846 6010B	02/13-02/22/08	KGVJ61DF
		Dilution Factor: 1					
		Analysis Time..: 14:41					
		MS Run #.....: 8044208					
Chromium	141 N	(75 - 125)			SW846 6010B	02/13-02/22/08	KGVJ61CU
	92 *	(75 - 125)	23	(0-20)	SW846 6010B	02/13-02/22/08	KGVJ61CV
		Dilution Factor: 1					
		Analysis Time..: 14:41					
		MS Run #.....: 8044208					
Copper	95	(75 - 125)			SW846 6010B	02/13-02/22/08	KGVJ61CK
	97	(75 - 125)	2.4	(0-20)	SW846 6010B	02/13-02/22/08	KGVJ61CL
		Dilution Factor: 1					
		Analysis Time..: 14:41					
		MS Run #.....: 8044208					
Iron	NC	(75 - 125)			SW846 6010B	02/13-02/22/08	KGVJ61DH
	NC	(75 - 125)		(0-20)	SW846 6010B	02/13-02/22/08	KGVJ61DJ
		Dilution Factor: 1					
		Analysis Time..: 14:41					
		MS Run #.....: 8044208					
Potassium	88	(75 - 125)			SW846 6010B	02/13-02/22/08	KGVJ61DL
	89	(75 - 125)	1.1	(0-20)	SW846 6010B	02/13-02/22/08	KGVJ61DM
		Dilution Factor: 1					
		Analysis Time..: 14:41					
		MS Run #.....: 8044208					
Magnesium	86	(75 - 125)			SW846 6010B	02/13-02/22/08	KGVJ61DP
	89	(75 - 125)	3.8	(0-20)	SW846 6010B	02/13-02/22/08	KGVJ61DQ
		Dilution Factor: 1					
		Analysis Time..: 14:41					
		MS Run #.....: 8044208					
Manganese	71 N	(75 - 125)			SW846 6010B	02/13-02/22/08	KGVJ61DT
	66 N	(75 - 125)	2.4	(0-20)	SW846 6010B	02/13-02/22/08	KGVJ61DU
		Dilution Factor: 1					
		Analysis Time..: 14:41					
		MS Run #.....: 8044208					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: C8B090171 **Matrix.....:** SOLID
Date Sampled...: 02/08/08 **Date Received..:** 02/09/08

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Sodium	85	(75 - 125)			SW846 6010B	02/13-02/22/08	KGVJ61DW
	89	(75 - 125)	4.4	(0-20)	SW846 6010B	02/13-02/22/08	KGVJ61DX
		Dilution Factor: 1					
		Analysis Time..: 14:41					
		MS Run #.....: 8044208					
Nickel	74 N	(75 - 125)			SW846 6010B	02/13-02/22/08	KGVJ61CH
	71 N	(75 - 125)	3.2	(0-20)	SW846 6010B	02/13-02/22/08	KGVJ61CJ
		Dilution Factor: 1					
		Analysis Time..: 14:41					
		MS Run #.....: 8044208					
Lead	82	(75 - 125)			SW846 6010B	02/13-02/22/08	KGVJ61CW
	85	(75 - 125)	3.2	(0-20)	SW846 6010B	02/13-02/22/08	KGVJ61CX
		Dilution Factor: 1					
		Analysis Time..: 14:41					
		MS Run #.....: 8044208					
Selenium	69 N	(75 - 125)			SW846 6010B	02/13-02/22/08	KGVJ61C0
	75	(75 - 125)	9.2	(0-20)	SW846 6010B	02/13-02/22/08	KGVJ61C1
		Dilution Factor: 1					
		Analysis Time..: 14:41					
		MS Run #.....: 8044208					
Thallium	79	(75 - 125)			SW846 6010B	02/13-02/22/08	KGVJ61C4
	84	(75 - 125)	6.4	(0-20)	SW846 6010B	02/13-02/22/08	KGVJ61C5
		Dilution Factor: 1					
		Analysis Time..: 14:41					
		MS Run #.....: 8044208					
Antimony	24 N	(75 - 125)			SW846 6010B	02/13-02/22/08	KGVJ61CM
	32 N,*	(75 - 125)	30	(0-20)	SW846 6010B	02/13-02/22/08	KGVJ61CN
		Dilution Factor: 1					
		Analysis Time..: 14:41					
		MS Run #.....: 8044208					
Vanadium	95	(75 - 125)			SW846 6010B	02/13-02/22/08	KGVJ61A8
	90	(75 - 125)	3.3	(0-20)	SW846 6010B	02/13-02/22/08	KGVJ61A9
		Dilution Factor: 1					
		Analysis Time..: 14:41					
		MS Run #.....: 8044208					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: C8B090171 **Matrix.....:** SOLID
Date Sampled...: 02/08/08 **Date Received..:** 02/09/08

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc	102	(75 - 125)			SW846 6010B	02/13-02/22/08	KGVJ61CD
	101	(75 - 125)	0.43	(0-20)	SW846 6010B	02/13-02/22/08	KGVJ61CE

Dilution Factor: 1
Analysis Time..: 14:41
MS Run #.....: 8044208

NOTE(S):

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

NC The recovery and/or RPD were not calculated.

Results and reporting limits have been adjusted for dry weight.

N Spiked analyte recovery is outside stated control limits.

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

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: C8B090171 **Work Order #...:** KGPTM-SMP KGPTM-DUP **Matrix.....:** SOLID

Date Sampled...: 02/06/08 **Date Received..:** 02/07/08

% Moisture.....: 22

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #:	C8B070237-006	
	77.7	78.1	%	0.63	(0-20)	SM20 2540G	02/11-02/12/08	8042188

Dilution Factor: 1 Analysis Time..: 00:00 MS Run Number..: 8042113

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

ERM/68th Street Landfill

Lot #: C8B130194

Daniel Hoadley

The ERM Group Inc
200 Harry S Truman Pkwy
Suite 400
Annapolis, MD 21401

TESTAMERICA LABORATORIES, INC.

Kathryn L. Bort
Project Manager

March 7, 2008

NELAC REPORTING:

At the time of analysis the laboratory was in compliance with the current NELAC standards and held accreditation for all analyses performed unless noted by a qualifier. The labs accreditation numbers are listed below. The format and contents of the report meets all applicable NELAC standards except as noted in the narrative and shall not be reproduced except in full, without the written approval of the laboratory. The table below presents a summary of the certifications held by TestAmerica Pittsburgh. Our primary accreditation authority for the Non-potable water and Solid & Hazardous waste programs is Pennsylvania DEP. A more detailed parameter list is available upon request. Please ask your project manager for this information when required.

Certifying State/Program	Certificate #	Program Types	TestAmerica
NFESC	NA	NAVY	X
US Dept of Agriculture	(#P330-07-00101)	Foreign Soil Import Permit	X
Arkansas	(#03-022-1)	WW	X
		HW	X
California – NELAC	04224CA	WW	X
		HW	X
Connecticut	(#PH-0688)	WW	X
		HW	X
Florida – NELAC	(#E87660)	WW	X
		HW	X
Illinois – NELAC	(#200005)	WW	X
		HW	X
Kansas – NELAC	(#E-10350)	WW	X
		HW	X
Louisiana – NELAC	(#93200)	WW	X
		HW	X
New Hampshire – NELAC	(#203002)	WW	X
		--	--
New Jersey – NELAC	(PA-005)	WW	X
		HW	X
New York – NELAC	(#11182)	WW	X
		HW	X
North Carolina	(#434)	WW	X
		HW	X
Pennsylvania - NELAC	(#02-00416)	WW	X
		HW	X
South Carolina	(#89014001)	WW	X
		HW	X
Utah – NELAC	(STLP)	WW	X
		HW	X
West Virginia	(#142)	WW	X
		HW	X
Wisconsin	998027800	WW	X
		HW	X

The codes utilized for program types are described below:

HW Hazardous Waste certification
WW Non-potable Water and/or Wastewater certification
X Laboratory has some form of certification under the specific program. Many states certify laboratories for specific parameters or tests within a category. The information in the table indicates the lab is certified in a general category of testing. Please contact the laboratory if parameter specific certification information is required.

Updated: 12/28/07 C:\Documents and Settings\derubeisn\My Documents\NELAC NARRATIVE Pttsburgh.doc

CASE NARRATIVE
ERM INC

Lot # C8B130194

Sample Receiving:
TestAmerica Pittsburgh received samples on February 13, 2008. The cooler was received within the proper temperature range.

If project specific QC was not required for samples contained in this report, and batch QC was completed on these samples, anomalous results are discussed below.

GC/MS Volatiles :
All non-CCC compounds that have >15% RSD were evaluated to see if a better curve could be drawn using a quadratic curve. All compounds <30% RSD will use an average response factor curve if no visible improvement is accomplished using a quadratic curve. A quadratic curve will be used for a compound where it is determined to be the "best-fit" evaluation.

The method blank for batch 8045053 had methylene chloride detected between the MDL and the reporting limit. The result was flagged with a "J" qualifier. Any sample in this batch that had this compound detected had the result flagged with a "B"qualifier.

The %D in calibration verification standard, CC70219, was > 25% for the following compounds: 1,2-dibromo-3-chloropropane (29.0%), acrolein (33.6%), dichlorodifluoromethane (30.5%), and methyl acetate (27.1%). These are within expected performance range.

GC/MS Semivolatiles:
All non-CCC compounds that have >15% RSD were evaluated to see if a better curve could be drawn using a quadratic curve. All compounds <30% RSD will use an average response factor curve if no visible improvement is accomplished using a quadratic curve. A quadratic curve will be used for a compound where it is determined to be the "best-fit" evaluation.

Due to matrix, sample 68-E-Q15-SS-G-(0-0.25)-(C-8-2)-02112008 had a final extract volume of 5.0-mls instead of 0.5-mls. The reporting limits were adjusted accordingly.

Pesticides:
All compounds <20% RSD will use an average response factor curve if no visible improvement is accomplished using a curve. A curve will be used for a compound where it is determined to be the "best-fit" evaluation.

Samples 68-E-N15-SS-G-(0-0.25)-(B-75-1)-02122008 and 68-E-Q15-SS-G-(0-0.25)-(C-8-2)-02112008 were analyzed at a dilution due to matrix.

Pesticides (cont):
Sample 68-E-Q15-SS-G-(0-0.25)-(C-8-2)-02112008 had the surrogates diluted out.

The ending continuing calibration standard did not meet criteria. The samples were re-analyzed with the ending continuing calibration standard again not meeting criteria confirming matrix interference. Only one set of results are reported.

PCBs:
QC limits for decachlorobiphenyl exceeded the CCV for file Y0280450 (21.7%) and Y0280483(18.8%). PCBs were not detected in the samples and the data is reportable as per SOP.

Metals:
Sample 68-E-N5-SS-G-(0-0.25)-(B-75-1)-02122008 was over the instruments linear range for aluminum and copper and required a dilution. This sample was analyzed at a dilution for lead due to inter-element corrections associated with aluminum.

Sample 68-E-Q15-SS-G-(0-0.25)-(C-8-2)-02112008 was over the instruments linear range for lead and zinc and required a dilution.

The method blanks have analytes detected at concentrations between the MDL and the reporting limit. The results are flagged with a "B" qualifier. Results for analytes detected in samples associated with the method blanks are flagged with a "J" qualifier.

For the matrix spike and matrix spike duplicate, aluminum, chromium, copper, iron, manganese, lead, and zinc recoveries were not calculated due to the concentration of analyte in the sample being >4 times the concentration of spike added.

The matrix spike duplicate recovered outside of the control limits for cobalt and nickel.

The matrix spike and matrix spike duplicate recovered outside of the control limits for antimony.

The relative percent difference between the matrix spike and the matrix spike duplicate was outside of the control limits for cobalt and nickel.

General Chemistry:
There were no problems associated with the analysis.

METHODS SUMMARY

C8B130194

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Mercury in Liquid Waste (Manual Cold-Vapor)	SW846 7470A	SW846 7470A
Mercury in Solid Waste (Manual Cold-Vapor)	SW846 7471A	SW846 7471A
Organochlorine Pesticides	SW846 8081A	SW846 3510C
Organochlorine Pesticides	SW846 8081A	SW846 3541
PCBs by SW-846 8082	SW846 8082	SW846 3510C
PCBs by SW-846 8082	SW846 8082	SW846 3541
Semivolatile Organic Compounds by GC/MS	SW846 8270C	SW846 3520C
Semivolatile Organic Compounds by GC/MS	SW846 8270C	SW846 3541
Total Residue as Percent Solids	SM20 2540G	
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B	SW846 3010A
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B	SW846 3050B
Volatile Organics by GC/MS	SW846 8260B	SW846 5030B/826
Volatile Organics by GC/MS	SW846 8260B	SW846 5035

References:

SM20 "STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER", 20TH EDITION."

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

SAMPLE SUMMARY

C8B130194

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
KG2AP	001	68-A-Z2-SW-G-02122008	02/12/08	11:30
KG2C3	002	68-A-Z3-SW-G-02122008	02/12/08	12:20
KG2C7	003	68-A-Z1-SW-G-02122008	02/12/08	12:30
KG2DD	004	68-E-N15-SS-G-(0-0.25)-(B-75-1)-02122008	02/12/08	14:15
KG2ED	005	68-E-Q15-SS-G-(0-0.25)-(C-8-2)-02112008	02/12/08	11:30

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.

C8B130194

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☐

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

4124 (0907)

Client: ERM, Inc.	Project Manager: Darren Quillen	Date: 2/12/08	Chain of Custody Number: 410296
Address: 200 Harry S. Truman Pkwy, Suite 400	Telephone Number (Area Code)/Fax Number: 410-266-0006 / 410-266-8912	Lab Number: C8B130194	Page 1 of 1
City: Annapolis; State: MD; Zip Code: 21401	Site Contact: Dan Hoadley	Lab Contact: Ken Ives	
Project Name and Location (State): 68th Street EECA, Baltimore, MD	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.: 0049608.33.02			

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	DI water	Analysis (Attach list if more space is needed): 8260B	8270C	6010B	8082	8081B								Special Instructions/ Conditions of Receipt
Z2	2/12/08	1130		X				X		X	X				X	X	X	X	X								- soil samples in
Z3	2/12/08	1220		X				X		X	X				X	X	X	X	X								terra-core sample vials
Z1	2/12/08	1230		X							X				X												w/ DI water + sodium
B-75-1	2/12/08	1415				X		X						X	X	X	X	X	X								bisulfate preservative
B-75-1 MS/MSD	2/12/08	1415/1435				X		X						X	X	X	X	X	X								
C-8-2	2/11/08	1130				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 _____ 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: Megan Kenny	2/12/08	1605	1. Received By: [signature]	2-12-08	1605
2. Relinquished By: [signature]	2-12-08	1617	2. Received By: [signature]	2/13/8	1130
3. Relinquished By:			3. Received By:		

Comments:

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

AR100641

Table 1: Chain of Custody Sample IDs to Reportable Sample IDs

Sample ID Chain of Custody	Sample ID Reportable
C-8-2	68-E-Q15-SS-G-(0-0.25)-(C-8-2)-02112008
B-75-1	68-E-N15-SS-G-(0-0.25)-(B-75-1)-02122008
B-75-1 (MS)	68-E-N15-SS-G-(0-0.25)-(B-75-1)-02122008-MS
B-75-1 (MSD)	68-E-N15-SS-G-(0-0.25)-(B-75-1)-02122008-MSD
Z3	68-A-Z3-SW-G-02122008
Z1	68-A-Z1-SW-G-02122008
Z2	68-A-Z2-SW-G-02122008

C8B130194

ERM Group Inc, The

Client Sample ID: 68-A-Z2-SW-G-02122008

GC/MS Volatiles

Lot-Sample #...: C8B130194-001 **Work Order #...:** KG2AP1AA **Matrix.....:** WATER
Date Sampled...: 02/12/08 **Date Received..:** 02/13/08 **MS Run #.....:** 8050129
Prep Date.....: 02/19/08 **Analysis Date..:** 02/19/08
Prep Batch #...: 8050242 **Analysis Time..:** 12:29
Dilution Factor: 1

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	20	ug/L
Benzene	ND	5.0	ug/L
Bromodichloromethane	ND	5.0	ug/L
Bromoform	ND	5.0	ug/L
Bromomethane	ND	5.0	ug/L
2-Butanone	ND	5.0	ug/L
Carbon disulfide	ND	5.0	ug/L
Carbon tetrachloride	ND	5.0	ug/L
Chlorobenzene	ND	5.0	ug/L
Chloroethane	ND	5.0	ug/L
Chloroform	ND	5.0	ug/L
Chloromethane	ND	5.0	ug/L
Cyclohexane	ND	5.0	ug/L
Dibromochloromethane	ND	5.0	ug/L
1,2-Dibromo-3-chloro-propane	ND	5.0	ug/L
1,2-Dibromoethane	ND	5.0	ug/L
1,3-Dichlorobenzene	ND	5.0	ug/L
1,4-Dichlorobenzene	ND	5.0	ug/L
1,2-Dichlorobenzene	ND	5.0	ug/L
Dichlorodifluoromethane	ND	5.0	ug/L
1,1-Dichloroethane	ND	5.0	ug/L
1,2-Dichloroethane	ND	5.0	ug/L
1,1-Dichloroethene	ND	5.0	ug/L
cis-1,2-Dichloroethene	ND	5.0	ug/L
trans-1,2-Dichloroethene	ND	5.0	ug/L
1,2-Dichloropropane	ND	5.0	ug/L
cis-1,3-Dichloropropene	ND	5.0	ug/L
trans-1,3-Dichloropropene	ND	5.0	ug/L
Ethylbenzene	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Isopropylbenzene	ND	5.0	ug/L
Methyl acetate	ND	5.0	ug/L
Methylene chloride	ND	5.0	ug/L
Methylcyclohexane	ND	5.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
Methyl tert-butyl ether	ND	5.0	ug/L
Styrene	ND	5.0	ug/L

(Continued on next page)

ERM Group Inc, The

Client Sample ID: 68-A-Z2-SW-G-02122008

GC/MS Volatiles

Lot-Sample #...: C8B130194-001 **Work Order #...:** KG2AP1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L
1,2,4-Trichloro-benzene	ND	5.0	ug/L
Tetrachloroethene	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	5.0	ug/L
1,1,2-Trichloroethane	ND	5.0	ug/L
Trichloroethene	ND	5.0	ug/L
Trichlorofluoromethane	ND	5.0	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0	ug/L
Toluene	**2.5 J**	**5.0**	**ug/L**
Vinyl chloride	ND	5.0	ug/L
Xylenes (total)	**4.4 J**	**15**	**ug/L**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	103	(70 - 125)
Toluene-d8	91	(80 - 120)
4-Bromofluorobenzene	87	(75 - 120)
Dibromofluoromethane	106	(80 - 120)

NOTE(S):

J Estimated result. Result is less than RL.

ERM Group Inc, The

Client Sample ID: 68-A-Z2-SW-G-02122008

GC/MS Semivolatiles

Lot-Sample #...: C8B130194-001 **Work Order #...:** KG2AP1A4 **Matrix.....:** WATER
Date Sampled...: 02/12/08 **Date Received..:** 02/13/08 **MS Run #.....:**
Prep Date.....: 02/14/08 **Analysis Date..:** 02/15/08
Prep Batch #...: 8045192 **Analysis Time..:** 12:10
Dilution Factor: 1.04

Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acenaphthene	ND	2.1	ug/L
Acenaphthylene	ND	2.1	ug/L
Acetophenone	ND	10	ug/L
Anthracene	ND	2.1	ug/L
Atrazine	ND	10	ug/L
Benzo(a)anthracene	ND	2.1	ug/L
Benzo(a)pyrene	ND	2.1	ug/L
Benzo(b)fluoranthene	ND	2.1	ug/L
Benzo(ghi)perylene	ND	2.1	ug/L
Benzo(k)fluoranthene	ND	2.1	ug/L
Benzaldehyde	ND	10	ug/L
1,1'-Biphenyl	ND	10	ug/L
bis(2-Chloroethoxy) methane	ND	10	ug/L
bis(2-Chloroethyl)-ether	ND	2.1	ug/L
bis(2-Ethylhexyl) phthalate	ND	10	ug/L
4-Bromophenyl phenyl ether	ND	10	ug/L
Butyl benzyl phthalate	ND	10	ug/L
Caprolactam	ND	10	ug/L
Carbazole	ND	2.1	ug/L
4-Chloroaniline	ND	10	ug/L
4-Chloro-3-methylphenol	ND	10	ug/L
2-Chloronaphthalene	ND	2.1	ug/L
2-Chlorophenol	ND	10	ug/L
4-Chlorophenyl phenyl ether	ND	10	ug/L
Chrysene	ND	2.1	ug/L
Dibenz(a,h)anthracene	ND	2.1	ug/L
Dibenzofuran	ND	10	ug/L
3,3'-Dichlorobenzidine	ND	10	ug/L
2,4-Dichlorophenol	ND	2.1	ug/L
Diethyl phthalate	ND	10	ug/L
2,4-Dimethylphenol	ND	10	ug/L
Dimethyl phthalate	ND	10	ug/L
Di-n-butyl phthalate	ND	10	ug/L

(Continued on next page)

ERM Group Inc, The

Client Sample ID: 68-A-Z2-SW-G-02122008

GC/MS Semivolatiles

Lot-Sample #...: C8B130194-001 **Work Order #...:** KG2AP1A4 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4,6-Dinitro-2-methylphenol	ND	52	ug/L
2,4-Dinitrophenol	ND	52	ug/L
2,4-Dinitrotoluene	ND	10	ug/L
2,6-Dinitrotoluene	ND	10	ug/L
Di-n-octyl phthalate	ND	10	ug/L
Fluoranthene	ND	2.1	ug/L
Fluorene	ND	2.1	ug/L
Hexachlorobenzene	ND	2.1	ug/L
Hexachlorobutadiene	ND	2.1	ug/L
Hexachlorocyclopenta-diene	ND	10	ug/L
Hexachloroethane	ND	10	ug/L
Indeno(1,2,3-cd)pyrene	ND	2.1	ug/L
Isophorone	ND	10	ug/L
2-Methylnaphthalene	ND	2.1	ug/L
2-Methylphenol	ND	10	ug/L
4-Methylphenol	ND	10	ug/L
Naphthalene	ND	2.1	ug/L
2-Nitroaniline	ND	52	ug/L
3-Nitroaniline	ND	52	ug/L
4-Nitroaniline	ND	52	ug/L
Nitrobenzene	ND	2.1	ug/L
2-Nitrophenol	ND	10	ug/L
4-Nitrophenol	ND	52	ug/L
N-Nitrosodi-n-propyl-amine	ND	2.1	ug/L
N-Nitrosodiphenylamine	ND	2.1	ug/L
2,2'-oxybis(1-Chloropropane)	ND	2.1	ug/L
Pentachlorophenol	ND	10	ug/L
Phenanthrene	ND	2.1	ug/L
Phenol	ND	2.1	ug/L
Pyrene	ND	2.1	ug/L
2,4,5-Trichloro-phenol	ND	10	ug/L
2,4,6-Trichloro-phenol	ND	10	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4,6-Tribromophenol	74	(20 - 107)
2-Fluorobiphenyl	69	(27 - 104)
2-Fluorophenol	68	(17 - 102)
Nitrobenzene-d5	77	(33 - 103)
Phenol-d5	69	(25 - 107)
Terphenyl-d14	79	(14 - 127)

ERM Group Inc, The

Client Sample ID: 68-A-Z2-SW-G-02122008

GC Semivolatiles

Lot-Sample #...: C8B130194-001 **Work Order #...:** KG2AP1A6 **Matrix.....:** WATER
Date Sampled...: 02/12/08 **Date Received..:** 02/13/08 **MS Run #.....:**
Prep Date.....: 02/13/08 **Analysis Date..:** 02/14/08
Prep Batch #...: 8044392 **Analysis Time..:** 14:56
Dilution Factor: 0.98

Method.....: SW846 8081A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
alpha-BHC	ND	0.049	ug/L
beta-BHC	ND	0.049	ug/L
delta-BHC	ND	0.049	ug/L
gamma-BHC (Lindane)	ND	0.049	ug/L
Heptachlor	ND	0.049	ug/L
Aldrin	ND	0.049	ug/L
Heptachlor epoxide	ND	0.049	ug/L
Endosulfan I	ND	0.049	ug/L
Dieldrin	ND	0.049	ug/L
4,4'-DDE	ND	0.049	ug/L
Endrin	ND	0.049	ug/L
Endrin ketone	ND	0.049	ug/L
Endrin aldehyde	ND	0.049	ug/L
Endosulfan II	ND	0.049	ug/L
4,4'-DDD	ND	0.049	ug/L
Endosulfan sulfate	ND	0.049	ug/L
4,4'-DDT	ND	0.049	ug/L
Methoxychlor	ND	0.098	ug/L
alpha-Chlordane	ND	0.049	ug/L
gamma-Chlordane	ND	0.049	ug/L
Toxaphene	ND	2.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	77	(39 - 130)
Decachlorobiphenyl	90	(10 - 147)

ERM Group Inc, The

Client Sample ID: 68-A-Z2-SW-G-02122008

GC Semivolatiles

Lot-Sample #...: C8B130194-001 **Work Order #...:** KG2AP1A5 **Matrix.....:** WATER
Date Sampled...: 02/12/08 **Date Received..:** 02/13/08 **MS Run #.....:**
Prep Date.....: 02/13/08 **Analysis Date..:** 02/15/08
Prep Batch #...: 8044393 **Analysis Time..:** 18:39
Dilution Factor: 0.98

Method.....: SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	0.39	ug/L
Aroclor 1221	ND	0.39	ug/L
Aroclor 1232	ND	0.39	ug/L
Aroclor 1242	ND	0.39	ug/L
Aroclor 1248	ND	0.39	ug/L
Aroclor 1254	ND	0.39	ug/L
Aroclor 1260	ND	0.39	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	83	(45 - 120)
Decachlorobiphenyl	98	(24 - 128)

ERM Group Inc, The

Client Sample ID: 68-A-Z2-SW-G-02122008

TOTAL Metals

Lot-Sample #...: C8B130194-001 **Matrix.....:** WATER
Date Sampled...: 02/12/08 **Date Received..:** 02/13/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8046195						
Mercury	**0.079 B**	**0.20**	**ug/L**	**SW846 7470A**	**02/15/08**	**KG2AP1A3**
		Dilution Factor: 1		Analysis Time..: 15:58	MS Run #.....: 8046124	
Prep Batch #...: 8059361						
Silver	ND	5.0	ug/L	SW846 6010B	02/28-03/03/08	KG2AP1AC
		Dilution Factor: 1		Analysis Time..: 10:58	MS Run #.....: 8059191	
Aluminum	**25.0 B,J**	**200**	**ug/L**	**SW846 6010B**	**02/28-03/03/08**	**KG2AP1AD**
		Dilution Factor: 1		Analysis Time..: 10:58	MS Run #.....: 8059191	
Arsenic	ND	10.0	ug/L	SW846 6010B	02/28-03/03/08	KG2AP1AE
		Dilution Factor: 1		Analysis Time..: 10:58	MS Run #.....: 8059191	
Barium	**0.20 B**	**200**	**ug/L**	**SW846 6010B**	**02/28-03/03/08**	**KG2AP1AF**
		Dilution Factor: 1		Analysis Time..: 10:58	MS Run #.....: 8059191	
Beryllium	ND	4.0	ug/L	SW846 6010B	02/28-03/03/08	KG2AP1AG
		Dilution Factor: 1		Analysis Time..: 10:58	MS Run #.....: 8059191	
Calcium	**27.4 B,J**	**5000**	**ug/L**	**SW846 6010B**	**02/28-03/03/08**	**KG2AP1AH**
		Dilution Factor: 1		Analysis Time..: 10:58	MS Run #.....: 8059191	
Cadmium	ND	5.0	ug/L	SW846 6010B	02/28-03/03/08	KG2AP1AJ
		Dilution Factor: 1		Analysis Time..: 10:58	MS Run #.....: 8059191	
Cobalt	ND	50.0	ug/L	SW846 6010B	02/28-03/03/08	KG2AP1AK
		Dilution Factor: 1		Analysis Time..: 10:58	MS Run #.....: 8059191	
Chromium	ND	5.0	ug/L	SW846 6010B	02/28-03/03/08	KG2AP1AL
		Dilution Factor: 1		Analysis Time..: 10:58	MS Run #.....: 8059191	
Copper	ND	25.0	ug/L	SW846 6010B	02/28-03/03/08	KG2AP1AM
		Dilution Factor: 1		Analysis Time..: 10:58	MS Run #.....: 8059191	
Iron	ND	100	ug/L	SW846 6010B	02/28-03/03/08	KG2AP1AN
		Dilution Factor: 1		Analysis Time..: 10:58	MS Run #.....: 8059191	

(Continued on next page)

ERM Group Inc, The

Client Sample ID: 68-A-Z2-SW-G-02122008

TOTAL Metals

Lot-Sample #...: C8B130194-001 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Potassium	ND	5000	ug/L	SW846 6010B	02/28-03/03/08	KG2AP1AP
		Dilution Factor: 1		Analysis Time..: 10:58	MS Run #.....: 8059191	
Magnesium	**8.5 B,J**	**5000**	**ug/L**	**SW846 6010B**	**02/28-03/03/08**	**KG2AP1AQ**
		Dilution Factor: 1		Analysis Time..: 10:58	MS Run #.....: 8059191	
Manganese	ND	15.0	ug/L	SW846 6010B	02/28-03/03/08	KG2AP1AR
		Dilution Factor: 1		Analysis Time..: 10:58	MS Run #.....: 8059191	
Sodium	ND	5000	ug/L	SW846 6010B	02/28-03/03/08	KG2AP1AT
		Dilution Factor: 1		Analysis Time..: 10:58	MS Run #.....: 8059191	
Nickel	ND	40.0	ug/L	SW846 6010B	02/28-03/03/08	KG2AP1AU
		Dilution Factor: 1		Analysis Time..: 10:58	MS Run #.....: 8059191	
Lead	ND	3.0	ug/L	SW846 6010B	02/28-03/03/08	KG2AP1AV
		Dilution Factor: 1		Analysis Time..: 10:58	MS Run #.....: 8059191	
Selenium	ND	5.0	ug/L	SW846 6010B	02/28-03/03/08	KG2AP1AW
		Dilution Factor: 1		Analysis Time..: 10:58	MS Run #.....: 8059191	
Thallium	**7.2 B,J**	**10.0**	**ug/L**	**SW846 6010B**	**02/28-03/03/08**	**KG2AP1AX**
		Dilution Factor: 1		Analysis Time..: 10:58	MS Run #.....: 8059191	
Antimony	ND	10.0	ug/L	SW846 6010B	02/28-03/03/08	KG2AP1A0
		Dilution Factor: 1		Analysis Time..: 10:58	MS Run #.....: 8059191	
Vanadium	ND	50.0	ug/L	SW846 6010B	02/28-03/03/08	KG2AP1A1
		Dilution Factor: 1		Analysis Time..: 10:58	MS Run #.....: 8059191	
Zinc	**5.5 B,J**	**20.0**	**ug/L**	**SW846 6010B**	**02/28-03/03/08**	**KG2AP1A2**
		Dilution Factor: 1		Analysis Time..: 10:58	MS Run #.....: 8059191	

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.

ERM Group Inc, The

Client Sample ID: 68-A-Z3-SW-G-02122008

GC/MS Volatiles

Lot-Sample #...: C8B130194-002 **Work Order #...:** KG2C31AJ **Matrix.....:** WATER
Date Sampled...: 02/12/08 **Date Received..:** 02/13/08 **MS Run #.....:** 8050129
Prep Date.....: 02/19/08 **Analysis Date..:** 02/19/08
Prep Batch #...: 8050242 **Analysis Time..:** 12:52
Dilution Factor: 1

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	20	ug/L
Benzene	ND	5.0	ug/L
Bromodichloromethane	ND	5.0	ug/L
Bromoform	ND	5.0	ug/L
Bromomethane	ND	5.0	ug/L
2-Butanone	ND	5.0	ug/L
Carbon disulfide	ND	5.0	ug/L
Carbon tetrachloride	ND	5.0	ug/L
Chlorobenzene	ND	5.0	ug/L
Chloroethane	ND	5.0	ug/L
Chloroform	ND	5.0	ug/L
Chloromethane	ND	5.0	ug/L
Cyclohexane	ND	5.0	ug/L
Dibromochloromethane	ND	5.0	ug/L
1,2-Dibromo-3-chloro-propane	ND	5.0	ug/L
1,2-Dibromoethane	ND	5.0	ug/L
1,3-Dichlorobenzene	ND	5.0	ug/L
1,4-Dichlorobenzene	ND	5.0	ug/L
1,2-Dichlorobenzene	ND	5.0	ug/L
Dichlorodifluoromethane	ND	5.0	ug/L
1,1-Dichloroethane	ND	5.0	ug/L
1,2-Dichloroethane	ND	5.0	ug/L
1,1-Dichloroethene	ND	5.0	ug/L
cis-1,2-Dichloroethene	ND	5.0	ug/L
trans-1,2-Dichloroethene	ND	5.0	ug/L
1,2-Dichloropropane	ND	5.0	ug/L
cis-1,3-Dichloropropene	ND	5.0	ug/L
trans-1,3-Dichloropropene	ND	5.0	ug/L
Ethylbenzene	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Isopropylbenzene	ND	5.0	ug/L
Methyl acetate	ND	5.0	ug/L
Methylene chloride	ND	5.0	ug/L
Methylcyclohexane	ND	5.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
Methyl tert-butyl ether	ND	5.0	ug/L
Styrene	ND	5.0	ug/L

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ERM Group Inc, The

Client Sample ID: 68-A-Z3-SW-G-02122008

GC/MS Volatiles

Lot-Sample #...: C8B130194-002 **Work Order #...:** KG2C31AJ **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L
1,2,4-Trichloro-benzene	ND	5.0	ug/L
Tetrachloroethene	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	5.0	ug/L
1,1,2-Trichloroethane	ND	5.0	ug/L
Trichloroethene	ND	5.0	ug/L
Trichlorofluoromethane	ND	5.0	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0	ug/L
Toluene	**2.5 J**	**5.0**	**ug/L**
Vinyl chloride	ND	5.0	ug/L
Xylenes (total)	**4.5 J**	**15**	**ug/L**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	98	(70 - 125)
Toluene-d8	95	(80 - 120)
4-Bromofluorobenzene	87	(75 - 120)
Dibromofluoromethane	101	(80 - 120)

NOTE(S):

J Estimated result. Result is less than RL.

ERM Group Inc, The

Client Sample ID: 68-A-Z3-SW-G-02122008

GC/MS Semivolatiles

Lot-Sample #...: C8B130194-002 **Work Order #...:** KG2C31AF **Matrix.....:** WATER
Date Sampled...: 02/12/08 **Date Received..:** 02/13/08 **MS Run #.....:**
Prep Date.....: 02/14/08 **Analysis Date..:** 02/15/08
Prep Batch #...: 8045192 **Analysis Time..:** 12:39
Dilution Factor: 1.02

Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acenaphthene	ND	2.0	ug/L
Acenaphthylene	ND	2.0	ug/L
Acetophenone	ND	10	ug/L
Anthracene	ND	2.0	ug/L
Atrazine	ND	10	ug/L
Benzo(a)anthracene	ND	2.0	ug/L
Benzo(a)pyrene	ND	2.0	ug/L
Benzo(b)fluoranthene	ND	2.0	ug/L
Benzo(ghi)perylene	ND	2.0	ug/L
Benzo(k)fluoranthene	ND	2.0	ug/L
Benzaldehyde	ND	10	ug/L
1,1'-Biphenyl	ND	10	ug/L
bis(2-Chloroethoxy) methane	ND	10	ug/L
bis(2-Chloroethyl)-ether	ND	2.0	ug/L
bis(2-Ethylhexyl) phthalate	ND	10	ug/L
4-Bromophenyl phenyl ether	ND	10	ug/L
Butyl benzyl phthalate	ND	10	ug/L
Caprolactam	ND	10	ug/L
Carbazole	ND	2.0	ug/L
4-Chloroaniline	ND	10	ug/L
4-Chloro-3-methylphenol	ND	10	ug/L
2-Chloronaphthalene	ND	2.0	ug/L
2-Chlorophenol	ND	10	ug/L
4-Chlorophenyl phenyl ether	ND	10	ug/L
Chrysene	ND	2.0	ug/L
Dibenz(a,h)anthracene	ND	2.0	ug/L
Dibenzofuran	ND	10	ug/L
3,3'-Dichlorobenzidine	ND	10	ug/L
2,4-Dichlorophenol	ND	2.0	ug/L
Diethyl phthalate	ND	10	ug/L
2,4-Dimethylphenol	ND	10	ug/L
Dimethyl phthalate	ND	10	ug/L
Di-n-butyl phthalate	ND	10	ug/L

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ERM Group Inc, The

Client Sample ID: 68-A-Z3-SW-G-02122008

GC/MS Semivolatiles

Lot-Sample #...: C8B130194-002 **Work Order #...:** KG2C31AF **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4,6-Dinitro-2-methylphenol	ND	51	ug/L
2,4-Dinitrophenol	ND	51	ug/L
2,4-Dinitrotoluene	ND	10	ug/L
2,6-Dinitrotoluene	ND	10	ug/L
Di-n-octyl phthalate	ND	10	ug/L
Fluoranthene	ND	2.0	ug/L
Fluorene	ND	2.0	ug/L
Hexachlorobenzene	ND	2.0	ug/L
Hexachlorobutadiene	ND	2.0	ug/L
Hexachlorocyclopentadiene	ND	10	ug/L
Hexachloroethane	ND	10	ug/L
Indeno(1,2,3-cd)pyrene	ND	2.0	ug/L
Isophorone	ND	10	ug/L
2-Methylnaphthalene	ND	2.0	ug/L
2-Methylphenol	ND	10	ug/L
4-Methylphenol	ND	10	ug/L
Naphthalene	ND	2.0	ug/L
2-Nitroaniline	ND	51	ug/L
3-Nitroaniline	ND	51	ug/L
4-Nitroaniline	ND	51	ug/L
Nitrobenzene	ND	2.0	ug/L
2-Nitrophenol	ND	10	ug/L
4-Nitrophenol	ND	51	ug/L
N-Nitrosodi-n-propylamine	ND	2.0	ug/L
N-Nitrosodiphenylamine	ND	2.0	ug/L
2,2'-oxybis(1-Chloropropane)	ND	2.0	ug/L
Pentachlorophenol	ND	10	ug/L
Phenanthrene	ND	2.0	ug/L
Phenol	ND	2.0	ug/L
Pyrene	ND	2.0	ug/L
2,4,5-Trichlorophenol	ND	10	ug/L
2,4,6-Trichlorophenol	ND	10	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4,6-Tribromophenol	85	(20 - 107)
2-Fluorobiphenyl	78	(27 - 104)
2-Fluorophenol	77	(17 - 102)
Nitrobenzene-d5	87	(33 - 103)
Phenol-d5	79	(25 - 107)
Terphenyl-d14	82	(14 - 127)

ERM Group Inc, The

Client Sample ID: 68-A-Z3-SW-G-02122008

GC Semivolatiles

Lot-Sample #...: C8B130194-002 **Work Order #...:** KG2C31AH **Matrix.....:** WATER
Date Sampled...: 02/12/08 **Date Received..:** 02/13/08 **MS Run #.....:**
Prep Date.....: 02/13/08 **Analysis Date..:** 02/14/08
Prep Batch #...: 8044392 **Analysis Time..:** 15:14
Dilution Factor: 0.97

Method.....: SW846 8081A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
alpha-BHC	ND	0.048	ug/L
beta-BHC	ND	0.048	ug/L
delta-BHC	ND	0.048	ug/L
gamma-BHC (Lindane)	ND	0.048	ug/L
Heptachlor	ND	0.048	ug/L
Aldrin	ND	0.048	ug/L
Heptachlor epoxide	ND	0.048	ug/L
Endosulfan I	ND	0.048	ug/L
Dieldrin	ND	0.048	ug/L
4,4'-DDE	ND	0.048	ug/L
Endrin	ND	0.048	ug/L
Endrin ketone	ND	0.048	ug/L
Endrin aldehyde	ND	0.048	ug/L
Endosulfan II	ND	0.048	ug/L
4,4'-DDD	ND	0.048	ug/L
Endosulfan sulfate	ND	0.048	ug/L
4,4'-DDT	ND	0.048	ug/L
Methoxychlor	ND	0.097	ug/L
alpha-Chlordane	ND	0.048	ug/L
gamma-Chlordane	ND	0.048	ug/L
Toxaphene	ND	1.9	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	77	(39 - 130)
Decachlorobiphenyl	88	(10 - 147)

ERM Group Inc, The

Client Sample ID: 68-A-Z3-SW-G-02122008

GC Semivolatiles

Lot-Sample #...: C8B130194-002 **Work Order #...:** KG2C31AG **Matrix.....:** WATER
Date Sampled...: 02/12/08 **Date Received..:** 02/13/08 **MS Run #.....:**
Prep Date.....: 02/13/08 **Analysis Date..:** 02/15/08
Prep Batch #...: 8044393 **Analysis Time..:** 18:59
Dilution Factor: 0.97

Method.....: SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	0.39	ug/L
Aroclor 1221	ND	0.39	ug/L
Aroclor 1232	ND	0.39	ug/L
Aroclor 1242	ND	0.39	ug/L
Aroclor 1248	ND	0.39	ug/L
Aroclor 1254	ND	0.39	ug/L
Aroclor 1260	ND	0.39	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	88	(45 - 120)
Decachlorobiphenyl	95	(24 - 128)

ERM Group Inc, The

Client Sample ID: 68-A-Z3-SW-G-02122008

TOTAL Metals

Lot-Sample #...: C8B130194-002 **Matrix.....:** WATER
Date Sampled...: 02/12/08 **Date Received..:** 02/13/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8046195						
Mercury	ND	0.20	ug/L	SW846 7470A	02/15/08	KG2C31AE
		Dilution Factor: 1		Analysis Time..: 16:00	MS Run #.....: 8046124	
Prep Batch #...: 8059361						
Silver	ND	5.0	ug/L	SW846 6010B	02/28-03/03/08	KG2C31AK
		Dilution Factor: 1		Analysis Time..: 11:04	MS Run #.....: 8059191	
Aluminum	**18.3 B,J**	**200**	**ug/L**	**SW846 6010B**	**02/28-03/03/08**	**KG2C31AL**
		Dilution Factor: 1		Analysis Time..: 11:04	MS Run #.....: 8059191	
Arsenic	ND	10.0	ug/L	SW846 6010B	02/28-03/03/08	KG2C31AM
		Dilution Factor: 1		Analysis Time..: 11:04	MS Run #.....: 8059191	
Barium	**0.15 B**	**200**	**ug/L**	**SW846 6010B**	**02/28-03/03/08**	**KG2C31AN**
		Dilution Factor: 1		Analysis Time..: 11:04	MS Run #.....: 8059191	
Beryllium	ND	4.0	ug/L	SW846 6010B	02/28-03/03/08	KG2C31AP
		Dilution Factor: 1		Analysis Time..: 11:04	MS Run #.....: 8059191	
Calcium	**25.4 B,J**	**5000**	**ug/L**	**SW846 6010B**	**02/28-03/03/08**	**KG2C31AQ**
		Dilution Factor: 1		Analysis Time..: 11:04	MS Run #.....: 8059191	
Cadmium	ND	5.0	ug/L	SW846 6010B	02/28-03/03/08	KG2C31AR
		Dilution Factor: 1		Analysis Time..: 11:04	MS Run #.....: 8059191	
Cobalt	ND	50.0	ug/L	SW846 6010B	02/28-03/03/08	KG2C31AT
		Dilution Factor: 1		Analysis Time..: 11:04	MS Run #.....: 8059191	
Chromium	ND	5.0	ug/L	SW846 6010B	02/28-03/03/08	KG2C31AU
		Dilution Factor: 1		Analysis Time..: 11:04	MS Run #.....: 8059191	
Copper	ND	25.0	ug/L	SW846 6010B	02/28-03/03/08	KG2C31AV
		Dilution Factor: 1		Analysis Time..: 11:04	MS Run #.....: 8059191	
Iron	ND	100	ug/L	SW846 6010B	02/28-03/03/08	KG2C31AW
		Dilution Factor: 1		Analysis Time..: 11:04	MS Run #.....: 8059191	

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ERM Group Inc, The

Client Sample ID: 68-A-Z3-SW-G-02122008

TOTAL Metals

Lot-Sample #...: C8B130194-002 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Potassium	ND	5000	ug/L	SW846 6010B	02/28-03/03/08	KG2C31AX
		Dilution Factor: 1		Analysis Time..: 11:04	MS Run #.....: 8059191	
Magnesium	ND	5000	ug/L	SW846 6010B	02/28-03/03/08	KG2C31A0
		Dilution Factor: 1		Analysis Time..: 11:04	MS Run #.....: 8059191	
Manganese	ND	15.0	ug/L	SW846 6010B	02/28-03/03/08	KG2C31A1
		Dilution Factor: 1		Analysis Time..: 11:04	MS Run #.....: 8059191	
Sodium	ND	5000	ug/L	SW846 6010B	02/28-03/03/08	KG2C31A2
		Dilution Factor: 1		Analysis Time..: 11:04	MS Run #.....: 8059191	
Nickel	ND	40.0	ug/L	SW846 6010B	02/28-03/03/08	KG2C31A3
		Dilution Factor: 1		Analysis Time..: 11:04	MS Run #.....: 8059191	
Lead	ND	3.0	ug/L	SW846 6010B	02/28-03/03/08	KG2C31A4
		Dilution Factor: 1		Analysis Time..: 11:04	MS Run #.....: 8059191	
Selenium	ND	5.0	ug/L	SW846 6010B	02/28-03/03/08	KG2C31A5
		Dilution Factor: 1		Analysis Time..: 11:04	MS Run #.....: 8059191	
Thallium	ND	10.0	ug/L	SW846 6010B	02/28-03/03/08	KG2C31A6
		Dilution Factor: 1		Analysis Time..: 11:04	MS Run #.....: 8059191	
Antimony	ND	10.0	ug/L	SW846 6010B	02/28-03/03/08	KG2C31AA
		Dilution Factor: 1		Analysis Time..: 11:04	MS Run #.....: 8059191	
Vanadium	ND	50.0	ug/L	SW846 6010B	02/28-03/03/08	KG2C31AC
		Dilution Factor: 1		Analysis Time..: 11:04	MS Run #.....: 8059191	
Zinc	**4.0 B,J**	**20.0**	**ug/L**	**SW846 6010B**	**02/28-03/03/08**	**KG2C31AD**
		Dilution Factor: 1		Analysis Time..: 11:04	MS Run #.....: 8059191	

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.

ERM Group Inc, The

Client Sample ID: 68-A-Z1-SW-G-02122008

GC/MS Volatiles

Lot-Sample #...: C8B130194-003 **Work Order #...:** KG2C71AA **Matrix.....:** WATER
Date Sampled...: 02/12/08 **Date Received..:** 02/13/08 **MS Run #.....:** 8050129
Prep Date.....: 02/19/08 **Analysis Date..:** 02/19/08
Prep Batch #...: 8050242 **Analysis Time..:** 13:16
Dilution Factor: 1

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	20	ug/L
Benzene	ND	5.0	ug/L
Bromodichloromethane	ND	5.0	ug/L
Bromoform	ND	5.0	ug/L
Bromomethane	ND	5.0	ug/L
2-Butanone	ND	5.0	ug/L
Carbon disulfide	ND	5.0	ug/L
Carbon tetrachloride	ND	5.0	ug/L
Chlorobenzene	ND	5.0	ug/L
Chloroethane	ND	5.0	ug/L
Chloroform	ND	5.0	ug/L
Chloromethane	ND	5.0	ug/L
Cyclohexane	ND	5.0	ug/L
Dibromochloromethane	ND	5.0	ug/L
1,2-Dibromo-3-chloro-propane	ND	5.0	ug/L
1,2-Dibromoethane	ND	5.0	ug/L
1,3-Dichlorobenzene	ND	5.0	ug/L
1,4-Dichlorobenzene	ND	5.0	ug/L
1,2-Dichlorobenzene	ND	5.0	ug/L
Dichlorodifluoromethane	ND	5.0	ug/L
1,1-Dichloroethane	ND	5.0	ug/L
1,2-Dichloroethane	ND	5.0	ug/L
1,1-Dichloroethene	ND	5.0	ug/L
cis-1,2-Dichloroethene	ND	5.0	ug/L
trans-1,2-Dichloroethene	ND	5.0	ug/L
1,2-Dichloropropane	ND	5.0	ug/L
cis-1,3-Dichloropropene	ND	5.0	ug/L
trans-1,3-Dichloropropene	ND	5.0	ug/L
Ethylbenzene	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Isopropylbenzene	ND	5.0	ug/L
Methyl acetate	ND	5.0	ug/L
Methylene chloride	ND	5.0	ug/L
Methylcyclohexane	ND	5.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
Methyl tert-butyl ether	ND	5.0	ug/L
Styrene	ND	5.0	ug/L

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ERM Group Inc, The

Client Sample ID: 68-A-Z1-SW-G-02122008

GC/MS Volatiles

Lot-Sample #...: C8B130194-003 **Work Order #...:** KG2C71AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L
1,2,4-Trichloro-benzene	ND	5.0	ug/L
Tetrachloroethene	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	5.0	ug/L
1,1,2-Trichloroethane	ND	5.0	ug/L
Trichloroethene	ND	5.0	ug/L
Trichlorofluoromethane	ND	5.0	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0	ug/L
Toluene	**2.5 J**	**5.0**	**ug/L**
Vinyl chloride	ND	5.0	ug/L
Xylenes (total)	**4.4 J**	**15**	**ug/L**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	102	(70 - 125)
Toluene-d8	89	(80 - 120)
4-Bromofluorobenzene	89	(75 - 120)
Dibromofluoromethane	106	(80 - 120)

NOTE(S):

J Estimated result. Result is less than RL.

ERM Group Inc, The

Client Sample ID: 68-E-N15-SS-G-(0-0.25)-(B-75-1)-02122008

GC/MS Volatiles

Lot-Sample #...: C8B130194-004 **Work Order #...:** KG2DD1AE **Matrix.....:** SOLID
Date Sampled...: 02/12/08 **Date Received..:** 02/13/08 **MS Run #.....:** 8045038
Prep Date.....: 02/14/08 **Analysis Date..:** 02/14/08
Prep Batch #...: 8045053 **Analysis Time..:** 06:49
Dilution Factor: 0.95
% Moisture.....: 13 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	22	ug/kg
Benzene	ND	5.5	ug/kg
Bromodichloromethane	ND	5.5	ug/kg
Bromoform	ND	5.5	ug/kg
Bromomethane	ND	5.5	ug/kg
2-Butanone	ND	5.5	ug/kg
Carbon disulfide	ND	5.5	ug/kg
Carbon tetrachloride	ND	5.5	ug/kg
Chlorobenzene	ND	5.5	ug/kg
Chloroethane	ND	5.5	ug/kg
Chloroform	ND	5.5	ug/kg
Chloromethane	ND	5.5	ug/kg
Cyclohexane	ND	5.5	ug/kg
Dibromochloromethane	ND	5.5	ug/kg
1,2-Dibromo-3-chloro-propane	ND	5.5	ug/kg
1,2-Dibromoethane	ND	5.5	ug/kg
1,3-Dichlorobenzene	ND	5.5	ug/kg
1,4-Dichlorobenzene	ND	5.5	ug/kg
1,2-Dichlorobenzene	ND	5.5	ug/kg
Dichlorodifluoromethane	ND	5.5	ug/kg
1,1-Dichloroethane	ND	5.5	ug/kg
1,2-Dichloroethane	ND	5.5	ug/kg
1,1-Dichloroethene	ND	5.5	ug/kg
cis-1,2-Dichloroethene	ND	5.5	ug/kg
trans-1,2-Dichloroethene	ND	5.5	ug/kg
1,2-Dichloropropane	ND	5.5	ug/kg
cis-1,3-Dichloropropene	ND	5.5	ug/kg
trans-1,3-Dichloropropene	ND	5.5	ug/kg
Ethylbenzene	ND	5.5	ug/kg
2-Hexanone	ND	5.5	ug/kg
Isopropylbenzene	ND	5.5	ug/kg
Methyl acetate	ND	5.5	ug/kg
Methylene chloride	ND	5.5	ug/kg
Methylcyclohexane	ND	5.5	ug/kg
4-Methyl-2-pentanone	ND	5.5	ug/kg
Methyl tert-butyl ether	ND	5.5	ug/kg
Styrene	ND	5.5	ug/kg

(Continued on next page)

ERM Group Inc, The

Client Sample ID: 68-E-N15-SS-G-(0-0.25)-(B-75-1)-02122008

GC/MS Volatiles

Lot-Sample #...: C8B130194-004 **Work Order #...:** KG2DD1AE **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
1,1,2,2-Tetrachloroethane	ND	5.5	ug/kg
1,2,4-Trichloro-benzene	ND	5.5	ug/kg
Tetrachloroethene	ND	5.5	ug/kg
1,1,1-Trichloroethane	ND	5.5	ug/kg
1,1,2-Trichloroethane	ND	5.5	ug/kg
Trichloroethene	ND	5.5	ug/kg
Trichlorofluoromethane	ND	5.5	ug/kg
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.5	ug/kg
Toluene	ND	5.5	ug/kg
Vinyl chloride	ND	5.5	ug/kg
Xylenes (total)	ND	16	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	103	(52 - 124)
Toluene-d8	97	(72 - 127)
4-Bromofluorobenzene	85	(63 - 120)
Dibromofluoromethane	99	(68 - 121)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

ERM Group Inc, The

Client Sample ID: 68-E-N15-SS-G-(0-0.25)-(B-75-1)-02122008

GC/MS Semivolatiles

Lot-Sample #...:	C8B130194-004	**Work Order #...:**	KG2DD1AH	**Matrix.....:**	SOLID
Date Sampled...:	02/12/08	**Date Received..:**	02/13/08	**MS Run #.....:**	8045002
Prep Date.....:	02/14/08	**Analysis Date..:**	02/14/08		
Prep Batch #...:	8045011	**Analysis Time..:**	16:13		
Dilution Factor:	1				
% Moisture.....:	13	**Method.....:**	SW846 8270C		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acenaphthene	ND	380	ug/kg
Acenaphthylene	**130 J**	**380**	**ug/kg**
Acetophenone	ND	380	ug/kg
Anthracene	**90 J**	**380**	**ug/kg**
Atrazine	ND	380	ug/kg
Benzo(a)anthracene	**290 J**	**380**	**ug/kg**
Benzo(a)pyrene	**300 J**	**380**	**ug/kg**
Benzo(b)fluoranthene	**440**	**380**	**ug/kg**
Benzo(ghi)perylene	**290 J**	**380**	**ug/kg**
Benzo(k)fluoranthene	**160 J**	**380**	**ug/kg**
Benzaldehyde	**1900**	**380**	**ug/kg**
1,1'-Biphenyl	ND	380	ug/kg
bis(2-Chloroethoxy) methane	ND	380	ug/kg
bis(2-Chloroethyl)-ether	ND	380	ug/kg
bis(2-Ethylhexyl) phthalate	**120 J**	**380**	**ug/kg**
4-Bromophenyl phenyl ether	ND	380	ug/kg
Butyl benzyl phthalate	**74 J**	**380**	**ug/kg**
Caprolactam	**74 J**	**380**	**ug/kg**
Carbazole	ND	380	ug/kg
4-Chloroaniline	ND	380	ug/kg
4-Chloro-3-methylphenol	ND	380	ug/kg
2-Chloronaphthalene	ND	380	ug/kg
2-Chlorophenol	ND	380	ug/kg
4-Chlorophenyl phenyl ether	ND	380	ug/kg
Chrysene	**360 J**	**380**	**ug/kg**
Dibenz(a,h)anthracene	**78 J**	**380**	**ug/kg**
Dibenzofuran	ND	380	ug/kg
3,3'-Dichlorobenzidine	ND	1800	ug/kg
2,4-Dichlorophenol	ND	380	ug/kg
Diethyl phthalate	ND	380	ug/kg
2,4-Dimethylphenol	ND	380	ug/kg
Dimethyl phthalate	ND	380	ug/kg
Di-n-butyl phthalate	ND	380	ug/kg

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ERM Group Inc, The

Client Sample ID: 68-E-N15-SS-G-(0-0.25)-(B-75-1)-02122008

GC/MS Semivolatiles

Lot-Sample #...: C8B130194-004 **Work Order #...:** KG2DD1AH **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4,6-Dinitro-2-methylphenol	ND	1800	ug/kg
2,4-Dinitrophenol	ND	1800	ug/kg
2,4-Dinitrotoluene	ND	380	ug/kg
2,6-Dinitrotoluene	ND	380	ug/kg
Di-n-octyl phthalate	ND	380	ug/kg
Fluoranthene	**550**	**380**	**ug/kg**
Fluorene	ND	380	ug/kg
Hexachlorobenzene	ND	380	ug/kg
Hexachlorobutadiene	ND	380	ug/kg
Hexachlorocyclopentadiene	ND	1800	ug/kg
Hexachloroethane	ND	380	ug/kg
Indeno(1,2,3-cd)pyrene	**290 J**	**380**	**ug/kg**
Isophorone	ND	380	ug/kg
2-Methylnaphthalene	**31 J**	**380**	**ug/kg**
2-Methylphenol	ND	380	ug/kg
4-Methylphenol	ND	380	ug/kg
Naphthalene	**29 J**	**380**	**ug/kg**
2-Nitroaniline	ND	1800	ug/kg
3-Nitroaniline	ND	1800	ug/kg
4-Nitroaniline	ND	1800	ug/kg
Nitrobenzene	ND	380	ug/kg
2-Nitrophenol	ND	380	ug/kg
4-Nitrophenol	ND	1800	ug/kg
N-Nitrosodi-n-propylamine	ND	380	ug/kg
N-Nitrosodiphenylamine	ND	380	ug/kg
2,2'-oxybis(1-Chloropropane)	ND	380	ug/kg
Pentachlorophenol	ND	1800	ug/kg
Phenanthrene	**220 J**	**380**	**ug/kg**
Phenol	ND	380	ug/kg
Pyrene	**610**	**380**	**ug/kg**
2,4,5-Trichlorophenol	ND	380	ug/kg
2,4,6-Trichlorophenol	ND	380	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4,6-Tribromophenol	82	(10 - 117)
2-Fluorobiphenyl	77	(20 - 109)
2-Fluorophenol	70	(10 - 113)
Nitrobenzene-d5	71	(18 - 106)
Phenol-d5	77	(18 - 113)
Terphenyl-d14	102	(10 - 138)

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ERM Group Inc, The

Client Sample ID: 68-E-N15-SS-G-(0-0.25)-(B-75-1)-02122008

GC/MS Semivolatiles

Lot-Sample #...: C8B130194-004 **Work Order #...:** KG2DD1AH **Matrix.....:** SOLID

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

ERM Group Inc, The

Client Sample ID: 68-E-N15-SS-G-(0-0.25)-(B-75-1)-02122008

GC Semivolatiles

Lot-Sample #...:	C8B130194-004	**Work Order #...:**	KG2DD1AL	**Matrix.....:**	SOLID
Date Sampled...:	02/12/08	**Date Received..:**	02/13/08	**MS Run #.....:**	8045024
Prep Date.....:	02/14/08	**Analysis Date..:**	02/16/08		
Prep Batch #...:	8045042	**Analysis Time..:**	14:14		
Dilution Factor:	5				
% Moisture.....:	13	**Method.....:**	SW846 8081A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
alpha-BHC	ND	9.8	ug/kg
beta-BHC	ND	9.8	ug/kg
delta-BHC	**1.2 J,PG**	**9.8**	**ug/kg**
gamma-BHC (Lindane)	**3.0 J**	**9.8**	**ug/kg**
Heptachlor	ND	9.8	ug/kg
Aldrin	ND	9.8	ug/kg
Heptachlor epoxide	ND	9.8	ug/kg
Endosulfan I	ND	9.8	ug/kg
Dieldrin	ND	9.8	ug/kg
4,4'-DDE	ND	9.8	ug/kg
Endrin	ND	9.8	ug/kg
Endrin ketone	ND	9.8	ug/kg
Endrin aldehyde	ND	9.8	ug/kg
Endosulfan II	ND	9.8	ug/kg
4,4'-DDD	ND	9.8	ug/kg
Endosulfan sulfate	**8.1 J,PG**	**9.8**	**ug/kg**
4,4'-DDT	ND	9.8	ug/kg
Methoxychlor	ND	19	ug/kg
alpha-Chlordane	ND	9.8	ug/kg
gamma-Chlordane	**4.3 J,PG**	**9.8**	**ug/kg**
Toxaphene	ND	390	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	80	(31 - 131)
Decachlorobiphenyl	102	(18 - 145)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

PG The percent difference between the original and confirmation analyses is greater than 40%.

ERM Group Inc, The

Client Sample ID: 68-E-N15-SS-G-(0-0.25)-(B-75-1)-02122008

GC Semivolatiles

Lot-Sample #...:	C8B130194-004	**Work Order #...:**	KG2DD1AP	**Matrix.....:**	SOLID
Date Sampled...:	02/12/08	**Date Received..:**	02/13/08	**MS Run #.....:**	8045026
Prep Date.....:	02/14/08	**Analysis Date..:**	02/19/08		
Prep Batch #...:	8045043	**Analysis Time..:**	19:15		
Dilution Factor:	1				
% Moisture.....:	13	**Method.....:**	SW846 8082		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	38	ug/kg
Aroclor 1221	ND	38	ug/kg
Aroclor 1232	ND	38	ug/kg
Aroclor 1242	ND	38	ug/kg
Aroclor 1248	ND	38	ug/kg
Aroclor 1254	ND	38	ug/kg
Aroclor 1260	**380**	**38**	**ug/kg**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	71	(31 - 127)
Decachlorobiphenyl	86	(23 - 141)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

ERM Group Inc, The

Client Sample ID: 68-E-N15-SS-G-(0-0.25)-(B-75-1)-02122008

TOTAL Metals

Lot-Sample #...: C8B130194-004 Matrix.....: SOLID
Date Sampled...: 02/12/08 Date Received..: 02/13/08
% Moisture.....: 13

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8045014						
Mercury	0.35	0.038	mg/kg	SW846 7471A	02/14/08	KG2DD1D1
		Dilution Factor: 1		Analysis Time..: 07:39	MS Run #.....: 8045005	
Prep Batch #...: 8050208						
Silver	3.2	0.58	mg/kg	SW846 6010B	02/19-02/26/08	KG2DD1AT
		Dilution Factor: 1		Analysis Time..: 14:32	MS Run #.....: 8050112	
Aluminum	77700 J	46.2	mg/kg	SW846 6010B	02/19-02/27/08	KG2DD1AW
		Dilution Factor: 2		Analysis Time..: 10:30	MS Run #.....: 8050112	
Arsenic	4.5	1.2	mg/kg	SW846 6010B	02/19-02/26/08	KG2DD1A1
		Dilution Factor: 1		Analysis Time..: 14:32	MS Run #.....: 8050112	
Barium	94.3	23.1	mg/kg	SW846 6010B	02/19-02/26/08	KG2DD1A4
		Dilution Factor: 1		Analysis Time..: 14:32	MS Run #.....: 8050112	
Beryllium	0.89	0.46	mg/kg	SW846 6010B	02/19-02/26/08	KG2DD1A7
		Dilution Factor: 1		Analysis Time..: 14:32	MS Run #.....: 8050112	
Calcium	5540	578	mg/kg	SW846 6010B	02/19-02/26/08	KG2DD1CA
		Dilution Factor: 1		Analysis Time..: 14:32	MS Run #.....: 8050112	
Cadmium	4.6	0.58	mg/kg	SW846 6010B	02/19-02/26/08	KG2DD1CE
		Dilution Factor: 1		Analysis Time..: 14:32	MS Run #.....: 8050112	
Cobalt	17.1	5.8	mg/kg	SW846 6010B	02/19-02/26/08	KG2DD1CH
		Dilution Factor: 1		Analysis Time..: 14:32	MS Run #.....: 8050112	
Chromium	154	0.58	mg/kg	SW846 6010B	02/19-02/26/08	KG2DD1CL
		Dilution Factor: 1		Analysis Time..: 14:32	MS Run #.....: 8050112	
Copper	1420 J	5.8	mg/kg	SW846 6010B	02/19-02/27/08	KG2DD1CP
		Dilution Factor: 2		Analysis Time..: 10:30	MS Run #.....: 8050112	
Iron	12200	11.6	mg/kg	SW846 6010B	02/19-02/26/08	KG2DD1CT
		Dilution Factor: 1		Analysis Time..: 14:32	MS Run #.....: 8050112	

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ERM Group Inc, The

Client Sample ID: 68-E-N15-SS-G-(0-0.25)-(B-75-1)-02122008

TOTAL Metals

Lot-Sample #...: C8B130194-004 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Potassium	771	578	mg/kg	SW846 6010B	02/19-02/26/08	KG2DD1CW
		Dilution Factor: 1		Analysis Time..: 14:32	MS Run #.....: 8050112	
Magnesium	2980	578	mg/kg	SW846 6010B	02/19-02/26/08	KG2DD1C1
		Dilution Factor: 1		Analysis Time..: 14:32	MS Run #.....: 8050112	
Manganese	597	1.7	mg/kg	SW846 6010B	02/19-02/26/08	KG2DD1C4
		Dilution Factor: 1		Analysis Time..: 14:32	MS Run #.....: 8050112	
Sodium	ND	578	mg/kg	SW846 6010B	02/19-02/26/08	KG2DD1C7
		Dilution Factor: 1		Analysis Time..: 14:32	MS Run #.....: 8050112	
Nickel	98.2	4.6	mg/kg	SW846 6010B	02/19-02/26/08	KG2DD1DA
		Dilution Factor: 1		Analysis Time..: 14:32	MS Run #.....: 8050112	
Lead	325	0.69	mg/kg	SW846 6010B	02/19-02/27/08	KG2DD1DE
		Dilution Factor: 2		Analysis Time..: 10:30	MS Run #.....: 8050112	
Selenium	3.1	0.58	mg/kg	SW846 6010B	02/19-02/26/08	KG2DD1DH
		Dilution Factor: 1		Analysis Time..: 14:32	MS Run #.....: 8050112	
Thallium	ND	1.2	mg/kg	SW846 6010B	02/19-02/26/08	KG2DD1DL
		Dilution Factor: 1		Analysis Time..: 14:32	MS Run #.....: 8050112	
Antimony	6.4	1.2	mg/kg	SW846 6010B	02/19-02/26/08	KG2DD1DP
		Dilution Factor: 1		Analysis Time..: 14:32	MS Run #.....: 8050112	
Vanadium	65.7	5.8	mg/kg	SW846 6010B	02/19-02/26/08	KG2DD1DT
		Dilution Factor: 1		Analysis Time..: 14:32	MS Run #.....: 8050112	
Zinc	1110	2.3	mg/kg	SW846 6010B	02/19-02/26/08	KG2DD1DW
		Dilution Factor: 1		Analysis Time..: 14:32	MS Run #.....: 8050112	

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

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

ERM Group Inc, The

Client Sample ID: 68-E-N15-SS-G-(0-0.25)-(B-75-1)-02122008

General Chemistry

Lot-Sample #...: C8B130194-004 **Work Order #...:** KG2DD **Matrix.....:** SOLID
Date Sampled...: 02/12/08 **Date Received..:** 02/13/08
% Moisture.....: 13

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**86.5**	**1.0**	**%**	**SM20 2540G**	**02/14-02/15/08**	**8045027**

Dilution Factor: 1 Analysis Time..: 08:01 MS Run #.....: 8045015

ERM Group Inc, The

Client Sample ID: 68-E-Q15-SS-G-(0-0.25)-(C-8-2)-02112008

GC/MS Volatiles

Lot-Sample #...: C8B130194-005 **Work Order #...:** KG2ED1AF **Matrix.....:** SOLID
Date Sampled...: 02/12/08 **Date Received..:** 02/13/08 **MS Run #.....:** 8045038
Prep Date.....: 02/14/08 **Analysis Date..:** 02/14/08
Prep Batch #...: 8045053 **Analysis Time..:** 07:12
Dilution Factor: 0.91
% Moisture.....: 20 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	23	ug/kg
Benzene	ND	5.7	ug/kg
Bromodichloromethane	ND	5.7	ug/kg
Bromoform	ND	5.7	ug/kg
Bromomethane	ND	5.7	ug/kg
2-Butanone	ND	5.7	ug/kg
Carbon disulfide	ND	5.7	ug/kg
Carbon tetrachloride	ND	5.7	ug/kg
Chlorobenzene	ND	5.7	ug/kg
Chloroethane	ND	5.7	ug/kg
Chloroform	ND	5.7	ug/kg
Chloromethane	ND	5.7	ug/kg
Cyclohexane	ND	5.7	ug/kg
Dibromochloromethane	ND	5.7	ug/kg
1,2-Dibromo-3-chloro-propane	ND	5.7	ug/kg
1,2-Dibromoethane	ND	5.7	ug/kg
1,3-Dichlorobenzene	ND	5.7	ug/kg
1,4-Dichlorobenzene	ND	5.7	ug/kg
1,2-Dichlorobenzene	ND	5.7	ug/kg
Dichlorodifluoromethane	ND	5.7	ug/kg
1,1-Dichloroethane	ND	5.7	ug/kg
1,2-Dichloroethane	ND	5.7	ug/kg
1,1-Dichloroethene	ND	5.7	ug/kg
cis-1,2-Dichloroethene	ND	5.7	ug/kg
trans-1,2-Dichloroethene	ND	5.7	ug/kg
1,2-Dichloropropane	ND	5.7	ug/kg
cis-1,3-Dichloropropene	ND	5.7	ug/kg
trans-1,3-Dichloropropene	ND	5.7	ug/kg
Ethylbenzene	ND	5.7	ug/kg
2-Hexanone	ND	5.7	ug/kg
Isopropylbenzene	ND	5.7	ug/kg
Methyl acetate	ND	5.7	ug/kg
Methylene chloride	ND	5.7	ug/kg
Methylcyclohexane	ND	5.7	ug/kg
4-Methyl-2-pentanone	ND	5.7	ug/kg
Methyl tert-butyl ether	ND	5.7	ug/kg
Styrene	ND	5.7	ug/kg

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ERM Group Inc, The

Client Sample ID: 68-E-Q15-SS-G-(0-0.25)-(C-8-2)-02112008

GC/MS Volatiles

Lot-Sample #...: C8B130194-005 **Work Order #...:** KG2ED1AF **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
1,1,2,2-Tetrachloroethane	ND	5.7	ug/kg
1,2,4-Trichloro-benzene	ND	5.7	ug/kg
Tetrachloroethene	ND	5.7	ug/kg
1,1,1-Trichloroethane	ND	5.7	ug/kg
1,1,2-Trichloroethane	ND	5.7	ug/kg
Trichloroethene	ND	5.7	ug/kg
Trichlorofluoromethane	ND	5.7	ug/kg
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.7	ug/kg
Toluene	ND	5.7	ug/kg
Vinyl chloride	ND	5.7	ug/kg
Xylenes (total)	ND	17	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	110	(52 - 124)
Toluene-d8	100	(72 - 127)
4-Bromofluorobenzene	80	(63 - 120)
Dibromofluoromethane	102	(68 - 121)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

ERM Group Inc, The

Client Sample ID: 68-E-Q15-SS-G-(0-0.25)-(C-8-2)-02112008

GC/MS Semivolatiles

Lot-Sample #...:	C8B130194-005	**Work Order #...:**	KG2ED1AG	**Matrix.....:**	SOLID
Date Sampled...:	02/12/08	**Date Received..:**	02/13/08	**MS Run #.....:**	8045002
Prep Date.....:	02/14/08	**Analysis Date..:**	02/14/08		
Prep Batch #...:	8045011	**Analysis Time..:**	17:37		
Dilution Factor:	10				
% Moisture.....:	20	**Method.....:**	SW846 8270C		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acenaphthene	**1800 J**	**4100**	**ug/kg**
Acenaphthylene	**650 J**	**4100**	**ug/kg**
Acetophenone	ND	4100	ug/kg
Anthracene	**3500 J**	**4100**	**ug/kg**
Atrazine	ND	4100	ug/kg
Benzo(a)anthracene	**9900**	**4100**	**ug/kg**
Benzo(a)pyrene	**8300**	**4100**	**ug/kg**
Benzo(b)fluoranthene	**11000**	**4100**	**ug/kg**
Benzo(ghi)perylene	**7100**	**4100**	**ug/kg**
Benzo(k)fluoranthene	**4100**	**4100**	**ug/kg**
Benzaldehyde	ND	4100	ug/kg
1,1'-Biphenyl	ND	4100	ug/kg
bis(2-Chloroethoxy) methane	ND	4100	ug/kg
bis(2-Chloroethyl)-ether	ND	4100	ug/kg
bis(2-Ethylhexyl) phthalate	ND	4100	ug/kg
4-Bromophenyl phenyl ether	ND	4100	ug/kg
Butyl benzyl phthalate	ND	4100	ug/kg
Caprolactam	ND	4100	ug/kg
Carbazole	**1600 J**	**4100**	**ug/kg**
4-Chloroaniline	ND	4100	ug/kg
4-Chloro-3-methylphenol	ND	4100	ug/kg
2-Chloronaphthalene	ND	4100	ug/kg
2-Chlorophenol	ND	4100	ug/kg
4-Chlorophenyl phenyl ether	ND	4100	ug/kg
Chrysene	**10000**	**4100**	**ug/kg**
Dibenz(a,h)anthracene	**1600 J**	**4100**	**ug/kg**
Dibenzofuran	**710 J**	**4100**	**ug/kg**
3,3'-Dichlorobenzidine	ND	20000	ug/kg
2,4-Dichlorophenol	ND	4100	ug/kg
Diethyl phthalate	ND	4100	ug/kg
2,4-Dimethylphenol	ND	4100	ug/kg
Dimethyl phthalate	ND	4100	ug/kg
Di-n-butyl phthalate	ND	4100	ug/kg

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ERM Group Inc, The

Client Sample ID: 68-E-Q15-SS-G-(0-0.25)-(C-8-2)-02112008

GC/MS Semivolatiles

Lot-Sample #...: C8B130194-005 **Work Order #...:** KG2ED1AG **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4,6-Dinitro-2-methylphenol	ND	20000	ug/kg
2,4-Dinitrophenol	ND	20000	ug/kg
2,4-Dinitrotoluene	ND	4100	ug/kg
2,6-Dinitrotoluene	ND	4100	ug/kg
Di-n-octyl phthalate	ND	4100	ug/kg
Fluoranthene	**24000**	**4100**	**ug/kg**
Fluorene	**1400 J**	**4100**	**ug/kg**
Hexachlorobenzene	ND	4100	ug/kg
Hexachlorobutadiene	ND	4100	ug/kg
Hexachlorocyclopentadiene	ND	20000	ug/kg
Hexachloroethane	ND	4100	ug/kg
Indeno(1,2,3-cd)pyrene	**6700**	**4100**	**ug/kg**
Isophorone	ND	4100	ug/kg
2-Methylnaphthalene	**280 J**	**4100**	**ug/kg**
2-Methylphenol	ND	4100	ug/kg
4-Methylphenol	ND	4100	ug/kg
Naphthalene	**430 J**	**4100**	**ug/kg**
2-Nitroaniline	ND	20000	ug/kg
3-Nitroaniline	ND	20000	ug/kg
4-Nitroaniline	ND	20000	ug/kg
Nitrobenzene	ND	4100	ug/kg
2-Nitrophenol	ND	4100	ug/kg
4-Nitrophenol	ND	20000	ug/kg
N-Nitrosodi-n-propylamine	ND	4100	ug/kg
N-Nitrosodiphenylamine	ND	4100	ug/kg
2,2'-oxybis(1-Chloropropane)	ND	4100	ug/kg
Pentachlorophenol	ND	20000	ug/kg
Phenanthrene	**12000**	**4100**	**ug/kg**
Phenol	ND	4100	ug/kg
Pyrene	**20000**	**4100**	**ug/kg**
2,4,5-Trichlorophenol	ND	4100	ug/kg
2,4,6-Trichlorophenol	ND	4100	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4,6-Tribromophenol	65	(10 - 117)
2-Fluorobiphenyl	71	(20 - 109)
2-Fluorophenol	76	(10 - 113)
Nitrobenzene-d5	71	(18 - 106)
Phenol-d5	74	(18 - 113)
Terphenyl-d14	79	(10 - 138)

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ERM Group Inc, The

Client Sample ID: 68-E-Q15-SS-G-(0-0.25)-(C-8-2)-02112008

GC/MS Semivolatiles

Lot-Sample #...: C8B130194-005 **Work Order #...:** KG2ED1AG **Matrix.....:** SOLID

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

ERM Group Inc, The

Client Sample ID: 68-E-Q15-SS-G-(0-0.25)-(C-8-2)-02112008

GC Semivolatiles

Lot-Sample #...: C8B130194-005 **Work Order #...:** KG2ED1AH **Matrix.....:** SOLID
Date Sampled...: 02/12/08 **Date Received..:** 02/13/08 **MS Run #.....:** 8045024
Prep Date.....: 02/14/08 **Analysis Date..:** 02/16/08
Prep Batch #...: 8045042 **Analysis Time..:** 15:08
Dilution Factor: 100
% Moisture.....: 20 **Method.....:** SW846 8081A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
alpha-BHC	ND	210	ug/kg
beta-BHC	ND	210	ug/kg
delta-BHC	ND	210	ug/kg
gamma-BHC (Lindane)	ND	210	ug/kg
Heptachlor	ND	210	ug/kg
Aldrin	ND	210	ug/kg
Heptachlor epoxide	**31 J,PG**	**210**	**ug/kg**
Endosulfan I	ND	210	ug/kg
Dieldrin	ND	210	ug/kg
4,4'-DDE	ND	210	ug/kg
Endrin	ND	210	ug/kg
Endrin ketone	ND	210	ug/kg
Endrin aldehyde	ND	210	ug/kg
Endosulfan II	ND	210	ug/kg
4,4'-DDD	ND	210	ug/kg
Endosulfan sulfate	ND	210	ug/kg
4,4'-DDT	**140 J**	**210**	**ug/kg**
Methoxychlor	ND	410	ug/kg
alpha-Chlordane	ND	210	ug/kg
gamma-Chlordane	**54 J,PG**	**210**	**ug/kg**
Toxaphene	ND	8300	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	NC,DIL	(31 - 131)
Decachlorobiphenyl	NC,DIL	(18 - 145)

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.

J Estimated result. Result is less than RL.

PG The percent difference between the original and confirmation analyses is greater than 40%.

ERM Group Inc, The

Client Sample ID: 68-E-Q15-SS-G-(0-0.25)-(C-8-2)-02112008

GC Semivolatiles

Lot-Sample #...: C8B130194-005 **Work Order #...:** KG2ED1AJ **Matrix.....:** SOLID
Date Sampled...: 02/12/08 **Date Received..:** 02/13/08 **MS Run #.....:** 8045026
Prep Date.....: 02/14/08 **Analysis Date..:** 02/19/08
Prep Batch #...: 8045043 **Analysis Time..:** 19:35
Dilution Factor: 1
% Moisture.....: 20 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	41	ug/kg
Aroclor 1221	ND	41	ug/kg
Aroclor 1232	ND	41	ug/kg
Aroclor 1242	ND	41	ug/kg
Aroclor 1248	**81**	**41**	**ug/kg**
Aroclor 1254	ND	41	ug/kg
Aroclor 1260	**100**	**41**	**ug/kg**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	68	(31 - 127)
Decachlorobiphenyl	98	(23 - 141)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

ERM Group Inc, The

Client Sample ID: 68-E-Q15-SS-G-(0-0.25)-(C-8-2)-02112008

TOTAL Metals

Lot-Sample #...: C8B130194-005 Matrix.....: SOLID
Date Sampled...: 02/12/08 Date Received..: 02/13/08
% Moisture.....: 20

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8045014						
Mercury	1.3	0.041	mg/kg	SW846 7471A	02/14/08	KG2ED1A0
		Dilution Factor: 1		Analysis Time..: 07:44	MS Run #.....: 8045005	
Prep Batch #...: 8050208						
Silver	1.2	0.62	mg/kg	SW846 6010B	02/19-02/26/08	KG2ED1AK
		Dilution Factor: 1		Analysis Time..: 15:05	MS Run #.....: 8050112	
Aluminum	15000 J	24.9	mg/kg	SW846 6010B	02/19-02/26/08	KG2ED1AL
		Dilution Factor: 1		Analysis Time..: 15:05	MS Run #.....: 8050112	
Arsenic	8.1	1.2	mg/kg	SW846 6010B	02/19-02/26/08	KG2ED1AA
		Dilution Factor: 1		Analysis Time..: 15:05	MS Run #.....: 8050112	
Barium	259	24.9	mg/kg	SW846 6010B	02/19-02/26/08	KG2ED1AC
		Dilution Factor: 1		Analysis Time..: 15:05	MS Run #.....: 8050112	
Beryllium	0.59	0.50	mg/kg	SW846 6010B	02/19-02/26/08	KG2ED1AD
		Dilution Factor: 1		Analysis Time..: 15:05	MS Run #.....: 8050112	
Calcium	6960	623	mg/kg	SW846 6010B	02/19-02/26/08	KG2ED1AQ
		Dilution Factor: 1		Analysis Time..: 15:05	MS Run #.....: 8050112	
Cadmium	5.0	0.62	mg/kg	SW846 6010B	02/19-02/26/08	KG2ED1AR
		Dilution Factor: 1		Analysis Time..: 15:05	MS Run #.....: 8050112	
Cobalt	10.3	6.2	mg/kg	SW846 6010B	02/19-02/26/08	KG2ED1AT
		Dilution Factor: 1		Analysis Time..: 15:05	MS Run #.....: 8050112	
Chromium	78.1	0.62	mg/kg	SW846 6010B	02/19-02/26/08	KG2ED1AU
		Dilution Factor: 1		Analysis Time..: 15:05	MS Run #.....: 8050112	
Copper	175 J	3.1	mg/kg	SW846 6010B	02/19-02/26/08	KG2ED1AV
		Dilution Factor: 1		Analysis Time..: 15:05	MS Run #.....: 8050112	
Iron	44400	12.5	mg/kg	SW846 6010B	02/19-02/26/08	KG2ED1AW
		Dilution Factor: 1		Analysis Time..: 15:05	MS Run #.....: 8050112	

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ERM Group Inc, The

Client Sample ID: 68-E-Q15-SS-G-(0-0.25)-(C-8-2)-02112008

TOTAL Metals

Lot-Sample #...: C8B130194-005 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Potassium	976	623	mg/kg	SW846 6010B	02/19-02/26/08	KG2ED1AX
		Dilution Factor: 1		Analysis Time..: 15:05	MS Run #.....: 8050112	
Magnesium	2080	623	mg/kg	SW846 6010B	02/19-02/26/08	KG2ED1AM
		Dilution Factor: 1		Analysis Time..: 15:05	MS Run #.....: 8050112	
Manganese	577	1.9	mg/kg	SW846 6010B	02/19-02/26/08	KG2ED1AN
		Dilution Factor: 1		Analysis Time..: 15:05	MS Run #.....: 8050112	
Sodium	ND	623	mg/kg	SW846 6010B	02/19-02/26/08	KG2ED1AP
		Dilution Factor: 1		Analysis Time..: 15:05	MS Run #.....: 8050112	
Nickel	37.9	5.0	mg/kg	SW846 6010B	02/19-02/26/08	KG2ED1A1
		Dilution Factor: 1		Analysis Time..: 15:05	MS Run #.....: 8050112	
Lead	1840	1.9	mg/kg	SW846 6010B	02/19-02/27/08	KG2ED1A2
		Dilution Factor: 5		Analysis Time..: 10:52	MS Run #.....: 8050112	
Selenium	8.5	0.62	mg/kg	SW846 6010B	02/19-02/26/08	KG2ED1A3
		Dilution Factor: 1		Analysis Time..: 15:05	MS Run #.....: 8050112	
Thallium	ND	1.2	mg/kg	SW846 6010B	02/19-02/26/08	KG2ED1A4
		Dilution Factor: 1		Analysis Time..: 15:05	MS Run #.....: 8050112	
Antimony	0.86 B	1.2	mg/kg	SW846 6010B	02/19-02/26/08	KG2ED1A5
		Dilution Factor: 1		Analysis Time..: 15:05	MS Run #.....: 8050112	
Vanadium	34.6	6.2	mg/kg	SW846 6010B	02/19-02/26/08	KG2ED1A6
		Dilution Factor: 1		Analysis Time..: 15:05	MS Run #.....: 8050112	
Zinc	3570	12.5	mg/kg	SW846 6010B	02/19-02/27/08	KG2ED1A7
		Dilution Factor: 5		Analysis Time..: 10:52	MS Run #.....: 8050112	

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

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

B Estimated result. Result is less than RL.

ERM Group Inc, The

Client Sample ID: 68-E-Q15-SS-G-(0-0.25)-(C-8-2)-02112008

General Chemistry

Lot-Sample #...: C8B130194-005 **Work Order #...:** KG2ED **Matrix.....:** SOLID
Date Sampled...: 02/12/08 **Date Received..:** 02/13/08
% Moisture.....: 20

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**80.3**	**1.0**	**%**	**SM20 2540G**	**02/14-02/15/08**	**8045027**

Dilution Factor: 1 Analysis Time..: 08:01 MS Run #.....: 8045015

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: C8B130194 **Work Order #...:** KG3M11AA **Matrix.....:** SOLID
MB Lot-Sample #: C8B140000-053
Prep Date.....: 02/14/08 **Analysis Time..:** 06:25
Analysis Date..: 02/14/08 **Prep Batch #...:** 8045053
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	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	5.0	ug/kg	SW846 8260B
2-Butanone	ND	5.0	ug/kg	SW846 8260B
Carbon disulfide	ND	5.0	ug/kg	SW846 8260B
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260B
Chlorobenzene	ND	5.0	ug/kg	SW846 8260B
Chloroethane	ND	5.0	ug/kg	SW846 8260B
Chloroform	ND	5.0	ug/kg	SW846 8260B
Chloromethane	ND	5.0	ug/kg	SW846 8260B
Cyclohexane	ND	5.0	ug/kg	SW846 8260B
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	5.0	ug/kg	SW846 8260B
1,2-Dibromoethane	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
1,2-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
Dichlorodifluoromethane	ND	5.0	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
cis-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
trans-1,2-Dichloroethene	ND	5.0	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	5.0	ug/kg	SW846 8260B
Isopropylbenzene	ND	5.0	ug/kg	SW846 8260B
Methyl acetate	ND	5.0	ug/kg	SW846 8260B
Methylene chloride	**1.1 J**	**5.0**	**ug/kg**	**SW846 8260B**
Methylcyclohexane	ND	5.0	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/kg	SW846 8260B
Methyl tert-butyl ether	ND	5.0	ug/kg	SW846 8260B
Styrene	ND	5.0	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: C8B130194 **Work Order #...:** KG3M11AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Tetrachloroethene	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
Trichlorofluoromethane	ND	5.0	ug/kg	SW846 8260B
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0	ug/kg	SW846 8260B
Toluene	ND	5.0	ug/kg	SW846 8260B
Vinyl chloride	ND	5.0	ug/kg	SW846 8260B
Xylenes (total)	ND	15	ug/kg	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	89	(52 - 124)
Toluene-d8	99	(72 - 127)
4-Bromofluorobenzene	82	(63 - 120)
Dibromofluoromethane	89	(68 - 121)

NOTE(S):

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

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: C8B130194 **Work Order #...:** KHAF61AA **Matrix.....:** WATER
MB Lot-Sample #: C8B190000-242

Prep Date.....: 02/19/08 **Analysis Time..:** 07:27
Analysis Date..: 02/19/08 **Prep Batch #...:** 8050242
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	20	ug/L	SW846 8260B
Benzene	ND	5.0	ug/L	SW846 8260B
Bromodichloromethane	ND	5.0	ug/L	SW846 8260B
Bromoform	ND	5.0	ug/L	SW846 8260B
Bromomethane	ND	5.0	ug/L	SW846 8260B
2-Butanone	ND	5.0	ug/L	SW846 8260B
Carbon disulfide	ND	5.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	5.0	ug/L	SW846 8260B
Chlorobenzene	ND	5.0	ug/L	SW846 8260B
Chloroethane	ND	5.0	ug/L	SW846 8260B
Chloroform	ND	5.0	ug/L	SW846 8260B
Chloromethane	ND	5.0	ug/L	SW846 8260B
Cyclohexane	ND	5.0	ug/L	SW846 8260B
Dibromochloromethane	ND	5.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	5.0	ug/L	SW846 8260B
1,2-Dibromoethane	ND	5.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	ND	5.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	5.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	5.0	ug/L	SW846 8260B
Dichlorodifluoromethane	ND	5.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	5.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	5.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	5.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	5.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	5.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	5.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	5.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	5.0	ug/L	SW846 8260B
Ethylbenzene	ND	5.0	ug/L	SW846 8260B
2-Hexanone	ND	5.0	ug/L	SW846 8260B
Isopropylbenzene	ND	5.0	ug/L	SW846 8260B
Methyl acetate	ND	5.0	ug/L	SW846 8260B
Methylene chloride	ND	5.0	ug/L	SW846 8260B
Methylcyclohexane	ND	5.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
Methyl tert-butyl ether	ND	5.0	ug/L	SW846 8260B
Styrene	ND	5.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L	SW846 8260B
1,2,4-Trichloro-benzene	ND	5.0	ug/L	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: C8B130194 **Work Order #...:** KHAF61AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Tetrachloroethene	ND	5.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	5.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	5.0	ug/L	SW846 8260B
Trichloroethene	ND	5.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	5.0	ug/L	SW846 8260B
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0	ug/L	SW846 8260B
Toluene	ND	5.0	ug/L	SW846 8260B
Vinyl chloride	ND	5.0	ug/L	SW846 8260B
Xylenes (total)	ND	15	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	112	(70 - 125)
Toluene-d8	96	(80 - 120)
4-Bromofluorobenzene	96	(75 - 120)
Dibromofluoromethane	97	(80 - 120)

NOTE(S):

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

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: C8B130194 **Work Order #...:** KG3LA1AA **Matrix.....:** SOLID
MB Lot-Sample #: C8B140000-011

Prep Date.....: 02/14/08 **Analysis Time..:** 10:34
Analysis Date..: 02/14/08 **Prep Batch #...:** 8045011
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
Anthracene	ND	330	ug/kg	SW846 8270C
Atrazine	ND	330	ug/kg	SW846 8270C
Benzo(a)anthracene	ND	330	ug/kg	SW846 8270C
Benzo(a)pyrene	ND	330	ug/kg	SW846 8270C
Benzo(b)fluoranthene	ND	330	ug/kg	SW846 8270C
Benzo(ghi)perylene	ND	330	ug/kg	SW846 8270C
Benzo(k)fluoranthene	ND	330	ug/kg	SW846 8270C
Benzaldehyde	ND	330	ug/kg	SW846 8270C
1,1'-Biphenyl	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
Caprolactam	ND	330	ug/kg	SW846 8270C
Carbazole	ND	330	ug/kg	SW846 8270C
4-Chloroaniline	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
Dibenz(a,h)anthracene	ND	330	ug/kg	SW846 8270C
Dibenzofuran	ND	330	ug/kg	SW846 8270C
3,3'-Dichlorobenzidine	ND	1600	ug/kg	SW846 8270C
2,4-Dichlorophenol	ND	330	ug/kg	SW846 8270C
Diethyl phthalate	ND	330	ug/kg	SW846 8270C
2,4-Dimethylphenol	ND	330	ug/kg	SW846 8270C
Dimethyl phthalate	ND	330	ug/kg	SW846 8270C
Di-n-butyl phthalate	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

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: C8B130194 **Work Order #...:** KG3LA1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
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
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
Indeno(1,2,3-cd)pyrene	ND	330	ug/kg	SW846 8270C
Isophorone	ND	330	ug/kg	SW846 8270C
2-Methylnaphthalene	ND	330	ug/kg	SW846 8270C
2-Methylphenol	ND	330	ug/kg	SW846 8270C
4-Methylphenol	ND	330	ug/kg	SW846 8270C
Naphthalene	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
2-Nitrophenol	ND	330	ug/kg	SW846 8270C
4-Nitrophenol	ND	1600	ug/kg	SW846 8270C
N-Nitrosodi-n-propyl-amine	ND	330	ug/kg	SW846 8270C
N-Nitrosodiphenylamine	ND	330	ug/kg	SW846 8270C
2,2'-oxybis(1-Chloropropa	ND	330	ug/kg	SW846 8270C
Pentachlorophenol	ND	1600	ug/kg	SW846 8270C
Phenanthrene	ND	330	ug/kg	SW846 8270C
Phenol	ND	330	ug/kg	SW846 8270C
Pyrene	ND	330	ug/kg	SW846 8270C
2,4,5-Trichloro-phenol	ND	330	ug/kg	SW846 8270C
2,4,6-Trichloro-phenol	ND	330	ug/kg	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4,6-Tribromophenol	81	(10 - 117)
2-Fluorobiphenyl	66	(20 - 109)
2-Fluorophenol	70	(10 - 113)
Nitrobenzene-d5	73	(18 - 106)
Phenol-d5	73	(18 - 113)
Terphenyl-d14	96	(10 - 138)

NOTE(S):

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

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: C8B130194 **Work Order #...:** KG34R1AA **Matrix.....:** WATER
MB Lot-Sample #: C8B140000-192
Prep Date.....: 02/14/08 **Analysis Time..:** 10:46
Analysis Date..: 02/15/08 **Prep Batch #...:** 8045192
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acenaphthene	ND	2.0	ug/L	SW846 8270C
Acenaphthylene	ND	2.0	ug/L	SW846 8270C
Acetophenone	ND	10	ug/L	SW846 8270C
Anthracene	ND	2.0	ug/L	SW846 8270C
Atrazine	ND	10	ug/L	SW846 8270C
Benzo(a)anthracene	ND	2.0	ug/L	SW846 8270C
Benzo(a)pyrene	ND	2.0	ug/L	SW846 8270C
Benzo(b)fluoranthene	ND	2.0	ug/L	SW846 8270C
Benzo(ghi)perylene	ND	2.0	ug/L	SW846 8270C
Benzo(k)fluoranthene	ND	2.0	ug/L	SW846 8270C
Benzaldehyde	ND	10	ug/L	SW846 8270C
1,1'-Biphenyl	ND	10	ug/L	SW846 8270C
bis(2-Chloroethoxy) methane	ND	10	ug/L	SW846 8270C
bis(2-Chloroethyl)-ether	ND	2.0	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
Caprolactam	ND	10	ug/L	SW846 8270C
Carbazole	ND	2.0	ug/L	SW846 8270C
4-Chloroaniline	ND	10	ug/L	SW846 8270C
4-Chloro-3-methylphenol	ND	10	ug/L	SW846 8270C
2-Chloronaphthalene	ND	2.0	ug/L	SW846 8270C
2-Chlorophenol	ND	10	ug/L	SW846 8270C
4-Chlorophenyl phenyl ether	ND	10	ug/L	SW846 8270C
Chrysene	ND	2.0	ug/L	SW846 8270C
Dibenz(a,h)anthracene	ND	2.0	ug/L	SW846 8270C
Dibenzofuran	ND	10	ug/L	SW846 8270C
3,3'-Dichlorobenzidine	ND	10	ug/L	SW846 8270C
2,4-Dichlorophenol	ND	2.0	ug/L	SW846 8270C
Diethyl phthalate	ND	10	ug/L	SW846 8270C
2,4-Dimethylphenol	ND	10	ug/L	SW846 8270C
Dimethyl phthalate	ND	10	ug/L	SW846 8270C
Di-n-butyl phthalate	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

(Continued on next page)

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: C8B130194 **Work Order #...:** KG34R1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
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
Fluoranthene	ND	2.0	ug/L	SW846 8270C
Fluorene	ND	2.0	ug/L	SW846 8270C
Hexachlorobenzene	ND	2.0	ug/L	SW846 8270C
Hexachlorobutadiene	ND	2.0	ug/L	SW846 8270C
Hexachlorocyclopenta-diene	ND	10	ug/L	SW846 8270C
Hexachloroethane	ND	10	ug/L	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	2.0	ug/L	SW846 8270C
Isophorone	ND	10	ug/L	SW846 8270C
2-Methylnaphthalene	ND	2.0	ug/L	SW846 8270C
2-Methylphenol	ND	10	ug/L	SW846 8270C
4-Methylphenol	ND	10	ug/L	SW846 8270C
Naphthalene	ND	2.0	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	2.0	ug/L	SW846 8270C
2-Nitrophenol	ND	10	ug/L	SW846 8270C
4-Nitrophenol	ND	50	ug/L	SW846 8270C
N-Nitrosodi-n-propyl-amine	ND	2.0	ug/L	SW846 8270C
N-Nitrosodiphenylamine	ND	2.0	ug/L	SW846 8270C
2,2'-oxybis(1-Chloropropa	ND	2.0	ug/L	SW846 8270C
Pentachlorophenol	ND	10	ug/L	SW846 8270C
Phenanthrene	ND	2.0	ug/L	SW846 8270C
Phenol	ND	2.0	ug/L	SW846 8270C
Pyrene	ND	2.0	ug/L	SW846 8270C
2,4,5-Trichloro-phenol	ND	10	ug/L	SW846 8270C
2,4,6-Trichloro-phenol	ND	10	ug/L	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4,6-Tribromophenol	72	(20 - 107)
2-Fluorobiphenyl	65	(27 - 104)
2-Fluorophenol	70	(17 - 102)
Nitrobenzene-d5	74	(33 - 103)
Phenol-d5	70	(25 - 107)
Terphenyl-d14	73	(14 - 127)

NOTE(S):

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

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: C8B130194 **Work Order #...:** KG2WG1AA **Matrix.....:** WATER
MB Lot-Sample #: C8B130000-392
Prep Date.....: 02/13/08 **Analysis Time..:** 15:32
Analysis Date..: 02/14/08 **Prep Batch #...:** 8044392
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
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
Heptachlor	ND	0.050	ug/L	SW846 8081A
Aldrin	ND	0.050	ug/L	SW846 8081A
Heptachlor epoxide	ND	0.050	ug/L	SW846 8081A
Endosulfan I	ND	0.050	ug/L	SW846 8081A
Dieldrin	ND	0.050	ug/L	SW846 8081A
4,4'-DDE	ND	0.050	ug/L	SW846 8081A
Endrin	ND	0.050	ug/L	SW846 8081A
Endrin ketone	ND	0.050	ug/L	SW846 8081A
Endrin aldehyde	ND	0.050	ug/L	SW846 8081A
Endosulfan II	ND	0.050	ug/L	SW846 8081A
4,4'-DDD	ND	0.050	ug/L	SW846 8081A
Endosulfan sulfate	ND	0.050	ug/L	SW846 8081A
4,4'-DDT	ND	0.050	ug/L	SW846 8081A
Methoxychlor	ND	0.10	ug/L	SW846 8081A
alpha-Chlordane	ND	0.050	ug/L	SW846 8081A
gamma-Chlordane	ND	0.050	ug/L	SW846 8081A
Toxaphene	ND	2.0	ug/L	SW846 8081A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	82	(39 - 130)
Decachlorobiphenyl	91	(10 - 147)

NOTE(S):

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

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: C8B130194 **Work Order #...:** KG3MH1AA **Matrix.....:** SOLID
MB Lot-Sample #: C8B140000-042

Prep Date.....: 02/14/08 **Analysis Time..:** 15:26
Analysis Date..: 02/16/08 **Prep Batch #...:** 8045042
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
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
Heptachlor	ND	1.7	ug/kg	SW846 8081A
Aldrin	ND	1.7	ug/kg	SW846 8081A
Heptachlor epoxide	ND	1.7	ug/kg	SW846 8081A
Endosulfan I	ND	1.7	ug/kg	SW846 8081A
Dieldrin	ND	1.7	ug/kg	SW846 8081A
4,4'-DDE	ND	1.7	ug/kg	SW846 8081A
Endrin	ND	1.7	ug/kg	SW846 8081A
Endrin ketone	ND	1.7	ug/kg	SW846 8081A
Endrin aldehyde	ND	1.7	ug/kg	SW846 8081A
Endosulfan II	ND	1.7	ug/kg	SW846 8081A
4,4'-DDD	ND	1.7	ug/kg	SW846 8081A
Endosulfan sulfate	ND	1.7	ug/kg	SW846 8081A
4,4'-DDT	ND	1.7	ug/kg	SW846 8081A
Methoxychlor	ND	3.3	ug/kg	SW846 8081A
alpha-Chlordane	ND	1.7	ug/kg	SW846 8081A
gamma-Chlordane	ND	1.7	ug/kg	SW846 8081A
Toxaphene	ND	67	ug/kg	SW846 8081A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	109	(31 - 131)
Decachlorobiphenyl	108	(18 - 145)

NOTE(S):

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

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: C8B130194 **Work Order #...:** KG2WH1AA **Matrix.....:** WATER
MB Lot-Sample #: C8B130000-393
Prep Date.....: 02/13/08 **Analysis Time..:** 20:17
Analysis Date..: 02/15/08 **Prep Batch #...:** 8044393
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	0.40	ug/L	SW846 8082
Aroclor 1221	ND	0.40	ug/L	SW846 8082
Aroclor 1232	ND	0.40	ug/L	SW846 8082
Aroclor 1242	ND	0.40	ug/L	SW846 8082
Aroclor 1248	ND	0.40	ug/L	SW846 8082
Aroclor 1254	ND	0.40	ug/L	SW846 8082
Aroclor 1260	ND	0.40	ug/L	SW846 8082

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	88	(45 - 120)
Decachlorobiphenyl	100	(24 - 128)

NOTE(S):

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

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: C8B130194 **Work Order #...:** KG3MM1AA **Matrix.....:** SOLID
MB Lot-Sample #: C8B140000-043

Prep Date.....: 02/14/08 **Analysis Time..:** 02:12
Analysis Date..: 02/16/08 **Prep Batch #...:** 8045043
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	33	ug/kg	SW846 8082
Aroclor 1221	ND	33	ug/kg	SW846 8082
Aroclor 1232	ND	33	ug/kg	SW846 8082
Aroclor 1242	ND	33	ug/kg	SW846 8082
Aroclor 1248	ND	33	ug/kg	SW846 8082
Aroclor 1254	ND	33	ug/kg	SW846 8082
Aroclor 1260	ND	33	ug/kg	SW846 8082

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	100	(31 - 127)
Decachlorobiphenyl	109	(23 - 141)

NOTE(S):

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

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: C8B130194 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: C8B140000-014 **Prep Batch #...:** 8045014						
Mercury	ND	0.033	mg/kg	SW846 7471A	02/14/08	KG3LF1AA
		Dilution Factor: 1				
		Analysis Time..: 07:35				
MB Lot-Sample #: C8B190000-208 **Prep Batch #...:** 8050208						
Silver	ND	0.50	mg/kg	SW846 6010B	02/19-02/26/08	KG9911AA
		Dilution Factor: 1				
		Analysis Time..: 14:21				
Aluminum	**1.8 B**	**20.0**	**mg/kg**	**SW846 6010B**	**02/19-02/26/08**	**KG9911AC**
		Dilution Factor: 1				
		Analysis Time..: 14:21				
Arsenic	ND	1.0	mg/kg	SW846 6010B	02/19-02/26/08	KG9911AD
		Dilution Factor: 1				
		Analysis Time..: 14:21				
Barium	ND	20.0	mg/kg	SW846 6010B	02/19-02/26/08	KG9911AE
		Dilution Factor: 1				
		Analysis Time..: 14:21				
Beryllium	ND	0.40	mg/kg	SW846 6010B	02/19-02/26/08	KG9911AF
		Dilution Factor: 1				
		Analysis Time..: 14:21				
Calcium	ND	500	mg/kg	SW846 6010B	02/19-02/26/08	KG9911AG
		Dilution Factor: 1				
		Analysis Time..: 14:21				
Cadmium	ND	0.50	mg/kg	SW846 6010B	02/19-02/26/08	KG9911AH
		Dilution Factor: 1				
		Analysis Time..: 14:21				
Cobalt	ND	5.0	mg/kg	SW846 6010B	02/19-02/26/08	KG9911AJ
		Dilution Factor: 1				
		Analysis Time..: 14:21				
Chromium	ND	0.50	mg/kg	SW846 6010B	02/19-02/26/08	KG9911AK
		Dilution Factor: 1				
		Analysis Time..: 14:21				

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: C8B130194 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	**0.14 B**	**2.5**	**mg/kg**	**SW846 6010B**	**02/19-02/26/08**	**KG9911AL**
		Dilution Factor: 1				
		Analysis Time..: 14:21				
Iron	ND	10.0	mg/kg	SW846 6010B	02/19-02/26/08	KG9911AM
		Dilution Factor: 1				
		Analysis Time..: 14:21				
Potassium	ND	500	mg/kg	SW846 6010B	02/19-02/26/08	KG9911AN
		Dilution Factor: 1				
		Analysis Time..: 14:21				
Magnesium	ND	500	mg/kg	SW846 6010B	02/19-02/26/08	KG9911AP
		Dilution Factor: 1				
		Analysis Time..: 14:21				
Manganese	ND	1.5	mg/kg	SW846 6010B	02/19-02/26/08	KG9911AQ
		Dilution Factor: 1				
		Analysis Time..: 14:21				
Sodium	ND	500	mg/kg	SW846 6010B	02/19-02/26/08	KG9911AR
		Dilution Factor: 1				
		Analysis Time..: 14:21				
Nickel	ND	4.0	mg/kg	SW846 6010B	02/19-02/26/08	KG9911AT
		Dilution Factor: 1				
		Analysis Time..: 14:21				
Lead	ND	0.30	mg/kg	SW846 6010B	02/19-02/26/08	KG9911AU
		Dilution Factor: 1				
		Analysis Time..: 14:21				
Selenium	ND	0.50	mg/kg	SW846 6010B	02/19-02/26/08	KG9911AV
		Dilution Factor: 1				
		Analysis Time..: 14:21				
Thallium	ND	1.0	mg/kg	SW846 6010B	02/19-02/26/08	KG9911AW
		Dilution Factor: 1				
		Analysis Time..: 14:21				
Antimony	ND	1.0	mg/kg	SW846 6010B	02/19-02/26/08	KG9911AX
		Dilution Factor: 1				
		Analysis Time..: 14:21				
Vanadium	ND	5.0	mg/kg	SW846 6010B	02/19-02/26/08	KG9911A0
		Dilution Factor: 1				
		Analysis Time..: 14:21				

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: C8B130194 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc	ND	2.0	mg/kg	SW846 6010B	02/19-02/26/08	KG9911A1

Dilution Factor: 1
Analysis Time..: 14:21

NOTE(S):

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

B Estimated result. Result is less than RL.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: C8B130194 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: C8B150000-195 **Prep Batch #...:** 8046195						
Mercury	ND	0.20	ug/L	SW846 7470A	02/15/08	KG56E1AA
		Dilution Factor: 1				
		Analysis Time..: 15:48				
MB Lot-Sample #: C8B280000-361 **Prep Batch #...:** 8059361						
Silver	ND	5.0	ug/L	SW846 6010B	02/28-03/03/08	KHRLE1AA
		Dilution Factor: 1				
		Analysis Time..: 10:47				
Aluminum	**21.1 B**	**200**	**ug/L**	**SW846 6010B**	**02/28-03/03/08**	**KHRLE1AC**
		Dilution Factor: 1				
		Analysis Time..: 10:47				
Arsenic	ND	10.0	ug/L	SW846 6010B	02/28-03/03/08	KHRLE1AD
		Dilution Factor: 1				
		Analysis Time..: 10:47				
Barium	ND	200	ug/L	SW846 6010B	02/28-03/03/08	KHRLE1AE
		Dilution Factor: 1				
		Analysis Time..: 10:47				
Beryllium	ND	4.0	ug/L	SW846 6010B	02/28-03/03/08	KHRLE1AF
		Dilution Factor: 1				
		Analysis Time..: 10:47				
Calcium	**31.6 B**	**5000**	**ug/L**	**SW846 6010B**	**02/28-03/03/08**	**KHRLE1AG**
		Dilution Factor: 1				
		Analysis Time..: 10:47				
Cadmium	ND	5.0	ug/L	SW846 6010B	02/28-03/03/08	KHRLE1AH
		Dilution Factor: 1				
		Analysis Time..: 10:47				
Cobalt	ND	50.0	ug/L	SW846 6010B	02/28-03/03/08	KHRLE1AJ
		Dilution Factor: 1				
		Analysis Time..: 10:47				
Chromium	ND	5.0	ug/L	SW846 6010B	02/28-03/03/08	KHRLE1AK
		Dilution Factor: 1				
		Analysis Time..: 10:47				

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: C8B130194 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	ND	25.0	ug/L	SW846 6010B	02/28-03/03/08	KHRLE1AL
		Dilution Factor: 1				
		Analysis Time..: 10:47				
Iron	ND	100	ug/L	SW846 6010B	02/28-03/03/08	KHRLE1AM
		Dilution Factor: 1				
		Analysis Time..: 10:47				
Potassium	ND	5000	ug/L	SW846 6010B	02/28-03/03/08	KHRLE1AN
		Dilution Factor: 1				
		Analysis Time..: 10:47				
Magnesium	**24.6 B**	**5000**	**ug/L**	**SW846 6010B**	**02/28-03/03/08**	**KHRLE1AP**
		Dilution Factor: 1				
		Analysis Time..: 10:47				
Manganese	ND	15.0	ug/L	SW846 6010B	02/28-03/03/08	KHRLE1AQ
		Dilution Factor: 1				
		Analysis Time..: 10:47				
Sodium	ND	5000	ug/L	SW846 6010B	02/28-03/03/08	KHRLE1AR
		Dilution Factor: 1				
		Analysis Time..: 10:47				
Nickel	ND	40.0	ug/L	SW846 6010B	02/28-03/03/08	KHRLE1AT
		Dilution Factor: 1				
		Analysis Time..: 10:47				
Lead	ND	3.0	ug/L	SW846 6010B	02/28-03/03/08	KHRLE1AU
		Dilution Factor: 1				
		Analysis Time..: 10:47				
Selenium	ND	5.0	ug/L	SW846 6010B	02/28-03/03/08	KHRLE1AV
		Dilution Factor: 1				
		Analysis Time..: 10:47				
Thallium	**3.4 B**	**10.0**	**ug/L**	**SW846 6010B**	**02/28-03/03/08**	**KHRLE1AW**
		Dilution Factor: 1				
		Analysis Time..: 10:47				
Antimony	ND	10.0	ug/L	SW846 6010B	02/28-03/03/08	KHRLE1AX
		Dilution Factor: 1				
		Analysis Time..: 10:47				
Vanadium	ND	50.0	ug/L	SW846 6010B	02/28-03/03/08	KHRLE1A0
		Dilution Factor: 1				
		Analysis Time..: 10:47				

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: C8B130194 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc	**4.1 B**	**20.0**	**ug/L**	**SW846 6010B**	**02/28-03/03/08**	**KHRLE1A1**

Dilution Factor: 1
Analysis Time..: 10:47

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

GC/MS Volatiles

Client Lot #...: C8B130194 **Work Order #...:** KG3M11AC **Matrix.....:** SOLID
LCS Lot-Sample#: C8B140000-053
Prep Date.....: 02/14/08 **Analysis Date..:** 02/14/08
Prep Batch #...: 8045053 **Analysis Time..:** 07:36
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Benzene	**94**	**(77 - 120)**	**SW846 8260B**
Chlorobenzene	**103**	**(79 - 120)**	**SW846 8260B**
1,1-Dichloroethene	**103**	**(59 - 129)**	**SW846 8260B**
Trichloroethene	**95**	**(76 - 119)**	**SW846 8260B**
Toluene	**103**	**(78 - 124)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	94	(52 - 124)
Toluene-d8	102	(72 - 127)
4-Bromofluorobenzene	82	(63 - 120)
Dibromofluoromethane	91	(68 - 121)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: C8B130194 **Work Order #...:** KHAF61AC **Matrix.....:** WATER
LCS Lot-Sample#: C8B190000-242
Prep Date.....: 02/19/08 **Analysis Date..:** 02/19/08
Prep Batch #...: 8050242 **Analysis Time..:** 08:57
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Benzene	**92**	**(80 - 120)**	**SW846 8260B**
Chlorobenzene	**90**	**(81 - 120)**	**SW846 8260B**
1,1-Dichloroethene	**76**	**(69 - 127)**	**SW846 8260B**
Trichloroethene	**90**	**(83 - 118)**	**SW846 8260B**
Toluene	**89**	**(79 - 122)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	88	(70 - 125)
Toluene-d8	89	(80 - 120)
4-Bromofluorobenzene	88	(75 - 120)
Dibromofluoromethane	94	(80 - 120)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: C8B130194 **Work Order #...:** KG3LA1AC **Matrix.....:** SOLID
LCS Lot-Sample#: C8B140000-011
Prep Date.....: 02/14/08 **Analysis Date..:** 02/14/08
Prep Batch #...: 8045011 **Analysis Time..:** 11:02
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Acenaphthene	**67**	**(38 - 112)**	**SW846 8270C**
1,2,4-Trichloro-benzene	**65**	**(37 - 111)**	**SW846 8270C**
1,4-Dichlorobenzene	**62**	**(36 - 107)**	**SW846 8270C**
4-Bromophenyl phenyl ether	**74**	**(46 - 120)**	**SW846 8270C**
Butyl benzyl phthalate	**79**	**(47 - 115)**	**SW846 8270C**
4-Chloro-3-methylphenol	**74**	**(39 - 111)**	**SW846 8270C**
2-Chlorophenol	**66**	**(38 - 109)**	**SW846 8270C**
2,4-Dinitrotoluene	**81**	**(35 - 117)**	**SW846 8270C**
Hexachloroethane	**64**	**(40 - 106)**	**SW846 8270C**
4-Methylphenol	**70**	**(41 - 117)**	**SW846 8270C**
Naphthalene	**64**	**(44 - 109)**	**SW846 8270C**
4-Nitrophenol	**71**	**(30 - 125)**	**SW846 8270C**
N-Nitrosodi-n-propyl-amine	**74**	**(36 - 114)**	**SW846 8270C**
Pentachlorophenol	**77**	**(21 - 127)**	**SW846 8270C**
Phenol	**66**	**(36 - 110)**	**SW846 8270C**
Pyrene	**76**	**(43 - 118)**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4,6-Tribromophenol	91	(10 - 117)
2-Fluorobiphenyl	70	(20 - 109)
2-Fluorophenol	70	(10 - 113)
Nitrobenzene-d5	76	(18 - 106)
Phenol-d5	72	(18 - 113)
Terphenyl-d14	90	(10 - 138)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: C8B130194 **Work Order #...:** KG34R1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: C8B140000-192 KG34R1AD-LCSD
Prep Date.....: 02/14/08 **Analysis Date..:** 02/15/08
Prep Batch #...: 8045192 **Analysis Time..:** 11:14
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acenaphthene	61	(40 - 97)			SW846 8270C
	67	(40 - 97)	9.2	(0-32)	SW846 8270C
1,2,4-Trichloro-benzene	59	(39 - 97)			SW846 8270C
	64	(39 - 97)	8.0	(0-32)	SW846 8270C
1,4-Dichlorobenzene	55	(38 - 94)			SW846 8270C
	62	(38 - 94)	11	(0-33)	SW846 8270C
4-Bromophenyl phenyl ether	68	(40 - 105)			SW846 8270C
	73	(40 - 105)	6.3	(0-40)	SW846 8270C
Butyl benzyl phthalate	64	(39 - 105)			SW846 8270C
	70	(39 - 105)	8.9	(0-35)	SW846 8270C
4-Chloro-3-methylphenol	62	(38 - 100)			SW846 8270C
	68	(38 - 100)	8.4	(0-32)	SW846 8270C
2-Chlorophenol	57	(38 - 97)			SW846 8270C
	64	(38 - 97)	11	(0-31)	SW846 8270C
2,4-Dinitrotoluene	66	(37 - 103)			SW846 8270C
	73	(37 - 103)	11	(0-32)	SW846 8270C
Hexachloroethane	52	(35 - 96)			SW846 8270C
	58	(35 - 96)	11	(0-43)	SW846 8270C
4-Methylphenol	63	(33 - 106)			SW846 8270C
	67	(33 - 106)	6.7	(0-34)	SW846 8270C
Naphthalene	58	(38 - 98)			SW846 8270C
	63	(38 - 98)	7.4	(0-39)	SW846 8270C
4-Nitrophenol	58	(30 - 112)			SW846 8270C
	66	(30 - 112)	13	(0-39)	SW846 8270C
N-Nitrosodi-n-propyl-amine	69	(36 - 102)			SW846 8270C
	73	(36 - 102)	5.9	(0-36)	SW846 8270C
Pentachlorophenol	68	(13 - 120)			SW846 8270C
	75	(13 - 120)	9.6	(0-56)	SW846 8270C
Phenol	58	(36 - 98)			SW846 8270C
	63	(36 - 98)	8.2	(0-35)	SW846 8270C
Pyrene	61	(39 - 108)			SW846 8270C
	66	(39 - 108)	7.4	(0-38)	SW846 8270C

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: C8B130194 **Work Order #...:** KG34R1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: C8B140000-192 KG34R1AD-LCSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4,6-Tribromophenol	77	(20 - 107)
	80	(20 - 107)
2-Fluorobiphenyl	66	(27 - 104)
	68	(27 - 104)
2-Fluorophenol	58	(17 - 102)
	63	(17 - 102)
Nitrobenzene-d5	67	(33 - 103)
	71	(33 - 103)
Phenol-d5	62	(25 - 107)
	65	(25 - 107)
Terphenyl-d14	68	(14 - 127)
	71	(14 - 127)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: C8B130194 **Work Order #...:** KG2WG1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: C8B130000-392 KG2WG1AD-LCSD
Prep Date.....: 02/13/08 **Analysis Date..:** 02/14/08
Prep Batch #...: 8044392 **Analysis Time..:** 15:50
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
gamma-BHC (Lindane)	**92**	**(63 - 123)**			**SW846 8081A**
	91	**(63 - 123)**	**1.2**	**(0-21)**	**SW846 8081A**
Heptachlor	**89**	**(65 - 127)**			**SW846 8081A**
	88	**(65 - 127)**	**1.9**	**(0-25)**	**SW846 8081A**
Aldrin	**94**	**(69 - 121)**			**SW846 8081A**
	92	**(69 - 121)**	**1.5**	**(0-22)**	**SW846 8081A**
Dieldrin	**96**	**(76 - 119)**			**SW846 8081A**
	94	**(76 - 119)**	**1.6**	**(0-20)**	**SW846 8081A**
Endrin	**96**	**(70 - 125)**			**SW846 8081A**
	95	**(70 - 125)**	**1.2**	**(0-24)**	**SW846 8081A**
4,4'-DDT	**92**	**(62 - 120)**			**SW846 8081A**
	90	**(62 - 120)**	**2.6**	**(0-24)**	**SW846 8081A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	78	(39 - 130)
	77	(39 - 130)
Decachlorobiphenyl	92	(10 - 147)
	90	(10 - 147)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: C8B130194 **Work Order #...:** KG3MH1AC **Matrix.....:** SOLID
LCS Lot-Sample#: C8B140000-042
Prep Date.....: 02/14/08 **Analysis Date..:** 02/16/08
Prep Batch #...: 8045042 **Analysis Time..:** 15:44
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
gamma-BHC (Lindane)	**102**	**(66 - 124)**	**SW846 8081A**
Heptachlor	**95**	**(73 - 128)**	**SW846 8081A**
Aldrin	**103**	**(75 - 123)**	**SW846 8081A**
Dieldrin	**102**	**(76 - 123)**	**SW846 8081A**
Endrin	**97**	**(77 - 127)**	**SW846 8081A**
4,4'-DDT	**70**	**(61 - 126)**	**SW846 8081A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	103	(31 - 131)
Decachlorobiphenyl	101	(18 - 145)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: C8B130194 **Work Order #...:** KG2WH1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: C8B130000-393 KG2WH1AD-LCSD
Prep Date.....: 02/13/08 **Analysis Date..:** 02/15/08
Prep Batch #...: 8044393 **Analysis Time..:** 20:37
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Aroclor 1016	**74**	**(60 - 110)**			**SW846 8082**
	76	**(60 - 110)**	**2.0**	**(0-27)**	**SW846 8082**
Aroclor 1260	**95**	**(60 - 111)**			**SW846 8082**
	96	**(60 - 111)**	**1.0**	**(0-24)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	87	(45 - 120)
	88	(45 - 120)
Decachlorobiphenyl	103	(24 - 128)
	102	(24 - 128)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: C8B130194 **Work Order #...:** KG3MM1AC **Matrix.....:** SOLID
LCS Lot-Sample#: C8B140000-043
Prep Date.....: 02/14/08 **Analysis Date..:** 02/16/08
Prep Batch #...: 8045043 **Analysis Time..:** 02:32
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Aroclor 1016	**86**	**(55 - 117)**	**SW846 8082**
Aroclor 1260	**111**	**(54 - 117)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	102	(31 - 127)
Decachlorobiphenyl	118	(23 - 141)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: C8B130194 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: C8B140000-014 **Prep Batch #...:** 8045014					
Mercury	103	(80 - 120)	SW846 7471A	02/14/08	KG3LF1AC
		Dilution Factor: 1	Analysis Time..: 07:37		
LCS Lot-Sample#: C8B190000-208 **Prep Batch #...:** 8050208					
Silver	108	(80 - 120)	SW846 6010B	02/19-02/26/08	KG9911A2
		Dilution Factor: 1	Analysis Time..: 14:27		
Aluminum	109	(80 - 120)	SW846 6010B	02/19-02/26/08	KG9911A3
		Dilution Factor: 1	Analysis Time..: 14:27		
Arsenic	100	(80 - 120)	SW846 6010B	02/19-02/26/08	KG9911A4
		Dilution Factor: 1	Analysis Time..: 14:27		
Barium	105	(80 - 120)	SW846 6010B	02/19-02/26/08	KG9911A5
		Dilution Factor: 1	Analysis Time..: 14:27		
Beryllium	100	(80 - 120)	SW846 6010B	02/19-02/26/08	KG9911A6
		Dilution Factor: 1	Analysis Time..: 14:27		
Calcium	106	(80 - 120)	SW846 6010B	02/19-02/26/08	KG9911A7
		Dilution Factor: 1	Analysis Time..: 14:27		
Cadmium	101	(80 - 120)	SW846 6010B	02/19-02/26/08	KG9911A8
		Dilution Factor: 1	Analysis Time..: 14:27		
Cobalt	102	(80 - 120)	SW846 6010B	02/19-02/26/08	KG9911A9
		Dilution Factor: 1	Analysis Time..: 14:27		
Chromium	105	(80 - 120)	SW846 6010B	02/19-02/26/08	KG9911CA
		Dilution Factor: 1	Analysis Time..: 14:27		
Copper	108	(80 - 120)	SW846 6010B	02/19-02/26/08	KG9911CC
		Dilution Factor: 1	Analysis Time..: 14:27		
Iron	99	(80 - 120)	SW846 6010B	02/19-02/26/08	KG9911CD
		Dilution Factor: 1	Analysis Time..: 14:27		
Potassium	115	(80 - 120)	SW846 6010B	02/19-02/26/08	KG9911CE
		Dilution Factor: 1	Analysis Time..: 14:27		

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: C8B130194 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	104	(80 - 120)	SW846 6010B	02/19-02/26/08	KG9911CF
		Dilution Factor: 1	Analysis Time..: 14:27		
Manganese	104	(80 - 120)	SW846 6010B	02/19-02/26/08	KG9911CG
		Dilution Factor: 1	Analysis Time..: 14:27		
Sodium	105	(80 - 120)	SW846 6010B	02/19-02/26/08	KG9911CH
		Dilution Factor: 1	Analysis Time..: 14:27		
Nickel	103	(80 - 120)	SW846 6010B	02/19-02/26/08	KG9911CJ
		Dilution Factor: 1	Analysis Time..: 14:27		
Lead	102	(80 - 120)	SW846 6010B	02/19-02/26/08	KG9911CK
		Dilution Factor: 1	Analysis Time..: 14:27		
Selenium	98	(80 - 120)	SW846 6010B	02/19-02/26/08	KG9911CL
		Dilution Factor: 1	Analysis Time..: 14:27		
Thallium	102	(80 - 120)	SW846 6010B	02/19-02/26/08	KG9911CM
		Dilution Factor: 1	Analysis Time..: 14:27		
Antimony	103	(80 - 120)	SW846 6010B	02/19-02/26/08	KG9911CN
		Dilution Factor: 1	Analysis Time..: 14:27		
Vanadium	105	(80 - 120)	SW846 6010B	02/19-02/26/08	KG9911CP
		Dilution Factor: 1	Analysis Time..: 14:27		
Zinc	108	(80 - 120)	SW846 6010B	02/19-02/26/08	KG9911CQ
		Dilution Factor: 1	Analysis Time..: 14:27		

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: C8B130194 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: C8B150000-195 **Prep Batch #...:** 8046195					
Mercury	95	(80 - 120)	SW846 7470A	02/15/08	KG56E1AC
		Dilution Factor: 1	Analysis Time..: 15:50		
LCS Lot-Sample#: C8B280000-361 **Prep Batch #...:** 8059361					
Silver	105	(80 - 120)	SW846 6010B	02/28-03/03/08	KHRLE1A2
		Dilution Factor: 1	Analysis Time..: 10:53		
Aluminum	100	(80 - 120)	SW846 6010B	02/28-03/03/08	KHRLE1A3
		Dilution Factor: 1	Analysis Time..: 10:53		
Arsenic	98	(80 - 120)	SW846 6010B	02/28-03/03/08	KHRLE1A4
		Dilution Factor: 1	Analysis Time..: 10:53		
Barium	99	(80 - 120)	SW846 6010B	02/28-03/03/08	KHRLE1A5
		Dilution Factor: 1	Analysis Time..: 10:53		
Beryllium	99	(80 - 120)	SW846 6010B	02/28-03/03/08	KHRLE1A6
		Dilution Factor: 1	Analysis Time..: 10:53		
Calcium	100	(80 - 120)	SW846 6010B	02/28-03/03/08	KHRLE1A7
		Dilution Factor: 1	Analysis Time..: 10:53		
Cadmium	96	(80 - 120)	SW846 6010B	02/28-03/03/08	KHRLE1A8
		Dilution Factor: 1	Analysis Time..: 10:53		
Cobalt	97	(80 - 120)	SW846 6010B	02/28-03/03/08	KHRLE1A9
		Dilution Factor: 1	Analysis Time..: 10:53		
Chromium	99	(80 - 120)	SW846 6010B	02/28-03/03/08	KHRLE1CA
		Dilution Factor: 1	Analysis Time..: 10:53		
Copper	102	(80 - 120)	SW846 6010B	02/28-03/03/08	KHRLE1CC
		Dilution Factor: 1	Analysis Time..: 10:53		
Iron	87	(80 - 120)	SW846 6010B	02/28-03/03/08	KHRLE1CD
		Dilution Factor: 1	Analysis Time..: 10:53		
Potassium	100	(80 - 120)	SW846 6010B	02/28-03/03/08	KHRLE1CE
		Dilution Factor: 1	Analysis Time..: 10:53		

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: C8B130194 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	98	(80 - 120)	SW846 6010B	02/28-03/03/08	KHRLE1CF
		Dilution Factor: 1	Analysis Time..: 10:53		
Manganese	100	(80 - 120)	SW846 6010B	02/28-03/03/08	KHRLE1CG
		Dilution Factor: 1	Analysis Time..: 10:53		
Sodium	95	(80 - 120)	SW846 6010B	02/28-03/03/08	KHRLE1CH
		Dilution Factor: 1	Analysis Time..: 10:53		
Nickel	97	(80 - 120)	SW846 6010B	02/28-03/03/08	KHRLE1CJ
		Dilution Factor: 1	Analysis Time..: 10:53		
Lead	99	(80 - 120)	SW846 6010B	02/28-03/03/08	KHRLE1CK
		Dilution Factor: 1	Analysis Time..: 10:53		
Selenium	100	(80 - 120)	SW846 6010B	02/28-03/03/08	KHRLE1CL
		Dilution Factor: 1	Analysis Time..: 10:53		
Thallium	98	(80 - 120)	SW846 6010B	02/28-03/03/08	KHRLE1CM
		Dilution Factor: 1	Analysis Time..: 10:53		
Antimony	101	(80 - 120)	SW846 6010B	02/28-03/03/08	KHRLE1CN
		Dilution Factor: 1	Analysis Time..: 10:53		
Vanadium	99	(80 - 120)	SW846 6010B	02/28-03/03/08	KHRLE1CP
		Dilution Factor: 1	Analysis Time..: 10:53		
Zinc	103	(80 - 120)	SW846 6010B	02/28-03/03/08	KHRLE1CQ
		Dilution Factor: 1	Analysis Time..: 10:53		

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...:	C8B130194	**Work Order #...:**	KG2DD1AF-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	C8B130194-004		KG2DD1AG-MSD		
Date Sampled...:	02/12/08	**Date Received..:**	02/13/08	**MS Run #.....:**	8045038
Prep Date.....:	02/14/08	**Analysis Date..:**	02/14/08		
Prep Batch #...:	8045053	**Analysis Time..:**	08:00		
Dilution Factor:	0.95	**% Moisture.....:**	13		

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	**96**	**(49 - 141)**			**SW846 8260B**
	97	**(49 - 141)**	**1.0**	**(0-38)**	**SW846 8260B**
Chlorobenzene	**106**	**(47 - 146)**			**SW846 8260B**
	104	**(47 - 146)**	**0.90**	**(0-32)**	**SW846 8260B**
1,1-Dichloroethene	**104**	**(46 - 143)**			**SW846 8260B**
	106	**(46 - 143)**	**3.0**	**(0-36)**	**SW846 8260B**
Trichloroethene	**98**	**(46 - 141)**			**SW846 8260B**
	99	**(46 - 141)**	**1.9**	**(0-35)**	**SW846 8260B**
Toluene	**104**	**(32 - 161)**			**SW846 8260B**
	106	**(32 - 161)**	**3.0**	**(0-54)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	92	(52 - 124)
	89	(52 - 124)
Toluene-d8	101	(72 - 127)
	102	(72 - 127)
4-Bromofluorobenzene	85	(63 - 120)
	81	(63 - 120)
Dibromofluoromethane	92	(68 - 121)
	89	(68 - 121)

NOTE(S):

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

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: C8B130194 **Work Order #...:** KGTKC1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: C8B080270-002 KGTKC1AD-MSD
Date Sampled...: 02/06/08 **Date Received..:** 02/08/08 **MS Run #.....:** 8050129
Prep Date.....: 02/19/08 **Analysis Date..:** 02/19/08
Prep Batch #...: 8050242 **Analysis Time..:** 08:07
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	**90**	**(77 - 122)**			**SW846 8260B**
	94	**(77 - 122)**	**3.6**	**(0-19)**	**SW846 8260B**
Chlorobenzene	**90**	**(78 - 122)**			**SW846 8260B**
	91	**(78 - 122)**	**1.0**	**(0-19)**	**SW846 8260B**
1,1-Dichloroethene	**78**	**(66 - 131)**			**SW846 8260B**
	81	**(66 - 131)**	**4.4**	**(0-25)**	**SW846 8260B**
Trichloroethene	**89**	**(79 - 122)**			**SW846 8260B**
	92	**(79 - 122)**	**3.2**	**(0-21)**	**SW846 8260B**
Toluene	**84**	**(75 - 126)**			**SW846 8260B**
	85	**(75 - 126)**	**1.5**	**(0-23)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	88	(70 - 125)
	91	(70 - 125)
Toluene-d8	90	(80 - 120)
	90	(80 - 120)
4-Bromofluorobenzene	92	(75 - 120)
	93	(75 - 120)
Dibromofluoromethane	95	(80 - 120)
	97	(80 - 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 Semivolatiles

Client Lot #...: C8B130194 **Work Order #...:** KG19J1AD-MS **Matrix.....:** SOLID
MS Lot-Sample #: C8B130179-005 KG19J1AE-MSD
Date Sampled...: 02/11/08 **Date Received..:** 02/13/08 **MS Run #.....:** 8045002
Prep Date.....: 02/14/08 **Analysis Date..:** 02/14/08
Prep Batch #...: 8045011 **Analysis Time..:** 13:52
Dilution Factor: 1 **% Moisture.....:** 16

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acenaphthene	67	(15 - 130)			SW846 8270C
	75	(15 - 130)	11	(0-50)	SW846 8270C
1,2,4-Trichloro-benzene	65	(21 - 118)			SW846 8270C
	73	(21 - 118)	12	(0-49)	SW846 8270C
1,4-Dichlorobenzene	58	(20 - 105)			SW846 8270C
	68	(20 - 105)	15	(0-62)	SW846 8270C
4-Bromophenyl phenyl ether	75	(27 - 136)			SW846 8270C
	79	(27 - 136)	4.0	(0-48)	SW846 8270C
Butyl benzyl phthalate	75	(27 - 130)			SW846 8270C
	82	(27 - 130)	8.4	(0-48)	SW846 8270C
4-Chloro-3-methylphenol	72	(16 - 128)			SW846 8270C
	82	(16 - 128)	13	(0-52)	SW846 8270C
2-Chlorophenol	67	(16 - 120)			SW846 8270C
	77	(16 - 120)	14	(0-54)	SW846 8270C
2,4-Dinitrotoluene	78	(15 - 132)			SW846 8270C
	90	(15 - 132)	14	(0-49)	SW846 8270C
Hexachloroethane	58	(13 - 111)			SW846 8270C
	69	(13 - 111)	16	(0-63)	SW846 8270C
4-Methylphenol	71	(17 - 131)			SW846 8270C
	81	(17 - 131)	13	(0-50)	SW846 8270C
Naphthalene	64	(10 - 140)			SW846 8270C
	72	(10 - 140)	12	(0-56)	SW846 8270C
4-Nitrophenol	72	(10 - 154)			SW846 8270C
	86	(10 - 154)	19	(0-88)	SW846 8270C
N-Nitrosodi-n-propyl-amine	73	(30 - 118)			SW846 8270C
	84	(30 - 118)	14	(0-51)	SW846 8270C
Pentachlorophenol	67	(10 - 136)			SW846 8270C
	73	(10 - 136)	8.6	(0-123)	SW846 8270C
Phenol	66	(19 - 119)			SW846 8270C
	75	(19 - 119)	13	(0-50)	SW846 8270C
Pyrene	61	(10 - 168)			SW846 8270C
	65	(10 - 168)	5.0	(0-69)	SW846 8270C

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: C8B130194 **Work Order #...:** KG19J1AD-MS **Matrix.....:** SOLID
MS Lot-Sample #: C8B130179-005 KG19J1AE-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4,6-Tribromophenol	84	(10 - 117)
	88	(10 - 117)
2-Fluorobiphenyl	68	(20 - 109)
	75	(20 - 109)
2-Fluorophenol	68	(10 - 113)
	79	(10 - 113)
Nitrobenzene-d5	71	(18 - 106)
	79	(18 - 106)
Phenol-d5	70	(18 - 113)
	79	(18 - 113)
Terphenyl-d14	81	(10 - 138)
	86	(10 - 138)

NOTE(S):

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

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: C8B130194 **Work Order #...:** KG2DD1AJ-MS **Matrix.....:** SOLID
MS Lot-Sample #: C8B130194-004 KG2DD1AK-MSD
Date Sampled...: 02/12/08 **Date Received..:** 02/13/08 **MS Run #.....:** 8045002
Prep Date.....: 02/14/08 **Analysis Date..:** 02/14/08
Prep Batch #...: 8045011 **Analysis Time..:** 16:41
Dilution Factor: 1 **% Moisture.....:** 13

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acenaphthene	71	(15 - 130)			SW846 8270C
	70	(15 - 130)	1.5	(0-50)	SW846 8270C
1,2,4-Trichloro-benzene	65	(21 - 118)			SW846 8270C
	66	(21 - 118)	1.0	(0-49)	SW846 8270C
1,4-Dichlorobenzene	56	(20 - 105)			SW846 8270C
	60	(20 - 105)	6.4	(0-62)	SW846 8270C
4-Bromophenyl phenyl ether	72	(27 - 136)			SW846 8270C
	73	(27 - 136)	1.5	(0-48)	SW846 8270C
Butyl benzyl phthalate	79	(27 - 130)			SW846 8270C
	84	(27 - 130)	7.1	(0-48)	SW846 8270C
4-Chloro-3-methylphenol	81	(16 - 128)			SW846 8270C
	83	(16 - 128)	2.8	(0-52)	SW846 8270C
2-Chlorophenol	67	(16 - 120)			SW846 8270C
	71	(16 - 120)	5.0	(0-54)	SW846 8270C
2,4-Dinitrotoluene	88	(15 - 132)			SW846 8270C
	89	(15 - 132)	0.98	(0-49)	SW846 8270C
Hexachloroethane	56	(13 - 111)			SW846 8270C
	61	(13 - 111)	8.1	(0-63)	SW846 8270C
4-Methylphenol	74	(17 - 131)			SW846 8270C
	78	(17 - 131)	4.4	(0-50)	SW846 8270C
Naphthalene	66	(10 - 140)			SW846 8270C
	67	(10 - 140)	1.6	(0-56)	SW846 8270C
4-Nitrophenol	83	(10 - 154)			SW846 8270C
	84	(10 - 154)	1.6	(0-88)	SW846 8270C
N-Nitrosodi-n-propyl-amine	74	(30 - 118)			SW846 8270C
	79	(30 - 118)	6.0	(0-51)	SW846 8270C
Pentachlorophenol	57	(10 - 136)			SW846 8270C
	53	(10 - 136)	8.7	(0-123)	SW846 8270C
Phenol	68	(19 - 119)			SW846 8270C
	70	(19 - 119)	3.5	(0-50)	SW846 8270C
Pyrene	74	(10 - 168)			SW846 8270C
	80	(10 - 168)	6.2	(0-69)	SW846 8270C

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: C8B130194 **Work Order #...:** KG2DD1AJ-MS **Matrix.....:** SOLID
MS Lot-Sample #: C8B130194-004 KG2DD1AK-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4,6-Tribromophenol	83	(10 - 117)
	82	(10 - 117)
2-Fluorobiphenyl	74	(20 - 109)
	69	(20 - 109)
2-Fluorophenol	71	(10 - 113)
	71	(10 - 113)
Nitrobenzene-d5	75	(18 - 106)
	74	(18 - 106)
Phenol-d5	75	(18 - 113)
	75	(18 - 113)
Terphenyl-d14	84	(10 - 138)
	86	(10 - 138)

NOTE(S):

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

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...:	C8B130194	**Work Order #...:**	KG2DD1AM-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	C8B130194-004		KG2DD1AN-MSD		
Date Sampled...:	02/12/08	**Date Received..:**	02/13/08	**MS Run #.....:**	8045024
Prep Date.....:	02/14/08	**Analysis Date..:**	02/16/08		
Prep Batch #...:	8045042	**Analysis Time..:**	14:32		
Dilution Factor:	5	**% Moisture.....:**	13		

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
gamma-BHC (Lindane)	**72**	**(11 - 129)**			**SW846 8081A**
	77	**(11 - 129)**	**5.2**	**(0-75)**	**SW846 8081A**
Heptachlor	**80**	**(43 - 133)**			**SW846 8081A**
	85	**(43 - 133)**	**6.5**	**(0-36)**	**SW846 8081A**
Aldrin	**81**	**(40 - 135)**			**SW846 8081A**
	85	**(40 - 135)**	**5.3**	**(0-37)**	**SW846 8081A**
Dieldrin	**80**	**(34 - 138)**			**SW846 8081A**
	84	**(34 - 138)**	**4.8**	**(0-39)**	**SW846 8081A**
Endrin	**76**	**(37 - 141)**			**SW846 8081A**
	81	**(37 - 141)**	**5.4**	**(0-43)**	**SW846 8081A**
4,4'-DDT	**102**	**(10 - 155)**			**SW846 8081A**
	108	**(10 - 155)**	**6.4**	**(0-71)**	**SW846 8081A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	91	(31 - 131)
	92	(31 - 131)
Decachlorobiphenyl	113	(18 - 145)
	129	(18 - 145)

NOTE(S):

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

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...:	C8B130194	**Work Order #...:**	KG2DD1AQ-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	C8B130194-004		KG2DD1AR-MSD		
Date Sampled...:	02/12/08	**Date Received..:**	02/13/08	**MS Run #.....:**	8045026
Prep Date.....:	02/14/08	**Analysis Date..:**	02/15/08		
Prep Batch #...:	8045043	**Analysis Time..:**	21:56		
Dilution Factor:	1	**% Moisture.....:**	13		

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Aroclor 1016	**68**	**(10 - 183)**			**SW846 8082**
	74	**(10 - 183)**	**7.9**	**(0-39)**	**SW846 8082**
Aroclor 1260	**98**	**(25 - 143)**			**SW846 8082**
	105	**(25 - 143)**	**5.6**	**(0-34)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	79	(31 - 127)
	83	(31 - 127)
Decachlorobiphenyl	93	(23 - 141)
	103	(23 - 141)

NOTE(S):

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

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: C8B130194 **Matrix.....:** WATER
Date Sampled...: 02/12/08 **Date Received..:** 02/13/08

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: C8B130194-002 **Prep Batch #...:** 8046195							
Mercury	106	(75 - 125)			SW846 7470A	02/15/08	KG2C31A7
	102	(75 - 125)	3.8	(0-20)	SW846 7470A	02/15/08	KG2C31A8

Dilution Factor: 1
Analysis Time..: 16:01
MS Run #.....: 8046124

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: C8B130194 **Matrix.....:** SOLID
Date Sampled...: 02/12/08 **Date Received..:** 02/13/08

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: C8B130194-004 **Prep Batch #...:** 8045014							
						% Moisture.....: 13	
Mercury	98	(75 - 125)			SW846 7471A	02/14/08	KG2DD1D2
	98	(75 - 125)	0.0	(0-20)	SW846 7471A	02/14/08	KG2DD1D3
		Dilution Factor: 1					
		Analysis Time..: 07:41					
		MS Run #.....: 8045005					
MS Lot-Sample #: C8B130194-004 **Prep Batch #...:** 8050208							
						% Moisture.....: 13	
Silver	105	(75 - 125)			SW846 6010B	02/19-02/26/08	KG2DD1AU
	101	(75 - 125)	2.2	(0-20)	SW846 6010B	02/19-02/26/08	KG2DD1AV
		Dilution Factor: 1					
		Analysis Time..: 14:54					
		MS Run #.....: 8050112					
Aluminum	NC	(75 - 125)			SW846 6010B	02/19-02/27/08	KG2DD1AX
	NC	(75 - 125)		(0-20)	SW846 6010B	02/19-02/27/08	KG2DD1A0
		Dilution Factor: 2					
		Analysis Time..: 10:41					
		MS Run #.....: 8050112					
Arsenic	89	(75 - 125)			SW846 6010B	02/19-02/26/08	KG2DD1A2
	88	(75 - 125)	1.4	(0-20)	SW846 6010B	02/19-02/26/08	KG2DD1A3
		Dilution Factor: 1					
		Analysis Time..: 14:54					
		MS Run #.....: 8050112					
Barium	98	(75 - 125)			SW846 6010B	02/19-02/26/08	KG2DD1A5
	96	(75 - 125)	1.2	(0-20)	SW846 6010B	02/19-02/26/08	KG2DD1A6
		Dilution Factor: 1					
		Analysis Time..: 14:54					
		MS Run #.....: 8050112					
Beryllium	96	(75 - 125)			SW846 6010B	02/19-02/26/08	KG2DD1A8
	94	(75 - 125)	2.3	(0-20)	SW846 6010B	02/19-02/26/08	KG2DD1A9
		Dilution Factor: 1					
		Analysis Time..: 14:54					
		MS Run #.....: 8050112					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: C8B130194 **Matrix.....:** SOLID
Date Sampled...: 02/12/08 **Date Received..:** 02/13/08

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Calcium	92	(75 - 125)			SW846 6010B	02/19-02/26/08	KG2DD1CC
	97	(75 - 125)	2.5	(0-20)	SW846 6010B	02/19-02/26/08	KG2DD1CD
		Dilution Factor: 1					
		Analysis Time..: 14:54					
		MS Run #.....: 8050112					
Cadmium	98	(75 - 125)			SW846 6010B	02/19-02/26/08	KG2DD1CF
	92	(75 - 125)	3.5	(0-20)	SW846 6010B	02/19-02/26/08	KG2DD1CG
		Dilution Factor: 1					
		Analysis Time..: 14:54					
		MS Run #.....: 8050112					
Cobalt	100	(75 - 125)			SW846 6010B	02/19-02/26/08	KG2DD1CJ
	137 N,*	(75 - 125)	25	(0-20)	SW846 6010B	02/19-02/26/08	KG2DD1CK
		Dilution Factor: 1					
		Analysis Time..: 14:54					
		MS Run #.....: 8050112					
Chromium	NC	(75 - 125)			SW846 6010B	02/19-02/26/08	KG2DD1CM
	NC	(75 - 125)		(0-20)	SW846 6010B	02/19-02/26/08	KG2DD1CN
		Dilution Factor: 1					
		Analysis Time..: 14:54					
		MS Run #.....: 8050112					
Copper	NC	(75 - 125)			SW846 6010B	02/19-02/27/08	KG2DD1CQ
	NC	(75 - 125)		(0-20)	SW846 6010B	02/19-02/27/08	KG2DD1CR
		Dilution Factor: 2					
		Analysis Time..: 10:41					
		MS Run #.....: 8050112					
Iron	NC	(75 - 125)			SW846 6010B	02/19-02/26/08	KG2DD1CU
	NC	(75 - 125)		(0-20)	SW846 6010B	02/19-02/26/08	KG2DD1CV
		Dilution Factor: 1					
		Analysis Time..: 14:54					
		MS Run #.....: 8050112					
Potassium	113	(75 - 125)			SW846 6010B	02/19-02/26/08	KG2DD1CX
	113	(75 - 125)	0.0	(0-20)	SW846 6010B	02/19-02/26/08	KG2DD1C0
		Dilution Factor: 1					
		Analysis Time..: 14:54					
		MS Run #.....: 8050112					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: C8B130194 **Matrix.....:** SOLID
Date Sampled...: 02/12/08 **Date Received..:** 02/13/08

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	102	(75 - 125)			SW846 6010B	02/19-02/26/08	KG2DD1C2
	99	(75 - 125)	2.1	(0-20)	SW846 6010B	02/19-02/26/08	KG2DD1C3
		Dilution Factor: 1					
		Analysis Time..: 14:54					
		MS Run #.....: 8050112					
Manganese	NC	(75 - 125)			SW846 6010B	02/19-02/26/08	KG2DD1C5
	NC	(75 - 125)		(0-20)	SW846 6010B	02/19-02/26/08	KG2DD1C6
		Dilution Factor: 1					
		Analysis Time..: 14:54					
		MS Run #.....: 8050112					
Sodium	99	(75 - 125)			SW846 6010B	02/19-02/26/08	KG2DD1C8
	99	(75 - 125)	0.38	(0-20)	SW846 6010B	02/19-02/26/08	KG2DD1C9
		Dilution Factor: 1					
		Analysis Time..: 14:54					
		MS Run #.....: 8050112					
Nickel	111	(75 - 125)			SW846 6010B	02/19-02/26/08	KG2DD1DC
	203 N,*	(75 - 125)	28	(0-20)	SW846 6010B	02/19-02/26/08	KG2DD1DD
		Dilution Factor: 1					
		Analysis Time..: 14:54					
		MS Run #.....: 8050112					
Lead	NC	(75 - 125)			SW846 6010B	02/19-02/27/08	KG2DD1DF
	NC	(75 - 125)		(0-20)	SW846 6010B	02/19-02/27/08	KG2DD1DG
		Dilution Factor: 2					
		Analysis Time..: 10:41					
		MS Run #.....: 8050112					
Selenium	85	(75 - 125)			SW846 6010B	02/19-02/26/08	KG2DD1DJ
	84	(75 - 125)	0.98	(0-20)	SW846 6010B	02/19-02/26/08	KG2DD1DK
		Dilution Factor: 1					
		Analysis Time..: 14:54					
		MS Run #.....: 8050112					
Thallium	92	(75 - 125)			SW846 6010B	02/19-02/26/08	KG2DD1DM
	91	(75 - 125)	1.1	(0-20)	SW846 6010B	02/19-02/26/08	KG2DD1DN
		Dilution Factor: 1					
		Analysis Time..: 14:54					
		MS Run #.....: 8050112					

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: C8B130194 **Matrix.....:** SOLID
Date Sampled...: 02/12/08 **Date Received..:** 02/13/08

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Antimony	45 N	(75 - 125)			SW846 6010B	02/19-02/26/08	KG2DD1DQ
	52 N	(75 - 125)	12	(0-20)	SW846 6010B	02/19-02/26/08	KG2DD1DR
		Dilution Factor: 1					
		Analysis Time..: 14:54					
		MS Run #.....: 8050112					
Vanadium	91	(75 - 125)			SW846 6010B	02/19-02/26/08	KG2DD1DU
	92	(75 - 125)	0.69	(0-20)	SW846 6010B	02/19-02/26/08	KG2DD1DV
		Dilution Factor: 1					
		Analysis Time..: 14:54					
		MS Run #.....: 8050112					
Zinc	NC	(75 - 125)			SW846 6010B	02/19-02/27/08	KG2DD1DX
	NC	(75 - 125)		(0-20)	SW846 6010B	02/19-02/27/08	KG2DD1D0
		Dilution Factor: 2					
		Analysis Time..: 10:41					
		MS Run #.....: 8050112					

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.

NC The recovery and/or RPD were not calculated.

N Spiked analyte recovery is outside stated control limits.

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: C8B130194 **Matrix.....:** WATER
Date Sampled...: 02/24/08 **Date Received..:** 02/26/08

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: C8B260192-001 **Prep Batch #...:** 8059361							
Silver	115	(75 - 125)			SW846 6010B	02/28-03/03/08	KHMFJ1A6
	111	(75 - 125)	3.3	(0-20)	SW846 6010B	02/28-03/03/08	KHMFJ1A7
		Dilution Factor: 1					
		Analysis Time..: 11:20					
		MS Run #.....: 8059191					
Aluminum	112	(75 - 125)			SW846 6010B	02/28-03/03/08	KHMFJ1A8
	110	(75 - 125)	1.7	(0-20)	SW846 6010B	02/28-03/03/08	KHMFJ1A9
		Dilution Factor: 1					
		Analysis Time..: 11:20					
		MS Run #.....: 8059191					
Arsenic	103	(75 - 125)			SW846 6010B	02/28-03/03/08	KHMFJ1CA
	101	(75 - 125)	1.8	(0-20)	SW846 6010B	02/28-03/03/08	KHMFJ1CC
		Dilution Factor: 1					
		Analysis Time..: 11:20					
		MS Run #.....: 8059191					
Barium	100	(75 - 125)			SW846 6010B	02/28-03/03/08	KHMFJ1CD
	97	(75 - 125)	2.8	(0-20)	SW846 6010B	02/28-03/03/08	KHMFJ1CE
		Dilution Factor: 1					
		Analysis Time..: 11:20					
		MS Run #.....: 8059191					
Beryllium	102	(75 - 125)			SW846 6010B	02/28-03/03/08	KHMFJ1CF
	100	(75 - 125)	2.1	(0-20)	SW846 6010B	02/28-03/03/08	KHMFJ1CG
		Dilution Factor: 1					
		Analysis Time..: 11:20					
		MS Run #.....: 8059191					
Calcium	109	(75 - 125)			SW846 6010B	02/28-03/03/08	KHMFJ1CH
	96	(75 - 125)	4.7	(0-20)	SW846 6010B	02/28-03/03/08	KHMFJ1CJ
		Dilution Factor: 1					
		Analysis Time..: 11:20					
		MS Run #.....: 8059191					
Cadmium	97	(75 - 125)			SW846 6010B	02/28-03/03/08	KHMFJ1CK
	96	(75 - 125)	1.4	(0-20)	SW846 6010B	02/28-03/03/08	KHMFJ1CL
		Dilution Factor: 1					
		Analysis Time..: 11:20					
		MS Run #.....: 8059191					

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: C8B130194 **Matrix.....:** WATER
Date Sampled...: 02/24/08 **Date Received..:** 02/26/08

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	101	(75 - 125)			SW846 6010B	02/28-03/03/08	KHMFJ1CM
	99	(75 - 125)	2.3	(0-20)	SW846 6010B	02/28-03/03/08	KHMFJ1CN
		Dilution Factor: 1					
		Analysis Time..: 11:20					
		MS Run #.....: 8059191					
Chromium	103	(75 - 125)			SW846 6010B	02/28-03/03/08	KHMFJ1CP
	101	(75 - 125)	2.4	(0-20)	SW846 6010B	02/28-03/03/08	KHMFJ1CQ
		Dilution Factor: 1					
		Analysis Time..: 11:20					
		MS Run #.....: 8059191					
Copper	113	(75 - 125)			SW846 6010B	02/28-03/03/08	KHMFJ1CR
	110	(75 - 125)	2.9	(0-20)	SW846 6010B	02/28-03/03/08	KHMFJ1CT
		Dilution Factor: 1					
		Analysis Time..: 11:20					
		MS Run #.....: 8059191					
Iron	90	(75 - 125)			SW846 6010B	02/28-03/03/08	KHMFJ1CU
	89	(75 - 125)	1.6	(0-20)	SW846 6010B	02/28-03/03/08	KHMFJ1CV
		Dilution Factor: 1					
		Analysis Time..: 11:20					
		MS Run #.....: 8059191					
Potassium	NC	(75 - 125)			SW846 6010B	02/28-03/03/08	KHMFJ1CW
	NC	(75 - 125)		(0-20)	SW846 6010B	02/28-03/03/08	KHMFJ1CX
		Dilution Factor: 10					
		Analysis Time..: 20:48					
		MS Run #.....: 8059191					
Magnesium	106	(75 - 125)			SW846 6010B	02/28-03/03/08	KHMFJ1C0
	101	(75 - 125)	3.7	(0-20)	SW846 6010B	02/28-03/03/08	KHMFJ1C1
		Dilution Factor: 1					
		Analysis Time..: 11:20					
		MS Run #.....: 8059191					
Manganese	106	(75 - 125)			SW846 6010B	02/28-03/03/08	KHMFJ1C2
	100	(75 - 125)	3.5	(0-20)	SW846 6010B	02/28-03/03/08	KHMFJ1C3
		Dilution Factor: 1					
		Analysis Time..: 11:20					
		MS Run #.....: 8059191					

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: C8B130194 **Matrix.....:** WATER
Date Sampled...: 02/24/08 **Date Received..:** 02/26/08

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Sodium	NC	(75 - 125)			SW846 6010B	02/28-03/03/08	KHMFJ1C4
	NC	(75 - 125)		(0-20)	SW846 6010B	02/28-03/03/08	KHMFJ1C5
		Dilution Factor: 2					
		Analysis Time..: 20:31					
		MS Run #.....: 8059191					
Nickel	98	(75 - 125)			SW846 6010B	02/28-03/03/08	KHMFJ1C6
	96	(75 - 125)	2.3	(0-20)	SW846 6010B	02/28-03/03/08	KHMFJ1C7
		Dilution Factor: 1					
		Analysis Time..: 11:20					
		MS Run #.....: 8059191					
Lead	102	(75 - 125)			SW846 6010B	02/28-03/03/08	KHMFJ1C8
	100	(75 - 125)	2.2	(0-20)	SW846 6010B	02/28-03/03/08	KHMFJ1C9
		Dilution Factor: 1					
		Analysis Time..: 11:20					
		MS Run #.....: 8059191					
Selenium	104	(75 - 125)			SW846 6010B	02/28-03/03/08	KHMFJ1DA
	102	(75 - 125)	1.8	(0-20)	SW846 6010B	02/28-03/03/08	KHMFJ1DC
		Dilution Factor: 1					
		Analysis Time..: 11:20					
		MS Run #.....: 8059191					
Thallium	97	(75 - 125)			SW846 6010B	02/28-03/03/08	KHMFJ1DD
	94	(75 - 125)	2.2	(0-20)	SW846 6010B	02/28-03/03/08	KHMFJ1DE
		Dilution Factor: 1					
		Analysis Time..: 11:20					
		MS Run #.....: 8059191					
Antimony	106	(75 - 125)			SW846 6010B	02/28-03/03/08	KHMFJ1DF
	104	(75 - 125)	1.8	(0-20)	SW846 6010B	02/28-03/03/08	KHMFJ1DG
		Dilution Factor: 1					
		Analysis Time..: 11:20					
		MS Run #.....: 8059191					
Vanadium	101	(75 - 125)			SW846 6010B	02/28-03/03/08	KHMFJ1DH
	99	(75 - 125)	2.3	(0-20)	SW846 6010B	02/28-03/03/08	KHMFJ1DJ
		Dilution Factor: 1					
		Analysis Time..: 11:20					
		MS Run #.....: 8059191					

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: C8B130194 **Matrix.....:** WATER
Date Sampled...: 02/24/08 **Date Received..:** 02/26/08

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc	109	(75 - 125)			SW846 6010B	02/28-03/03/08	KHMFJ1DK
	106	(75 - 125)	2.1	(0-20)	SW846 6010B	02/28-03/03/08	KHMFJ1DL

Dilution Factor: 1
Analysis Time..: 11:20
MS Run #.....: 8059191

NOTE(S):

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

NC The recovery and/or RPD were not calculated.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: C8B130194 **Work Order #...:** KG2DD-SMP KG2DD-DUP **Matrix.....:** SOLID

Date Sampled...: 02/12/08 **Date Received..:** 02/13/08

% Moisture.....: 13

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #:	C8B130194-004	
	86.5	84.4	%	2.5	(0-20)	SM20 2540G	02/14-02/15/08	8045027

Dilution Factor: 1 Analysis Time..: 08:01 MS Run Number..: 8045015

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

ERM/68th Street Landfill

Lot #: C8B150283

Daniel Hoadley

The ERM Group Inc
200 Harry S Truman Pkwy
Suite 400
Annapolis, MD 21401

TESTAMERICA LABORATORIES, INC.

Kathryn L. Bort
Project Manager

March 10, 2008

NELAC REPORTING:

At the time of analysis the laboratory was in compliance with the current NELAC standards and held accreditation for all analyses performed unless noted by a qualifier. The labs accreditation numbers are listed below. The format and contents of the report meets all applicable NELAC standards except as noted in the narrative and shall not be reproduced except in full, without the written approval of the laboratory. The table below presents a summary of the certifications held by TestAmerica Pittsburgh. Our primary accreditation authority for the Non-potable water and Solid & Hazardous waste programs is Pennsylvania DEP. A more detailed parameter list is available upon request. Please ask your project manager for this information when required.

Certifying State/Program	Certificate #	Program Types	TestAmerica
NFESC	NA	NAVY	X
US Dept of Agriculture	(#P330-07-00101)	Foreign Soil Import Permit	X
Arkansas	(#03-022-1)	WW	X
		HW	X
California – NELAC	04224CA	WW	X
		HW	X
Connecticut	(#PH-0688)	WW	X
		HW	X
Florida – NELAC	(#E87660)	WW	X
		HW	X
Illinois – NELAC	(#200005)	WW	X
		HW	X
Kansas – NELAC	(#E-10350)	WW	X
		HW	X
Louisiana – NELAC	(#93200)	WW	X
		HW	X
New Hampshire – NELAC	(#203002)	WW	X
		--	--
New Jersey – NELAC	(PA-005)	WW	X
		HW	X
New York – NELAC	(#11182)	WW	X
		HW	X
North Carolina	(#434)	WW	X
		HW	X
Pennsylvania - NELAC	(#02-00416)	WW	X
		HW	X
South Carolina	(#89014001)	WW	X
		HW	X
Utah – NELAC	(STLP)	WW	X
		HW	X
West Virginia	(#142)	WW	X
		HW	X
Wisconsin	998027800	WW	X
		HW	X

The codes utilized for program types are described below:

HW Hazardous Waste certification
WW Non-potable Water and/or Wastewater certification
X Laboratory has some form of certification under the specific program. Many states certify laboratories for specific parameters or tests within a category. The information in the table indicates the lab is certified in a general category of testing. Please contact the laboratory if parameter specific certification information is required.

Updated: 12/28/07 C:\Documents and Settings\derubeisn\My Documents\NELAC NARRATIVE Pttsburgh.doc

CASE NARRATIVE
ERM INC

Lot # C8B150283

Sample Receiving:
TestAmerica Pittsburgh received samples on February 15, 2008. The cooler was received within the proper temperature range.

If project specific QC was not required for samples contained in this report, and batch QC was completed on these samples, anomalous results are discussed below.

GC/MS Volatiles :
All non-CCC compounds that have >15% RSD were evaluated to see if a better curve could be drawn using a quadratic curve. All compounds <30% RSD will use an average response factor curve if no visible improvement is accomplished using a quadratic curve. A quadratic curve will be used for a compound where it is determined to be the "best-fit" evaluation.

The %D in the calibration verification standard, CC30218K, was > 25% for dichlorodifluoromethane (28.1%). This is within expected performance range.

The %D in the calibration verification standard, CC70219, was > 25% for the following compounds: 1,2-dibromo-3-chloropropane (29.0%), acrolein (33.6%), dichlorodifluoromethane (30.5%), and methyl acetate (27.1%). These are within expected performance range.

GC/MS Semivolatiles:
All non-CCC compounds that have >15% RSD were evaluated to see if a better curve could be drawn using a quadratic curve. All compounds <30% RSD will use an average response factor curve if no visible improvement is accomplished using a quadratic curve. A quadratic curve will be used for a compound where it is determined to be the "best-fit" evaluation.

Pentachlorophenol was detected in the method blank between the MDL and the reporting limit. The result was flagged with a "J" qualifier. Pentachlorophenol results detected in the associated samples are flagged with a "B" qualifier.

Pesticides:
Due to the concentration of target compounds detected, samples A-79-1 and Z-4 were analyzed at a dilution. These samples had the surrogates diluted out.

The matrix spike and matrix spike duplicate had the surrogates and the spikes diluted out.

CASE NARRATIVE
ERM INC

Lot # C8B150283

PCBs:
Due to the concentration of AR1254 detected, sample A-79-1 and Z-4 were analyzed at a dilution. These samples had the surrogates diluted out.

The matrix spike and matrix spike duplicate had the surrogates and the spikes diluted out.

The %D for decachlorobiphenyl in the continuing calibration standard, T0280585, was 19.4%, which did not meet the 15%D criteria. The samples were analyzed a second time with the same result. Only one set of data is reported.

Metals:
Samples A-79-1 and Z-4 were over the instruments linear range for chromium, copper, iron, manganese, nickel, and lead. These samples were also analyzed at a dilution for arsenic, cadmium, cobalt, sodium, antimony, selenium, thallium, vanadium, and zinc due to inter-element corrections associated with chromium, iron, manganese, nickel, and/or titanium.

The method blanks had analytes detected at concentrations between the MDL and the reporting limit. The results were flagged with a "B" qualifier. Results for analytes detected in the associated samples are flagged with a "J" qualifier.

Aluminum, cobalt, chromium, copper, iron manganese, nickel, lead, vanadium, and zinc recoveries were not calculated for the matrix spike and matrix spike duplicate due to the concentration of analyte in the sample being >4 times the concentration of spike added.

Calcium and antimony recovered outside of the control limits in the matrix spike.

The relative percent difference for antimony in the matrix spike and the matrix spike duplicate was outside of the control limits.

General Chemistry:
There were no problems associated with the analysis.

METHODS SUMMARY

C8B150283

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Mercury in Solid Waste (Manual Cold-Vapor)	SW846 7471A	SW846 7471A
Organochlorine Pesticides	SW846 8081A	SW846 3541
PCBs by SW-846 8082	SW846 8082	SW846 3541
Semivolatile Organic Compounds by GC/MS	SW846 8270C	SW846 3541
Total Residue as Percent Solids	SM20 2540G	
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B	SW846 3050B
Volatile Organics by GC/MS	SW846 8260B	SW846 5030B/826
Volatile Organics by GC/MS	SW846 8260B	SW846 5035

References:

SM20 "STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER", 20TH EDITION."

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

SAMPLE SUMMARY

C8B150283

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
KG6V4	001	A-17	02/14/08	08:40
KG6V7	002	B-1	02/14/08	09:40
KG6V8	003	A-40	02/14/08	09:20
KG6V9	004	B-36-1	02/14/08	09:30
KG6WC	005	B-143-1	02/14/08	10:15
KG6WD	006	A-140	02/14/08	10:45
KG6WE	007	Z-1 (2/14/08)	02/14/08	16:40
KG6WF	008	A-79-1	02/14/08	15:40
KG6WK	009	Z-4	02/14/08	15:50

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.

C8B150283

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☐

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

4124 (0907)

Client: EFM, Inc.	Project Manager: Darren Quillen	Date: 2/14/08	Chain of Custody Number: 410297
Address: 200 Harry S. Truman Pkwy, Suite 400	Telephone Number (Area Code)/Fax Number: 410-266-0006 / 410-266-8912	Lab Number: C8B150283	Page 1 of 1
City: Annapolis; State: MD; Zip Code: 21401	Site Contact: Dan Hoadley	Lab Contact: Ken Ives	
Project Name and Location (State): 68th Street EECA, Baltimore, MD	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.: 0049608.33.02			

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	DI water	8260B	8270C	6010B	8080	8081B								Special Instructions/ Conditions of Receipt
A-17	2/14/08	0840				X		1						2	X												* terra-core samples
B-1	↓	0900				X		1						2	X												(soil) preserved w/
A-40		0920				X		1						2	X												DI water (2 vials
B-36-1		0930				X		1						2	X												each) and methanol
B-143-1		1015				X		1						2	X												(1 vial each)
A-140		1045				X		1						2	X												
Z-1 (2/14/08)		1640		X							2				X												
A-79-1		1540				X		2						2	X	X	X	X	X								
Z-4		1550				X		2						2	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 _____ 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: Megan Kennedy	2/14/08	1700	1. Received By: Kenneth M. Ives	2-14-08	17:00
2. Relinquished By: [illegible]	2-14-08	17:30	2. Received By:		
3. Relinquished By:			3. Received By: Patrick R. Paul	2/15/08	1030

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

AR100736

ERM Group Inc, The

Client Sample ID: A-17

GC/MS Volatiles

Lot-Sample #...: C8B150283-001 **Work Order #...:** KG6V41AC **Matrix.....:** SOLID
Date Sampled...: 02/14/08 **Date Received..:** 02/15/08 **MS Run #.....:** 8049043
Prep Date.....: 02/18/08 **Analysis Date..:** 02/18/08
Prep Batch #...: 8049063 **Analysis Time..:** 11:47
Dilution Factor: 0.9
% Moisture.....: 42 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	31	ug/kg
Benzene	ND	7.7	ug/kg
Bromodichloromethane	ND	7.7	ug/kg
Bromoform	ND	7.7	ug/kg
Bromomethane	ND	7.7	ug/kg
2-Butanone	ND	7.7	ug/kg
Carbon disulfide	ND	7.7	ug/kg
Carbon tetrachloride	ND	7.7	ug/kg
Chlorobenzene	ND	7.7	ug/kg
Chloroethane	ND	7.7	ug/kg
Chloroform	ND	7.7	ug/kg
Chloromethane	ND	7.7	ug/kg
Cyclohexane	ND	7.7	ug/kg
Dibromochloromethane	ND	7.7	ug/kg
1,2-Dibromo-3-chloro-propane	ND	7.7	ug/kg
1,2-Dibromoethane	ND	7.7	ug/kg
1,3-Dichlorobenzene	ND	7.7	ug/kg
1,4-Dichlorobenzene	ND	7.7	ug/kg
1,2-Dichlorobenzene	ND	7.7	ug/kg
Dichlorodifluoromethane	ND	7.7	ug/kg
1,1-Dichloroethane	ND	7.7	ug/kg
1,2-Dichloroethane	ND	7.7	ug/kg
1,1-Dichloroethene	ND	7.7	ug/kg
cis-1,2-Dichloroethene	ND	7.7	ug/kg
trans-1,2-Dichloroethene	ND	7.7	ug/kg
1,2-Dichloropropane	ND	7.7	ug/kg
cis-1,3-Dichloropropene	ND	7.7	ug/kg
trans-1,3-Dichloropropene	ND	7.7	ug/kg
Ethylbenzene	ND	7.7	ug/kg
2-Hexanone	ND	7.7	ug/kg
Isopropylbenzene	ND	7.7	ug/kg
Methyl acetate	ND	7.7	ug/kg
Methylene chloride	ND	7.7	ug/kg
Methylcyclohexane	ND	7.7	ug/kg
4-Methyl-2-pentanone	ND	7.7	ug/kg
Methyl tert-butyl ether	ND	7.7	ug/kg
Styrene	ND	7.7	ug/kg

(Continued on next page)

ERM Group Inc, The

Client Sample ID: A-17

GC/MS Volatiles

Lot-Sample #...: C8B150283-001 **Work Order #...:** KG6V41AC **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
1,1,2,2-Tetrachloroethane	ND	7.7	ug/kg
1,2,4-Trichloro-benzene	ND	7.7	ug/kg
Tetrachloroethene	ND	7.7	ug/kg
1,1,1-Trichloroethane	ND	7.7	ug/kg
1,1,2-Trichloroethane	ND	7.7	ug/kg
Trichloroethene	ND	7.7	ug/kg
Trichlorofluoromethane	ND	7.7	ug/kg
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	7.7	ug/kg
Toluene	ND	7.7	ug/kg
Vinyl chloride	ND	7.7	ug/kg
Xylenes (total)	ND	23	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	116	(52 - 124)
Toluene-d8	106	(72 - 127)
4-Bromofluorobenzene	69	(63 - 120)
Dibromofluoromethane	105	(68 - 121)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

ERM Group Inc, The

Client Sample ID: A-17

General Chemistry

Lot-Sample #...: C8B150283-001 **Work Order #...:** KG6V4 **Matrix.....:** SOLID
Date Sampled...: 02/14/08 **Date Received..:** 02/15/08
% Moisture.....: 42

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**58.4**	**1.0**	**%**	**SM20 2540G**	**02/18-02/19/08**	**8049211**

Dilution Factor: 1 Analysis Time..: 05:30 MS Run #.....: 8049113

ERM Group Inc, The

Client Sample ID: B-1

GC/MS Volatiles

Lot-Sample #...: C8B150283-002 **Work Order #...:** KG6V71AC **Matrix.....:** SOLID
Date Sampled...: 02/14/08 **Date Received..:** 02/15/08 **MS Run #.....:** 8049043
Prep Date.....: 02/18/08 **Analysis Date..:** 02/18/08
Prep Batch #...: 8049063 **Analysis Time..:** 12:10
Dilution Factor: 0.89
% Moisture.....: 43 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	31	ug/kg
Benzene	ND	7.9	ug/kg
Bromodichloromethane	ND	7.9	ug/kg
Bromoform	ND	7.9	ug/kg
Bromomethane	ND	7.9	ug/kg
2-Butanone	ND	7.9	ug/kg
Carbon disulfide	ND	7.9	ug/kg
Carbon tetrachloride	ND	7.9	ug/kg
Chlorobenzene	ND	7.9	ug/kg
Chloroethane	ND	7.9	ug/kg
Chloroform	ND	7.9	ug/kg
Chloromethane	ND	7.9	ug/kg
Cyclohexane	ND	7.9	ug/kg
Dibromochloromethane	ND	7.9	ug/kg
1,2-Dibromo-3-chloro-propane	ND	7.9	ug/kg
1,2-Dibromoethane	ND	7.9	ug/kg
1,3-Dichlorobenzene	ND	7.9	ug/kg
1,4-Dichlorobenzene	ND	7.9	ug/kg
1,2-Dichlorobenzene	ND	7.9	ug/kg
Dichlorodifluoromethane	ND	7.9	ug/kg
1,1-Dichloroethane	ND	7.9	ug/kg
1,2-Dichloroethane	ND	7.9	ug/kg
1,1-Dichloroethene	ND	7.9	ug/kg
cis-1,2-Dichloroethene	ND	7.9	ug/kg
trans-1,2-Dichloroethene	ND	7.9	ug/kg
1,2-Dichloropropane	ND	7.9	ug/kg
cis-1,3-Dichloropropene	ND	7.9	ug/kg
trans-1,3-Dichloropropene	ND	7.9	ug/kg
Ethylbenzene	ND	7.9	ug/kg
2-Hexanone	ND	7.9	ug/kg
Isopropylbenzene	ND	7.9	ug/kg
Methyl acetate	ND	7.9	ug/kg
Methylene chloride	ND	7.9	ug/kg
Methylcyclohexane	ND	7.9	ug/kg
4-Methyl-2-pentanone	ND	7.9	ug/kg
Methyl tert-butyl ether	ND	7.9	ug/kg
Styrene	ND	7.9	ug/kg

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ERM Group Inc, The

Client Sample ID: B-1

GC/MS Volatiles

Lot-Sample #...: C8B150283-002 **Work Order #...:** KG6V71AC **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
1,1,2,2-Tetrachloroethane	ND	7.9	ug/kg
1,2,4-Trichloro-benzene	ND	7.9	ug/kg
Tetrachloroethene	ND	7.9	ug/kg
1,1,1-Trichloroethane	ND	7.9	ug/kg
1,1,2-Trichloroethane	ND	7.9	ug/kg
Trichloroethene	ND	7.9	ug/kg
Trichlorofluoromethane	ND	7.9	ug/kg
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	7.9	ug/kg
Toluene	ND	7.9	ug/kg
Vinyl chloride	ND	7.9	ug/kg
Xylenes (total)	ND	24	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	114	(52 - 124)
Toluene-d8	102	(72 - 127)
4-Bromofluorobenzene	81	(63 - 120)
Dibromofluoromethane	103	(68 - 121)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

ERM Group Inc, The

Client Sample ID: B-1

General Chemistry

Lot-Sample #...: C8B150283-002 **Work Order #...:** KG6V7 **Matrix.....:** SOLID
Date Sampled...: 02/14/08 **Date Received..:** 02/15/08
% Moisture.....: 43

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**56.6**	**1.0**	**%**	**SM20 2540G**	**02/18-02/19/08**	**8049211**

Dilution Factor: 1 Analysis Time..: 05:30 MS Run #.....: 8049113

ERM Group Inc, The

Client Sample ID: A-40

GC/MS Volatiles

Lot-Sample #...: C8B150283-003 **Work Order #...:** KG6V81AC **Matrix.....:** SOLID
Date Sampled...: 02/14/08 **Date Received..:** 02/15/08 **MS Run #.....:** 8049043
Prep Date.....: 02/18/08 **Analysis Date..:** 02/18/08
Prep Batch #...: 8049063 **Analysis Time..:** 12:34
Dilution Factor: 0.83
% Moisture.....: 29 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	23	ug/kg
Benzene	ND	5.8	ug/kg
Bromodichloromethane	ND	5.8	ug/kg
Bromoform	ND	5.8	ug/kg
Bromomethane	ND	5.8	ug/kg
2-Butanone	ND	5.8	ug/kg
Carbon disulfide	ND	5.8	ug/kg
Carbon tetrachloride	ND	5.8	ug/kg
Chlorobenzene	ND	5.8	ug/kg
Chloroethane	ND	5.8	ug/kg
Chloroform	ND	5.8	ug/kg
Chloromethane	ND	5.8	ug/kg
Cyclohexane	ND	5.8	ug/kg
Dibromochloromethane	ND	5.8	ug/kg
1,2-Dibromo-3-chloro-propane	ND	5.8	ug/kg
1,2-Dibromoethane	ND	5.8	ug/kg
1,3-Dichlorobenzene	ND	5.8	ug/kg
1,4-Dichlorobenzene	ND	5.8	ug/kg
1,2-Dichlorobenzene	ND	5.8	ug/kg
Dichlorodifluoromethane	ND	5.8	ug/kg
1,1-Dichloroethane	ND	5.8	ug/kg
1,2-Dichloroethane	ND	5.8	ug/kg
1,1-Dichloroethene	ND	5.8	ug/kg
cis-1,2-Dichloroethene	ND	5.8	ug/kg
trans-1,2-Dichloroethene	ND	5.8	ug/kg
1,2-Dichloropropane	ND	5.8	ug/kg
cis-1,3-Dichloropropene	ND	5.8	ug/kg
trans-1,3-Dichloropropene	ND	5.8	ug/kg
Ethylbenzene	ND	5.8	ug/kg
2-Hexanone	ND	5.8	ug/kg
Isopropylbenzene	ND	5.8	ug/kg
Methyl acetate	ND	5.8	ug/kg
Methylene chloride	ND	5.8	ug/kg
Methylcyclohexane	ND	5.8	ug/kg
4-Methyl-2-pentanone	ND	5.8	ug/kg
Methyl tert-butyl ether	ND	5.8	ug/kg
Styrene	ND	5.8	ug/kg

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ERM Group Inc, The

Client Sample ID: A-40

GC/MS Volatiles

Lot-Sample #...: C8B150283-003 **Work Order #...:** KG6V81AC **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
1,1,2,2-Tetrachloroethane	ND	5.8	ug/kg
1,2,4-Trichloro-benzene	ND	5.8	ug/kg
Tetrachloroethene	ND	5.8	ug/kg
1,1,1-Trichloroethane	ND	5.8	ug/kg
1,1,2-Trichloroethane	ND	5.8	ug/kg
Trichloroethene	ND	5.8	ug/kg
Trichlorofluoromethane	ND	5.8	ug/kg
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.8	ug/kg
Toluene	ND	5.8	ug/kg
Vinyl chloride	ND	5.8	ug/kg
Xylenes (total)	ND	17	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	116	(52 - 124)
Toluene-d8	102	(72 - 127)
4-Bromofluorobenzene	79	(63 - 120)
Dibromofluoromethane	102	(68 - 121)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

ERM Group Inc, The

Client Sample ID: A-40

General Chemistry

Lot-Sample #...: C8B150283-003 **Work Order #...:** KG6V8 **Matrix.....:** SOLID
Date Sampled...: 02/14/08 **Date Received..:** 02/15/08
% Moisture.....: 29

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**71.3**	**1.0**	**%**	**SM20 2540G**	**02/18-02/19/08**	**8049211**

Dilution Factor: 1 Analysis Time..: 05:30 MS Run #.....: 8049113

ERM Group Inc, The

Client Sample ID: B-36-1

GC/MS Volatiles

Lot-Sample #...: C8B150283-004 **Work Order #...:** KG6V91AC **Matrix.....:** SOLID
Date Sampled...: 02/14/08 **Date Received..:** 02/15/08 **MS Run #.....:** 8049043
Prep Date.....: 02/18/08 **Analysis Date..:** 02/18/08
Prep Batch #...: 8049063 **Analysis Time..:** 12:58
Dilution Factor: 0.85
% Moisture.....: 36 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	27	ug/kg
Benzene	ND	6.7	ug/kg
Bromodichloromethane	ND	6.7	ug/kg
Bromoform	ND	6.7	ug/kg
Bromomethane	ND	6.7	ug/kg
2-Butanone	ND	6.7	ug/kg
Carbon disulfide	ND	6.7	ug/kg
Carbon tetrachloride	ND	6.7	ug/kg
Chlorobenzene	ND	6.7	ug/kg
Chloroethane	ND	6.7	ug/kg
Chloroform	ND	6.7	ug/kg
Chloromethane	ND	6.7	ug/kg
Cyclohexane	ND	6.7	ug/kg
Dibromochloromethane	ND	6.7	ug/kg
1,2-Dibromo-3-chloro-propane	ND	6.7	ug/kg
1,2-Dibromoethane	ND	6.7	ug/kg
1,3-Dichlorobenzene	ND	6.7	ug/kg
1,4-Dichlorobenzene	ND	6.7	ug/kg
1,2-Dichlorobenzene	ND	6.7	ug/kg
Dichlorodifluoromethane	ND	6.7	ug/kg
1,1-Dichloroethane	ND	6.7	ug/kg
1,2-Dichloroethane	ND	6.7	ug/kg
1,1-Dichloroethene	ND	6.7	ug/kg
cis-1,2-Dichloroethene	ND	6.7	ug/kg
trans-1,2-Dichloroethene	ND	6.7	ug/kg
1,2-Dichloropropane	ND	6.7	ug/kg
cis-1,3-Dichloropropene	ND	6.7	ug/kg
trans-1,3-Dichloropropene	ND	6.7	ug/kg
Ethylbenzene	ND	6.7	ug/kg
2-Hexanone	ND	6.7	ug/kg
Isopropylbenzene	ND	6.7	ug/kg
Methyl acetate	ND	6.7	ug/kg
Methylene chloride	ND	6.7	ug/kg
Methylcyclohexane	ND	6.7	ug/kg
4-Methyl-2-pentanone	ND	6.7	ug/kg
Methyl tert-butyl ether	ND	6.7	ug/kg
Styrene	ND	6.7	ug/kg

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ERM Group Inc, The

Client Sample ID: B-36-1

GC/MS Volatiles

Lot-Sample #...: C8B150283-004 **Work Order #...:** KG6V91AC **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
1,1,2,2-Tetrachloroethane	ND	6.7	ug/kg
1,2,4-Trichloro-benzene	ND	6.7	ug/kg
Tetrachloroethene	ND	6.7	ug/kg
1,1,1-Trichloroethane	ND	6.7	ug/kg
1,1,2-Trichloroethane	ND	6.7	ug/kg
Trichloroethene	ND	6.7	ug/kg
Trichlorofluoromethane	ND	6.7	ug/kg
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	6.7	ug/kg
Toluene	ND	6.7	ug/kg
Vinyl chloride	ND	6.7	ug/kg
Xylenes (total)	ND	20	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	119	(52 - 124)
Toluene-d8	106	(72 - 127)
4-Bromofluorobenzene	77	(63 - 120)
Dibromofluoromethane	105	(68 - 121)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

ERM Group Inc, The

Client Sample ID: B-36-1

General Chemistry

Lot-Sample #...: C8B150283-004 **Work Order #...:** KG6V9 **Matrix.....:** SOLID
Date Sampled...: 02/14/08 **Date Received..:** 02/15/08
% Moisture.....: 36

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**63.9**	**1.0**	**%**	**SM20 2540G**	**02/18-02/19/08**	**8049211**

Dilution Factor: 1 Analysis Time..: 05:30 MS Run #.....: 8049113

ERM Group Inc, The

Client Sample ID: B-143-1

GC/MS Volatiles

Lot-Sample #...: C8B150283-005 **Work Order #...:** KG6WC1AC **Matrix.....:** SOLID
Date Sampled...: 02/14/08 **Date Received..:** 02/15/08 **MS Run #.....:** 8049043
Prep Date.....: 02/18/08 **Analysis Date..:** 02/18/08
Prep Batch #...: 8049063 **Analysis Time..:** 13:22
Dilution Factor: 0.85
% Moisture.....: 23 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	**8.5 J**	**22**	**ug/kg**
Benzene	ND	5.5	ug/kg
Bromodichloromethane	ND	5.5	ug/kg
Bromoform	ND	5.5	ug/kg
Bromomethane	ND	5.5	ug/kg
2-Butanone	ND	5.5	ug/kg
Carbon disulfide	ND	5.5	ug/kg
Carbon tetrachloride	ND	5.5	ug/kg
Chlorobenzene	ND	5.5	ug/kg
Chloroethane	ND	5.5	ug/kg
Chloroform	ND	5.5	ug/kg
Chloromethane	ND	5.5	ug/kg
Cyclohexane	ND	5.5	ug/kg
Dibromochloromethane	ND	5.5	ug/kg
1,2-Dibromo-3-chloro-propane	ND	5.5	ug/kg
1,2-Dibromoethane	ND	5.5	ug/kg
1,3-Dichlorobenzene	ND	5.5	ug/kg
1,4-Dichlorobenzene	ND	5.5	ug/kg
1,2-Dichlorobenzene	ND	5.5	ug/kg
Dichlorodifluoromethane	ND	5.5	ug/kg
1,1-Dichloroethane	ND	5.5	ug/kg
1,2-Dichloroethane	ND	5.5	ug/kg
1,1-Dichloroethene	ND	5.5	ug/kg
cis-1,2-Dichloroethene	ND	5.5	ug/kg
trans-1,2-Dichloroethene	ND	5.5	ug/kg
1,2-Dichloropropane	ND	5.5	ug/kg
cis-1,3-Dichloropropene	ND	5.5	ug/kg
trans-1,3-Dichloropropene	ND	5.5	ug/kg
Ethylbenzene	ND	5.5	ug/kg
2-Hexanone	ND	5.5	ug/kg
Isopropylbenzene	ND	5.5	ug/kg
Methyl acetate	ND	5.5	ug/kg
Methylene chloride	ND	5.5	ug/kg
Methylcyclohexane	ND	5.5	ug/kg
4-Methyl-2-pentanone	ND	5.5	ug/kg
Methyl tert-butyl ether	ND	5.5	ug/kg
Styrene	ND	5.5	ug/kg

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ERM Group Inc, The

Client Sample ID: B-143-1

GC/MS Volatiles

Lot-Sample #...: C8B150283-005 **Work Order #...:** KG6WC1AC **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
1,1,2,2-Tetrachloroethane	ND	5.5	ug/kg
1,2,4-Trichloro-benzene	ND	5.5	ug/kg
Tetrachloroethene	ND	5.5	ug/kg
1,1,1-Trichloroethane	ND	5.5	ug/kg
1,1,2-Trichloroethane	ND	5.5	ug/kg
Trichloroethene	ND	5.5	ug/kg
Trichlorofluoromethane	ND	5.5	ug/kg
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.5	ug/kg
Toluene	ND	5.5	ug/kg
Vinyl chloride	ND	5.5	ug/kg
Xylenes (total)	ND	16	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	114	(52 - 124)
Toluene-d8	102	(72 - 127)
4-Bromofluorobenzene	74	(63 - 120)
Dibromofluoromethane	102	(68 - 121)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

ERM Group Inc, The

Client Sample ID: B-143-1

General Chemistry

Lot-Sample #...: C8B150283-005 **Work Order #...:** KG6WC **Matrix.....:** SOLID
Date Sampled...: 02/14/08 **Date Received..:** 02/15/08
% Moisture.....: 23

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**77.4**	**1.0**	**%**	**SM20 2540G**	**02/18-02/19/08**	**8049211**

Dilution Factor: 1 Analysis Time..: 05:30 MS Run #.....: 8049113

ERM Group Inc, The

Client Sample ID: A-140

GC/MS Volatiles

Lot-Sample #...: C8B150283-006 **Work Order #...:** KG6WD1AC **Matrix.....:** SOLID
Date Sampled...: 02/14/08 **Date Received..:** 02/15/08 **MS Run #.....:** 8049043
Prep Date.....: 02/18/08 **Analysis Date..:** 02/18/08
Prep Batch #...: 8049063 **Analysis Time..:** 13:45
Dilution Factor: 0.97
% Moisture.....: 25 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	**41**	**26**	**ug/kg**
Benzene	ND	6.4	ug/kg
Bromodichloromethane	ND	6.4	ug/kg
Bromoform	ND	6.4	ug/kg
Bromomethane	ND	6.4	ug/kg
2-Butanone	ND	6.4	ug/kg
Carbon disulfide	ND	6.4	ug/kg
Carbon tetrachloride	ND	6.4	ug/kg
Chlorobenzene	ND	6.4	ug/kg
Chloroethane	ND	6.4	ug/kg
Chloroform	ND	6.4	ug/kg
Chloromethane	ND	6.4	ug/kg
Cyclohexane	ND	6.4	ug/kg
Dibromochloromethane	ND	6.4	ug/kg
1,2-Dibromo-3-chloro-propane	ND	6.4	ug/kg
1,2-Dibromoethane	ND	6.4	ug/kg
1,3-Dichlorobenzene	ND	6.4	ug/kg
1,4-Dichlorobenzene	ND	6.4	ug/kg
1,2-Dichlorobenzene	ND	6.4	ug/kg
Dichlorodifluoromethane	ND	6.4	ug/kg
1,1-Dichloroethane	ND	6.4	ug/kg
1,2-Dichloroethane	ND	6.4	ug/kg
1,1-Dichloroethene	ND	6.4	ug/kg
cis-1,2-Dichloroethene	ND	6.4	ug/kg
trans-1,2-Dichloroethene	ND	6.4	ug/kg
1,2-Dichloropropane	ND	6.4	ug/kg
cis-1,3-Dichloropropene	ND	6.4	ug/kg
trans-1,3-Dichloropropene	ND	6.4	ug/kg
Ethylbenzene	ND	6.4	ug/kg
2-Hexanone	ND	6.4	ug/kg
Isopropylbenzene	ND	6.4	ug/kg
Methyl acetate	ND	6.4	ug/kg
Methylene chloride	**2.7 J**	**6.4**	**ug/kg**
Methylcyclohexane	ND	6.4	ug/kg
4-Methyl-2-pentanone	ND	6.4	ug/kg
Methyl tert-butyl ether	ND	6.4	ug/kg
Styrene	ND	6.4	ug/kg

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ERM Group Inc, The

Client Sample ID: A-140

GC/MS Volatiles

Lot-Sample #...: C8B150283-006 **Work Order #...:** KG6WD1AC **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
1,1,2,2-Tetrachloroethane	ND	6.4	ug/kg
1,2,4-Trichloro-benzene	ND	6.4	ug/kg
Tetrachloroethene	ND	6.4	ug/kg
1,1,1-Trichloroethane	ND	6.4	ug/kg
1,1,2-Trichloroethane	ND	6.4	ug/kg
Trichloroethene	ND	6.4	ug/kg
Trichlorofluoromethane	ND	6.4	ug/kg
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	6.4	ug/kg
Toluene	ND	6.4	ug/kg
Vinyl chloride	ND	6.4	ug/kg
Xylenes (total)	ND	19	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	114	(52 - 124)
Toluene-d8	98	(72 - 127)
4-Bromofluorobenzene	77	(63 - 120)
Dibromofluoromethane	101	(68 - 121)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

ERM Group Inc, The

Client Sample ID: A-140

General Chemistry

Lot-Sample #...: C8B150283-006 **Work Order #...:** KG6WD **Matrix.....:** SOLID
Date Sampled...: 02/14/08 **Date Received..:** 02/15/08
% Moisture.....: 25

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**75.5**	**1.0**	**%**	**SM20 2540G**	**02/18-02/19/08**	**8049211**

Dilution Factor: 1 Analysis Time..: 05:30 MS Run #.....: 8049113

ERM Group Inc, The

Client Sample ID: Z-1 (2/14/08)

GC/MS Volatiles

Lot-Sample #...: C8B150283-007 **Work Order #...:** KG6WE1AA **Matrix.....:** WATER
Date Sampled...: 02/14/08 **Date Received..:** 02/15/08 **MS Run #.....:** 8050129
Prep Date.....: 02/19/08 **Analysis Date..:** 02/19/08
Prep Batch #...: 8050242 **Analysis Time..:** 11:18
Dilution Factor: 1

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	20	ug/L
Benzene	ND	5.0	ug/L
Bromodichloromethane	ND	5.0	ug/L
Bromoform	ND	5.0	ug/L
Bromomethane	ND	5.0	ug/L
2-Butanone	ND	5.0	ug/L
Carbon disulfide	ND	5.0	ug/L
Carbon tetrachloride	ND	5.0	ug/L
Chlorobenzene	ND	5.0	ug/L
Chloroethane	ND	5.0	ug/L
Chloroform	ND	5.0	ug/L
Chloromethane	ND	5.0	ug/L
Cyclohexane	ND	5.0	ug/L
Dibromochloromethane	ND	5.0	ug/L
1,2-Dibromo-3-chloro-propane	ND	5.0	ug/L
1,2-Dibromoethane	ND	5.0	ug/L
1,3-Dichlorobenzene	ND	5.0	ug/L
1,4-Dichlorobenzene	ND	5.0	ug/L
1,2-Dichlorobenzene	ND	5.0	ug/L
Dichlorodifluoromethane	ND	5.0	ug/L
1,1-Dichloroethane	ND	5.0	ug/L
1,2-Dichloroethane	ND	5.0	ug/L
1,1-Dichloroethene	ND	5.0	ug/L
cis-1,2-Dichloroethene	ND	5.0	ug/L
trans-1,2-Dichloroethene	ND	5.0	ug/L
1,2-Dichloropropane	ND	5.0	ug/L
cis-1,3-Dichloropropene	ND	5.0	ug/L
trans-1,3-Dichloropropene	ND	5.0	ug/L
Ethylbenzene	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Isopropylbenzene	ND	5.0	ug/L
Methyl acetate	ND	5.0	ug/L
Methylene chloride	ND	5.0	ug/L
Methylcyclohexane	ND	5.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
Methyl tert-butyl ether	ND	5.0	ug/L
Styrene	ND	5.0	ug/L

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ERM Group Inc, The

Client Sample ID: Z-1 (2/14/08)

GC/MS Volatiles

Lot-Sample #...: C8B150283-007 **Work Order #...:** KG6WE1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L
1,2,4-Trichloro-benzene	ND	5.0	ug/L
Tetrachloroethene	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	5.0	ug/L
1,1,2-Trichloroethane	ND	5.0	ug/L
Trichloroethene	ND	5.0	ug/L
Trichlorofluoromethane	ND	5.0	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0	ug/L
Toluene	**2.6 J**	**5.0**	**ug/L**
Vinyl chloride	ND	5.0	ug/L
Xylenes (total)	**5.5 J**	**15**	**ug/L**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	105	(70 - 125)
Toluene-d8	89	(80 - 120)
4-Bromofluorobenzene	89	(75 - 120)
Dibromofluoromethane	106	(80 - 120)

NOTE(S):

J Estimated result. Result is less than RL.

ERM Group Inc, The

Client Sample ID: A-79-1

GC/MS Volatiles

Lot-Sample #...: C8B150283-008 **Work Order #...:** KG6WF1AC **Matrix.....:** SOLID
Date Sampled...: 02/14/08 **Date Received..:** 02/15/08 **MS Run #.....:** 8049043
Prep Date.....: 02/18/08 **Analysis Date..:** 02/18/08
Prep Batch #...: 8049063 **Analysis Time..:** 14:09
Dilution Factor: 0.94
% Moisture.....: 39 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	31	ug/kg
Benzene	ND	7.7	ug/kg
Bromodichloromethane	ND	7.7	ug/kg
Bromoform	ND	7.7	ug/kg
Bromomethane	ND	7.7	ug/kg
2-Butanone	ND	7.7	ug/kg
Carbon disulfide	ND	7.7	ug/kg
Carbon tetrachloride	ND	7.7	ug/kg
Chlorobenzene	ND	7.7	ug/kg
Chloroethane	ND	7.7	ug/kg
Chloroform	ND	7.7	ug/kg
Chloromethane	ND	7.7	ug/kg
Cyclohexane	ND	7.7	ug/kg
Dibromochloromethane	ND	7.7	ug/kg
1,2-Dibromo-3-chloro-propane	ND	7.7	ug/kg
1,2-Dibromoethane	ND	7.7	ug/kg
1,3-Dichlorobenzene	ND	7.7	ug/kg
1,4-Dichlorobenzene	ND	7.7	ug/kg
1,2-Dichlorobenzene	ND	7.7	ug/kg
Dichlorodifluoromethane	ND	7.7	ug/kg
1,1-Dichloroethane	ND	7.7	ug/kg
1,2-Dichloroethane	ND	7.7	ug/kg
1,1-Dichloroethene	ND	7.7	ug/kg
cis-1,2-Dichloroethene	ND	7.7	ug/kg
trans-1,2-Dichloroethene	ND	7.7	ug/kg
1,2-Dichloropropane	ND	7.7	ug/kg
cis-1,3-Dichloropropene	ND	7.7	ug/kg
trans-1,3-Dichloropropene	ND	7.7	ug/kg
Ethylbenzene	ND	7.7	ug/kg
2-Hexanone	ND	7.7	ug/kg
Isopropylbenzene	ND	7.7	ug/kg
Methyl acetate	ND	7.7	ug/kg
Methylene chloride	**2.8 J**	**7.7**	**ug/kg**
Methylcyclohexane	ND	7.7	ug/kg
4-Methyl-2-pentanone	ND	7.7	ug/kg
Methyl tert-butyl ether	ND	7.7	ug/kg
Styrene	ND	7.7	ug/kg

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ERM Group Inc, The

Client Sample ID: A-79-1

GC/MS Volatiles

Lot-Sample #...: C8B150283-008 **Work Order #...:** KG6WF1AC **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
1,1,2,2-Tetrachloroethane	ND	7.7	ug/kg
1,2,4-Trichloro-benzene	ND	7.7	ug/kg
Tetrachloroethene	ND	7.7	ug/kg
1,1,1-Trichloroethane	ND	7.7	ug/kg
1,1,2-Trichloroethane	ND	7.7	ug/kg
Trichloroethene	ND	7.7	ug/kg
Trichlorofluoromethane	ND	7.7	ug/kg
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	7.7	ug/kg
Toluene	ND	7.7	ug/kg
Vinyl chloride	ND	7.7	ug/kg
Xylenes (total)	ND	23	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	113	(52 - 124)
Toluene-d8	95	(72 - 127)
4-Bromofluorobenzene	74	(63 - 120)
Dibromofluoromethane	79	(68 - 121)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

ERM Group Inc, The

Client Sample ID: A-79-1

GC/MS Semivolatiles

Lot-Sample #...: C8B150283-008 **Work Order #...:** KG6WF1AD **Matrix.....:** SOLID
Date Sampled...: 02/14/08 **Date Received..:** 02/15/08 **MS Run #.....:** 8050002
Prep Date.....: 02/19/08 **Analysis Date..:** 02/19/08
Prep Batch #...: 8050010 **Analysis Time..:** 14:43
Dilution Factor: 1
% Moisture.....: 39 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acenaphthene	ND	540	ug/kg
Acenaphthylene	ND	540	ug/kg
Acetophenone	ND	540	ug/kg
Anthracene	ND	540	ug/kg
Atrazine	ND	540	ug/kg
Benzo(a)anthracene	ND	540	ug/kg
Benzo(a)pyrene	**44 J**	**540**	**ug/kg**
Benzo(b)fluoranthene	**170 J**	**540**	**ug/kg**
Benzo(ghi)perylene	**180 J**	**540**	**ug/kg**
Benzo(k)fluoranthene	**56 J**	**540**	**ug/kg**
Benzaldehyde	ND	540	ug/kg
1,1'-Biphenyl	ND	540	ug/kg
bis(2-Chloroethoxy) methane	ND	540	ug/kg
bis(2-Chloroethyl)-ether	ND	540	ug/kg
bis(2-Ethylhexyl) phthalate	ND	540	ug/kg
4-Bromophenyl phenyl ether	ND	540	ug/kg
Butyl benzyl phthalate	ND	540	ug/kg
Caprolactam	ND	540	ug/kg
Carbazole	ND	540	ug/kg
4-Chloroaniline	ND	540	ug/kg
4-Chloro-3-methylphenol	ND	540	ug/kg
2-Chloronaphthalene	ND	540	ug/kg
2-Chlorophenol	ND	540	ug/kg
4-Chlorophenyl phenyl ether	ND	540	ug/kg
Chrysene	**390 J**	**540**	**ug/kg**
Dibenz(a,h)anthracene	ND	540	ug/kg
Dibenzofuran	ND	540	ug/kg
3,3'-Dichlorobenzidine	ND	2600	ug/kg
2,4-Dichlorophenol	ND	540	ug/kg
Diethyl phthalate	ND	540	ug/kg
2,4-Dimethylphenol	ND	540	ug/kg
Dimethyl phthalate	ND	540	ug/kg
Di-n-butyl phthalate	ND	540	ug/kg

(Continued on next page)

ERM Group Inc, The

Client Sample ID: A-79-1

GC/MS Semivolatiles

Lot-Sample #...: C8B150283-008 **Work Order #...:** KG6WF1AD **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4,6-Dinitro-2-methylphenol	ND	2600	ug/kg
2,4-Dinitrophenol	ND	2600	ug/kg
2,4-Dinitrotoluene	ND	540	ug/kg
2,6-Dinitrotoluene	ND	540	ug/kg
Di-n-octyl phthalate	ND	540	ug/kg
Fluoranthene	**130 J**	**540**	**ug/kg**
Fluorene	ND	540	ug/kg
Hexachlorobenzene	ND	540	ug/kg
Hexachlorobutadiene	ND	540	ug/kg
Hexachlorocyclopentadiene	ND	2600	ug/kg
Hexachloroethane	ND	540	ug/kg
Indeno(1,2,3-cd)pyrene	**150 J**	**540**	**ug/kg**
Isophorone	ND	540	ug/kg
2-Methylnaphthalene	ND	540	ug/kg
2-Methylphenol	ND	540	ug/kg
4-Methylphenol	ND	540	ug/kg
Naphthalene	**51 J**	**540**	**ug/kg**
2-Nitroaniline	ND	2600	ug/kg
3-Nitroaniline	ND	2600	ug/kg
4-Nitroaniline	ND	2600	ug/kg
Nitrobenzene	ND	540	ug/kg
2-Nitrophenol	ND	540	ug/kg
4-Nitrophenol	ND	2600	ug/kg
N-Nitrosodi-n-propylamine	ND	540	ug/kg
N-Nitrosodiphenylamine	**270 J**	**540**	**ug/kg**
2,2'-oxybis(1-Chloropropane)	ND	540	ug/kg
Pentachlorophenol	ND	2600	ug/kg
Phenanthrene	**110 J**	**540**	**ug/kg**
Phenol	ND	540	ug/kg
Pyrene	**320 J**	**540**	**ug/kg**
2,4,5-Trichlorophenol	ND	540	ug/kg
2,4,6-Trichlorophenol	ND	540	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4,6-Tribromophenol	59	(10 - 117)
2-Fluorobiphenyl	57	(20 - 109)
2-Fluorophenol	54	(10 - 113)
Nitrobenzene-d5	54	(18 - 106)
Phenol-d5	62	(18 - 113)
Terphenyl-d14	61	(10 - 138)

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ERM Group Inc, The

Client Sample ID: A-79-1

GC/MS Semivolatiles

Lot-Sample #...: C8B150283-008 **Work Order #...:** KG6WF1AD **Matrix.....:** SOLID

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

ERM Group Inc, The

Client Sample ID: A-79-1

GC Semivolatiles

Lot-Sample #...:	C8B150283-008	**Work Order #...:**	KG6WF1AE	**Matrix.....:**	SOLID
Date Sampled...:	02/14/08	**Date Received..:**	02/15/08	**MS Run #.....:**	8049007
Prep Date.....:	02/18/08	**Analysis Date..:**	02/22/08		
Prep Batch #...:	8049027	**Analysis Time..:**	07:08		
Dilution Factor:	10				
% Moisture.....:	39	**Method.....:**	SW846 8081A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
alpha-BHC	ND	28	ug/kg
beta-BHC	ND	28	ug/kg
delta-BHC	ND	28	ug/kg
gamma-BHC (Lindane)	**25 J,PG**	**28**	**ug/kg**
Heptachlor	**25 J,PG**	**28**	**ug/kg**
Aldrin	**12 J,PG**	**28**	**ug/kg**
Heptachlor epoxide	**260 PG**	**28**	**ug/kg**
Endosulfan I	**71 PG**	**28**	**ug/kg**
Dieldrin	ND	28	ug/kg
4,4'-DDE	ND	28	ug/kg
Endrin	ND	28	ug/kg
Endrin ketone	ND	28	ug/kg
Endrin aldehyde	ND	28	ug/kg
Endosulfan II	ND	28	ug/kg
4,4'-DDD	ND	28	ug/kg
Endosulfan sulfate	**92 PG**	**28**	**ug/kg**
4,4'-DDT	ND	28	ug/kg
Methoxychlor	ND	54	ug/kg
alpha-Chlordane	ND	28	ug/kg
gamma-Chlordane	**630 PG**	**28**	**ug/kg**
Toxaphene	ND	1100	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	NC,DIL	(31 - 131)
Decachlorobiphenyl	NC,DIL	(18 - 145)

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.

J Estimated result. Result is less than RL.

PG The percent difference between the original and confirmation analyses is greater than 40%.

ERM Group Inc, The

Client Sample ID: A-79-1

GC Semivolatiles

Lot-Sample #...:	C8B150283-008	**Work Order #...:**	KG6WF1AF	**Matrix.....:**	SOLID
Date Sampled...:	02/14/08	**Date Received..:**	02/15/08	**MS Run #.....:**	8049009
Prep Date.....:	02/18/08	**Analysis Date..:**	02/21/08		
Prep Batch #...:	8049030	**Analysis Time..:**	17:33		
Dilution Factor:	20				
% Moisture.....:	39	**Method.....:**	SW846 8082		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	1100	ug/kg
Aroclor 1221	ND	1100	ug/kg
Aroclor 1232	ND	1100	ug/kg
Aroclor 1242	ND	1100	ug/kg
Aroclor 1248	ND	1100	ug/kg
Aroclor 1254	**35000**	**1100**	**ug/kg**
Aroclor 1260	ND	1100	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	NC,DIL	(31 - 127)
Decachlorobiphenyl	NC,DIL	(23 - 141)

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.

ERM Group Inc, The

Client Sample ID: A-79-1

TOTAL Metals

Lot-Sample #...: C8B150283-008 Matrix.....: SOLID
Date Sampled...: 02/14/08 Date Received..: 02/15/08
% Moisture.....: 39

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8049017						
Mercury	1.6	0.054	mg/kg	SW846 7471A	02/18/08	KG6WF1A7
		Dilution Factor: 1		Analysis Time..: 08:40	MS Run #.....: 8049004	
Prep Batch #...: 8063282						
Silver	6.1 J	0.82	mg/kg	SW846 6010B	03/03-03/04/08	KG6WF1AG
		Dilution Factor: 1		Analysis Time..: 14:56	MS Run #.....: 8063181	
Aluminum	5920 J	32.6	mg/kg	SW846 6010B	03/03-03/04/08	KG6WF1AH
		Dilution Factor: 1		Analysis Time..: 14:56	MS Run #.....: 8063181	
Arsenic	15.4	8.2	mg/kg	SW846 6010B	03/03-03/04/08	KG6WF1AJ
		Dilution Factor: 5		Analysis Time..: 15:41	MS Run #.....: 8063181	
Barium	111	32.6	mg/kg	SW846 6010B	03/03-03/04/08	KG6WF1AK
		Dilution Factor: 1		Analysis Time..: 14:56	MS Run #.....: 8063181	
Beryllium	0.36 B	0.65	mg/kg	SW846 6010B	03/03-03/04/08	KG6WF1AL
		Dilution Factor: 1		Analysis Time..: 14:56	MS Run #.....: 8063181	
Calcium	19400	816	mg/kg	SW846 6010B	03/03-03/04/08	KG6WF1AM
		Dilution Factor: 1		Analysis Time..: 14:56	MS Run #.....: 8063181	
Cadmium	6.0	4.1	mg/kg	SW846 6010B	03/03-03/04/08	KG6WF1AN
		Dilution Factor: 5		Analysis Time..: 15:41	MS Run #.....: 8063181	
Cobalt	359	40.8	mg/kg	SW846 6010B	03/03-03/04/08	KG6WF1AP
		Dilution Factor: 5		Analysis Time..: 15:41	MS Run #.....: 8063181	
Chromium	6790	4.1	mg/kg	SW846 6010B	03/03-03/04/08	KG6WF1AQ
		Dilution Factor: 5		Analysis Time..: 15:41	MS Run #.....: 8063181	
Copper	4840	20.4	mg/kg	SW846 6010B	03/03-03/04/08	KG6WF1AR
		Dilution Factor: 5		Analysis Time..: 15:41	MS Run #.....: 8063181	
Iron	270000 J	81.6	mg/kg	SW846 6010B	03/03-03/04/08	KG6WF1AT
		Dilution Factor: 5		Analysis Time..: 15:41	MS Run #.....: 8063181	

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ERM Group Inc, The

Client Sample ID: A-79-1

TOTAL Metals

Lot-Sample #...: C8B150283-008 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Potassium	**2830**	**816**	**mg/kg**	**SW846 6010B**	**03/03-03/04/08**	**KG6WF1AU**
		Dilution Factor: 1		Analysis Time..: 14:56	MS Run #.....: 8063181	
Magnesium	**3880**	**816**	**mg/kg**	**SW846 6010B**	**03/03-03/04/08**	**KG6WF1AV**
		Dilution Factor: 1		Analysis Time..: 14:56	MS Run #.....: 8063181	
Manganese	**5880**	**12.2**	**mg/kg**	**SW846 6010B**	**03/03-03/04/08**	**KG6WF1AW**
		Dilution Factor: 5		Analysis Time..: 15:41	MS Run #.....: 8063181	
Sodium	**16800 J**	**4080**	**mg/kg**	**SW846 6010B**	**03/03-03/04/08**	**KG6WF1AX**
		Dilution Factor: 5		Analysis Time..: 15:41	MS Run #.....: 8063181	
Nickel	**24900**	**32.6**	**mg/kg**	**SW846 6010B**	**03/03-03/04/08**	**KG6WF1A0**
		Dilution Factor: 5		Analysis Time..: 15:41	MS Run #.....: 8063181	
Lead	**24200 J**	**49.0**	**mg/kg**	**SW846 6010B**	**03/03-03/04/08**	**KG6WF1A1**
		Dilution Factor: 100		Analysis Time..: 16:45	MS Run #.....: 8063181	
Selenium	ND	4.1	mg/kg	SW846 6010B	03/03-03/04/08	KG6WF1A2
		Dilution Factor: 5		Analysis Time..: 15:41	MS Run #.....: 8063181	
Thallium	ND	8.2	mg/kg	SW846 6010B	03/03-03/04/08	KG6WF1A3
		Dilution Factor: 5		Analysis Time..: 15:41	MS Run #.....: 8063181	
Antimony	**30.9**	**8.2**	**mg/kg**	**SW846 6010B**	**03/03-03/04/08**	**KG6WF1A4**
		Dilution Factor: 5		Analysis Time..: 15:41	MS Run #.....: 8063181	
Vanadium	**451**	**40.8**	**mg/kg**	**SW846 6010B**	**03/03-03/04/08**	**KG6WF1A5**
		Dilution Factor: 5		Analysis Time..: 15:41	MS Run #.....: 8063181	
Zinc	**1100**	**16.3**	**mg/kg**	**SW846 6010B**	**03/03-03/04/08**	**KG6WF1A6**
		Dilution Factor: 5		Analysis Time..: 15:41	MS Run #.....: 8063181	

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

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

B Estimated result. Result is less than RL.

ERM Group Inc, The

Client Sample ID: A-79-1

General Chemistry

Lot-Sample #...: C8B150283-008 **Work Order #...:** KG6WF **Matrix.....:** SOLID
Date Sampled...: 02/14/08 **Date Received..:** 02/15/08
% Moisture.....: 39

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**61.3**	**1.0**	**%**	**SM20 2540G**	**02/18-02/19/08**	**8049211**

Dilution Factor: 1 Analysis Time..: 05:30 MS Run #.....: 8049113

ERM Group Inc, The

Client Sample ID: Z-4

GC/MS Volatiles

Lot-Sample #...: C8B150283-009 **Work Order #...:** KG6WK1AL **Matrix.....:** SOLID
Date Sampled...: 02/14/08 **Date Received..:** 02/15/08 **MS Run #.....:** 8049043
Prep Date.....: 02/18/08 **Analysis Date..:** 02/18/08
Prep Batch #...: 8049063 **Analysis Time..:** 14:33
Dilution Factor: 0.88
% Moisture.....: 39 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	29	ug/kg
Benzene	ND	7.3	ug/kg
Bromodichloromethane	ND	7.3	ug/kg
Bromoform	ND	7.3	ug/kg
Bromomethane	ND	7.3	ug/kg
2-Butanone	ND	7.3	ug/kg
Carbon disulfide	ND	7.3	ug/kg
Carbon tetrachloride	ND	7.3	ug/kg
Chlorobenzene	ND	7.3	ug/kg
Chloroethane	ND	7.3	ug/kg
Chloroform	ND	7.3	ug/kg
Chloromethane	ND	7.3	ug/kg
Cyclohexane	ND	7.3	ug/kg
Dibromochloromethane	ND	7.3	ug/kg
1,2-Dibromo-3-chloro-propane	ND	7.3	ug/kg
1,2-Dibromoethane	ND	7.3	ug/kg
1,3-Dichlorobenzene	ND	7.3	ug/kg
1,4-Dichlorobenzene	ND	7.3	ug/kg
1,2-Dichlorobenzene	ND	7.3	ug/kg
Dichlorodifluoromethane	ND	7.3	ug/kg
1,1-Dichloroethane	ND	7.3	ug/kg
1,2-Dichloroethane	ND	7.3	ug/kg
1,1-Dichloroethene	ND	7.3	ug/kg
cis-1,2-Dichloroethene	ND	7.3	ug/kg
trans-1,2-Dichloroethene	ND	7.3	ug/kg
1,2-Dichloropropane	ND	7.3	ug/kg
cis-1,3-Dichloropropene	ND	7.3	ug/kg
trans-1,3-Dichloropropene	ND	7.3	ug/kg
Ethylbenzene	ND	7.3	ug/kg
2-Hexanone	ND	7.3	ug/kg
Isopropylbenzene	ND	7.3	ug/kg
Methyl acetate	ND	7.3	ug/kg
Methylene chloride	**3.3 J**	**7.3**	**ug/kg**
Methylcyclohexane	ND	7.3	ug/kg
4-Methyl-2-pentanone	ND	7.3	ug/kg
Methyl tert-butyl ether	ND	7.3	ug/kg
Styrene	ND	7.3	ug/kg

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ERM Group Inc, The

Client Sample ID: Z-4

GC/MS Volatiles

Lot-Sample #...: C8B150283-009 **Work Order #...:** KG6WK1AL **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
1,1,2,2-Tetrachloroethane	ND	7.3	ug/kg
1,2,4-Trichloro-benzene	ND	7.3	ug/kg
Tetrachloroethene	ND	7.3	ug/kg
1,1,1-Trichloroethane	ND	7.3	ug/kg
1,1,2-Trichloroethane	ND	7.3	ug/kg
Trichloroethene	ND	7.3	ug/kg
Trichlorofluoromethane	ND	7.3	ug/kg
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	7.3	ug/kg
Toluene	ND	7.3	ug/kg
Vinyl chloride	ND	7.3	ug/kg
Xylenes (total)	ND	22	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	121	(52 - 124)
Toluene-d8	98	(72 - 127)
4-Bromofluorobenzene	77	(63 - 120)
Dibromofluoromethane	70	(68 - 121)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

ERM Group Inc, The

Client Sample ID: Z-4

GC/MS Semivolatiles

Lot-Sample #...:	C8B150283-009	**Work Order #...:**	KG6WK1AM	**Matrix.....:**	SOLID
Date Sampled...:	02/14/08	**Date Received..:**	02/15/08	**MS Run #.....:**	8050002
Prep Date.....:	02/19/08	**Analysis Date..:**	02/19/08		
Prep Batch #...:	8050010	**Analysis Time..:**	15:13		
Dilution Factor:	1				
% Moisture.....:	39	**Method.....:**	SW846 8270C		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acenaphthene	ND	540	ug/kg
Acenaphthylene	ND	540	ug/kg
Acetophenone	**34 J**	**540**	**ug/kg**
Anthracene	ND	540	ug/kg
Atrazine	ND	540	ug/kg
Benzo(a)anthracene	ND	540	ug/kg
Benzo(a)pyrene	ND	540	ug/kg
Benzo(b)fluoranthene	**250 J**	**540**	**ug/kg**
Benzo(ghi)perylene	**220 J**	**540**	**ug/kg**
Benzo(k)fluoranthene	**51 J**	**540**	**ug/kg**
Benzaldehyde	ND	540	ug/kg
1,1'-Biphenyl	ND	540	ug/kg
bis(2-Chloroethoxy) methane	ND	540	ug/kg
bis(2-Chloroethyl)-ether	ND	540	ug/kg
bis(2-Ethylhexyl) phthalate	ND	540	ug/kg
4-Bromophenyl phenyl ether	ND	540	ug/kg
Butyl benzyl phthalate	ND	540	ug/kg
Caprolactam	ND	540	ug/kg
Carbazole	ND	540	ug/kg
4-Chloroaniline	ND	540	ug/kg
4-Chloro-3-methylphenol	ND	540	ug/kg
2-Chloronaphthalene	ND	540	ug/kg
2-Chlorophenol	ND	540	ug/kg
4-Chlorophenyl phenyl ether	ND	540	ug/kg
Chrysene	**510 J**	**540**	**ug/kg**
Dibenz(a,h)anthracene	ND	540	ug/kg
Dibenzofuran	ND	540	ug/kg
3,3'-Dichlorobenzidine	ND	2600	ug/kg
2,4-Dichlorophenol	ND	540	ug/kg
Diethyl phthalate	ND	540	ug/kg
2,4-Dimethylphenol	**36 J**	**540**	**ug/kg**
Dimethyl phthalate	ND	540	ug/kg
Di-n-butyl phthalate	ND	540	ug/kg

(Continued on next page)

ERM Group Inc, The

Client Sample ID: Z-4

GC/MS Semivolatiles

Lot-Sample #...: C8B150283-009 **Work Order #...:** KG6WK1AM **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4,6-Dinitro-2-methylphenol	ND	2600	ug/kg
2,4-Dinitrophenol	ND	2600	ug/kg
2,4-Dinitrotoluene	ND	540	ug/kg
2,6-Dinitrotoluene	ND	540	ug/kg
Di-n-octyl phthalate	ND	540	ug/kg
Fluoranthene	**160 J**	**540**	**ug/kg**
Fluorene	ND	540	ug/kg
Hexachlorobenzene	ND	540	ug/kg
Hexachlorobutadiene	ND	540	ug/kg
Hexachlorocyclopentadiene	ND	2600	ug/kg
Hexachloroethane	ND	540	ug/kg
Indeno(1,2,3-cd)pyrene	**210 J**	**540**	**ug/kg**
Isophorone	ND	540	ug/kg
2-Methylnaphthalene	ND	540	ug/kg
2-Methylphenol	ND	540	ug/kg
4-Methylphenol	ND	540	ug/kg
Naphthalene	**57 J**	**540**	**ug/kg**
2-Nitroaniline	ND	2600	ug/kg
3-Nitroaniline	ND	2600	ug/kg
4-Nitroaniline	ND	2600	ug/kg
Nitrobenzene	ND	540	ug/kg
2-Nitrophenol	ND	540	ug/kg
4-Nitrophenol	ND	2600	ug/kg
N-Nitrosodi-n-propylamine	ND	540	ug/kg
N-Nitrosodiphenylamine	**360 J**	**540**	**ug/kg**
2,2'-oxybis(1-Chloropropane)	ND	540	ug/kg
Pentachlorophenol	ND	2600	ug/kg
Phenanthrene	**120 J**	**540**	**ug/kg**
Phenol	ND	540	ug/kg
Pyrene	**440 J**	**540**	**ug/kg**
2,4,5-Trichlorophenol	ND	540	ug/kg
2,4,6-Trichlorophenol	ND	540	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4,6-Tribromophenol	80	(10 - 117)
2-Fluorobiphenyl	68	(20 - 109)
2-Fluorophenol	70	(10 - 113)
Nitrobenzene-d5	69	(18 - 106)
Phenol-d5	77	(18 - 113)
Terphenyl-d14	69	(10 - 138)

(Continued on next page)

ERM Group Inc, The

Client Sample ID: Z-4

GC/MS Semivolatiles

Lot-Sample #...: C8B150283-009 **Work Order #...:** KG6WK1AM **Matrix.....:** SOLID

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

ERM Group Inc, The

Client Sample ID: Z-4

GC Semivolatiles

Lot-Sample #...:	C8B150283-009	**Work Order #...:**	KG6WK1AN	**Matrix.....:**	SOLID
Date Sampled...:	02/14/08	**Date Received..:**	02/15/08	**MS Run #.....:**	8049007
Prep Date.....:	02/18/08	**Analysis Date..:**	02/22/08		
Prep Batch #...:	8049027	**Analysis Time..:**	08:02		
Dilution Factor:	10				
% Moisture.....:	39	**Method.....:**	SW846 8081A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
alpha-BHC	ND	28	ug/kg
beta-BHC	ND	28	ug/kg
delta-BHC	**29 PG**	**28**	**ug/kg**
gamma-BHC (Lindane)	**13 J,PG**	**28**	**ug/kg**
Heptachlor	**16 J,PG**	**28**	**ug/kg**
Aldrin	ND	28	ug/kg
Heptachlor epoxide	**300 PG**	**28**	**ug/kg**
Endosulfan I	**90 PG**	**28**	**ug/kg**
Dieldrin	**270 PG**	**28**	**ug/kg**
4,4'-DDE	ND	28	ug/kg
Endrin	ND	28	ug/kg
Endrin ketone	ND	28	ug/kg
Endrin aldehyde	ND	28	ug/kg
Endosulfan II	ND	28	ug/kg
4,4'-DDD	ND	28	ug/kg
Endosulfan sulfate	**94**	**28**	**ug/kg**
4,4'-DDT	ND	28	ug/kg
Methoxychlor	ND	54	ug/kg
alpha-Chlordane	ND	28	ug/kg
gamma-Chlordane	**560 PG**	**28**	**ug/kg**
Toxaphene	ND	1100	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	NC,DIL	(31 - 131)
Decachlorobiphenyl	NC,DIL	(18 - 145)

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.

PG The percent difference between the original and confirmation analyses is greater than 40%.

J Estimated result. Result is less than RL.

ERM Group Inc, The

Client Sample ID: Z-4

GC Semivolatiles

Lot-Sample #...:	C8B150283-009	**Work Order #...:**	KG6WK1AP	**Matrix.....:**	SOLID
Date Sampled...:	02/14/08	**Date Received..:**	02/15/08	**MS Run #.....:**	8049009
Prep Date.....:	02/18/08	**Analysis Date..:**	02/22/08		
Prep Batch #...:	8049030	**Analysis Time..:**	10:51		
Dilution Factor:	20				
% Moisture.....:	39	**Method.....:**	SW846 8082		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	1100	ug/kg
Aroclor 1221	ND	1100	ug/kg
Aroclor 1232	ND	1100	ug/kg
Aroclor 1242	ND	1100	ug/kg
Aroclor 1248	ND	1100	ug/kg
Aroclor 1254	**34000**	**1100**	**ug/kg**
Aroclor 1260	ND	1100	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	NC,DIL	(31 - 127)
Decachlorobiphenyl	NC,DIL	(23 - 141)

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.

ERM Group Inc, The

Client Sample ID: Z-4

TOTAL Metals

Lot-Sample #...: C8B150283-009 **Matrix.....:** SOLID
Date Sampled...: 02/14/08 **Date Received..:** 02/15/08
% Moisture.....: 39

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8049017						
Mercury	1.6	0.054	mg/kg	SW846 7471A	02/18/08	KG6WK1AJ
		Dilution Factor: 1		Analysis Time..: 08:41	MS Run #.....: 8049004	
Prep Batch #...: 8063282						
Silver	4.9 J	0.83	mg/kg	SW846 6010B	03/03-03/04/08	KG6WK1AQ
		Dilution Factor: 1		Analysis Time..: 15:31	MS Run #.....: 8063181	
Aluminum	4360 J	33.0	mg/kg	SW846 6010B	03/03-03/04/08	KG6WK1AR
		Dilution Factor: 1		Analysis Time..: 15:31	MS Run #.....: 8063181	
Arsenic	14.5	8.3	mg/kg	SW846 6010B	03/03-03/04/08	KG6WK1AT
		Dilution Factor: 5		Analysis Time..: 16:40	MS Run #.....: 8063181	
Barium	82.7	33.0	mg/kg	SW846 6010B	03/03-03/04/08	KG6WK1AU
		Dilution Factor: 1		Analysis Time..: 15:31	MS Run #.....: 8063181	
Beryllium	0.31 B	0.66	mg/kg	SW846 6010B	03/03-03/04/08	KG6WK1AV
		Dilution Factor: 1		Analysis Time..: 15:31	MS Run #.....: 8063181	
Calcium	15400	825	mg/kg	SW846 6010B	03/03-03/04/08	KG6WK1AW
		Dilution Factor: 1		Analysis Time..: 15:31	MS Run #.....: 8063181	
Cadmium	4.2	4.1	mg/kg	SW846 6010B	03/03-03/04/08	KG6WK1AX
		Dilution Factor: 5		Analysis Time..: 16:40	MS Run #.....: 8063181	
Cobalt	277	41.3	mg/kg	SW846 6010B	03/03-03/04/08	KG6WK1A0
		Dilution Factor: 5		Analysis Time..: 16:40	MS Run #.....: 8063181	
Chromium	6670	4.1	mg/kg	SW846 6010B	03/03-03/04/08	KG6WK1A1
		Dilution Factor: 5		Analysis Time..: 16:40	MS Run #.....: 8063181	
Copper	3920	20.6	mg/kg	SW846 6010B	03/03-03/04/08	KG6WK1A2
		Dilution Factor: 5		Analysis Time..: 16:40	MS Run #.....: 8063181	
Iron	230000 J	82.5	mg/kg	SW846 6010B	03/03-03/04/08	KG6WK1A3
		Dilution Factor: 5		Analysis Time..: 16:40	MS Run #.....: 8063181	

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ERM Group Inc, The

Client Sample ID: Z-4

TOTAL Metals

Lot-Sample #...: C8B150283-009 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Potassium	**2560**	**825**	**mg/kg**	**SW846 6010B**	**03/03-03/04/08**	**KG6WK1A4**
		Dilution Factor: 1		Analysis Time..: 15:31	MS Run #.....: 8063181	
Magnesium	**3040**	**825**	**mg/kg**	**SW846 6010B**	**03/03-03/04/08**	**KG6WK1A5**
		Dilution Factor: 1		Analysis Time..: 15:31	MS Run #.....: 8063181	
Manganese	**4700**	**12.4**	**mg/kg**	**SW846 6010B**	**03/03-03/04/08**	**KG6WK1A6**
		Dilution Factor: 5		Analysis Time..: 16:40	MS Run #.....: 8063181	
Sodium	**14500 J**	**4130**	**mg/kg**	**SW846 6010B**	**03/03-03/04/08**	**KG6WK1A7**
		Dilution Factor: 5		Analysis Time..: 16:40	MS Run #.....: 8063181	
Nickel	**20200**	**33.0**	**mg/kg**	**SW846 6010B**	**03/03-03/04/08**	**KG6WK1AA**
		Dilution Factor: 5		Analysis Time..: 16:40	MS Run #.....: 8063181	
Lead	**17200 J**	**49.5**	**mg/kg**	**SW846 6010B**	**03/03-03/04/08**	**KG6WK1AC**
		Dilution Factor: 100		Analysis Time..: 17:07	MS Run #.....: 8063181	
Selenium	ND	4.1	mg/kg	SW846 6010B	03/03-03/04/08	KG6WK1AD
		Dilution Factor: 5		Analysis Time..: 16:40	MS Run #.....: 8063181	
Thallium	ND	8.3	mg/kg	SW846 6010B	03/03-03/04/08	KG6WK1AE
		Dilution Factor: 5		Analysis Time..: 16:40	MS Run #.....: 8063181	
Antimony	**19.4**	**8.3**	**mg/kg**	**SW846 6010B**	**03/03-03/04/08**	**KG6WK1AF**
		Dilution Factor: 5		Analysis Time..: 16:40	MS Run #.....: 8063181	
Vanadium	**359**	**41.3**	**mg/kg**	**SW846 6010B**	**03/03-03/04/08**	**KG6WK1AG**
		Dilution Factor: 5		Analysis Time..: 16:40	MS Run #.....: 8063181	
Zinc	**832**	**16.5**	**mg/kg**	**SW846 6010B**	**03/03-03/04/08**	**KG6WK1AH**
		Dilution Factor: 5		Analysis Time..: 16:40	MS Run #.....: 8063181	

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

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

B Estimated result. Result is less than RL.

ERM Group Inc, The

Client Sample ID: Z-4

General Chemistry

Lot-Sample #...: C8B150283-009 **Work Order #...:** KG6WK **Matrix.....:** SOLID
Date Sampled...: 02/14/08 **Date Received..:** 02/15/08
% Moisture.....: 39

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**60.6**	**1.0**	**%**	**SM20 2540G**	**02/18-02/19/08**	**8049211**

Dilution Factor: 1 Analysis Time..: 05:30 MS Run #.....: 8049113

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: C8B150283 **Work Order #...:** KG8GT1AA **Matrix.....:** SOLID
MB Lot-Sample #: C8B180000-063
Prep Date.....: 02/18/08 **Analysis Time..:** 06:59
Analysis Date..: 02/18/08 **Prep Batch #...:** 8049063
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	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	5.0	ug/kg	SW846 8260B
2-Butanone	ND	5.0	ug/kg	SW846 8260B
Carbon disulfide	ND	5.0	ug/kg	SW846 8260B
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260B
Chlorobenzene	ND	5.0	ug/kg	SW846 8260B
Chloroethane	ND	5.0	ug/kg	SW846 8260B
Chloroform	ND	5.0	ug/kg	SW846 8260B
Chloromethane	ND	5.0	ug/kg	SW846 8260B
Cyclohexane	ND	5.0	ug/kg	SW846 8260B
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	5.0	ug/kg	SW846 8260B
1,2-Dibromoethane	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
1,2-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
Dichlorodifluoromethane	ND	5.0	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
cis-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
trans-1,2-Dichloroethene	ND	5.0	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	5.0	ug/kg	SW846 8260B
Isopropylbenzene	ND	5.0	ug/kg	SW846 8260B
Methyl acetate	ND	5.0	ug/kg	SW846 8260B
Methylene chloride	ND	5.0	ug/kg	SW846 8260B
Methylcyclohexane	ND	5.0	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/kg	SW846 8260B
Methyl tert-butyl ether	ND	5.0	ug/kg	SW846 8260B
Styrene	ND	5.0	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: C8B150283 **Work Order #...:** KG8GT1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Tetrachloroethene	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
Trichlorofluoromethane	ND	5.0	ug/kg	SW846 8260B
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0	ug/kg	SW846 8260B
Toluene	ND	5.0	ug/kg	SW846 8260B
Vinyl chloride	ND	5.0	ug/kg	SW846 8260B
Xylenes (total)	ND	15	ug/kg	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	93	(52 - 124)
Toluene-d8	99	(72 - 127)
4-Bromofluorobenzene	80	(63 - 120)
Dibromofluoromethane	86	(68 - 121)

NOTE(S):

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

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: C8B150283 **Work Order #...:** KHAF61AA **Matrix.....:** WATER
MB Lot-Sample #: C8B190000-242

Prep Date.....: 02/19/08 **Analysis Time..:** 07:27
Analysis Date..: 02/19/08 **Prep Batch #...:** 8050242
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	20	ug/L	SW846 8260B
Benzene	ND	5.0	ug/L	SW846 8260B
Bromodichloromethane	ND	5.0	ug/L	SW846 8260B
Bromoform	ND	5.0	ug/L	SW846 8260B
Bromomethane	ND	5.0	ug/L	SW846 8260B
2-Butanone	ND	5.0	ug/L	SW846 8260B
Carbon disulfide	ND	5.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	5.0	ug/L	SW846 8260B
Chlorobenzene	ND	5.0	ug/L	SW846 8260B
Chloroethane	ND	5.0	ug/L	SW846 8260B
Chloroform	ND	5.0	ug/L	SW846 8260B
Chloromethane	ND	5.0	ug/L	SW846 8260B
Cyclohexane	ND	5.0	ug/L	SW846 8260B
Dibromochloromethane	ND	5.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	5.0	ug/L	SW846 8260B
1,2-Dibromoethane	ND	5.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	ND	5.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	5.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	5.0	ug/L	SW846 8260B
Dichlorodifluoromethane	ND	5.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	5.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	5.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	5.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	5.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	5.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	5.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	5.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	5.0	ug/L	SW846 8260B
Ethylbenzene	ND	5.0	ug/L	SW846 8260B
2-Hexanone	ND	5.0	ug/L	SW846 8260B
Isopropylbenzene	ND	5.0	ug/L	SW846 8260B
Methyl acetate	ND	5.0	ug/L	SW846 8260B
Methylene chloride	ND	5.0	ug/L	SW846 8260B
Methylcyclohexane	ND	5.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
Methyl tert-butyl ether	ND	5.0	ug/L	SW846 8260B
Styrene	ND	5.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L	SW846 8260B
1,2,4-Trichloro-benzene	ND	5.0	ug/L	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: C8B150283 **Work Order #...:** KHAF61AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Tetrachloroethene	ND	5.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	5.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	5.0	ug/L	SW846 8260B
Trichloroethene	ND	5.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	5.0	ug/L	SW846 8260B
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0	ug/L	SW846 8260B
Toluene	ND	5.0	ug/L	SW846 8260B
Vinyl chloride	ND	5.0	ug/L	SW846 8260B
Xylenes (total)	ND	15	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	112	(70 - 125)
Toluene-d8	96	(80 - 120)
4-Bromofluorobenzene	96	(75 - 120)
Dibromofluoromethane	97	(80 - 120)

NOTE(S):

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

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: C8B150283 **Work Order #...:** KG9GK1AA **Matrix.....:** SOLID
MB Lot-Sample #: C8B190000-010

Prep Date.....: 02/19/08 **Analysis Time..:** 10:21
Analysis Date..: 02/19/08 **Prep Batch #...:** 8050010
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
Anthracene	ND	330	ug/kg	SW846 8270C
Atrazine	ND	330	ug/kg	SW846 8270C
Benzo(a)anthracene	ND	330	ug/kg	SW846 8270C
Benzo(a)pyrene	ND	330	ug/kg	SW846 8270C
Benzo(b)fluoranthene	ND	330	ug/kg	SW846 8270C
Benzo(ghi)perylene	ND	330	ug/kg	SW846 8270C
Benzo(k)fluoranthene	ND	330	ug/kg	SW846 8270C
Benzaldehyde	ND	330	ug/kg	SW846 8270C
1,1'-Biphenyl	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
Caprolactam	ND	330	ug/kg	SW846 8270C
Carbazole	ND	330	ug/kg	SW846 8270C
4-Chloroaniline	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
Dibenz(a,h)anthracene	ND	330	ug/kg	SW846 8270C
Dibenzofuran	ND	330	ug/kg	SW846 8270C
3,3'-Dichlorobenzidine	ND	1600	ug/kg	SW846 8270C
2,4-Dichlorophenol	ND	330	ug/kg	SW846 8270C
Diethyl phthalate	ND	330	ug/kg	SW846 8270C
2,4-Dimethylphenol	ND	330	ug/kg	SW846 8270C
Dimethyl phthalate	ND	330	ug/kg	SW846 8270C
Di-n-butyl phthalate	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

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: C8B150283 **Work Order #...:** KG9GK1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
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
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
Indeno(1,2,3-cd)pyrene	ND	330	ug/kg	SW846 8270C
Isophorone	ND	330	ug/kg	SW846 8270C
2-Methylnaphthalene	ND	330	ug/kg	SW846 8270C
2-Methylphenol	ND	330	ug/kg	SW846 8270C
4-Methylphenol	ND	330	ug/kg	SW846 8270C
Naphthalene	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
2-Nitrophenol	ND	330	ug/kg	SW846 8270C
4-Nitrophenol	ND	1600	ug/kg	SW846 8270C
N-Nitrosodi-n-propyl-amine	ND	330	ug/kg	SW846 8270C
N-Nitrosodiphenylamine	ND	330	ug/kg	SW846 8270C
2,2'-oxybis(1-Chloropropa	ND	330	ug/kg	SW846 8270C
Pentachlorophenol	**79 J**	**1600**	**ug/kg**	**SW846 8270C**
Phenanthrene	ND	330	ug/kg	SW846 8270C
Phenol	ND	330	ug/kg	SW846 8270C
Pyrene	ND	330	ug/kg	SW846 8270C
2,4,5-Trichloro-phenol	ND	330	ug/kg	SW846 8270C
2,4,6-Trichloro-phenol	ND	330	ug/kg	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4,6-Tribromophenol	98	(10 - 117)
2-Fluorobiphenyl	67	(20 - 109)
2-Fluorophenol	63	(10 - 113)
Nitrobenzene-d5	72	(18 - 106)
Phenol-d5	72	(18 - 113)
Terphenyl-d14	109	(10 - 138)

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: C8B150283 **Work Order #...:** KG9GK1AA **Matrix.....:** SOLID

NOTE(S):

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

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: C8B150283 **Work Order #...:** KG8E21AA **Matrix.....:** SOLID
MB Lot-Sample #: C8B180000-027

Prep Date.....: 02/18/08 **Analysis Time..:** 01:40
Analysis Date..: 02/22/08 **Prep Batch #...:** 8049027
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
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
Heptachlor	ND	1.7	ug/kg	SW846 8081A
Aldrin	ND	1.7	ug/kg	SW846 8081A
Heptachlor epoxide	ND	1.7	ug/kg	SW846 8081A
Endosulfan I	ND	1.7	ug/kg	SW846 8081A
Dieldrin	ND	1.7	ug/kg	SW846 8081A
4,4'-DDE	ND	1.7	ug/kg	SW846 8081A
Endrin	ND	1.7	ug/kg	SW846 8081A
Endrin ketone	ND	1.7	ug/kg	SW846 8081A
Endrin aldehyde	ND	1.7	ug/kg	SW846 8081A
Endosulfan II	ND	1.7	ug/kg	SW846 8081A
4,4'-DDD	ND	1.7	ug/kg	SW846 8081A
Endosulfan sulfate	ND	1.7	ug/kg	SW846 8081A
4,4'-DDT	ND	1.7	ug/kg	SW846 8081A
Methoxychlor	ND	3.3	ug/kg	SW846 8081A
alpha-Chlordane	ND	1.7	ug/kg	SW846 8081A
gamma-Chlordane	ND	1.7	ug/kg	SW846 8081A
Toxaphene	ND	67	ug/kg	SW846 8081A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	78	(31 - 131)
Decachlorobiphenyl	78	(18 - 145)

NOTE(S):

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

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: C8B150283 **Work Order #...:** KG8E31AA **Matrix.....:** SOLID
MB Lot-Sample #: C8B180000-030

Prep Date.....: 02/18/08 **Analysis Time..:** 23:19
Analysis Date..: 02/21/08 **Prep Batch #...:** 8049030
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	33	ug/kg	SW846 8082
Aroclor 1221	ND	33	ug/kg	SW846 8082
Aroclor 1232	ND	33	ug/kg	SW846 8082
Aroclor 1242	ND	33	ug/kg	SW846 8082
Aroclor 1248	ND	33	ug/kg	SW846 8082
Aroclor 1254	ND	33	ug/kg	SW846 8082
Aroclor 1260	ND	33	ug/kg	SW846 8082

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	96	(31 - 127)
Decachlorobiphenyl	76	(23 - 141)

NOTE(S):

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

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: C8B150283 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: C8B180000-017 **Prep Batch #...:** 8049017						
Mercury	ND	0.033	mg/kg	SW846 7471A	02/18/08	KG8EX1AA
		Dilution Factor: 1				
		Analysis Time..: 08:32				
MB Lot-Sample #: C8C030000-282 **Prep Batch #...:** 8063282						
Silver	**0.049 B**	**0.50**	**mg/kg**	**SW846 6010B**	**03/03-03/04/08**	**KHXLJ1AA**
		Dilution Factor: 1				
		Analysis Time..: 14:34				
Aluminum	**1.6 B**	**20.0**	**mg/kg**	**SW846 6010B**	**03/03-03/04/08**	**KHXLJ1AC**
		Dilution Factor: 1				
		Analysis Time..: 14:34				
Arsenic	ND	1.0	mg/kg	SW846 6010B	03/03-03/04/08	KHXLJ1AD
		Dilution Factor: 1				
		Analysis Time..: 14:34				
Barium	ND	20.0	mg/kg	SW846 6010B	03/03-03/04/08	KHXLJ1AE
		Dilution Factor: 1				
		Analysis Time..: 14:34				
Beryllium	ND	0.40	mg/kg	SW846 6010B	03/03-03/04/08	KHXLJ1AF
		Dilution Factor: 1				
		Analysis Time..: 14:34				
Calcium	ND	500	mg/kg	SW846 6010B	03/03-03/04/08	KHXLJ1AG
		Dilution Factor: 1				
		Analysis Time..: 14:34				
Cadmium	ND	0.50	mg/kg	SW846 6010B	03/03-03/04/08	KHXLJ1AH
		Dilution Factor: 1				
		Analysis Time..: 14:34				
Cobalt	ND	5.0	mg/kg	SW846 6010B	03/03-03/04/08	KHXLJ1AJ
		Dilution Factor: 1				
		Analysis Time..: 14:34				
Chromium	ND	0.50	mg/kg	SW846 6010B	03/03-03/04/08	KHXLJ1AK
		Dilution Factor: 1				
		Analysis Time..: 14:34				

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: C8B150283 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	ND	2.5	mg/kg	SW846 6010B	03/03-03/04/08	KHXLJ1AL
		Dilution Factor: 1				
		Analysis Time..: 14:34				
Iron	**4.0 B**	**10.0**	**mg/kg**	**SW846 6010B**	**03/03-03/04/08**	**KHXLJ1AM**
		Dilution Factor: 1				
		Analysis Time..: 14:34				
Potassium	ND	500	mg/kg	SW846 6010B	03/03-03/04/08	KHXLJ1AN
		Dilution Factor: 1				
		Analysis Time..: 14:34				
Magnesium	ND	500	mg/kg	SW846 6010B	03/03-03/04/08	KHXLJ1AP
		Dilution Factor: 1				
		Analysis Time..: 14:34				
Manganese	ND	1.5	mg/kg	SW846 6010B	03/03-03/04/08	KHXLJ1AQ
		Dilution Factor: 1				
		Analysis Time..: 14:34				
Sodium	**104 B**	**500**	**mg/kg**	**SW846 6010B**	**03/03-03/04/08**	**KHXLJ1AR**
		Dilution Factor: 1				
		Analysis Time..: 14:34				
Nickel	ND	4.0	mg/kg	SW846 6010B	03/03-03/04/08	KHXLJ1AT
		Dilution Factor: 1				
		Analysis Time..: 14:34				
Lead	**0.28 B**	**0.30**	**mg/kg**	**SW846 6010B**	**03/03-03/04/08**	**KHXLJ1AU**
		Dilution Factor: 1				
		Analysis Time..: 14:34				
Selenium	ND	0.50	mg/kg	SW846 6010B	03/03-03/04/08	KHXLJ1AV
		Dilution Factor: 1				
		Analysis Time..: 14:34				
Thallium	ND	1.0	mg/kg	SW846 6010B	03/03-03/04/08	KHXLJ1AW
		Dilution Factor: 1				
		Analysis Time..: 14:34				
Antimony	ND	1.0	mg/kg	SW846 6010B	03/03-03/04/08	KHXLJ1AX
		Dilution Factor: 1				
		Analysis Time..: 14:34				
Vanadium	ND	5.0	mg/kg	SW846 6010B	03/03-03/04/08	KHXLJ1A0
		Dilution Factor: 1				
		Analysis Time..: 14:34				

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: C8B150283 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc	ND	2.0	mg/kg	SW846 6010B	03/03-03/04/08	KHXLJ1A1

Dilution Factor: 1
Analysis Time..: 14:34

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

GC/MS Volatiles

Client Lot #...: C8B150283 **Work Order #...:** KG8GT1AC **Matrix.....:** SOLID
LCS Lot-Sample#: C8B180000-063
Prep Date.....: 02/18/08 **Analysis Date..:** 02/18/08
Prep Batch #...: 8049063 **Analysis Time..:** 09:47
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Benzene	**95**	**(77 - 120)**	**SW846 8260B**
Chlorobenzene	**101**	**(79 - 120)**	**SW846 8260B**
1,1-Dichloroethene	**99**	**(59 - 129)**	**SW846 8260B**
Trichloroethene	**95**	**(76 - 119)**	**SW846 8260B**
Toluene	**103**	**(78 - 124)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	98	(52 - 124)
Toluene-d8	102	(72 - 127)
4-Bromofluorobenzene	86	(63 - 120)
Dibromofluoromethane	92	(68 - 121)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: C8B150283 **Work Order #...:** KHAF61AC **Matrix.....:** WATER
LCS Lot-Sample#: C8B190000-242
Prep Date.....: 02/19/08 **Analysis Date..:** 02/19/08
Prep Batch #...: 8050242 **Analysis Time..:** 08:57
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Benzene	**92**	**(80 - 120)**	**SW846 8260B**
Chlorobenzene	**90**	**(81 - 120)**	**SW846 8260B**
1,1-Dichloroethene	**76**	**(69 - 127)**	**SW846 8260B**
Trichloroethene	**90**	**(83 - 118)**	**SW846 8260B**
Toluene	**89**	**(79 - 122)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	88	(70 - 125)
Toluene-d8	89	(80 - 120)
4-Bromofluorobenzene	88	(75 - 120)
Dibromofluoromethane	94	(80 - 120)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: C8B150283 **Work Order #...:** KG9GK1AC **Matrix.....:** SOLID
LCS Lot-Sample#: C8B190000-010
Prep Date.....: 02/19/08 **Analysis Date..:** 02/19/08
Prep Batch #...: 8050010 **Analysis Time..:** 10:50
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Acenaphthene	**75**	**(38 - 112)**	**SW846 8270C**
1,2,4-Trichloro-benzene	**68**	**(37 - 111)**	**SW846 8270C**
1,4-Dichlorobenzene	**64**	**(36 - 107)**	**SW846 8270C**
4-Bromophenyl phenyl ether	**82**	**(46 - 120)**	**SW846 8270C**
Butyl benzyl phthalate	**72**	**(47 - 115)**	**SW846 8270C**
4-Chloro-3-methylphenol	**91**	**(39 - 111)**	**SW846 8270C**
2-Chlorophenol	**69**	**(38 - 109)**	**SW846 8270C**
2,4-Dinitrotoluene	**97**	**(35 - 117)**	**SW846 8270C**
Hexachloroethane	**69**	**(40 - 106)**	**SW846 8270C**
4-Methylphenol	**79**	**(41 - 117)**	**SW846 8270C**
Naphthalene	**70**	**(44 - 109)**	**SW846 8270C**
4-Nitrophenol	**85**	**(30 - 125)**	**SW846 8270C**
N-Nitrosodi-n-propyl-amine	**86**	**(36 - 114)**	**SW846 8270C**
Pentachlorophenol	**105**	**(21 - 127)**	**SW846 8270C**
Phenol	**68**	**(36 - 110)**	**SW846 8270C**
Pyrene	**71**	**(43 - 118)**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4,6-Tribromophenol	111	(10 - 117)
2-Fluorobiphenyl	76	(20 - 109)
2-Fluorophenol	61	(10 - 113)
Nitrobenzene-d5	74	(18 - 106)
Phenol-d5	72	(18 - 113)
Terphenyl-d14	90	(10 - 138)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: C8B150283 **Work Order #...:** KG8E21AC **Matrix.....:** SOLID
LCS Lot-Sample#: C8B180000-027
Prep Date.....: 02/18/08 **Analysis Date..:** 02/22/08
Prep Batch #...: 8049027 **Analysis Time..:** 01:58
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
gamma-BHC (Lindane)	**81**	**(66 - 124)**	**SW846 8081A**
Heptachlor	**75**	**(73 - 128)**	**SW846 8081A**
Aldrin	**78**	**(75 - 123)**	**SW846 8081A**
Dieldrin	**81**	**(76 - 123)**	**SW846 8081A**
Endrin	**83**	**(77 - 127)**	**SW846 8081A**
4,4'-DDT	**71**	**(61 - 126)**	**SW846 8081A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	90	(31 - 131)
Decachlorobiphenyl	81	(18 - 145)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: C8B150283 **Work Order #...:** KG8E31AC **Matrix.....:** SOLID
LCS Lot-Sample#: C8B180000-030
Prep Date.....: 02/18/08 **Analysis Date..:** 02/21/08
Prep Batch #...: 8049030 **Analysis Time..:** 23:43
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Aroclor 1016	**84**	**(55 - 117)**	**SW846 8082**
Aroclor 1260	**86**	**(54 - 117)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	98	(31 - 127)
Decachlorobiphenyl	77	(23 - 141)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: C8B150283 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: C8B180000-017 **Prep Batch #...:** 8049017					
Mercury	105	(80 - 120)	SW846 7471A	02/18/08	KG8EX1AC
		Dilution Factor: 1	Analysis Time..: 08:33		
LCS Lot-Sample#: C8C030000-282 **Prep Batch #...:** 8063282					
Silver	106	(80 - 120)	SW846 6010B	03/03-03/04/08	KHXLJ1A2
		Dilution Factor: 1	Analysis Time..: 14:51		
Aluminum	102	(80 - 120)	SW846 6010B	03/03-03/04/08	KHXLJ1A3
		Dilution Factor: 1	Analysis Time..: 14:51		
Arsenic	97	(80 - 120)	SW846 6010B	03/03-03/04/08	KHXLJ1A4
		Dilution Factor: 1	Analysis Time..: 14:51		
Barium	102	(80 - 120)	SW846 6010B	03/03-03/04/08	KHXLJ1A5
		Dilution Factor: 1	Analysis Time..: 14:51		
Beryllium	103	(80 - 120)	SW846 6010B	03/03-03/04/08	KHXLJ1A6
		Dilution Factor: 1	Analysis Time..: 14:51		
Calcium	102	(80 - 120)	SW846 6010B	03/03-03/04/08	KHXLJ1A7
		Dilution Factor: 1	Analysis Time..: 14:51		
Cadmium	100	(80 - 120)	SW846 6010B	03/03-03/04/08	KHXLJ1A8
		Dilution Factor: 1	Analysis Time..: 14:51		
Cobalt	99	(80 - 120)	SW846 6010B	03/03-03/04/08	KHXLJ1A9
		Dilution Factor: 1	Analysis Time..: 14:51		
Chromium	102	(80 - 120)	SW846 6010B	03/03-03/04/08	KHXLJ1CA
		Dilution Factor: 1	Analysis Time..: 14:51		
Copper	106	(80 - 120)	SW846 6010B	03/03-03/04/08	KHXLJ1CC
		Dilution Factor: 1	Analysis Time..: 14:51		
Iron	91	(80 - 120)	SW846 6010B	03/03-03/04/08	KHXLJ1CD
		Dilution Factor: 1	Analysis Time..: 14:51		
Potassium	96	(80 - 120)	SW846 6010B	03/03-03/04/08	KHXLJ1CE
		Dilution Factor: 1	Analysis Time..: 14:51		

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: C8B150283 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	98	(80 - 120)	SW846 6010B	03/03-03/04/08	KHXLJ1CF
		Dilution Factor: 1	Analysis Time..: 14:51		
Manganese	102	(80 - 120)	SW846 6010B	03/03-03/04/08	KHXLJ1CG
		Dilution Factor: 1	Analysis Time..: 14:51		
Sodium	97	(80 - 120)	SW846 6010B	03/03-03/04/08	KHXLJ1CH
		Dilution Factor: 1	Analysis Time..: 14:51		
Nickel	99	(80 - 120)	SW846 6010B	03/03-03/04/08	KHXLJ1CJ
		Dilution Factor: 1	Analysis Time..: 14:51		
Lead	100	(80 - 120)	SW846 6010B	03/03-03/04/08	KHXLJ1CK
		Dilution Factor: 1	Analysis Time..: 14:51		
Selenium	92	(80 - 120)	SW846 6010B	03/03-03/04/08	KHXLJ1CL
		Dilution Factor: 1	Analysis Time..: 14:51		
Thallium	98	(80 - 120)	SW846 6010B	03/03-03/04/08	KHXLJ1CM
		Dilution Factor: 1	Analysis Time..: 14:51		
Antimony	99	(80 - 120)	SW846 6010B	03/03-03/04/08	KHXLJ1CN
		Dilution Factor: 1	Analysis Time..: 14:51		
Vanadium	102	(80 - 120)	SW846 6010B	03/03-03/04/08	KHXLJ1CP
		Dilution Factor: 1	Analysis Time..: 14:51		
Zinc	102	(80 - 120)	SW846 6010B	03/03-03/04/08	KHXLJ1CQ
		Dilution Factor: 1	Analysis Time..: 14:51		

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...:	C8B150283	**Work Order #...:**	KG7E21AN-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	C8B150352-001		KG7E21AP-MSD		
Date Sampled...:	02/14/08	**Date Received..:**	02/15/08	**MS Run #.....:**	8049043
Prep Date.....:	02/18/08	**Analysis Date..:**	02/18/08		
Prep Batch #...:	8049063	**Analysis Time..:**	10:12		
Dilution Factor:	1	**% Moisture.....:**	0.27		

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	**94**	**(49 - 141)**			**SW846 8260B**
	93	**(49 - 141)**	**0.64**	**(0-38)**	**SW846 8260B**
Chlorobenzene	**101**	**(47 - 146)**			**SW846 8260B**
	101	**(47 - 146)**	**0.27**	**(0-32)**	**SW846 8260B**
1,1-Dichloroethene	**99**	**(46 - 143)**			**SW846 8260B**
	99	**(46 - 143)**	**0.75**	**(0-36)**	**SW846 8260B**
Trichloroethene	**94**	**(46 - 141)**			**SW846 8260B**
	94	**(46 - 141)**	**0.39**	**(0-35)**	**SW846 8260B**
Toluene	**102**	**(32 - 161)**			**SW846 8260B**
	101	**(32 - 161)**	**0.41**	**(0-54)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	89	(52 - 124)
	93	(52 - 124)
Toluene-d8	94	(72 - 127)
	99	(72 - 127)
4-Bromofluorobenzene	80	(63 - 120)
	82	(63 - 120)
Dibromofluoromethane	88	(68 - 121)
	92	(68 - 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/MS Volatiles

Client Lot #...: C8B150283 **Work Order #...:** KGTKC1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: C8B080270-002 KGTKC1AD-MSD
Date Sampled...: 02/06/08 **Date Received..:** 02/08/08 **MS Run #.....:** 8050129
Prep Date.....: 02/19/08 **Analysis Date..:** 02/19/08
Prep Batch #...: 8050242 **Analysis Time..:** 08:07
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	**90**	**(77 - 122)**			**SW846 8260B**
	94	**(77 - 122)**	**3.6**	**(0-19)**	**SW846 8260B**
Chlorobenzene	**90**	**(78 - 122)**			**SW846 8260B**
	91	**(78 - 122)**	**1.0**	**(0-19)**	**SW846 8260B**
1,1-Dichloroethene	**78**	**(66 - 131)**			**SW846 8260B**
	81	**(66 - 131)**	**4.4**	**(0-25)**	**SW846 8260B**
Trichloroethene	**89**	**(79 - 122)**			**SW846 8260B**
	92	**(79 - 122)**	**3.2**	**(0-21)**	**SW846 8260B**
Toluene	**84**	**(75 - 126)**			**SW846 8260B**
	85	**(75 - 126)**	**1.5**	**(0-23)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	88	(70 - 125)
	91	(70 - 125)
Toluene-d8	90	(80 - 120)
	90	(80 - 120)
4-Bromofluorobenzene	92	(75 - 120)
	93	(75 - 120)
Dibromofluoromethane	95	(80 - 120)
	97	(80 - 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 Semivolatiles

Client Lot #...: C8B150283 **Work Order #...:** KG8PF1CL-MS **Matrix.....:** SOLID
MS Lot-Sample #: C8B180115-001 KG8PF1CM-MSD
Date Sampled...: 02/14/08 **Date Received..:** 02/16/08 **MS Run #.....:** 8050002
Prep Date.....: 02/19/08 **Analysis Date..:** 02/19/08
Prep Batch #...: 8050010 **Analysis Time..:** 11:48
Dilution Factor: 1 **% Moisture.....:** 14

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acenaphthene	74	(15 - 130)			SW846 8270C
	66	(15 - 130)	11	(0-50)	SW846 8270C
1,2,4-Trichloro-benzene	68	(21 - 118)			SW846 8270C
	67	(21 - 118)	1.0	(0-49)	SW846 8270C
1,4-Dichlorobenzene	62	(20 - 105)			SW846 8270C
	61	(20 - 105)	1.7	(0-62)	SW846 8270C
4-Bromophenyl phenyl ether	82	(27 - 136)			SW846 8270C
	70	(27 - 136)	15	(0-48)	SW846 8270C
Butyl benzyl phthalate	74	(27 - 130)			SW846 8270C
	64	(27 - 130)	15	(0-48)	SW846 8270C
4-Chloro-3-methylphenol	93	(16 - 128)			SW846 8270C
	92	(16 - 128)	1.6	(0-52)	SW846 8270C
2-Chlorophenol	70	(16 - 120)			SW846 8270C
	69	(16 - 120)	1.9	(0-54)	SW846 8270C
2,4-Dinitrotoluene	95	(15 - 132)			SW846 8270C
	84	(15 - 132)	12	(0-49)	SW846 8270C
Hexachloroethane	65	(13 - 111)			SW846 8270C
	65	(13 - 111)	1.2	(0-63)	SW846 8270C
4-Methylphenol	79	(17 - 131)			SW846 8270C
	76	(17 - 131)	4.0	(0-50)	SW846 8270C
Naphthalene	67	(10 - 140)			SW846 8270C
	67	(10 - 140)	0.72	(0-56)	SW846 8270C
4-Nitrophenol	87	(10 - 154)			SW846 8270C
	78	(10 - 154)	11	(0-88)	SW846 8270C
N-Nitrosodi-n-propyl-amine	77	(30 - 118)			SW846 8270C
	74	(30 - 118)	3.5	(0-51)	SW846 8270C
Pentachlorophenol	90	(10 - 136)			SW846 8270C
	74	(10 - 136)	19	(0-123)	SW846 8270C
Phenol	69	(19 - 119)			SW846 8270C
	68	(19 - 119)	2.1	(0-50)	SW846 8270C
Pyrene	69	(10 - 168)			SW846 8270C
	58	(10 - 168)	17	(0-69)	SW846 8270C

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: C8B150283 **Work Order #...:** KG8PF1CL-MS **Matrix.....:** SOLID
MS Lot-Sample #: C8B180115-001 KG8PF1CM-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4,6-Tribromophenol	107	(10 - 117)
	88	(10 - 117)
2-Fluorobiphenyl	73	(20 - 109)
	63	(20 - 109)
2-Fluorophenol	67	(10 - 113)
	63	(10 - 113)
Nitrobenzene-d5	68	(18 - 106)
	65	(18 - 106)
Phenol-d5	74	(18 - 113)
	70	(18 - 113)
Terphenyl-d14	86	(10 - 138)
	69	(10 - 138)

NOTE(S):

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

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...:	C8B150283	**Work Order #...:**	KG6WF1A8-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	C8B150283-008		KG6WF1A9-MSD		
Date Sampled...:	02/14/08	**Date Received..:**	02/15/08	**MS Run #.....:**	8049007
Prep Date.....:	02/18/08	**Analysis Date..:**	02/22/08		
Prep Batch #...:	8049027	**Analysis Time..:**	07:26		
Dilution Factor:	10	**% Moisture.....:**	39		

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
gamma-BHC (Lindane)	**NC,DIL**	**(11 - 129)**			**SW846 8081A**
	NC,DIL	**(11 - 129)**		**(0-75)**	**SW846 8081A**
Heptachlor	**NC,DIL**	**(43 - 133)**			**SW846 8081A**
	NC,DIL	**(43 - 133)**		**(0-36)**	**SW846 8081A**
Aldrin	**NC,DIL**	**(40 - 135)**			**SW846 8081A**
	NC,DIL	**(40 - 135)**		**(0-37)**	**SW846 8081A**
Dieldrin	**NC,DIL**	**(34 - 138)**			**SW846 8081A**
	NC,DIL	**(34 - 138)**		**(0-39)**	**SW846 8081A**
Endrin	**NC,DIL**	**(37 - 141)**			**SW846 8081A**
	NC,DIL	**(37 - 141)**		**(0-43)**	**SW846 8081A**
4,4'-DDT	**NC,DIL**	**(10 - 155)**			**SW846 8081A**
	NC,DIL	**(10 - 155)**		**(0-71)**	**SW846 8081A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	NC,DIL	(31 - 131)
	NC,DIL	(31 - 131)
Decachlorobiphenyl	NC,DIL	(18 - 145)
	NC,DIL	(18 - 145)

NOTE(S):

Calculations are performed before rounding tc 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 EVALUATION REPORT

GC Semivolatiles

Client Lot #...:	C8B150283	**Work Order #...:**	KG6WF1CA-MS KG6WF1CC-MSD	**Matrix.....:**	SOLID
MS Lot-Sample #:	C8B150283-008				
Date Sampled...:	02/14/08	**Date Received..:**	02/15/08	**MS Run #.....:**	8049009
Prep Date.....:	02/18/08	**Analysis Date..:**	02/21/08		
Prep Batch #...:	8049030	**Analysis Time..:**	17:57		
Dilution Factor:	20	**% Moisture.....:**	39		

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Aroclor 1016	**NC,DIL**	**(10 - 183)**			**SW846 8082**
	NC,DIL	**(10 - 183)**		**(0-39)**	**SW846 8082**
Aroclor 1260	**NC,DIL**	**(25 - 143)**			**SW846 8082**
	NC,DIL	**(25 - 143)**		**(0-34)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	NC,DIL	(31 - 127)
	NC,DIL	(31 - 127)
Decachlorobiphenyl	NC,DIL	(23 - 141)
	NC,DIL	(23 - 141)

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 EVALUATION REPORT

TOTAL Metals

Client Lot #...: C8B150283 **Matrix.....:** SOLID
Date Sampled...: 02/14/08 **Date Received..:** 02/15/08

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: C8B150128-001 **Prep Batch #...:** 8049017							
						% Moisture.....: 17	
Mercury	103	(75 - 125)			SW846 7471A	02/18/08	KG5LJ1CF
	109	(75 - 125)	4.6	(0-20)	SW846 7471A	02/18/08	KG5LJ1CG

Dilution Factor: 1
Analysis Time..: 08:37
MS Run #.....: 8049004

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 #...: C8B150283 **Matrix.....:** SOLID
Date Sampled...: 02/14/08 **Date Received..:** 02/15/08

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: C8B150283-008 **Prep Batch #...:** 8063282							
						% Moisture.....: 39	
Silver	100	(75 - 125)			SW846 6010B	03/03-03/04/08	KG6WF1CD
	103	(75 - 125)	2.0	(0-20)	SW846 6010B	03/03-03/04/08	KG6WF1CE
		Dilution Factor: 1					
		Analysis Time..: 15:14					
		MS Run #.....: 8063181					
Aluminum	NC	(75 - 125)			SW846 6010B	03/03-03/04/08	KG6WF1CF
	NC	(75 - 125)		(0-20)	SW846 6010B	03/03-03/04/08	KG6WF1CG
		Dilution Factor: 5					
		Analysis Time..: 16:28					
		MS Run #.....: 8063181					
Arsenic	94	(75 - 125)			SW846 6010B	03/03-03/04/08	KG6WF1CH
	94	(75 - 125)	0.74	(0-20)	SW846 6010B	03/03-03/04/08	KG6WF1CJ
		Dilution Factor: 25					
		Analysis Time..: 16:34					
		MS Run #.....: 8063181					
Barium	88	(75 - 125)			SW846 6010B	03/03-03/04/08	KG6WF1CK
	96	(75 - 125)	5.7	(0-20)	SW846 6010B	03/03-03/04/08	KG6WF1CL
		Dilution Factor: 1					
		Analysis Time..: 15:14					
		MS Run #.....: 8063181					
Beryllium	91	(75 - 125)			SW846 6010B	03/03-03/04/08	KG6WF1CM
	98	(75 - 125)	6.9	(0-20)	SW846 6010B	03/03-03/04/08	KG6WF1CN
		Dilution Factor: 5					
		Analysis Time..: 16:28					
		MS Run #.....: 8063181					
Calcium	40 N	(75 - 125)			SW846 6010B	03/03-03/04/08	KG6WF1CP
	82	(75 - 125)	14	(0-20)	SW846 6010B	03/03-03/04/08	KG6WF1CQ
		Dilution Factor: 1					
		Analysis Time..: 15:14					
		MS Run #.....: 8063181					
Cadmium	89	(75 - 125)			SW846 6010B	03/03-03/04/08	KG6WF1CR
	96	(75 - 125)	4.3	(0-20)	SW846 6010B	03/03-03/04/08	KG6WF1CT
		Dilution Factor: 5					
		Analysis Time..: 16:28					
		MS Run #.....: 8063181					

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: C8B150283 **Matrix.....:** SOLID
Date Sampled...: 02/14/08 **Date Received..:** 02/15/08

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	NC	(75 - 125)			SW846 6010B	03/03-03/04/08	KG6WF1CU
	NC	(75 - 125)		(0-20)	SW846 6010B	03/03-03/04/08	KG6WF1CV
		Dilution Factor: 5					
		Analysis Time..: 16:28					
		MS Run #.....: 8063181					
Chromium	NC	(75 - 125)			SW846 6010B	03/03-03/04/08	KG6WF1CW
	NC	(75 - 125)		(0-20)	SW846 6010B	03/03-03/04/08	KG6WF1CX
		Dilution Factor: 25					
		Analysis Time..: 16:34					
		MS Run #.....: 8063181					
Copper	NC	(75 - 125)			SW846 6010B	03/03-03/04/08	KG6WF1C0
	NC	(75 - 125)		(0-20)	SW846 6010B	03/03-03/04/08	KG6WF1C1
		Dilution Factor: 5					
		Analysis Time..: 16:28					
		MS Run #.....: 8063181					
Iron	NC	(75 - 125)			SW846 6010B	03/03-03/04/08	KG6WF1C2
	NC	(75 - 125)		(0-20)	SW846 6010B	03/03-03/04/08	KG6WF1C3
		Dilution Factor: 5					
		Analysis Time..: 16:28					
		MS Run #.....: 8063181					
Potassium	91	(75 - 125)			SW846 6010B	03/03-03/04/08	KG6WF1C4
	99	(75 - 125)	6.1	(0-20)	SW846 6010B	03/03-03/04/08	KG6WF1C5
		Dilution Factor: 1					
		Analysis Time..: 15:14					
		MS Run #.....: 8063181					
Magnesium	79	(75 - 125)			SW846 6010B	03/03-03/04/08	KG6WF1C6
	89	(75 - 125)	7.9	(0-20)	SW846 6010B	03/03-03/04/08	KG6WF1C7
		Dilution Factor: 1					
		Analysis Time..: 15:14					
		MS Run #.....: 8063181					
Manganese	NC	(75 - 125)			SW846 6010B	03/03-03/04/08	KG6WF1C8
	NC	(75 - 125)		(0-20)	SW846 6010B	03/03-03/04/08	KG6WF1C9
		Dilution Factor: 5					
		Analysis Time..: 16:28					
		MS Run #.....: 8063181					

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: C8B150283 **Matrix.....:** SOLID
Date Sampled...: 02/14/08 **Date Received..:** 02/15/08

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Sodium	78	(75 - 125)			SW846 6010B	03/03-03/04/08	KG6WF1DA
	103	(75 - 125)	8.5	(0-20)	SW846 6010B	03/03-03/04/08	KG6WF1DC
		Dilution Factor: 5					
		Analysis Time..: 16:28					
		MS Run #.....: 8063181					
Nickel	NC	(75 - 125)			SW846 6010B	03/03-03/04/08	KG6WF1DD
	NC	(75 - 125)		(0-20)	SW846 6010B	03/03-03/04/08	KG6WF1DE
		Dilution Factor: 5					
		Analysis Time..: 16:28					
		MS Run #.....: 8063181					
Lead	NC	(75 - 125)			SW846 6010B	03/03-03/04/08	KG6WF1DF
	NC	(75 - 125)		(0-20)	SW846 6010B	03/03-03/04/08	KG6WF1DG
		Dilution Factor: 100					
		Analysis Time..: 16:56					
		MS Run #.....: 8063181					
Selenium	86	(75 - 125)			SW846 6010B	03/03-03/04/08	KG6WF1DH
	90	(75 - 125)	3.8	(0-20)	SW846 6010B	03/03-03/04/08	KG6WF1DJ
		Dilution Factor: 5					
		Analysis Time..: 16:28					
		MS Run #.....: 8063181					
Thallium	90	(75 - 125)			SW846 6010B	03/03-03/04/08	KG6WF1DK
	93	(75 - 125)	2.8	(0-20)	SW846 6010B	03/03-03/04/08	KG6WF1DL
		Dilution Factor: 5					
		Analysis Time..: 16:28					
		MS Run #.....: 8063181					
Antimony	33 N	(75 - 125)			SW846 6010B	03/03-03/04/08	KG6WF1DM
	98 *	(75 - 125)	63	(0-20)	SW846 6010B	03/03-03/04/08	KG6WF1DN
		Dilution Factor: 25					
		Analysis Time..: 16:34					
		MS Run #.....: 8063181					
Vanadium	NC	(75 - 125)			SW846 6010B	03/03-03/04/08	KG6WF1DP
	NC	(75 - 125)		(0-20)	SW846 6010B	03/03-03/04/08	KG6WF1DQ
		Dilution Factor: 5					
		Analysis Time..: 16:28					
		MS Run #.....: 8063181					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: C8B150283 **Matrix.....:** SOLID
Date Sampled...: 02/14/08 **Date Received..:** 02/15/08

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc	NC	(75 - 125)			SW846 6010B	03/03-03/04/08	KG6WF1DR
	NC	(75 - 125)		(0-20)	SW846 6010B	03/03-03/04/08	KG6WF1DT

Dilution Factor: 5
Analysis Time..: 16:28
MS Run #.....: 8063181

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.

NC The recovery and/or RPD were not calculated.

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

N Spiked analyte recovery is outside stated control limits.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: C8B150283 **Work Order #...:** KG6V4-SMP KG6V4-DUP **Matrix.....:** SOLID

Date Sampled...: 02/14/08 **Date Received..:** 02/15/08

% Moisture.....: 42

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #:	C8B150283-001	
	58.4	58.6	%	0.25	(0-20)	SM20 2540G	02/18-02/19/08	8049211

Dilution Factor: 1 Analysis Time..: 05:30 MS Run Number..: 8049113

Appendix D
USEPA's Drum Sampling SOP#209

DRUM SAMPLING

SOP#: 2009
DATE: 11/16/94
REV. #: 0.0

1.0 SCOPE AND APPLICATION

The purpose of this standard operating procedure (SOP) is to provide technical guidance on implementing safe and cost-effective response actions at hazardous waste sites containing drums with unknown contents. Container contents are sampled and characterized for disposal, bulking, recycling, segregation, and classification purposes.

These are standard (i.e., typically applicable) operating procedures which may be varied or changed as required, dependent on site conditions, equipment limitations or limitations imposed by the procedure. In all instances, the ultimate procedures employed should be documented and associated with the final report.

Mention of trade names or commercial products does not constitute U.S. Environmental Protection Agency (U.S. EPA) endorsement or recommendation for use.

2.0 METHOD SUMMARY

Prior to sampling, drums must be excavated, (if necessary), inspected, staged, and opened. Drum excavation must be performed by qualified personnel. Inspection involves the observation and recording of visual qualities of each drum and any characteristics pertinent to the classification of the drum's contents. Staging involves the physical grouping of drums according to classifications established during the physical inspection. Opening of closed drums can be performed manually or remotely. Remote drum opening is recommended for worker safety. The most widely used method of sampling a drum involves the use of a glass thief. This method is quick, simple, relatively inexpensive, and requires no decontamination. The contents of a drum can be further characterized by performing various field tests.

3.0 SAMPLE PRESERVATION, CONTAINERS, HANDLING, AND STORAGE

Samples collected from drums are considered waste samples and as such, adding preservatives is not required due to the potential reaction of the sample with the preservative. Samples should, however, be cooled to 4ºC and protected from sunlight in order to minimize any potential reaction due to the light sensitivity of the sample.

Sample bottles for collection of waste liquids, sludges, or solids are typically wide mouth amber jars with Teflon-lined screw caps. Actual volume required for analysis should be determined in conjunction with the laboratory performing the analysis.

Waste sample handling procedures should be as follows:

1. Label the sample container with the appropriate sample label and complete the appropriate field data sheet(s). Place sample container into two resealable plastic bags.

2. Place each bagged sample container into a shipping container which has been lined with plastic. Pack the container with enough non-combustible, absorbent, cushioning material to minimize the possibility of containers breaking, and to absorb any material which may leak.

   Note: Depending on the nature and quantity of the material to be shipped, different packaging may be required. The transportation company or a shipping/receiving expert should be consulted prior to packing the samples.

3. Complete a chain of custody record for each shipping container, place into a resealable

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plastic bag, and affix to the inside lid of the shipping container.

4. Secure and custody seal the lid of the shipping container. Label the shipping container appropriately and arrange for the appropriate transportation mode consistent with the type of hazardous waste involved.

4.0 INTERFERENCES AND POTENTIAL PROBLEMS

If buried drums are suspected, geophysical investigation techniques such as magnetometry or ground penetrating radar may be employed in an attempt to determine the location and depth of drums. During excavation, the soil must be removed with great caution to minimize the potential for drum rupture.

Until the contents are characterized, sampling personnel should assume that unlabelled drums contain hazardous materials. Labelled drums are frequently mislabelled, especially drums that are reused. Because a drum's label may not accurately describe its contents, extreme caution must be exercised when working with or around drums.

If a drum which contains a liquid cannot be moved without rupture, its contents may be immediately transferred to a sound drum using an appropriate method of transfer based on the type of waste. In any case, preparations should be made to contain the spill (i.e., spill pads, dike, etc.) should one occur.

If a drum is leaking, open, or deteriorated, then it must be placed immediately in overpack containers.

The practice of tapping drums to determine their contents is neither safe nor effective and should not be used if the drums are visually overpressurized or if shock-sensitive materials are suspected. A laser thermometer may be effective in order to determine the level of the drum contents via surface temperature differences.

Drums that have been overpressurized to the extent that the head is swollen several inches above the level of the chime should not be moved. A number of devices have been developed for venting critically swollen drums. One method that has proven to be effective is a tube and spear device. A light aluminum tube (3 meters long) is positioned at the vapor space of the drum. A rigid, hooking device attached to the tube, goes over the chime and holds the tube securely in place. The spear is inserted in the tube and positioned against the drum wall. A sharp blow on the end of the spear drives the sharpened tip through the drum and the gas vents along the grooves. Venting should be done from behind a wall or barricade. Once the pressure has been relieved, the bung can be removed and the drum sampled.

Because there is potential for accidents to occur during handling, particularly initial handling, drums should only be handled if necessary. All personnel should be warned of the hazards prior to handling drums. Overpack drums and an adequate volume of absorbent material should be kept near areas where minor spills may occur. Where major spills may occur, a containment berm adequate to contain the entire volume of liquid in the drums should be constructed before any handling takes place. If drum contents spill, personnel trained in spill response should be used to isolate and contain the spill.

5.0 EQUIPMENT/APPARATUS

The following are standard materials and equipment required for sampling:

- Personal protection equipment
- Wide-mouth amber glass jars with Teflon cap liner, approximately 500 mL volume
- Other appropriate sample jars
- Uniquely numbered sample identification labels with corresponding data sheets
- Drum/Tank Sampling Data Sheets and Field Test Data Sheets for Drum/Tank Sampling
- Chain of Custody records
- Decontamination materials
- Glass thieving tubes or COLIWASA
- Coring device
- Stainless steel spatula or spoons
- Laser thermometer
- Drum overpacks
- Absorbent material for spills
- Drum opening devices

Bung Wrench

A common method for opening drums manually is using a universal bung wrench. These wrenches have fittings made to

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remove nearly all commonly encountered bungs. They are usually constructed of a non-sparking metal alloy (i.e., brass, bronze/manganese, aluminum, etc.) formulated to reduce the likelihood of sparks. The use of a "NON-SPARKING" wrench does not completely eliminate the possibility of a spark being produced.

Drum Deheader

One means by which a drum can be opened manually when a bung is not removable with a bung wrench is by using a drum deheader. This tool is constructed of forged steel with an alloy steel blade and is designed to cut the lid of a drum off or part way off by means of a scissors-like cutting action. A limitation of this device is that it can be attached only to closed head drums. Drums with removable heads must be opened by other means.

Hand Pick, Pickaxe, and Hand Spike

These tools are usually constructed of brass or a non-sparking alloy with a sharpened point that can penetrate the drum lid or head when the tool is swung. The hand picks or pickaxes that are most commonly used are commercially available; whereas, the spikes are generally uniquely fabricated four foot long poles with a pointed end.

Backhoe Spike

Another means used to open drums remotely for sampling is a metal spike attached or welded to a backhoe bucket. This method is very efficient and is often used in large-scale operations.

Hydraulic Drum Opener

Recently, remotely operated hydraulic devices have been fabricated to open drums. This device uses hydraulic pressure to force a non-sparking spike through the wall of a drum. It consists of a manually operated pump which pressurizes fluid through a length of hydraulic line.

Pneumatic Devices

A pneumatic bung remover consists of a compressed air supply that is controlled by a two-stage regulator. A high pressure air line of desired length delivers compressed air to a pneumatic drill, which is adapted to turn bung fitting selected to fit the bung to be removed. An adjustable bracketing system has been designed to position and align the pneumatic drill over the bung. This bracketing system must be attached to the drum before the drill can be operated. Once the bung has been loosened, the bracketing system must be removed before the drum can be sampled. This remote bung opener does not permit the slow venting of the container, and therefore appropriate precautions must be taken. It also requires the container to be upright and relatively level. Bungs that are rusted shut cannot be removed with this device.

6.0 REAGENTS

Reagents are not typically required for preserving drum samples. However, reagents will be utilized for decontamination of sampling equipment.

7.0 PROCEDURES

7.1 Preparation

1. Determine the extent of the sampling effort, the sampling methods to be employed, and the types and amounts of equipment and supplies needed.

2. Obtain necessary sampling and monitoring equipment.

3. Decontaminate or preclean equipment, and ensure that it is in working order.

4. Prepare scheduling and coordinate with staff, clients, and regulatory agency, if appropriate.

5. Perform a general site survey prior to site entry in accordance with the site specific Health and Safety Plan.

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6. Use stakes, flagging, or buoys to identify and mark all sampling locations. If required the proposed locations may be adjusted based on site access, property boundaries, and surface obstructions.

7.2 Drum Excavation

If it is presumed that buried drums are on-site and prior to beginning excavation activities, geophysical investigation techniques should be utilized to approximate the location and depth of the drums. In addition, it is important to ensure that all locations where excavation will occur are clear of utility lines, pipes and poles (subsurface as well as above surface).

Excavating, removing, and handling drums are generally accomplished with conventional heavy construction equipment. These activities should be performed by an equipment operator who has experience in drum excavation. During excavation activities, drums must be approached in a manner that will avoid digging directly into them.

The soil around the drum should be excavated with non-sparking hand tools or other appropriate means and as the drums are exposed, a visual inspection should be made to determine the condition of the drums. Ambient air monitoring should be done to determine the presence of unsafe levels of volatile organics, explosives, or radioactive materials. Based on this preliminary visual inspection, the appropriate mode of drum excavation and handling may be determined.

Drum identification and inventory should begin before excavation. Information such as location, date of removal, drum identification number, overpack status, and any other identification marks should be recorded on the Drum/Tank Sampling Data Sheet (Attachment 1, Appendix A).

7.3 Drum Inspection

Appropriate procedures for handling drums depend on the contents. Thus, prior to any handling, drums should be visually inspected to gain as much information as possible about their contents. The drums should be inspected for the following:

1. Drum condition, corrosion, rust, punctures, bungs, and leaking contents.

2. Symbols, words, or other markings on the drum indicating hazards (i.e., explosive, radioactive, toxic, flammable), or further identifying the drums.

3. Signs that the drum is under pressure.

4. Shock sensitivity.

Monitoring should be conducted around the drums using instruments such as radiation meters, organic vapor analyzers (OVA) and combustible gas indicators (CGI).

Survey results can be used to classify the drums into categories, for instance:

- Radioactive
- Leaking/deteriorating
- Bulging
- Lab packs
- Explosive/shock sensitive
- Empty

All personnel should assume that unmarked drums contain hazardous materials until their contents have been categorized. Once a drum has been visually inspected and any immediate hazard has been eliminated by overpacking or transferring the drum's contents, the drum is affixed with a numbered tag and transferred to a staging area. Color-coded tags, labels or bands should be used to identify the drum's category based on visual inspection. A description of each drum, its condition, any unusual markings, the location where it was buried or stored, and field monitoring information are recorded on a Drum/Tank Sampling Data Sheet (Attachment 1, Appendix A). This data sheet becomes the principal record keeping tool for tracking the drum on-site.

7.4 Drum Staging

Prior to sampling, the drums should be staged to allow easy access. Ideally, the staging area should be located just far enough from the drum opening area to prevent a chain reaction if one drum should explode or catch fire when opened.

During staging, the drums should be physically separated into the following categories: those containing liquids, those containing solids, those containing lab packs, and those which are empty.

This is done because the strategy for sampling and handling drums/containers in each of these categories will be different. This may be achieved by visual inspection of the drum and its labels, codes, etc. Solids and sludges are typically disposed of in open top drums. Closed head drums with a bung opening generally contain liquid.

Where there is good reason to suspect that drums contain radioactive, explosive, or shock-sensitive materials, these drums should be staged in a separate, isolated area. Placement of explosives and shock-sensitive materials in diked and fenced areas will minimize the hazard and the adverse effects of any premature detonation of explosives.

Where space allows, the drum opening area should be physically separated from the drum removal and drum staging operations. Drums are moved from the staging area to the drum opening area one at a time using forklift trucks equipped with drum grabbers or a barrel grappler. In a large-scale drum handling operation, drums may be conveyed to the drum opening area using a roller conveyor. Drums may be restaged as necessary after opening and sampling.

7.5 Drum Opening

There are three basic techniques available for opening drums at hazardous waste sites:

- Manual opening with non-sparking bung wrenches
- Drum deheading
- Remote drum puncturing or bung removal

The choice of drum opening techniques and accessories depends on the number of drums to be opened, their waste contents, and physical condition. Remote drum opening equipment should always be considered in order to protect worker safety. Under OSHA 1910.120, manual drum opening with bung wrenches or deheaders should be performed ONLY with structurally sound drums and waste contents that are known to be non-shock sensitive, non-reactive, non-explosive, and non-flammable.

7.5.1 Manual Drum Opening with a Bung Wrench

Manual drum opening with bung wrenches (Figure 1, Appendix B) should not be performed unless the drums are structurally sound (no evidence of bulging or deformation) and their contents are known to be non-shock sensitive, non-reactive, non-explosive or non-flammable. If opening the drum with bung wrenches is deemed safe, then certain procedures should be implemented to minimize the hazard:

- Field personnel should be fully outfitted with protective gear.
- Drums should be positioned upright with the bung up, or, for drums with bungs on the side, laid on their sides with the bung plugs up.
- The wrenching motion should be a slow, steady pull across the drum. If the length of the bung wrench handle provides inadequate leverage for unscrewing the plug, a "cheater bar" can be attached to the handle to improve leverage.

7.5.2 Manual Drum Opening with a Drum Deheader

Drums are opened with a drum deheader (Figure 2, Appendix B) by first positioning the cutting edge just inside the top chime and then tightening the adjustment screw so that the deheader is held against the side of the drum. Moving the handle of the deheader up and down while sliding the deheader along the chime will enable the entire top to be rapidly cut off if so desired. If the top chime of a drum has been damaged or badly dented it may not be possible to cut the entire top off. Since there is always the possibility that a drum may be under pressure, the initial cut should be made very slowly to allow for the gradual release of any built-up pressure. A safer technique would be to employ a remote method prior to using the deheader.

Self-propelled drum openers which are either electrically or pneumatically driven are available and can be used for quicker and more efficient deheading.

The drum deheader should be decontaminated, as necessary, after each drum is opened to avoid cross contamination and/or adverse chemical reactions from incompatible materials.

7.5.3 Manual Drum Opening with a Hand Pick, Pickaxe, or Spike

When a drum must be opened and neither a bung

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wrench nor a drum deheader is suitable, then it can be opened for sampling by using a hand pick, pickaxe, or spike (Figure 3, Appendix B). Often the drum lid or head must be hit with a great deal of force in order to penetrate it. Because of this, the potential for splash or spraying is greater than with other opening methods and therefore, this method of drum opening is not recommended, particularly when opening drums containing liquids. Some spikes used have been modified by the addition of a circular splash plate near the penetrating end. This plate acts as a shield and reduces the amount of splash in the direction of the person using the spike. Even with this shield, good splash gear is essential.

Since drums, some of which may be under pressure, cannot be opened slowly with these tools, spray from drums is common and appropriate safety measures must be taken. The pick or spike should be decontaminated after each drum is opened to avoid cross contamination and/or adverse chemical reaction from incompatible materials.

7.5.4 Remote Drum Opening with a Backhoe Spike

Remotely operated drum opening tools are the safest available means of drum opening. Remote drum opening is slow, but provides a high degree of safety compared to manual methods of opening.

In the opening area, drums should be placed in rows with adequate aisle space to allow ease in backhoe maneuvering. Once staged, the drums can be quickly opened by punching a hole in the drum head or lid with the spike.

The spike (Figure 4, Appendix B) should be decontaminated after each drum is opened to prevent cross contamination and/or adverse reaction from incompatible material. Even though some splash or spray may occur when this method is used, the operator of the backhoe can be protected by mounting a large shatter-resistant shield in front of the operator's cage. This combined with the normal personal protection gear should be sufficient to protect the operator. Additional respiratory protection can be afforded by providing the operator with an on-board airline system.

7.5.5 Remote Drum Opening with Hydraulic Devices

A piercing device with a non-sparking, metal point is attached to the end of a hydraulic line and is pushed into the drum by the hydraulic pressure (Figure 5, Appendix B). The piercing device can be attached so that a hole for sampling can be made in either the side or the head of the drum. Some of the metal piercers are hollow or tube-like so that they can be left in place if desired and serve as a permanent tap or sampling port. The piercer is designed to establish a tight seal after penetrating the container.

7.5.6 Remote Drum Opening with Pneumatic Devices

Pneumatically-operated devices utilizing compressed air have been designed to remove drum bungs remotely (Figure 6, Appendix B). Prior to opening the drum, a bung fitting must be selected to fit the bung to be removed. The adjustable bracketing system is then attached to the drum and the pneumatic drill is aligned over the bung. This must be done before the drill can be operated. The operator then moves away from the drum to operate the equipment. Once the bung has been loosened, the bracketing system must be removed before the drum can be sampled. This remote bung opener does not permit the slow venting of the container, and therefore appropriate precautions must be taken. It also requires the container to be upright and relatively level. Bungs that are rusted shut cannot be removed with this device.

7.6 Drum Sampling

After the drum has been opened, preliminary monitoring of headspace gases should be performed first with an explosimeter/oxygen meter. Afterwards, an OVA or other instruments should be used. If possible, these instruments should be intrinsically safe. In most cases it is impossible to observe the contents of these sealed or partially sealed drums. Since some layering or stratification is likely in any solution left undisturbed, a sample that represents the entire depth of the drum must be taken.

When sampling a previously sealed drum, a check should be made for the presence of a bottom sludge. This is easily accomplished by measuring the depth to apparent bottom then comparing it to the known interior depth.

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7.6.1 Glass Thief Sampler

The most widely used implement for sampling drum liquids is a glass tube commonly referred to as a glass thief (Figure 7, Appendix B). This tool is cost effective, quick, and disposable. Glass thieves are typically 6mm to 16mm I.D. and 48 inches long.

Procedures for Use:

1. Remove the cover from the sample container.

2. Insert glass tubing almost to the bottom of the drum or until a solid layer is encountered. About one foot of tubing should extend above the drum.

3. Allow the waste in the drum to reach its natural level in the tube.

4. Cap the top of the sampling tube with a tapered stopper or thumb, ensuring liquid does not come into contact with stopper.

5. Carefully remove the capped tube from the drum and insert the uncapped end into the appropriate sample container.

6. Release stopper and allow the glass thief to drain until the container is approximately two-thirds full.

7. Remove tube from the sample container, break it into pieces and place the pieces in the drum.

8. Cap the sample container tightly and label it. Place the sample container into a carrier.

9. Replace the bung or place plastic over the drum.

10. Log all samples in the site logbook and on Drum/Tank Sampling Data Sheets.

11. Perform hazard categorization analyses if included in the project scope.

12. Transport the sample to the decontamination zone and package it for transport to the analytical laboratory, as necessary. Complete chain of custody records.

In many instances a drum containing waste material will have a sludge layer on the bottom. Slow insertion of the sample tube into this layer; then a gradual withdrawal will allow the sludge to act as a bottom plug to maintain the fluid in the tube. The plug can be gently removed and placed into the sample container by the use of a stainless steel lab spoon.

It should be noted that in some instances disposal of the tube by breaking it into the drum may interfere with eventual plans for the removal of its contents. The use of this technique should be cleared with the project officer or other glass thief disposal techniques should be evaluated.

7.6.2 COLIWASA Sampler

The Composite Liquid Waste Sampler (COLIWASA) and modifications thereof are equipment that collect a sample from the full depth of a drum and maintain it in the transfer tube until delivery to the sample bottle. The COLIWASA (Figure 8, Appendix B) is a much cited sampler designed to permit representative sampling of multiphase wastes from drums and other containerized wastes. One configuration consists of a 152 cm by 4 cm I.D. section of tubing with a neoprene stopper at one end attached by a rod running the length of the tube to a locking mechanism at the other end.

Manipulation of the locking mechanism opens and closes the sampler by raising and lowering the neoprene stopper. One model of the COLIWASA is shown in Appendix B; however, the design can be modified and/or adapted somewhat to meet the needs of the sampler.

The major drawbacks associated with using a COLIWASA concern decontamination and costs. The sampler is difficult to decontaminate in the field and its high cost in relation to alternative procedures (glass tubes) make it an impractical throwaway item. It still has applications, however, especially in instances where a true representation of a multiphase waste is absolutely necessary.

Procedures for Use

1. Put the sampler in the open position by placing the stopper rod handle in the T-position and pushing the rod down until the handle sits against the sampler's locking block.

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2. Slowly lower the sampler into the liquid waste. Lower the sampler at a rate that permits the levels of the liquid inside and outside the sampler tube to be about the same. If the level of the liquid in the sample tube is lower than that outside the sampler, the sampling rate is too fast and will result in a non-representative sample.

3. When the sampler stopper hits the bottom of the waste container, push the sampler tube downward against the stopper to close the sampler. Lock the sampler in the closed position by turning the T-handle until it is upright and one end rests tightly on the locking block.

4. Slowly withdraw the sample from the waste container with one hand while wiping the sampler tube with a disposable cloth or rag with the other hand.

5. Carefully discharge the sample into the appropriate sample container by slowly pulling the lower end of the T-handle away from the locking block while the lower end of the sampler is positioned in a sample container.

6. Cap the sample container tightly and label it. Place the sample container in a carrier.

7. Replace the bung or place plastic over the drum.

8. Log all samples in the site logbook and on Drum/Tank Sampling Data Sheets.

9. Perform hazard categorization analyses if included in the project scope.

10. Transport the sample to the decontamination zone and package for transport to the analytical laboratory, as necessary. Complete the Chain of Custody records.

7.6.3 Coring Device

A coring device may be used to sample drum solids. Samples should be taken from different areas within the drum. This sampler consists of a series of extensions, a T- handle, and the coring device.

Procedures for use:

1. Assemble the sampling equipment.

2. Remove the cover from the sample container.

3. Insert the sampling device to the bottom of the drum. The extensions and the "T" handle should extend above the drum.

4. Rotate the sampling device to cut a core of material.

5. Slowly withdraw the sampling device so that as much sample material as possible is retained within it.

6. Transfer the sample to the appropriate sample container, and label it. A stainless steel spoon or scoop may be used as necessary.

7. Cap the sample container tightly and place it in a carrier.

8. Replace the bung or place plastic over the drum.

9. Log all samples in the site log book and on Drum/Tank Sampling Data Sheets.

10. Perform hazard categorization analyses if included in the project scope.

11. Transport the sample to the decontamination zone and package it for transport to the analytical laboratory, as necessary. Complete chain of custody records.

7.7 Hazard Categorization

The goal of characterizing or categorizing the contents of drums is to obtain a quick, preliminary assessment of the types and levels of pollutants contained in the drums. These activities generally involve rapid, non-rigorous methods of analysis. The data obtained from these methods can be used to make decisions regarding drum staging or restaging, bulking or compositing of the drum contents.

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As a first step in obtaining these data, standard tests should be used to classify the drum contents into general categories such as auto-reactives, water reactives, inorganic acids, organic acids, heavy metals, pesticides, cyanides, inorganic oxidizers, and organic oxidizers. In some cases, further analyses should be conducted to more precisely identify the drum contents.

There are several methods available to perform these tests:

- the HazCat[R] chemical identification system
- the Chlor-N-Oil Test Kit
- Spill-fyter Chemical Classifier Strips
- Setaflash (for ignitability)

These methods must be performed according to the manufacturers' instructions and the results must be documented on the Field Test Data Sheet for Drum/Tank Sampling (Attachment 2, Appendix A).

Other tests which may be performed include:

- Water Reactivity
- Specific Gravity Test (compared to water)
- Water Solubility Test
- pH of Aqueous Solution

The tests must be performed in accordance with the instructions on the Field Test Data Sheet for Drum/Tank Sampling and results of the tests must be documented on these data sheets.

The specific methods that will be used for hazard categorization must be documented in the Quality Assurance Work Plan.

8.0 CALCULATIONS

This section is not applicable to this SOP.

9.0 QUALITY ASSURANCE/ QUALITY CONTROL

The following general quality assurance procedures apply:

1. All data must be documented on Chain of Custody records, Drum/Tank Sampling Data Sheets, Field Test Data Sheet for Drum/Tank Sampling, or within site logbooks.

2. All instrumentation must be operated in accordance with operating instructions as supplied by the manufacturer, unless otherwise specified in the work plan. Equipment checkout and calibration activities must occur prior to sampling/operation, and they must be documented.

10.0 DATA VALIDATION

This section is not applicable to this SOP.

11.0 HEALTH AND SAFETY

When working with potentially hazardous materials, follow U.S. EPA, OSHA, and corporate health and safety procedures.

More specifically, the opening of closed containers is one of the most hazardous site activities. Maximum efforts should be made to ensure the safety of the sampling team. Proper protective equipment and a general awareness of the possible dangers will minimize the risk inherent to sampling operations. Employing proper drum opening techniques and equipment will also safeguard personnel. The use of remote sampling equipment whenever feasible is highly recommended.

12.0 REFERENCES

Guidance Document for Cleanup of Surface Tank and Drum Sites, OSWER Directive 9380.0-3.

Drum Handling Practices at Hazardous Waste Sites, EPA-600/2-86-013.

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APPENDIX A

Attachments

ATTACHMENT 1. Drum/Tank Sampling Data Sheet

Samplers: _____ Date: _____

Site Name: _____ Work Order Number: 3347-040-001-_____

Container Number/Sample Number: _____ REAC Task Leader: _____

SITE INFORMATION:

1. Terrain, drainage description:_____

2. Weather conditions (from observation):_____

MET station on site: No Yes

CONTAINER INFORMATION:

1. Container type: Drum Tank Other:_____

2. Container dimensions: Shape:_____

Approximate size:_____

3. Label present: No
Yes:_____

Other Markings: _____
_____
_____
_____

4. Spill or leak present: No Yes Dimensions:_____

5. Container location: (Circle one) N/A See Map Other: _____
_____
_____
_____
_____
_____

APPENDIX A (Cont'd)

Attachments

ATTACHMENT 1. Drum/Tank Sampling Data Sheet (cont'd)

SAMPLE INFORMATION:

1. Description: _____ liquid _____ solid (_____ powder or _____ crystals) _____ sludge

2. Color: _____ Vapors:_____
   Other:_____

3. Local effects present: (damage - environmental, material)_____

FIELD MONITORING:

1. PID: _____ Background (clean zone)

   _____ Probe used/Model used

   _____ Reading from container opening

2. FID: _____ Background (clean zone)

   _____ Reading from container opening

3. Radiation Meter:

   _____ Model used

   _____ Background (clean zone)

   _____ Reading from container opening

4. Explosimeter/Oxygen Meter:

   _____ Oxygen level from container opening

   _____ LEL level from container opening

APPENDIX A (Cont'd)

Attachments

ATTACHMENT 2. Field Test Data Sheet for Drum/Tank Sampling

Samplers: _____ Date: _____

Site Name: _____ Work Order Number: 3347-040-001-_____

Container Number/Sample Number: _____ REAC Task Leader: _____

SAMPLE MONITORING INFORMATION:

1. PID: _____ Background (clean zone)

_____ Probe used/Model used

_____ Reading from sample

2. FID: _____ Background (clean zone)

_____ Reading from sample

3. Radiation Meter: _____ Model used

_____ Background (clean zone)

_____ Reading from sample

4. Explosimeter/Oxygen Meter: _____ Oxygen level (sample)

_____ LEL level (sample)

SAMPLE DESCRIPTION:

_____ Liquid _____ Solid _____ Sludge _____ Color _____ Vapors

WATER REACTIVITY:

1. Add small amount of sample to water: _____ bubbles _____ color change to _____

_____ vapor formation _____ heat _____ No Change

SPECIFIC GRAVITY TEST (compared to water):

1. Add small amount of sample to water: _____ sinks _____ floats

2. If liquid sample sinks, screen for chlorinated compounds. If liquid sample floats and appears to be oily, screen for PCBs (Chlor-N-Oil kit).

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APPENDIX A (Cont'd)

Attachments

ATTACHMENT 2. Field Test Data Sheet for Drum/Tank Sampling (cont'd)

CHLOR N OIL TEST KIT INFORMATION:

1. Test kit used for this sample: Yes No

2. Results: _____ PCB not present _____ PCB present, less than 50 ppm

_____ PCB present, greater than 50 ppm _____ 100% PCB present

WATER SOLUBILITY TEST:

1. Add approximately one part sample to five parts water. You may need to stir and heat gently. **[DO NOT HEAT IF WATER REACTIVE!]** Results: _____ total _____ partial _____ no solubility

pH OF AQUEOUS SOLUTION:

1. Using 0-14 pH paper, check pH of water/sample solution: _____.

SPILL-FYTER CHEMICAL CLASSIFIER STRIPS:

1. Acid/Base Risk: (Circle one)	Color Change
Strong acid (0)	RED
Moderately acidic (1-3)	ORANGE
Weak acid (5)	YELLOW
Neutral (7)	GREEN
Moderately basic (9-11)	Dark GREEN
Strong Base (13-14)	Dark BLUE

2. Oxidizer Risk: (Circle one)	
Not Present	WHITE
Present	BLUE, RED, OR ANY DIVERGENCE FROM WHITE

3. Fluoride Risk: (Circle one)	
Not Present	PINK
Present	YELLOW

APPENDIX A (Cont'd)

Attachments

ATTACHMENT 2. Field Test Data Sheet for Drum/Tank Sampling (cont'd)

4. Petroleum Product, Organic Solvent Risk: (Circle one)

Not Present	LIGHT BLUE
Present	DARK BLUE

5. Iodine, Bromine, Chlorine Risk: (Circle one)

Not Present	PEACH
Present	WHITE OR YELLOW

SETAFLASH IGNITABILITY TEST:

140°F	Ignitable: _____	Non-Ignitable _____
160°F	Ignitable: _____	Non-Ignitable _____
_____	Ignitable: _____	Non-Ignitable _____
_____	Ignitable: _____	Non-Ignitable _____
_____	Ignitable: _____	Non-Ignitable _____
_____	Ignitable: _____	Non-Ignitable _____

Comments:
_____
_____
_____
_____
_____
_____

HAZCAT KIT TESTS:

1. Test: _____ Outcome:_____

Comments:_____

_____

2. Test: _____ Outcome:_____

Comments:_____

_____

APPENDIX A (Cont'd)

Attachments

ATTACHMENT 2. Field Test Data Sheet for Drum/Tank Sampling (cont'd)

3. Test: _____ Outcome:_____

Comments:_____

_____

4. Test: _____ Outcome:_____

Comments:_____

_____

5. Test: _____ Outcome:_____

Comments:_____

_____

HAZCAT PESTICIDES KIT:

Present: _____ Not Present: _____

Comments: _____

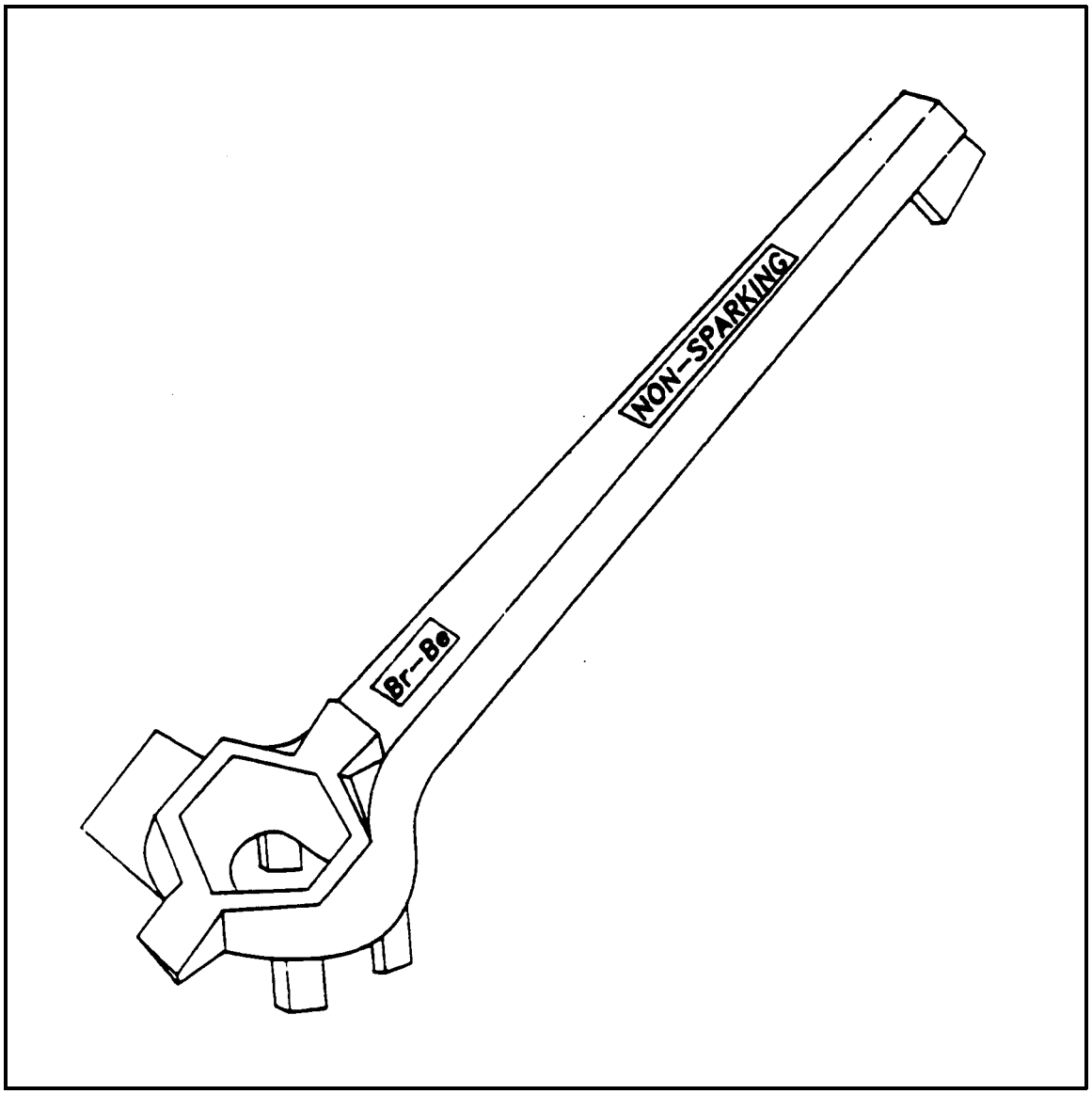
_____

_____

APPENDIX B

Figures

Figure 1. Universal Bung Wrench



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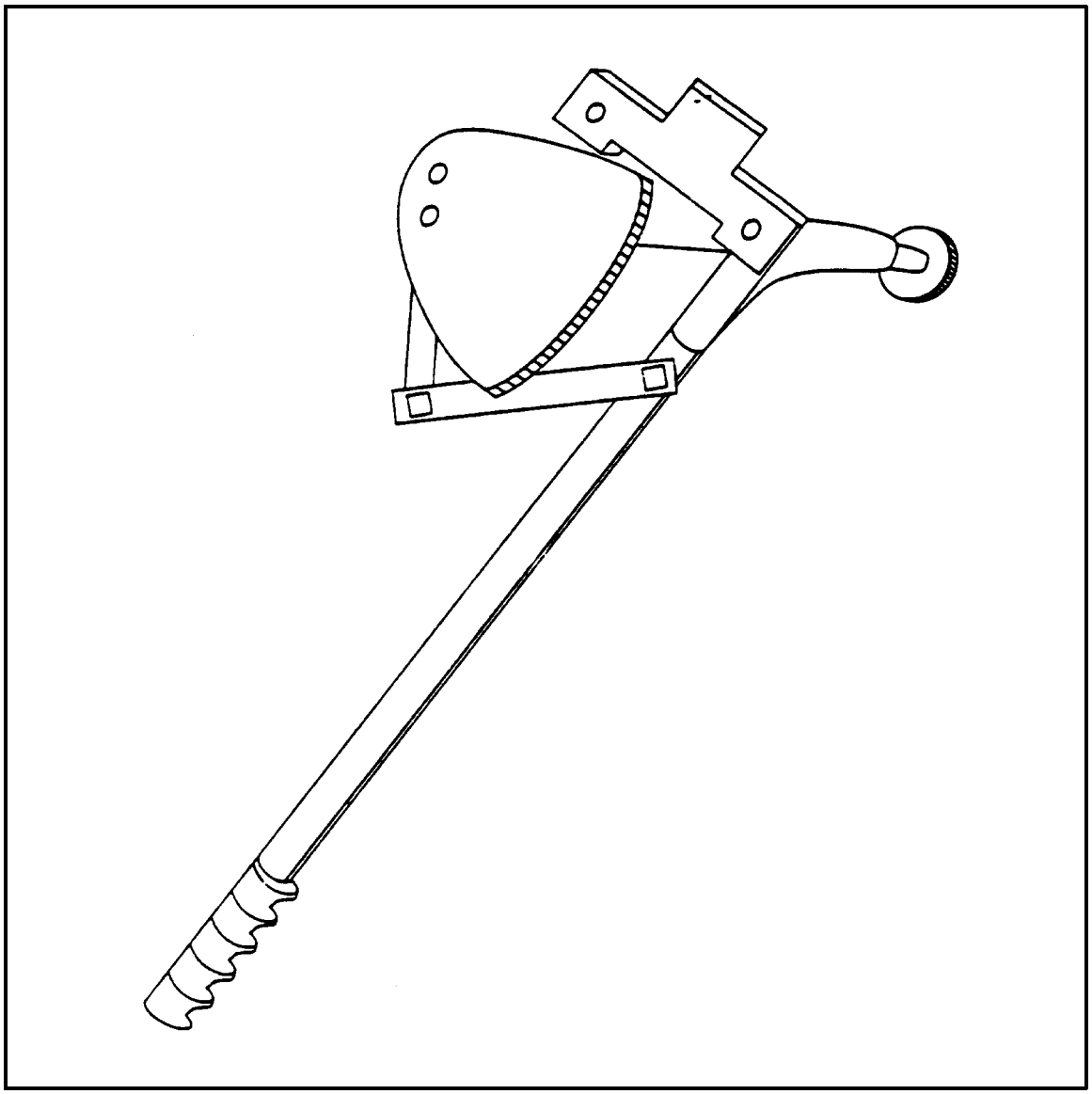
APPENDIX B (Cont'd)

Figures

Figure 2. Drum Deheader



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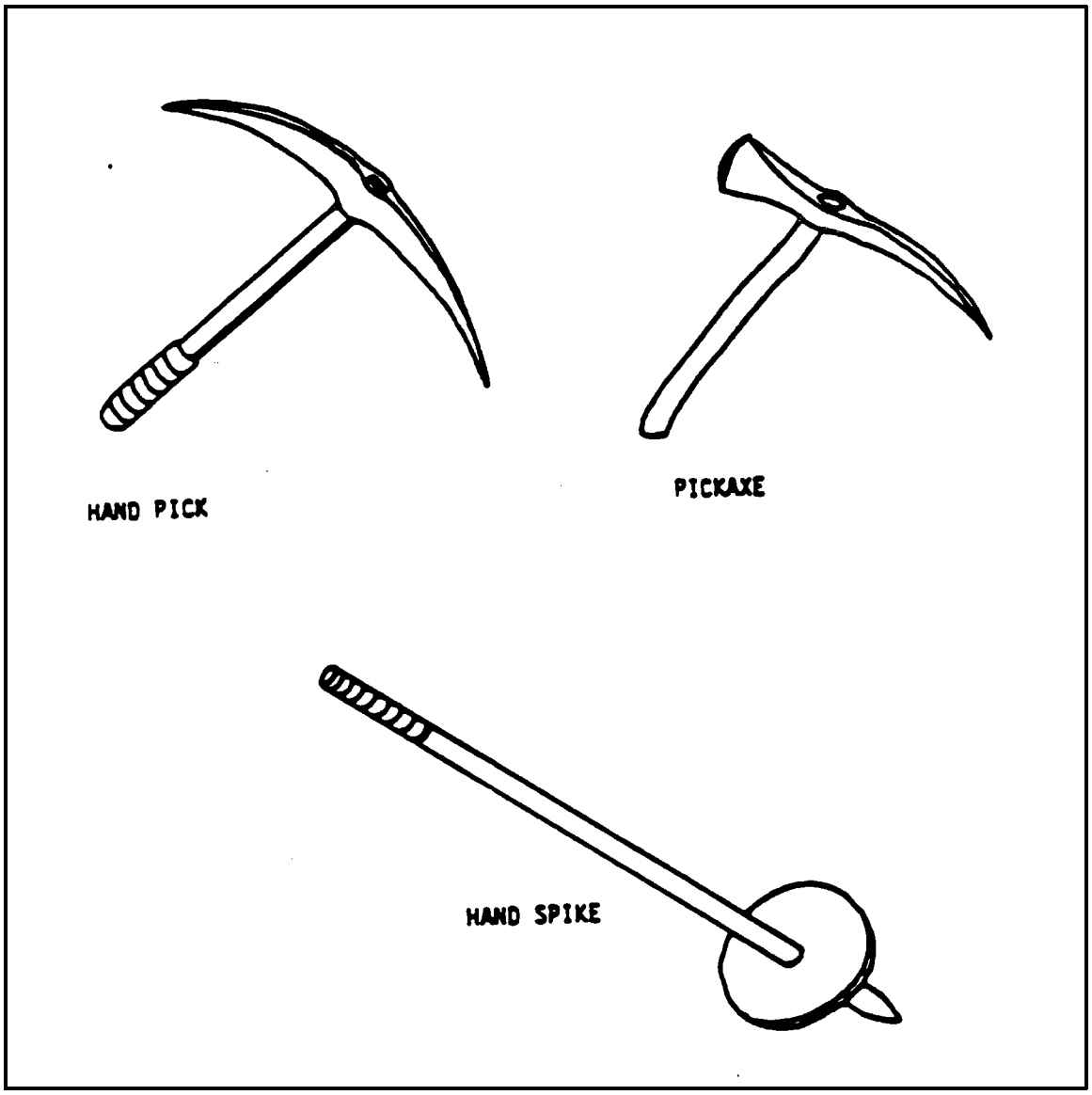
APPENDIX B (Cont'd)

Figures

Figure 3. Hand Pick, Pickaxe, and Hand Spike



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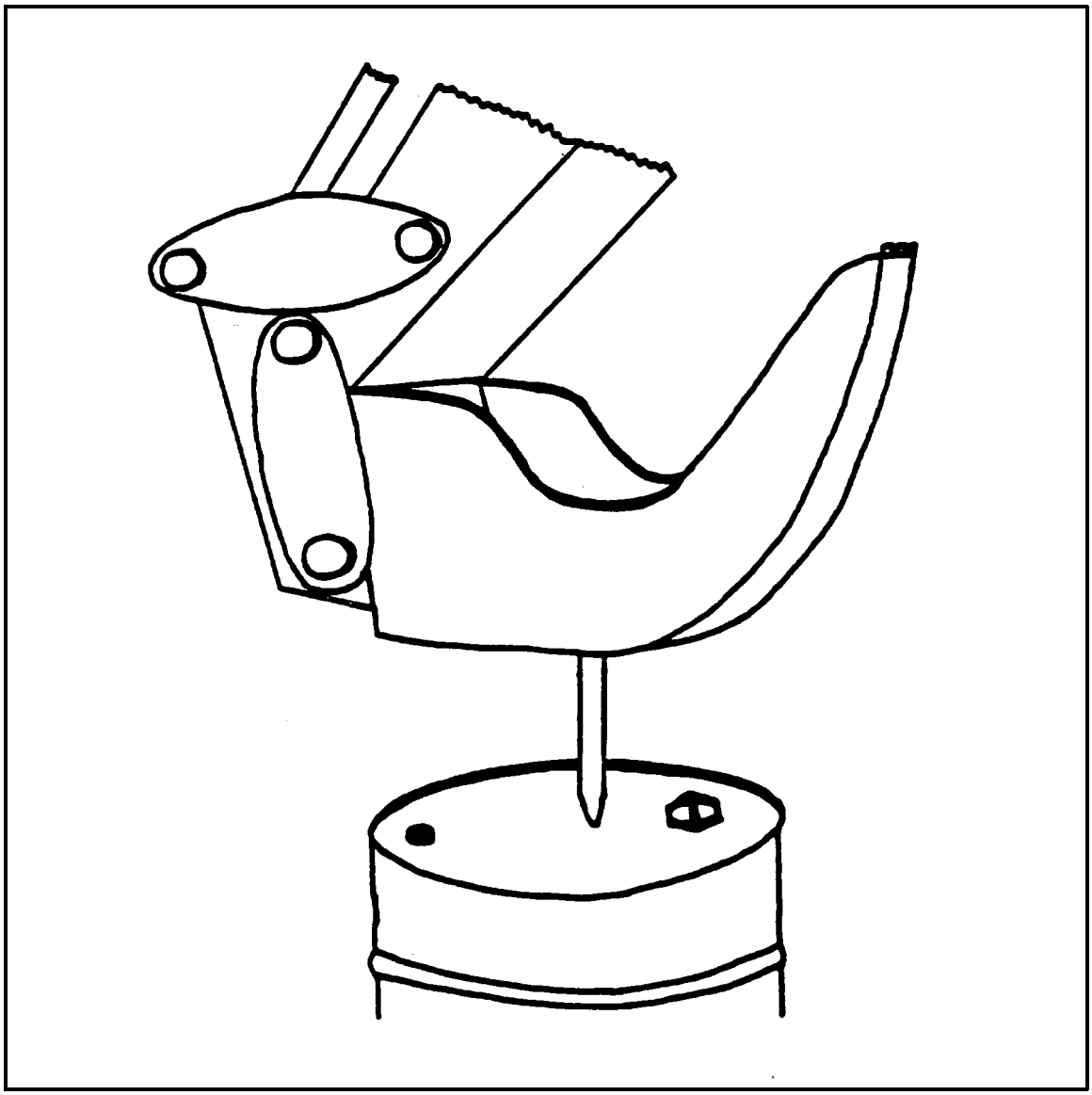
APPENDIX B (Cont'd)

Figures

Figure 4. Backhoe Spike



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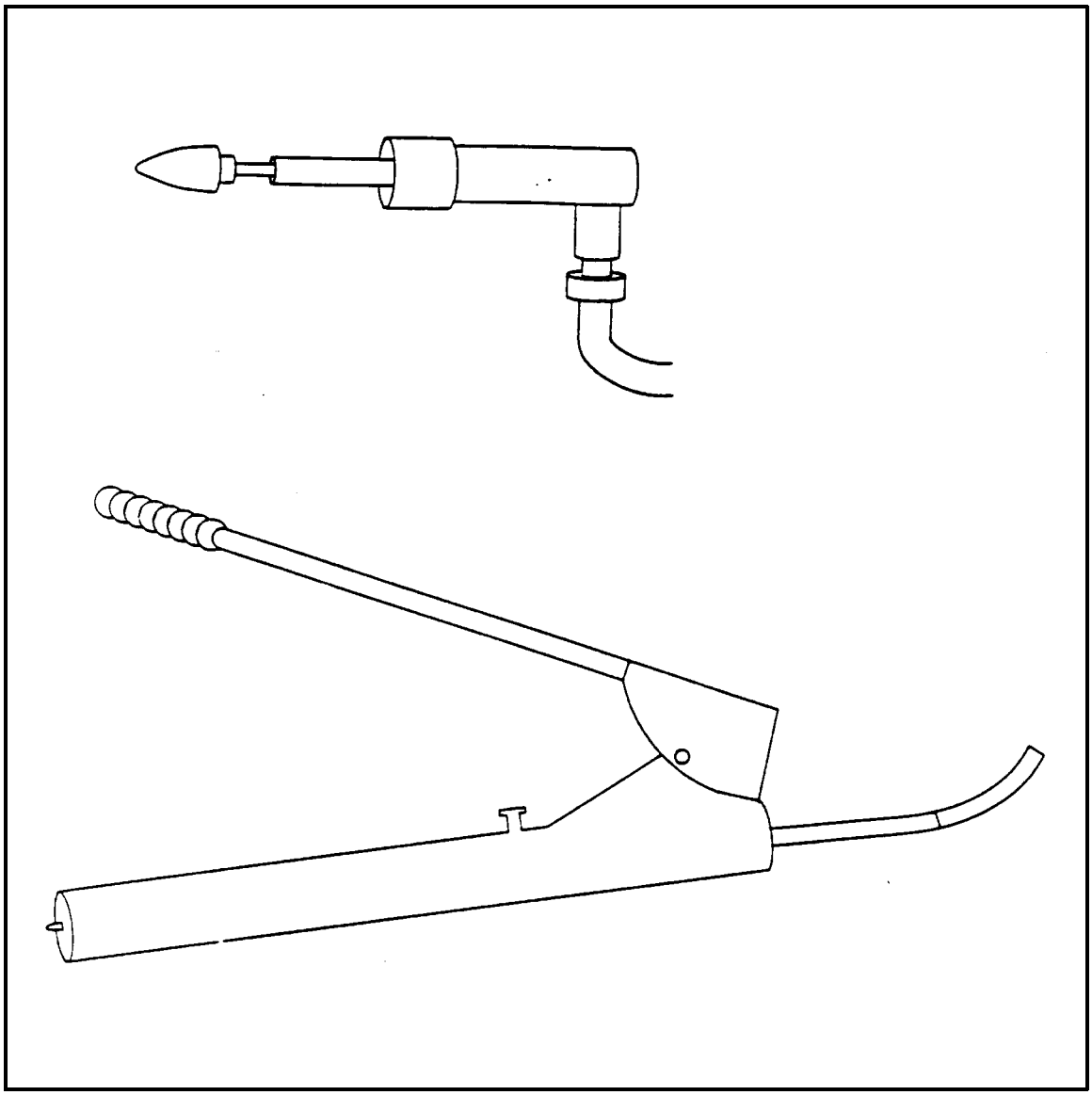
APPENDIX B (Cont'd)

Figures

Figure 5. Hydraulic Drum Opener



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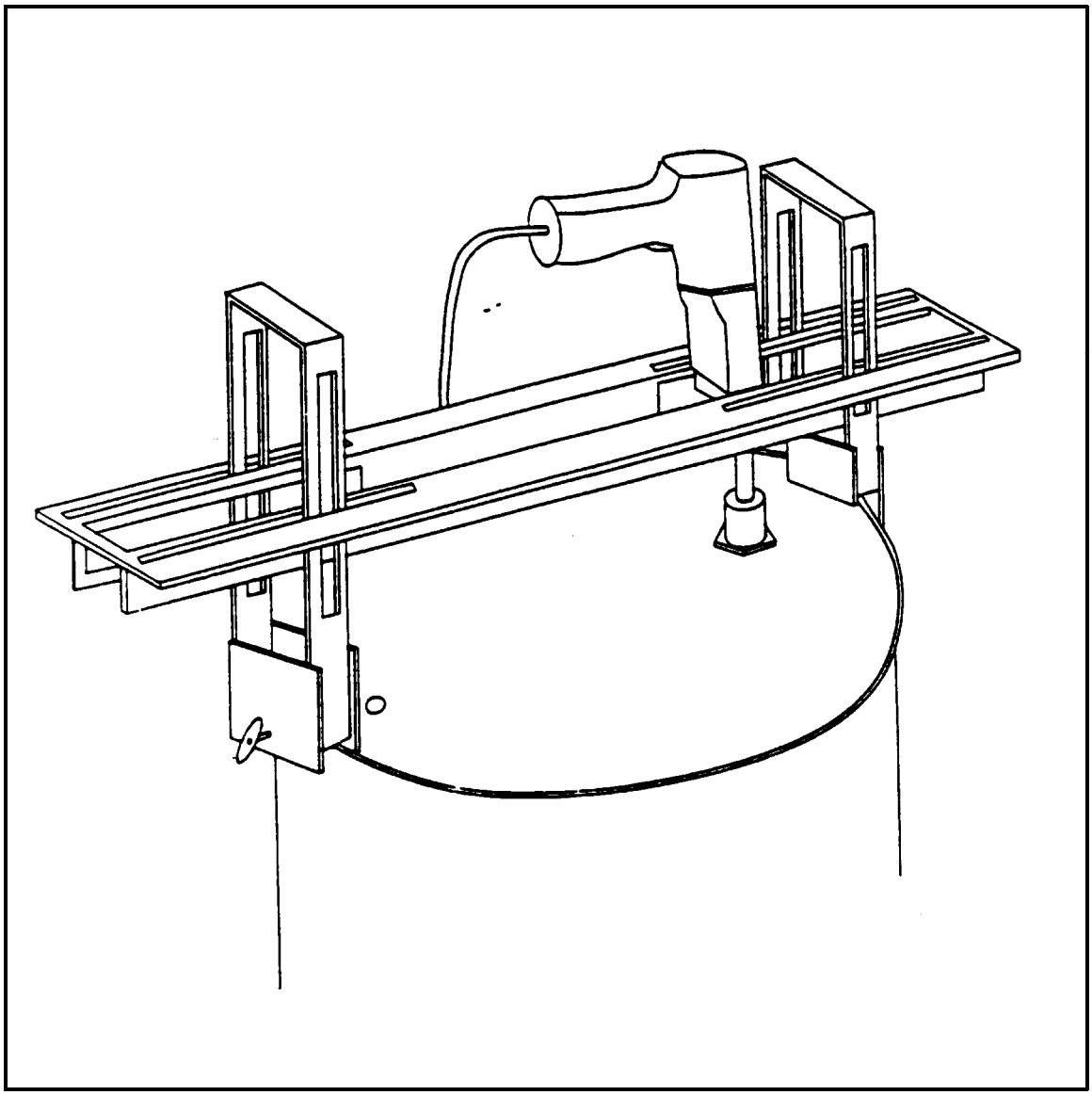
APPENDIX B (Cont'd)

Figures

Figure 6. Pneumatic Bung Remover



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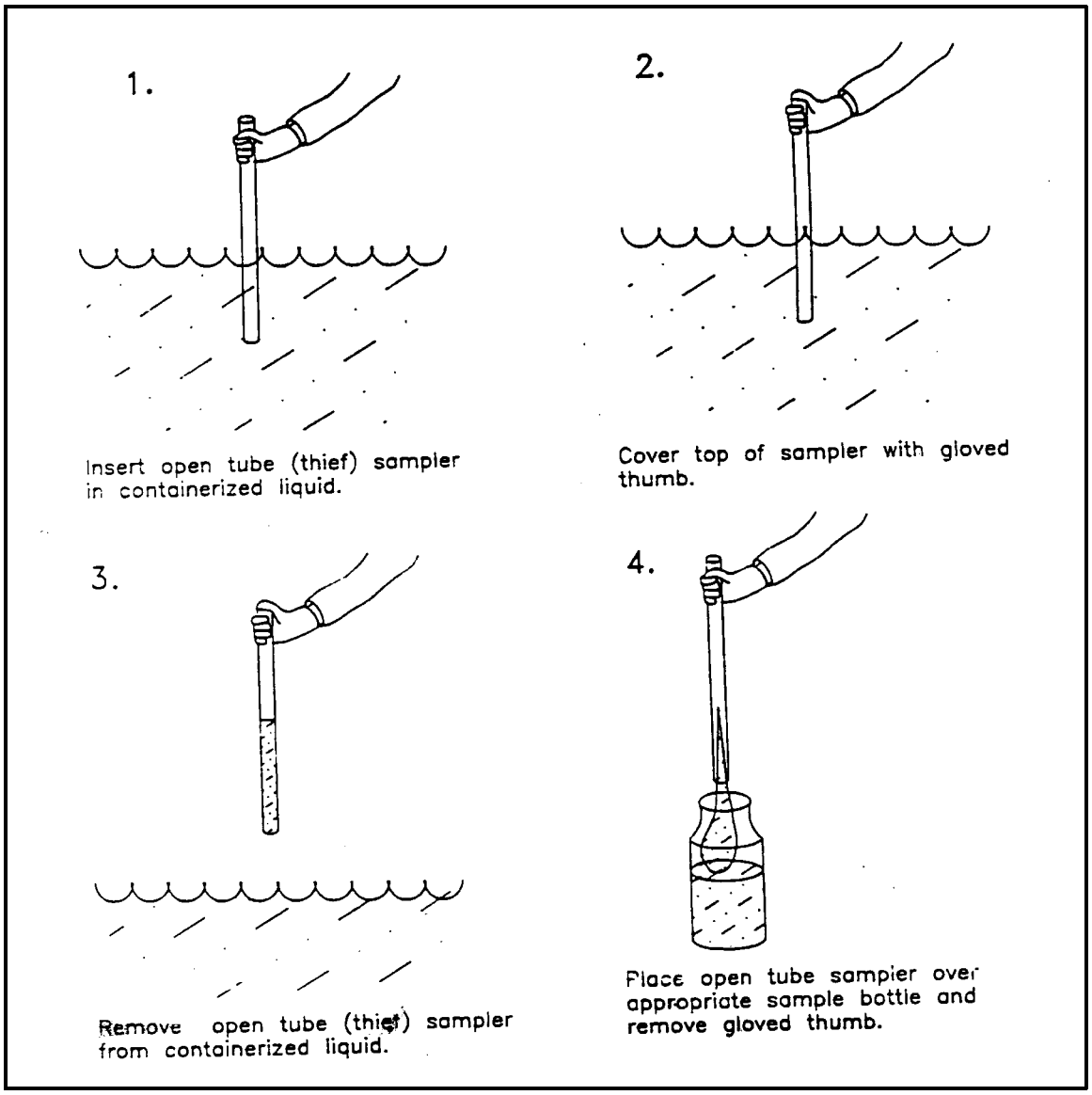
APPENDIX B (Cont'd)

Figures

Figure 7. Glass Thief



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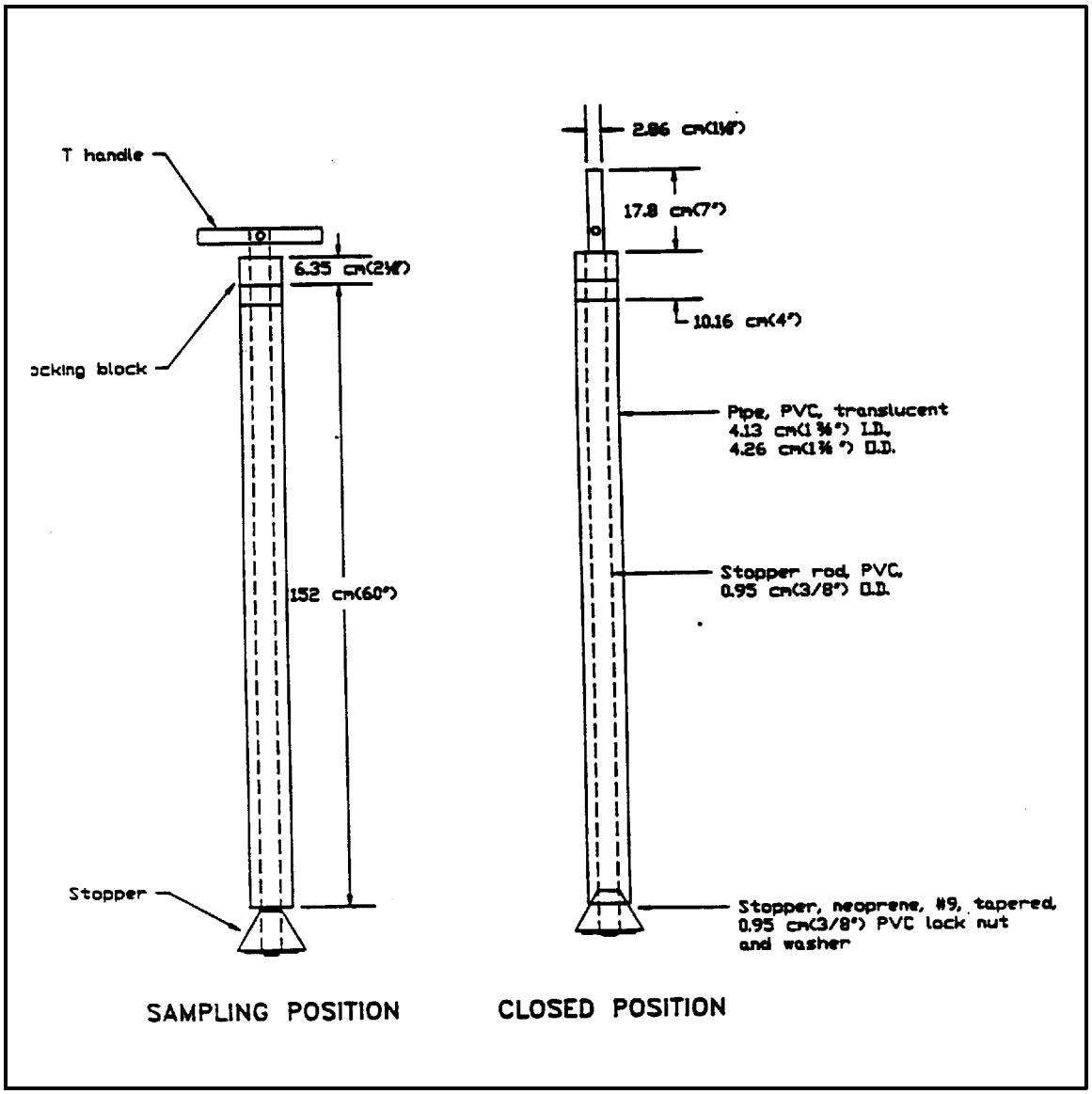
APPENDIX B (Cont'd)

Figures

Figure 8. COLIWASA



AR100831

Appendix A
POI Inspection Forms

68-F-K24-55-G-(0-0.25)-(A-6)-02042008

POI Inspection Form

POI ID: A-6

Sampling Personnel: D. Check, M. Kennedy

Date/Time: 2/4/08 1640

Lat/Long: 39.30924°N 76.51826°W

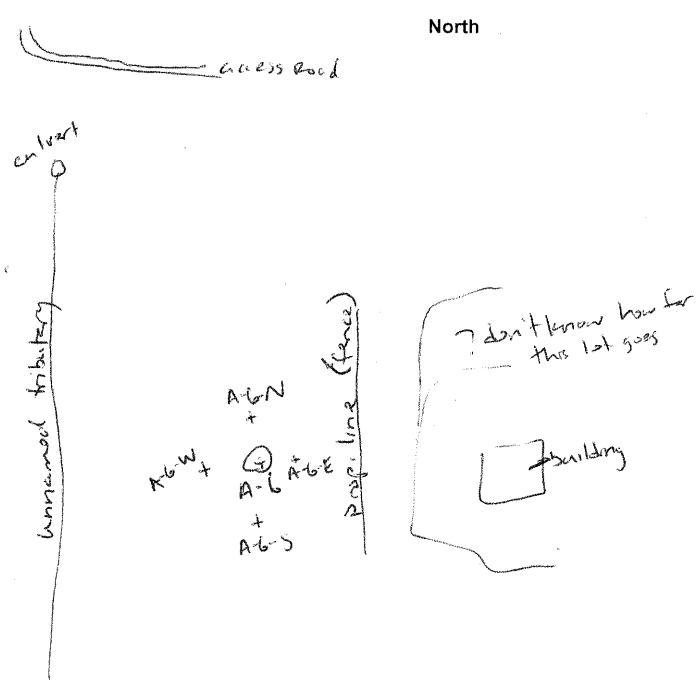
Calibration Sample: Y (N)

Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

pile of non-intact, v. rusted-out 55-gal. drums (4-5 drums visible); soil is v. dark but does not appear to be "stained", no odors; POI is inside thick vines & trees, adjacent to warehouse parking lot but inaccessible due to fence

Sample ID	Ar (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
A-6	65 +/- 13	1389 +/- 20	<53	311 +/- 58	0.20	0.0	ND<2.5	4.937	~~ND<2.4~~
A-6-~~N~~ E (DLH)	<35	901 +/- 17	<62	262 +/- 72					
A-6-~~E~~ N (DLH)	574 +/- 33	6,395 +/- 64	78 +/- 21	547 +/- 70					
A-6-S	<33	864 +/- 16	<58	336 +/- 67					
A-6-W	57 +/- 15	1100 +/- 92	<67	562 +/- 92					

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)



fence to A-6 = 150 ft.

trib. to A-6 = 150 ft.

access road to A-6 = approx. 400 yds.

+ not to scale

Soil: organic rich, black sandy clay

AR100833

68-F-K23-SS-G-(0-0.25)-(A-9)-02042008

POI Inspection Form

POI ID: A-9

Sampling Personnel: D. Check, M. Kennedy

Date/Time: 2/4/08 1625

Lat/Long: 39.31006°N 76.519070°W

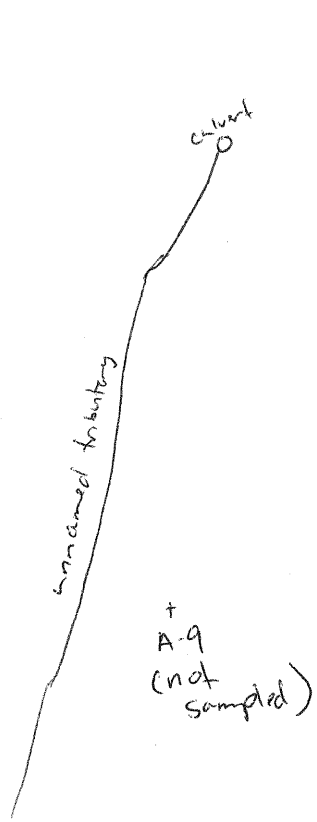
Calibration Sample: Y (N)

Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

on further inspection, POI A-9 is not a container but in fact a large piece of scrap metal

Sample ID	Ar (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
					N/A				
					MK				

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)



A-9 from trib. bank = 40 ft.

A-9 from culvert = ~ 300 yds.

* marked w/ pink flagging in tree

08-F-J23-SS-G-(0-0.25)-(A-14-1)-02042008
08-F-J23-SS-G-(0-0.25)-(A-14-2)-02042008

POI Inspection Form

POI ID: A-14 (A-14-1 + A-14-2)

Sampling Personnel: D. Check, M. Kennedy

Date/Time: 2/4/08 1510

Lat/Long: A-14-1 39.30998°N 76.51901°W
A-14-2 39.31004°N 76.51908°W

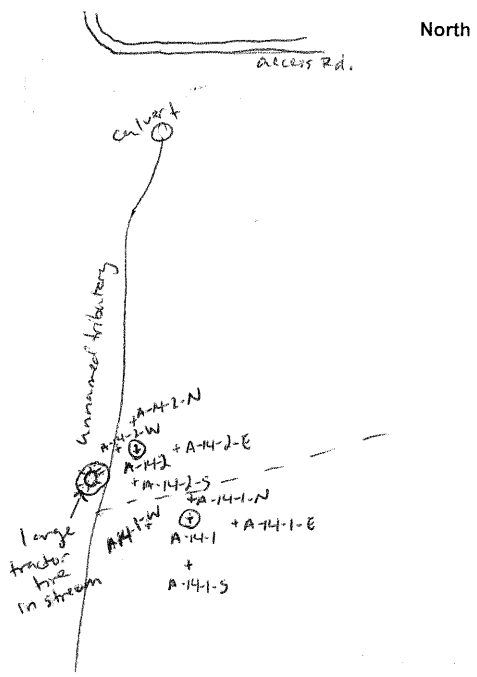
Calibration Sample: Y (N)

Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

2 distinct areas w/ rusty, non-intact 55-gal drums; Area 1 located on slope 23 ft. east of stream bank; Area 2 is in/on edge of stream bank, 46ft. north of Area 1; soil is dark brown but no apparent staining; difficult to access due to thick vines + trees, uneven terrain

Sample ID	~~As~~ Ar (ppm) (MK)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
A-14-1	36±8	437±11	ND<59	302±74	0.0	1.54	ND<2.5	8.234	~~ND<2.4~~ (MK)
A-14-1-N	49±10	705±14	ND<59	525±73					
A-14-1-S	103±31	6420±64	163±27	1478±96					
A-14-1-E	~~431±12~~ ND<26 (MK)	431±12	ND<62	381±85					
A-14-1-W	ND<19	403±9	64±16	284±43					
A-14-2	ND<15	186±7	ND<56	234±48	0.0	0.95	ND<2.5	0.976	~~ND<2.4~~ (MK)
A-14-2-N	22±6	320±8	53±18	313±47					
A-14-2-S	ND<17	287±8	ND<52	298±46					
A-14-2-E	ND<19	410±9	66±17	ND<119					
A-14-2-W	22±6	111±8	ND<74	1043±112					

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)



not to scale

A-14-1 to A-14-2 = 46 ft.

A-14-1 to culvert @ head of unnamed tributary = approx. ~~100~~ 150 (MK) yds.

all N, S, E, W points are 5 ft. away from original sample point.

A-14-1 organic rich black/brown sandy clay
A-14-2 " " " " " "

68-C-123-SS-G-(0-0.25)-(A-17)-02042008

POI Inspection Form

POI ID: A-17

Sampling Personnel: D. Checke, M. Kennedy

Date/Time: 2/4/08 1430

Lat/Long: 39.31018°N 76.51877°W

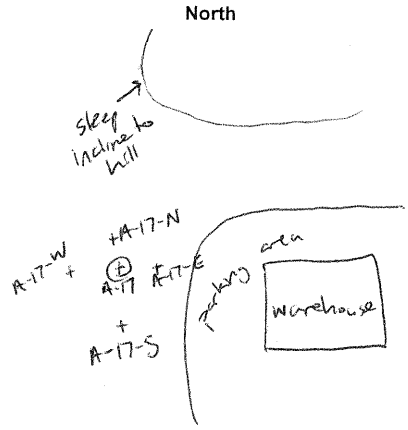
Calibration Sample: (Y) N

Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

substantial pile of rusty cans, soda bottles/glass, scrap metal + wires/tires covered in black material (asphalt?); located directly adjacent to + on level ground w/ warehouse parking lot (but blocked by chain-link fence) in heavily wooded area

Sample ID	~~As~~ Ar (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
A-17	ND<20	363±9	ND<54	1331±78	0.38	1.20	ND<2.5	8.541	~~ND<0.21~~ 0.45
A-17-N	ND<33	630±15	ND<67	2262±121					
A-17-S	ND<15	256±7	ND<46	508±51					
A-17-E	ND<32	608±15	ND<66	1569±108					
A-17-W	ND<22	421±10	ND<25	2021±94					

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)



A-17 to base of hill = 40 ft.

A-17 to N, S, E, W each = 5 ft.

to mark ~~A-17~~ A-17 in field w/ pink flagging tape in tree above sample location

not to scale

✓68-C-H22-SS-G-(0-0.25)-(A-21)-02042008

POI Inspection Form

POI ID: A-21

Sampling Personnel: D. Check/M. Kennedy

Date/Time: 2/4/08 , 1020

Lat/Long: 39.31065°N 76.51904°W

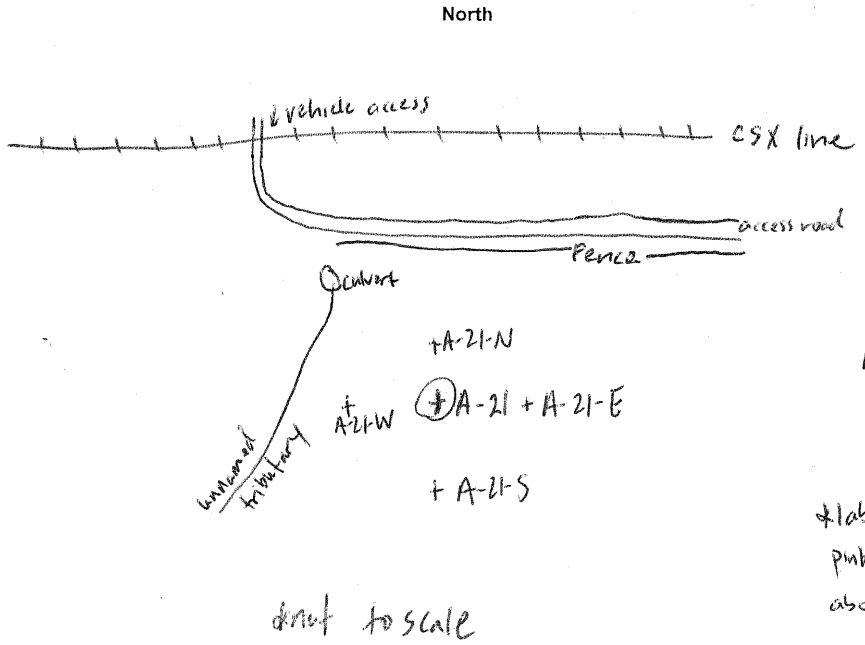
Calibration Sample: Y (N)

Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

Access road ~100 ft to North (blocked by fence). Walked through dense woods ~500 ft to arrive at POI. 1 55 gallon steel drum observed w/ nearby debris including tires, concrete containers (large) etc. Drum dented but appears intact. Drum appears to be empty. Opening faces south (but is capped shut) no staining in area notizable.

Sample ID	As (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
A-21	ND<16	294±8	61±16	858±57	0.0	0.0	ND<2.5	0.180	~~ND<2.4~~ 0 JR
A-21-N	ND<26	454±12	ND<61	408±59					
A-21-S	ND<10	80±5	69±18	523±52					
A-21-E	ND<8	36±4	ND<55	ND<113					
A-21-W	ND<25	430±12	ND<60	287±53					

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)



A-21 to fence = 100 ft

A-21 to N, S, E, W = 5 ft. each

*labelled in field w/ pink flagging in tree above drum

Soil: ~~slightly moist, lt brown silty clay~~ JR organic rich dk brown sandy clay

68-C-H23-SS-G-(0-0.25)-(A-22)-02042008

POI Inspection Form

POI ID: A-22

Sampling Personnel: D. Check / M. Kennedy

Date/Time: 2/4/08 1145

Lat/Long: 39.3064°N 76.5189°W

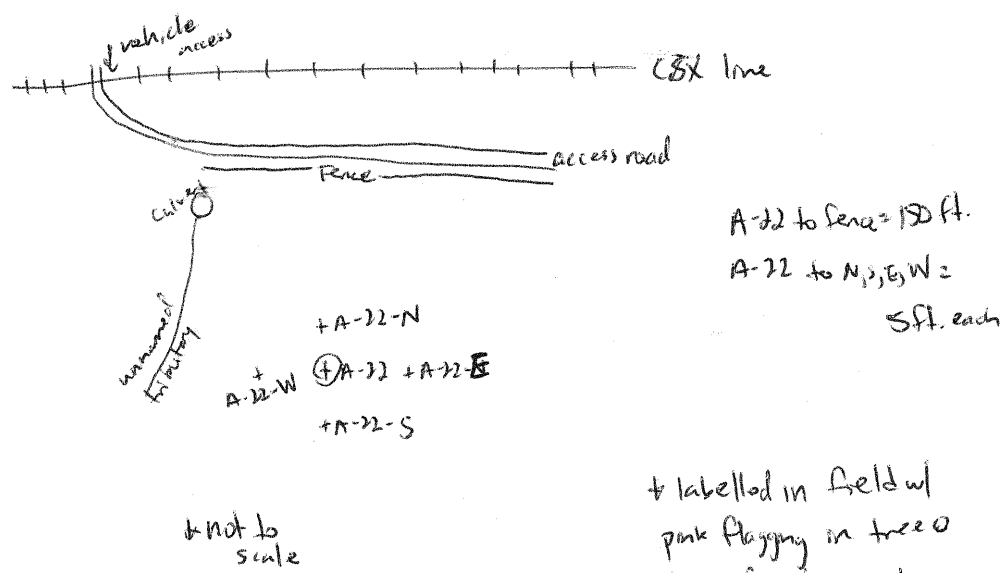
Calibration Sample: Y (N)

Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

~50 gal rusty but intact fuel tank, appears/sounds empty, no visible staining or odors; opening to tank not visible (may be on bottom?); located @ base of slope ~50 ft. south of POI A-21, not readily accessible due to fairly dense woods & fence blocking access from nearby road

Sample ID	As (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
A-22	ND<7	34±3	ND<50	166±38	0.0	0.0	ND<2.5	0.123	ND<2.4

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)



Soil: slightly moist, lt. brown silty clay

28-D-L19-SS-Gr-(0-0.25)-(A-37)-02052008

POI Inspection Form

POI ID: A-37

Sampling Personnel: D. Check, M. Kennedy

Date/Time: 2/5/08 0950

Lat/Long: 39.30857°N 76.52156°W

Calibration Sample: Y (N)

Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

one v. rusty/corroded drum lid, no apparent staining or odors; inaccessible due to thick brush/vines and trees, + is bordered on 1 side by wetland (pond), at crest of a hill
-soil is slightly moist

Sample ID	~~As~~ Ar (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
A-37	17±4	322±6	ND<37	ND<89	0.0	0.0	ND<2.5	0.639	~~ND<2.4~~ 8
A-37-N	ND<10	237±5	ND<33	~~176±34~~ 78±24					
A-37-S	18±5	424±7	ND<37	176±34					
A-37-E	20±4	294±6	ND<35	122±29					
A-37-W	ND<9	137±4	ND<35	93±25					

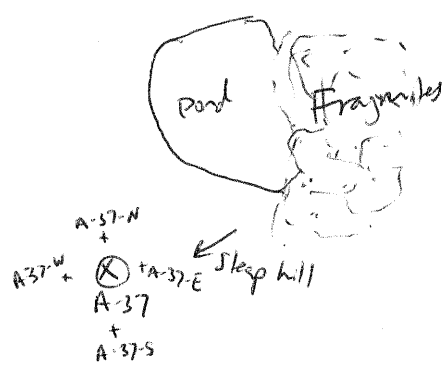
Site sketch (idententify all containers, significant debris, dimensions, and sample locations)

North

Soil: dk. brown loam

A-37 to pond <100 yds

A-37 to N,S,E,W each = 5 ft.



*not to scale

* XRF readings taken through zip-lock bags (not in situ)

08-D-021-SS-01-(0-0.25)-(A-40)-02052008

POI Inspection Form

POI ID: A-40

Sampling Personnel: D. Creek, M. Kennedy

Date/Time: 2/5/08 0845

Lat/Long: 39.30841°N 76.52028°W

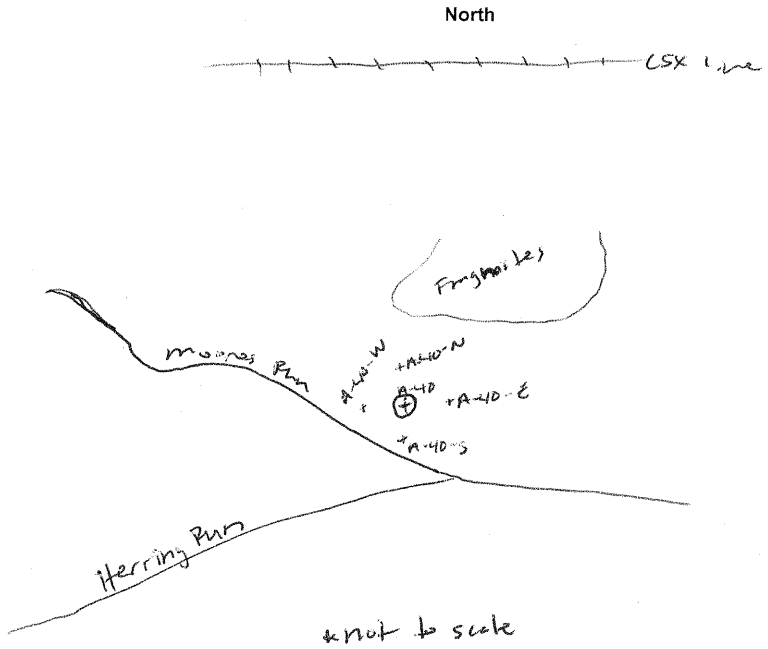
Calibration Sample: (Y) N

Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

one ~30 gal. fuel tank, possibly from a vehicle, rusty but intact, apparently empty; shingles scattered around/underneath; quite inaccessible due to thick brush + trees, at interior of site + on top of a hill w/ wetland on 1 side + Moores Run on the other. soil is moist.

Sample ID	As (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
A-40	ND<7	91±3	34±11	ND<62	0.30	0.64	ND<2.5	2.341	~~ND<2.4~~

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)



A-40 to Moores Run = 50 yds.
A-40 to frogmoikes = 100 yds.
A-40 to N,S,E,W each = 5 ft.

Soil: brown clayey loam w/ high organics

note: XRF readings collected from soil in zip-lock bags

68-F-M20-SS-G-(0-0.25)-(A-44)-02052008

POI Inspection Form

POI ID: A 44

Sampling Personnel: D. Check / M. Kennedy

Date/Time: 2/5/08 0930

Lat/Long: 39.30826°N, 76.52077°W

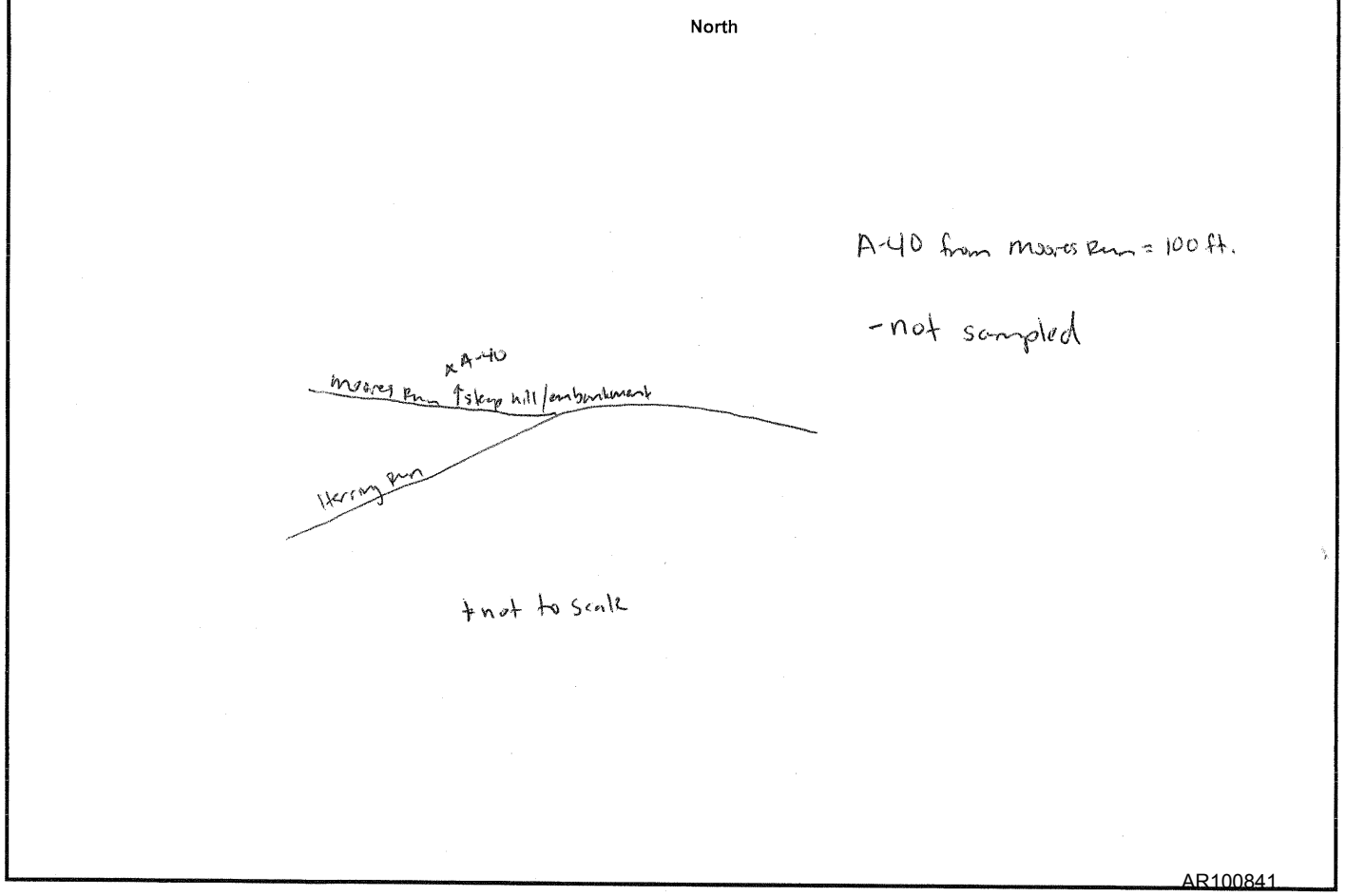
Calibration Sample: Y N

Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

One intact, partially rusted metal container, which has been identified as an old trash can. No sampling/field screening was conducted at this POI, as container was deemed unlikely to contain hazardous substances.

Sample ID	~~Ar~~ As (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
NA									

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)



68-D-C16-55-G-(0-0.75)-(A-49)-02052008

POI Inspection Form

POI ID: A-49

Sampling Personnel: D. Check, M. Kennedy

Date/Time: 2/5/08 1055

Lat/Long: 39.30864°N 76.52351°W

Calibration Sample: Y (N)

Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

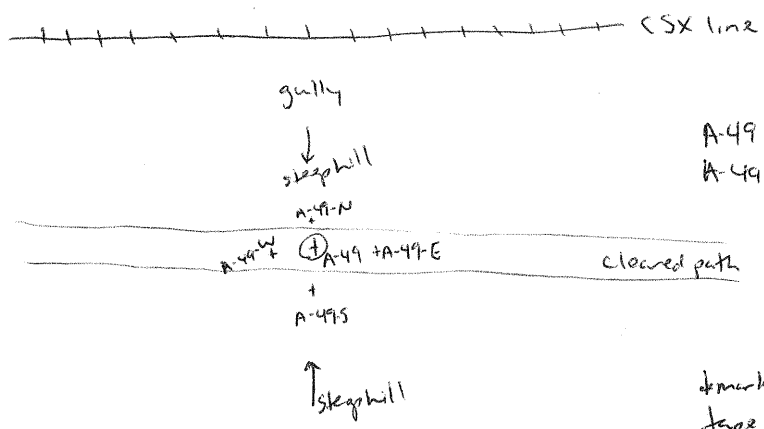
one ~5 gal. propane tank, intact; no visible staining or odors; located ~50 yds south of CSX line along a cleared path that runs along northern border of site (point is actually further north than it appears on EECA workplan figure 2); terrain slopes to both north & south of A-49 but is accessible, except for a bundle of vines blocking this (mw) ~~path~~ portion of the path

Sample ID	~~Ar~~ As (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
A-49	ND<7	120±3	92±11	140±24	0.95	1.20	ND<2.5	0.279 ~~0.266~~	~~[illegible]~~ 0

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)

North

Soil: brown loam



A-49 to CSX line = 50yds
A-49 to N, S, E, W each = 5ft.

*marked w/ pink flagging tape in tree above POI A-49

*not to scale

-soil is slightly moist
XRF readings taken from soil inside zip-lock bags

68-E-09-55-G-(0-0.25)-(A-58)-02112008

POI Inspection Form

POI ID: A-58

Sampling Personnel: M. Kennedy, M. Mirigliano

Date/Time: 2/11/08 1520

Lat/Long: 39.30563°N 76.52850°W

Calibration Sample: Y (N)

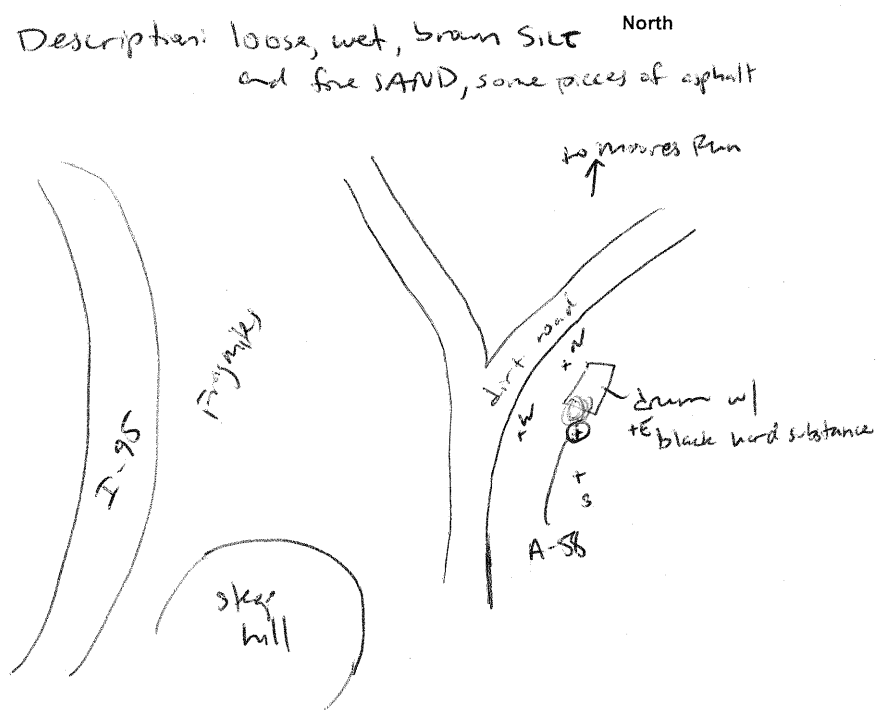
Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

one corroded, non-intact 55-gal drum, filled w/ solid hard black material (asphalt?); soils not visibly stained, no odors; located @ fork in dirt road ~50 yds east of I-95 overpass; easily accessible

Sample ID	~~As~~ Mn (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
A-58	ND<10	84±4	ND<42	305±43	0.21	equipment malfunction	ND<25	0.2266	>72
A-58-N									~~<2.4~~ 0
A-58-S									~~<2.4~~ 9.3
A-58-E									~~<2.4~~ 0
A-58-W									~~<2.4~~ 215

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)

Soil Description: loose, wet, brown SILT and fine SAND, some pieces of asphalt



A-58 to dirt road = <5ft.

A-58 to I-95 = ~50yds

A-58 to N, S, E, W each = 5ft

* not to scale

XRF readings taken from soil inside zip-lock bags, not in situ

08-E-R10-SS-G-(0-0.25)-(A-62)-02082008

POI Inspection Form

POI ID: A-62

Sampling Personnel: MM / MF

Date/Time: 2/8/08 15:15

Lat/Long: 39.30525°N 76.52805°W

Calibration Sample: Y (N)

Soil

Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

(1) 55-gal drum, non-intact 1/4 with soil, crushed. Conc slab, asphalt, rusted bins, and other metal debris nearby.

Access: ~~10'~~ 20' from ~~Roadway~~ PATH. Easy access.

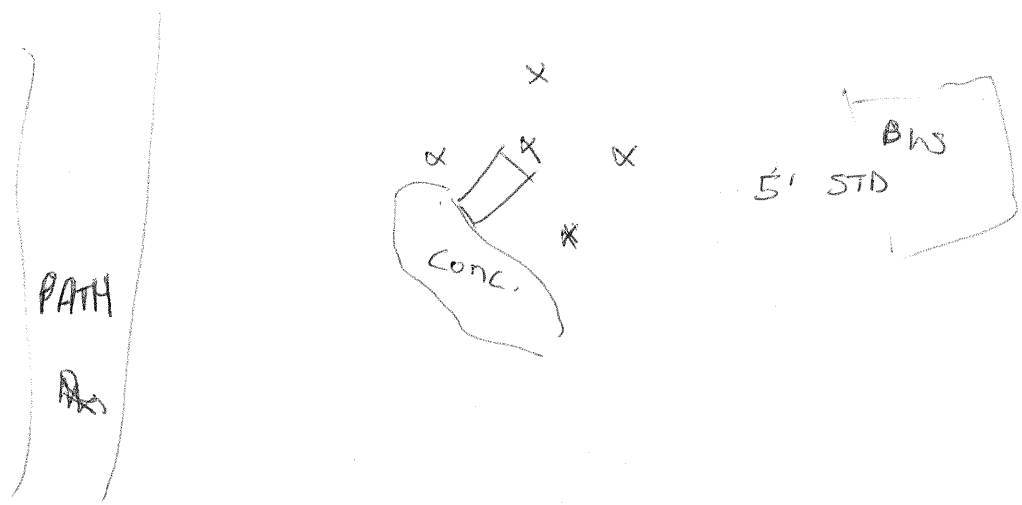
Sample ID	Ar (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
A-62	ND<16	271±7	ND<45	257±38	0.30	0.0	ND<2.5	0.778	~~ND<2.4~~ (#)
A-62-N	ND<17	278±7	ND<46	235±38					
A-62-W	ND<20	341±8	ND<52	386±47					
A-62-E	ND<13	216±5	ND<40	272±33					
A-62-S	ND<8	91±3	ND<37	ND<69					

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)

A-62

North

XRF 2 MIN MAX Through Baggie.



68-E-R11-SS-G-C0-0.25-(A-64)-02082008

POI Inspection Form

POI ID: A-64

Sampling Personnel: MM/MF

Date/Time: 2/8/08 14:06

Lat/Long: 39.30523°N 76.52752°W

Calibration Sample: Y (N)

Soil: brown, SAND, v. fine. dry loose

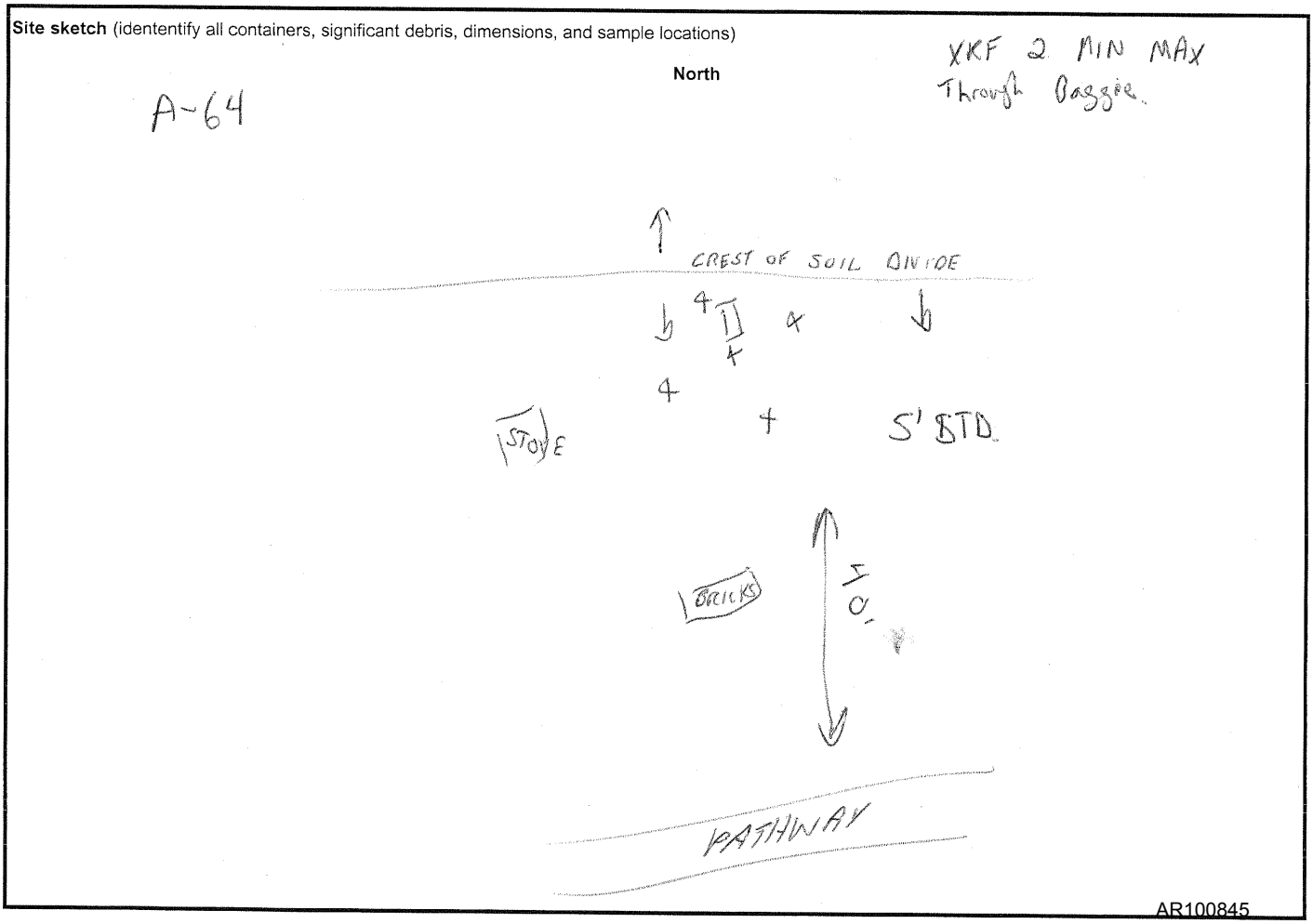
Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

(1) Corroded Drum, non-intact, appears to have contained light colored soil. Various other debris, stove, brick wall.

Access: 40' through medium vegetation from path

Sample ID	Ar (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
A-64	ND<16	276±7	ND<46	182±37	0.16	-2.15	ND<2.5 ~~1.2~~	2.171	~~ND~~
A-64-N	ND<62	1236±28	ND<87	522±90					
A-64-E	ND<21	360±9	ND<53	309±46					
A-64-S	ND<10	148±4	ND<35	222±30					
A-64-W	64±18	969±23	ND<81	305±72					

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)



U8-E-R11-SS-G-(0-0.25)-(A-70)-02082008

POI Inspection Form

POI ID: A-70

Sampling Personnel: MM/MF

Date/Time: 2/8/08 15:00

Lat/Long: 39.30512°N 76.52745°W

Calibration Sample: Y (N)

Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

(2) intact 55-gal drums, valve open, empty, no soil staining

Numerous tires, metal, and conc.

Access: 50' from roadway, medium vegetation, but significant debris in way.

Soil: brown, SAND w/ clay moist to dry

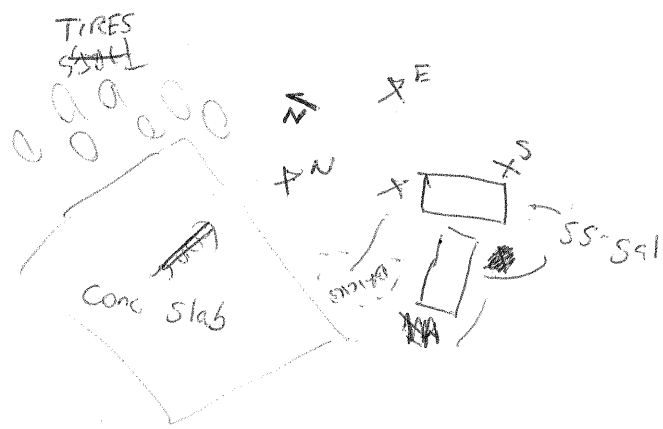
Sample ID	Ar (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
A-70	ND<30	505±13	ND<61	ND<141	0.17	0.00	ND<2.5	>20	~~ND<2.5~~ (y) N
A-70-N	ND<10	139±4	ND<36	ND<72					
A-70-S	ND<15	242±6	ND<42	ND<85					
A-70-W	NOT	SAMPLED –		NO ACCESS					
A-70-E	ND<11	195±5	ND<38	94±26					

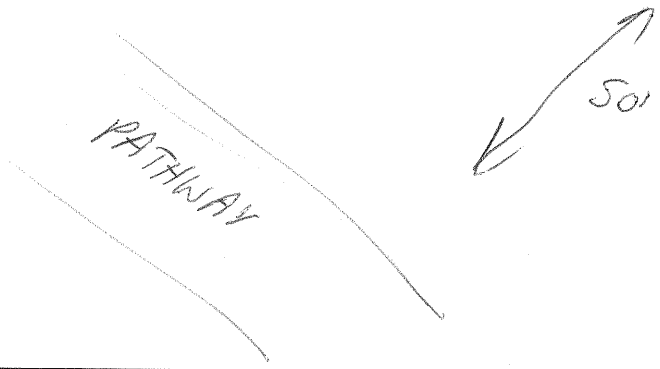
Site sketch (idententify all containers, significant debris, dimensions, and sample locations)

A-70

North

XRF 2 MIN MAX Through Baggie





68-E-513-55-G-(0-0.25)-(A-79-1)-02112008

POI Inspection Form

POI ID: A-79 (A-79-1 + A-79-2)

Sampling Personnel: M. Kennedy, M. Mirigliano

Date/Time: 2/11/08 1240

Lat/Long: A-79-1 39.30474°N 76.52588°W
A-79-2 39.30473°N 76.52577°W

Calibration Sample: Y (N)

Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

two distinct locations, each w/ 23 55-gal. drums, all non-intact; A-79-1 one drum contains white granular substance @ drum opening, surrounding soil has some red staining, no odors; A-79-2 has ~~no visible staining~~ (mx) rusty/reddish-coloration, ~~or~~ no odors; located amongst thick brush + trees/vines, not easily accessed but there is a cleared path nearby

Sample ID	~~As~~ (mx) (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
A-79-1	ND<145	13,238±117	ND<66	40,928±501	0.17	2.59	20.3	40	~~ND<2.4~~ 0.11 (JP)
A-79-1-N	ND<9	70±3	ND<42	569±40			ND<2.5	2.629	
A-79-1-S	ND<60	3,540±33	55±17	2,423±98			ND<2.5	0.304	
A-79-1-E	ND<9	93±4	ND<41	212±31			ND<2.5	2.482	
A-79-1-W	ND<12	215±5	ND<40	145±29			ND<2.5	3.107	
A-79-2	ND<13	172±5	ND<44	6,467±118	0.13	1.15	ND<2.5		~~[illegible]~~ (JP)
A-79-2-N	32±6	271±7	ND<49	17,585±225					
A-79-2-S	ND<17	459±7	ND<39	1,021±45					
A-79-2-E	ND<25	235±10	ND<67	99,294±1,049					
A-79-2-W	ND<140	9661±102	ND<75	12,716±318					

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)

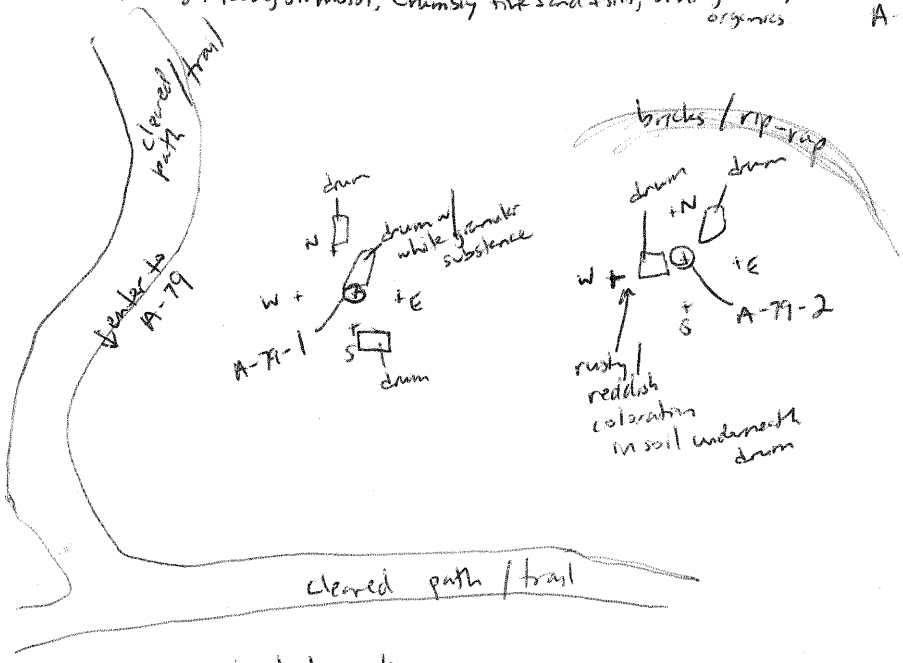
Soil Description: A-79-1: v. loose, dry, red-brown silty fine sand w/ white crystals
A-79-2: loose, sl. moist, crumbly fine sand + silt, sm. gravel, organics

North

A-79-1 to A-79-2 = 30 ft.

A-79-1 + -2 to N,S,E,W each = 5 ft.

A-79 to trail (west) = 15 ft.



*not to scale

XRF readings taken from soil inside zip-lock bags, not in situ

AR100847

68-F-514-55-G-(0-0.25)-(A-81)-02112008

POI Inspection Form

POI ID: A-81

Sampling Personnel: M. Kennedy, M. Mirigliano

Date/Time: 2/11/08 0945

Lat/Long: 37.30468°N 76.52526°W

Calibration Sample: Y N

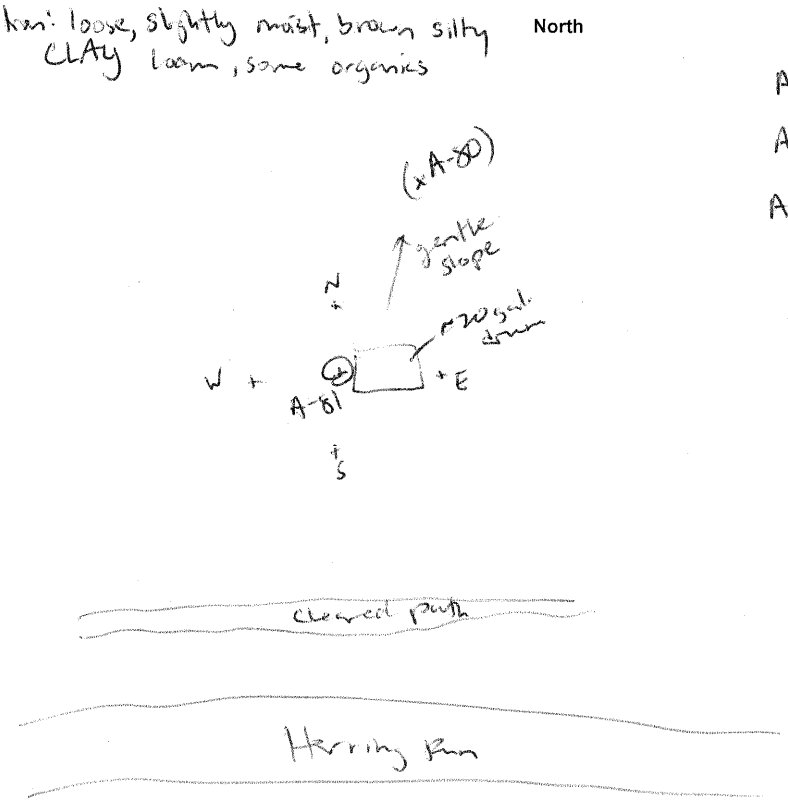
Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

one ~~rusty~~ (mx) rusty, mostly intact ~20 gal drum lying on its side, partially filled w/ soil; no visible staining or odors; located @ base of small slope, just inside wetland delineated area; access possible from road that runs along Herring Run (few trees but mostly clear)

Sample ID	As ~~Ar~~ (mx) (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
A-81	ND<13	219±5	ND<41	164±32	0.17	5.69	ND<2.5	0.527	~~ND<2.5~~
A-81-N	ND<30	517±13	ND<36	276±55					
A-81-S	ND<15	245±6	ND<43	108±32					
A-81-E	ND<13	218±5	ND<40	115±28					
A-81-W	ND<31	538±13	ND<66	305±55					

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)

Soil Description: loose, slightly moist, brown silty CLAY loam, some organics



A-81 to cleared path = 100 ft.

A-81 to A-80 = ~30 ft.

A-81 to N, S, E, W each = 5 ft.

+ not to scale

XRF readings taken from inside zip-lock bags, not in situ

AR100848

68-E-T13-SS-G-(0-0.25)-(A-82)-02112008

POI Inspection Form

POI ID: A-82

Sampling Personnel: M. Kennedy, M. Mingliano

Date/Time: 2/11/08 1150

Lat/Long: 39.30428°N 76.52582°W

Calibration Sample: Y (N)

Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

One non-intact 55-gal. drum half covered/burried w/ soil; no staining or odors; located just on south side of spur of trail coming off cleared path @ north side of Herring Run; easy access, only a few trees between POI & trail; no other debris present

Sample ID	~~As~~ Ba (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
A-82	ND<18	413±8	ND<43	334±47	0.11	3.12	ND<2.5	0.343	~~ND<2.4~~ 0.28
A-82-N	ND<15	346±6	ND<38	149±29					
A-82-S	ND<14	270±6	ND<40	286±33					
A-82-E	ND<15	300±6	ND<41	196±37					
A-82-W	ND<15	281±6	ND<41	214±32					

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)

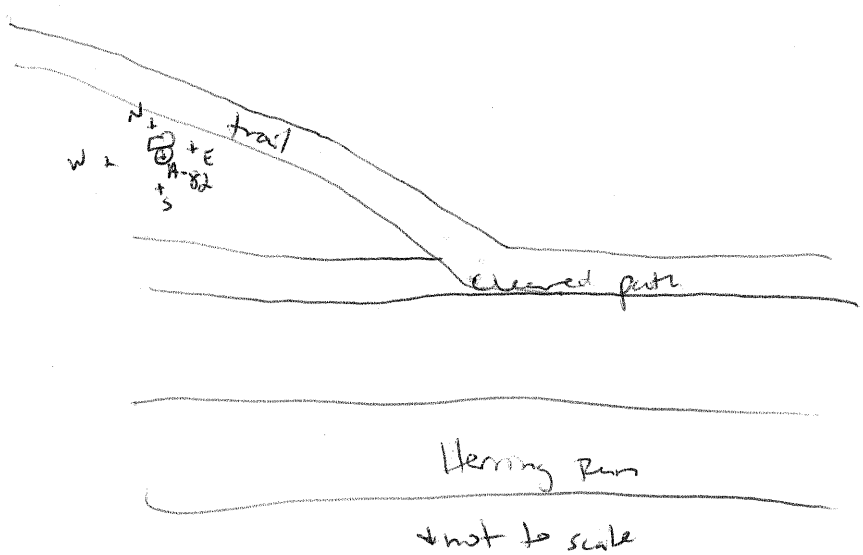
Soil Description: loose, moist, brown silty CLAY loam w/ organics

North

A-82 to trail = 10 ft.

A-82 to cleared path = ~100 ft.

A-82 to N,S,E,W each = 5 ft.



XRF readings taken from soil inside zip-lock bags, not in situ

POI Inspection Form

U8-F-N20-55-G(0-0.25)-(A-89)-02142008

POI ID: A-89

Sampling Personnel: MK/MF

Date/Time: 2/14/08 15:00

Lat/Long: 39.307819°N 76.52139°W

Calibration Sample: Y (N)

SOIL: MOIST, LOOSE, BR, SILT and CLAY

Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

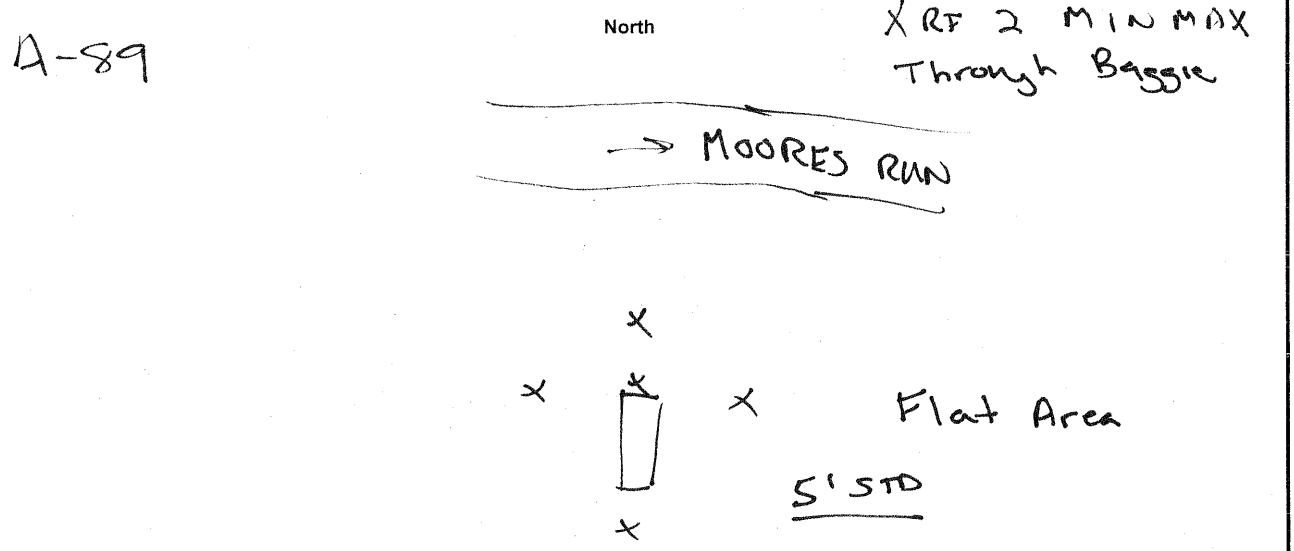
(1) Half buried, non-intact, 55-gallon drum. Contents appear to be surrounding soil, no soil staining

General refuse surrounding

Access: 20' from Moore's Run, Medium vegetation long distance from all access roadways

Sample ID	Ar (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
A-89	ND<11	159±6	ND<41	148±31	0.00	0.0	ND<2.5	0.43	5.343 ~~ND<2.4~~ (1)
A-89-N	ND<10	100±4	ND<40	ND<85					
A-89-S	ND<10	126±4	48±13	128±29					
A-89-E	ND<10	154±4	ND<38	137±28					
A-89-W	ND<10	122±4	ND<40	106±29					

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)



G-(0-0.25) (A-95)

A-95

ersonnel MM/MF

2/8/08 12:00

39.30486°N

76.52744°W

N

ion Sample: Y

Observations (# and volume, other debris, accessibility):

(1) CAR Battery; fair condition

Scrap metal

Access: Along Pathway, easy access

Soil: Dark BR CLAY w/some silt, organic material moist.

Sample ID	Ar (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
A-95	ND<17	250±7	ND<49	295±48	0.19		3.0	1,137	~~ND<250~~
A-95-N	ND<12	201±5	ND<40	227±31					
A-95-S	ND<13	219±5	ND<42	309±35					
A-95-E	ND<13	213±5	ND<41	240±32					
A-95-W	ND<19	327±8	ND<52	247±41					

XRF 2 MIN MAX Through Baggie

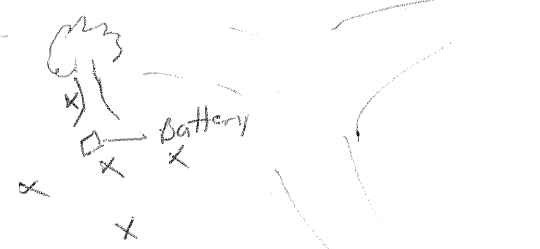
Site sketch (idententify all containers, significant debris, dimensions, and sample locations)

North

A-95

Flat Area

PATHWAY



5' STD

68-E-011-SS-G-(0-0.25)-(A104)-02082008

POI Inspection Form

POI ID: A-104

Sampling Personnel: M. Kennedy, D. Check

Date/Time: 2/8/08 1400

Lat/Long: 39.30387°N 76.52755°W

Calibration Sample: Y (N)

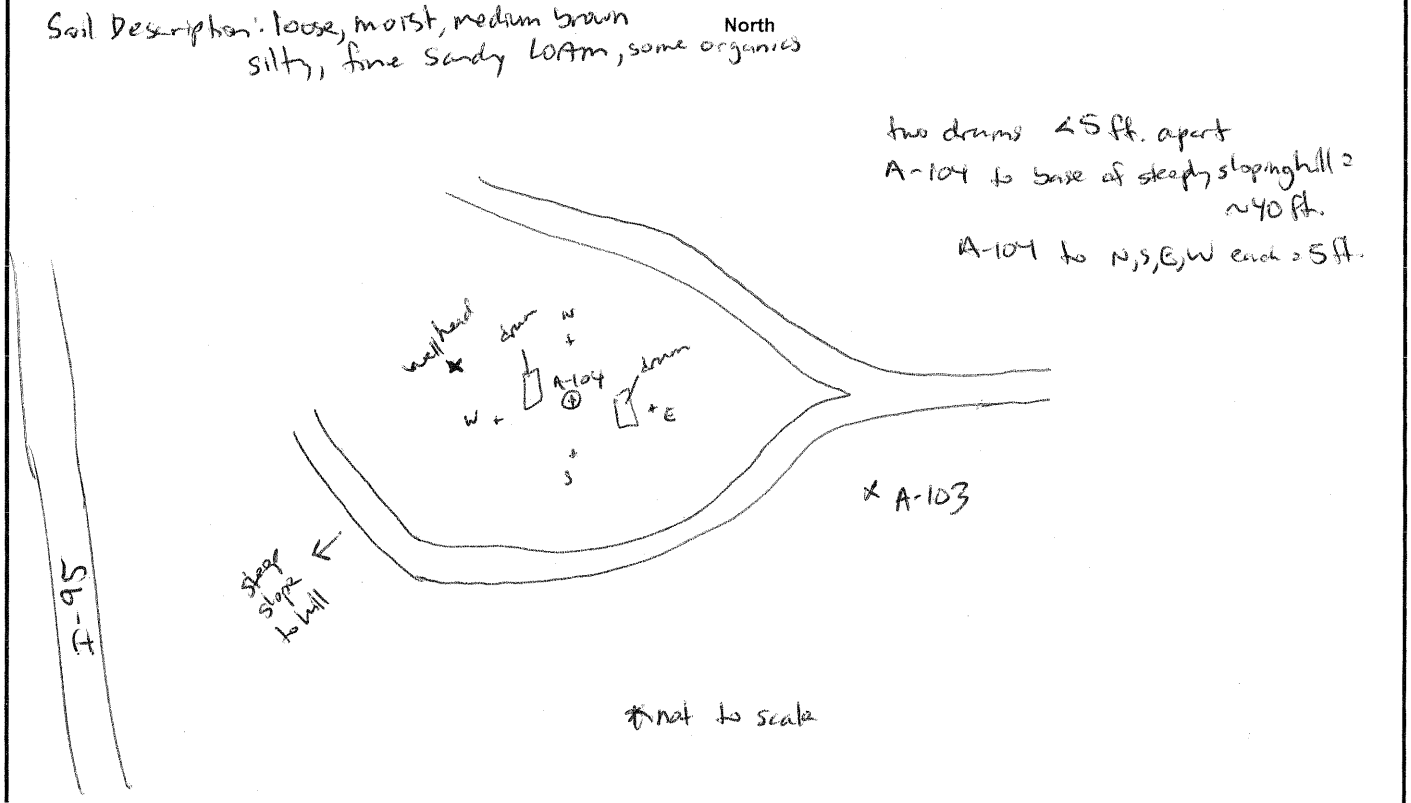
Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

two mostly intact, rusty 55-gal. drums; both have bullet-type holes throughout bottom & both are lying on their sides; located alongside a trail the width of a car, adjacent to A-103 (not an EBCA POI), east of I-95 overpass (I-95 is visible to the west)

Sample ID	~~As~~ Sn (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
A-104	ND<8	46±4	56±12	ND<69	0.07	0.11	ND<2.5	1.137	~~ND<2.3~~ 0.348

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)

Soil Description: loose, moist, medium brown silty, fine sandy LOAM, some organics



XRF readings taken from inside zip-lock bags, not in situ

08-E-T11-SS-G(0-0.25)-(A-107)-02082008
08-E-T11-SS-G-(0-0.25)-(A-107E)-02082008

POI Inspection Form

POI ID: A-107

Sampling Personnel: MM/MF

Date/Time: 2/8/08 15:42

Lat/Long: 39.30414°N
76.52773°W

Calibration Sample: Y (N)

Soil: Brown to dark brown, ~~SAND to~~ sandy to silty CLAY, moist

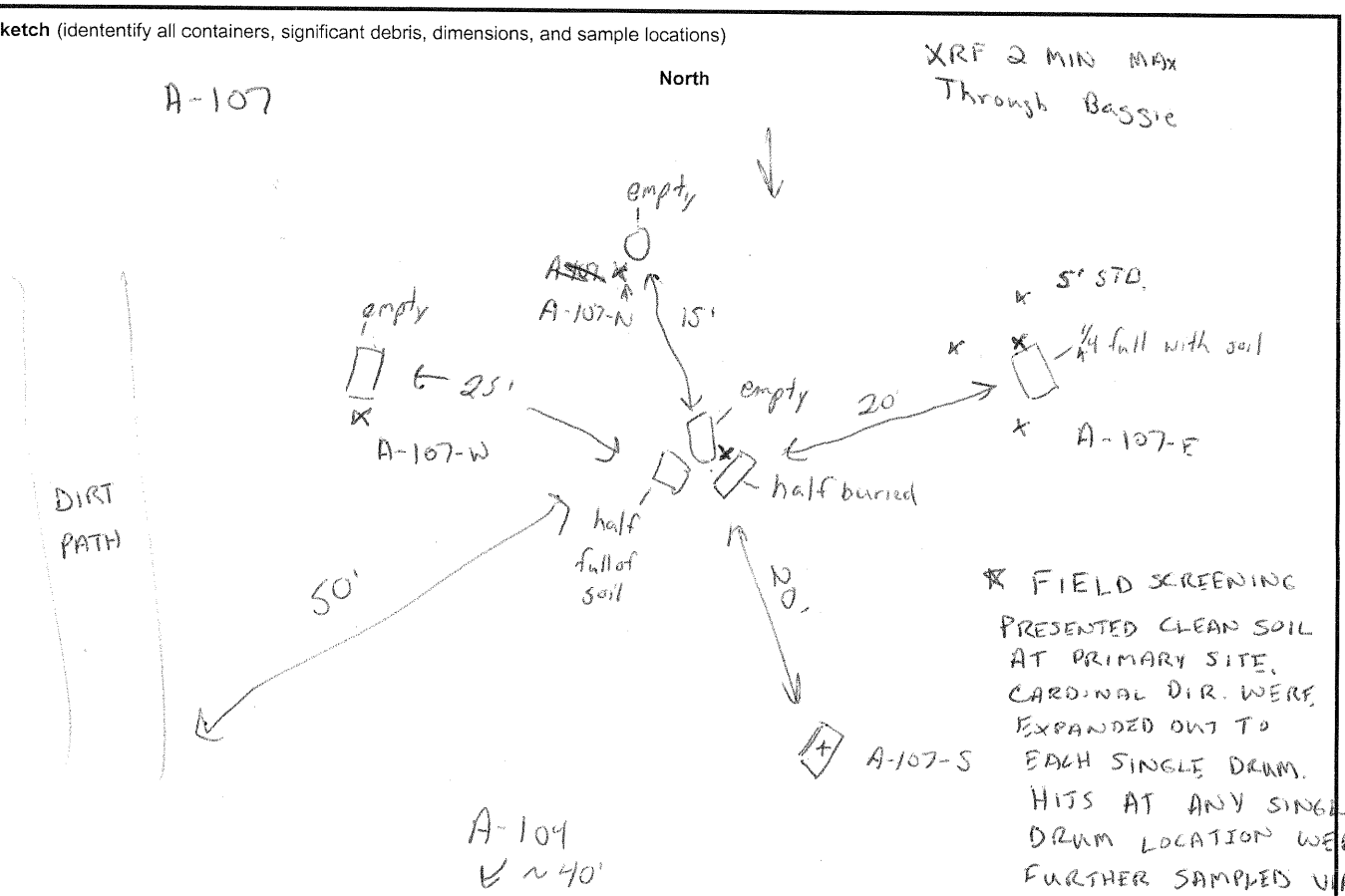
Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

(7) 55-gallon drums, non-intact, some with soil inside, no staining.

Access: 50' from dirt path, light vegetation

Sample ID	Ar (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
A-107	ND<12	191±5	ND<39	120±28	0.04	0.0	ND<2.5	0.529	ND<2.4 (JB)
A-107-N	ND<19	311±8	ND<49	426±45					
A-107-E	ND<41	703±18	ND<73	276±64	0.08	0.0	ND<2.5	0.750	ND<2.4 (JB) 0
A-107-S	ND<17	261±7	59±16	ND<194					
A-107-W	ND<12	200±5	48±13	129±27					
☆ A-107-E-N	ND<39	667±16	ND<72	313±62					
A-107-E-E	ND<40	708±17	76±25	582±77					
A-107-E-S	ND<50	903±22	ND<80	407±76					
A-107-E-W	ND<23	394±10	ND<57	187±43					

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)



☆ FIELD SCREENING PRESENTED CLEAN SOIL AT PRIMARY SITE. CARDINAL DIR. WERE EXPANDED OUT TO EACH SINGLE DRUM. HITS AT ANY SINGLE DRUM LOCATION WERE FURTHER SAMPLED VIA STD PROTOCOL.

POI Inspection Form

POI ID: A-112

Sampling Personnel: MM / MF

Date/Time: 2/8/08 11:20

Lat/Long: 39.30390°N 76.52854°

Calibration Sample: Y (N)

Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

(1) Blue 55-gal plastic drum, bullet holes sand/salt pouring out from opening. Appears Full

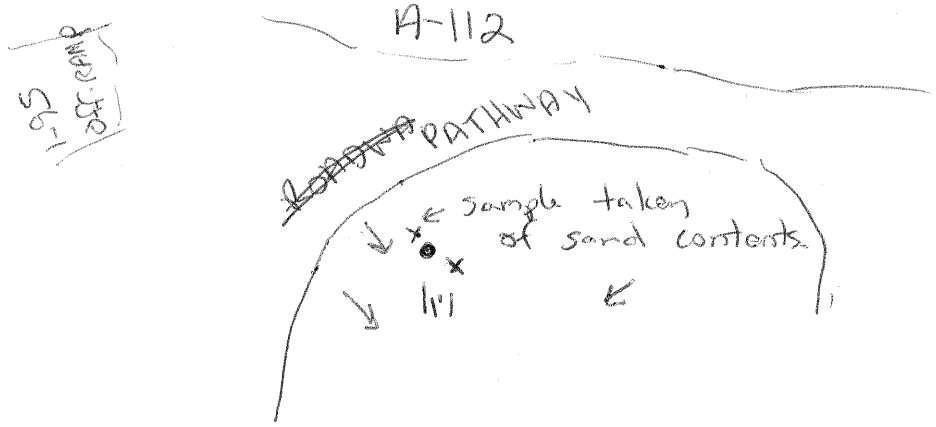
Access: Along Roadway East of Off-RAMP 10' of thick vegetation

Soil: Brown SAND/salt ("Rock Salt")

Sample ID	Ar (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
A-112	ND<7	35±3	ND<42	83±28	0.00	0.00	ND<25	0.963	~~ND<2.10~~
A-112-E	ND<10	125±4	48±13	87±20	← BACKGROUND XRF				
Other Cardinal Directions not ~~at~~ sampled (inaccessible + not a POI)									

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)

North



XRF 2 MIN MAX Through Baggie

~~*~~ Drum anticipated to be a road Sand and salt drum. Content Sample confirms. No further samples taken. Not a POI.

68-E-74-55-G-(0-0.25)-(A-113)-02082008

POI Inspection Form

POI ID: A-113

Sampling Personnel: MM/MF

Date/Time: 2/8/08 11:50

Lat/Long: 39.30421°N 76.52851°W

Calibration Sample: Y (N)

Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

(1) Blue 55-gal drum, non-intact, empty. Drum has been moved by humans. Shooting board attached.

Access: Along Pathway

Sample ID	Ar (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
NO	SAMPLES		TAKEN						

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)

NO SAMPLES TAKEN
DRUM HAS BEEN RELOCATED SINCE RECON. CURRUNT LOCATION WOULD NOT INDICATE AREA OF DISCHARGE.

08-F-K27-SS-G-(0-0.25)-(A-121)-02082008

POI Inspection Form

POI ID: A-121

Sampling Personnel: D. Check, M. Kennedy

Date/Time: 2/8/08 0825

Lat/Long: ~~39.30890°N 76.51613°W~~ (based on note from 2/07) (mk)

Calibration Sample: Y (N)

39.30880°N
76.51616°W

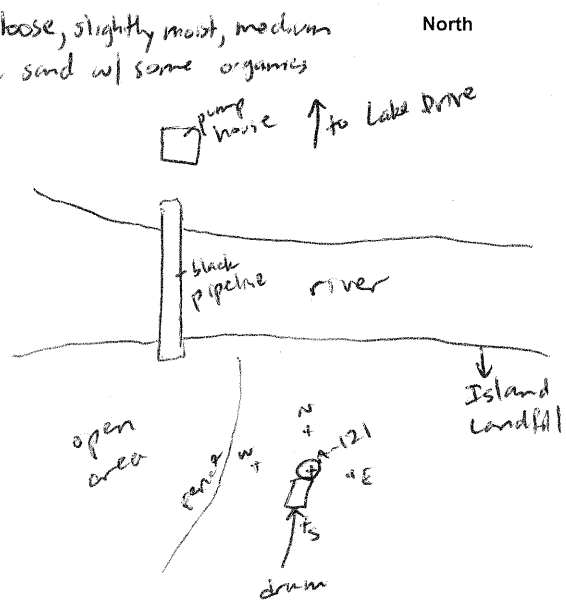
Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

one non-intact, v. corroded 55-gal drum, small amount of soil build-up settled on inside of drum; no visible staining or odors; located on island landfill close to northern shore-line + close to open, cleared area next to pipeline (on other side of chain-link fence)

Sample ID	~~Ar~~ As (ppm) (na)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
A-121	ND<7	72±3	53±12	ND<68	0.0	0.9	6.2	3.024	~~ND<2.4~~ (na)

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)

Soil Description: loose, slightly moist, medium brown fine sand w/ some organics



A-121 to river = ~65 ft.
A-121 to fence = ~50 ft.
A-121 to N, S, E, W each = 5 ft.

not to scale

XRF readings taken from soil inside zip-lock bags, not in situ

68-FL28-SS-G-(0-0.25)-(A-122)-02082008

POI Inspection Form

POI ID: A-122

Sampling Personnel: D. Check, M. Kennedy

Date/Time: 2/8/08 0905

Lat/Long: 39.30824°N 76.51603°W

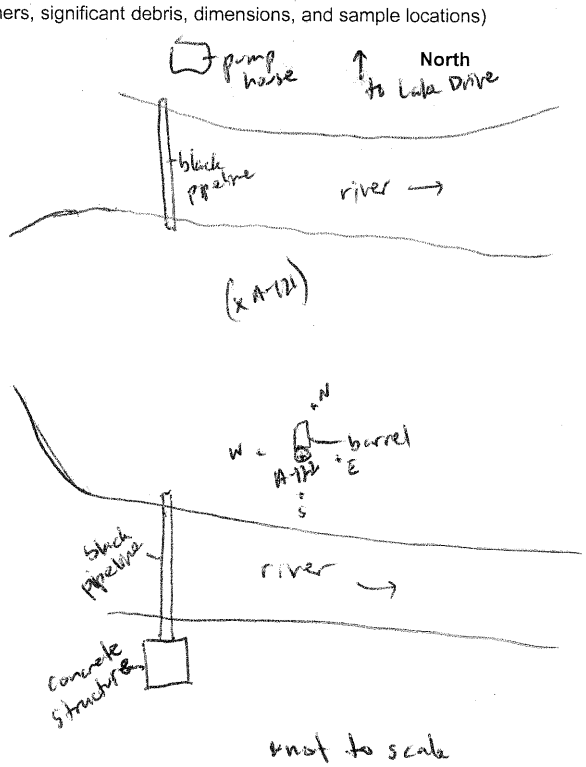
Calibration Sample: Y (N)

Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

one 55-gal blue barrel (plastic), intact except for some cuts/slashes on side; barrel is tipped on its side; contains clear liquid that spills out of one of the cuts when moved w/ foot (~10 gals liquid total inside); "SLK" spray-painted on side; located ~200 ft. south-east of A-121, adjacent to southern bank of island landfill

Sample ID	As (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
A-122	ND<7	96±3	85±11	236±28	0.0	0.35	ND<2.5	0.620	~~ND<2.4~~ 0

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)



A-122 to river bank (south) = <100ft.

A-122 to A-121 = ~200ft.

A-122 to N, S, E, W each = 5ft.

Soil Description: loose, slightly moist, brown silty clay loam, some organics

XRF readings taken from soil inside plastic bags, not in situ

AR100857

68-F-M29-55-G-(0-0.25)-(A-123)-02082008

POI Inspection Form

POI ID: A-123

Sampling Personnel: D. Check, M. Kennedy

Date/Time: 2/8/08 1005

Lat/Long: 39.30797°N 76.51481°W

Calibration Sample: Y (N)

Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

one very partial scrap/remnant of what appears to be a 55-gal drum; part of lid is down slope, main portion is burried in slope; soil is dark but not stained, no odors; located in central portion of island landfill, close to northern bank; ground is fairly wet (located inside wetland area, low-lying)

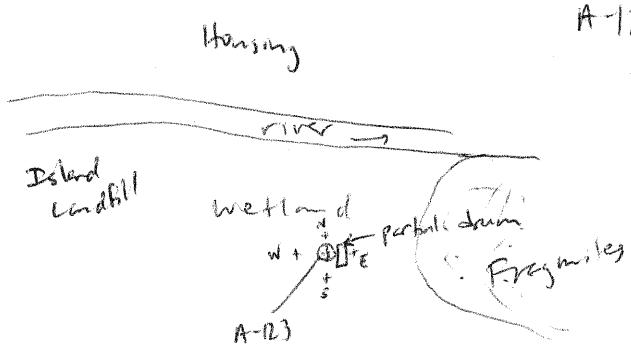
Sample ID	~~As~~ Pb (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
A-123	42 ± 4	202 ± 6	ND < 42	217 ± 41	0.0	0.0	ND < 2.5	1.824	~~ND < 40~~
A-123-N	ND < 8	132 ± 3	74 ± 11	106 ± 23					
A-123-S	79 ± 4	115 ± 4	87 ± 13	252 ± 44					
A-123-E	41 ± 4	237 ± 5	47 ± 12	233 ± 34					
A-123-W	48 ± 4	163 ± 4	75 ± 12	227 ± 37					

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)

Soil Description: loose, wet, dark brown silty, clayey loam, some organics

North

A-123 to river = <100 ft.
A-123 to N, S, E, W each = 5 ft.
A-123 to frag. = 30 ft.



*not to scale

XRF readings taken from soil inside zip-lock bags, not in situ

98-F-M29-SS-B-(0-0.25)-(A-125)-02082008

POI Inspection Form

POI ID: A-125

Sampling Personnel: D. Check, M. Kennedy

Date/Time: 2/8/08 0930

Lat/Long: 39.30772°N 76.51493°W

Calibration Sample: Y (N)

Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

one, mostly intact, rusty metal tank, ~30-40 gals, appears empty; unknown what type of tank ??; no visible staining or odors, sample collected from soil underneath part of tank base that appears broken; located on slope ~~of~~ along southern bank of island landfill, ~30 ft. from river, some fragmites & trees/undergrowth surrounding

Sample ID	As ~~Ar~~ (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
A-125	24±3	96±4	64±13	227±42	0.0	0.63	ND<2.5	2.941	~~ND<2.40~~
A-125-N	9±3	119±4	47±12	ND<81					
A-125-S	61±4	119±4	ND<42	220±44					
A-125-E	11±2	96±3	48±11	ND<76					
A-125-W	15±2	80±3	ND<35	83±26					

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)

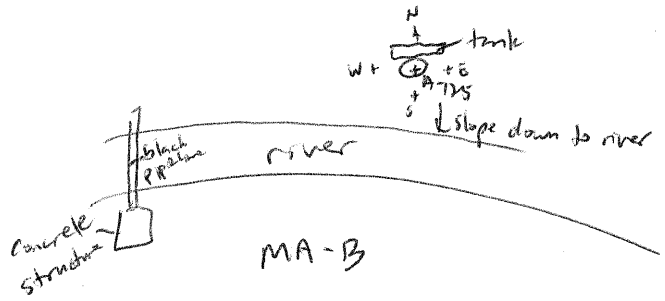
Soil Description: loose, moist, dark brown silty, clayey loam

North

A-125 to river = 30 ft.

A-125 to black pipeline = ~100 yds

A-125 to N, S, E, W each = 5 ft.



not to scale

XRF readings taken from soil inside zip-lock bags, not in situ

28-F-M24-SS-G-(0-0.25)-(A-129)-07082008

POI Inspection Form

POI ID: A-129

Sampling Personnel: M. Kennedy, D. Check

Date/Time: 2/8/08 1240

Lat/Long: 39.30814°N 76.51796°W

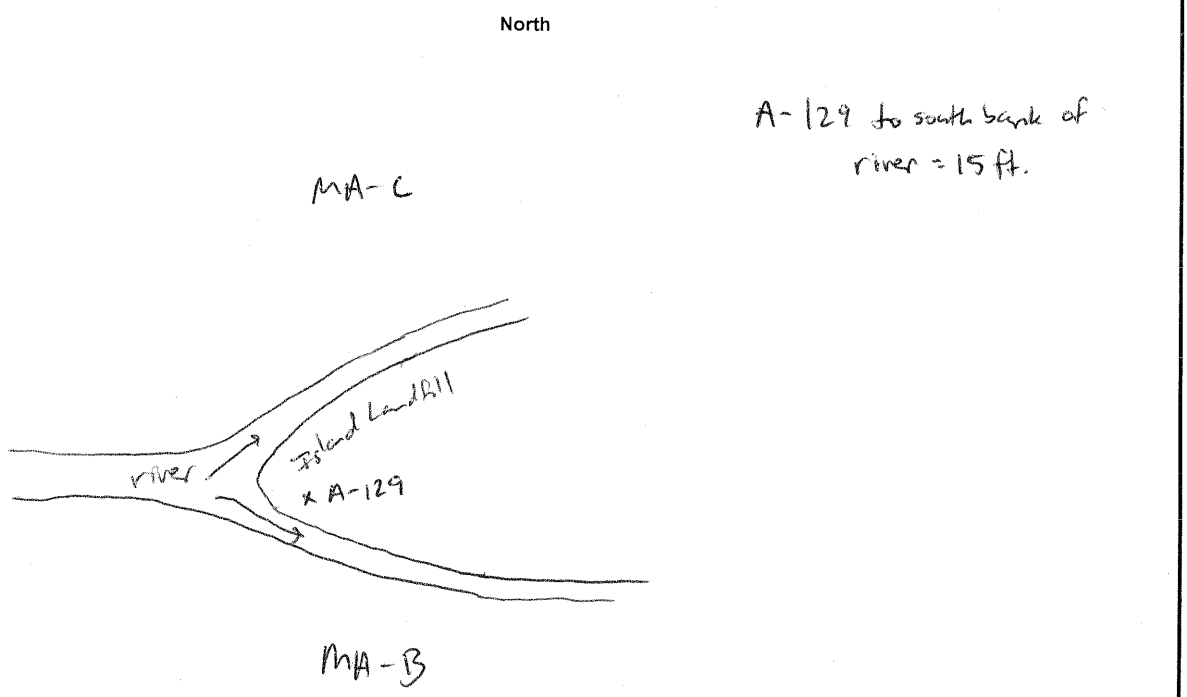
Calibration Sample: Y (N)

Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

no sample collected (not a container, but rather a small piece of rusty scrap metal)

Sample ID	Ar (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
N/A									

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)



68-F-P38-SS-G-(0-0.25)-(A-133-1)-02062008
68-F-P38-SS-G-(0-0.25)-(A-133-2)-02062008

POI Inspection Form

POI ID: A-133

Sampling Personnel: D. Uneck, M. Kennedy

Date/Time: 2/6/08 0930

Lat/Long: A-133-1 39.30630°N 76.50835°W
A-133-2 39.30619°N 76.50823°W

Calibration Sample: Y (N)

Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

two distinct debris piles 45 ft. apart; A-133-1 has 1 intact rusty 55-gal drum + 1 corroded partial drum; A-133-2 has 1 corroded partial drum + 1 other unknown, intact rusty container / tank → v. heavy + impossible to move w/ foot, may have contents?; located @ base of steep slope @ edge of fragmites, may be accessible from southern prop. line, but wooded + marginal undergrowth

Sample ID	As (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
A-133-1	ND<9	182±4	ND<33	267±28	0.0	1.05	ND<2.5	0.831	~~ND<2.1~~ 0.401
A-133-2	14±3	208±5	52±12	334±33	0.21	0	ND<2.5	1.953	~~ND<2.1~~ 0.460
A-133-1-S	ND<9	180±4	ND<34	153±26	0.0	0.0			
A-133-2-N	21±4	363±6	ND<33	333±30					
A-133-2-S	28±5	323±7	48±13	640±53					
A-133-2-E	ND<18	593±8	41±13	491±42					
A-133-2-W	7±2	111±3	ND<31	143±23					

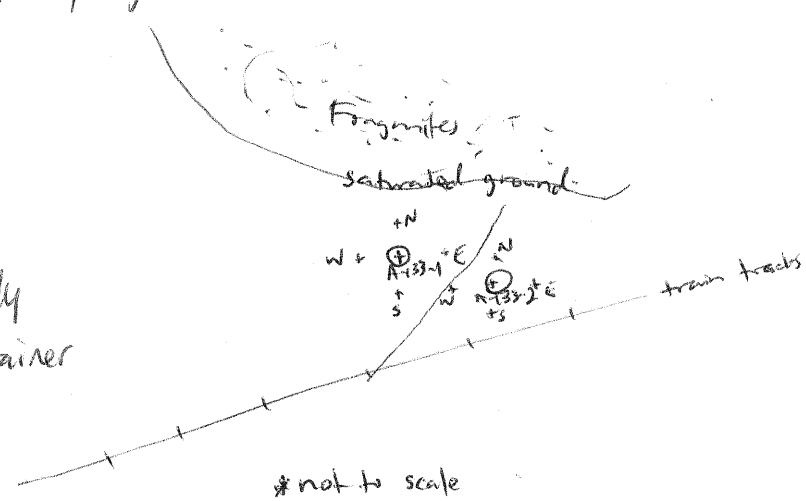
Site sketch (idententify all containers, significant debris, dimensions, and sample locations)

Soil Descriptions:

A-133-1 loose, slightly moist, dark brown, fine sandy LOAM, high organics

A-133-2 loose, slightly moist, dark brown, fine sandy loam w/ high organics

A-133 to train tracks = 50 yds
A-133 to fragmites = 20 ft.
A-133-1 + -2 to each N, S, E, W = 5 ft.



A-133-2 E is located directly downgradient of unknown container / tank.

XRF readings taken from soil inside zip-lock bags, not in situ

08-F-P37-SS-G-(0-0.25)-(A140)-02062008

POI Inspection Form

POI ID: A-140

Sampling Personnel: D. Check, M. Kennedy

Date/Time: 2/6/08 1045

Lat/Long: 39.306266°N 76.50892°W

Calibration Sample: (Y) N

Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

one rusty, intact 55-gal. drum on its side; caps removed from lid (open holes), appears to be partially filled w/ soil; original sample + calibration sample collected from underneath opening in lid; no obvious staining or odors; located @ base of steep slope, next to area of fragments/saturated ground; may be accessible from southern edge of site

Sample ID	~~Mg~~ Mn (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
A-140	ND<6	71±3	ND<34	184±25	0.2	0.0	ND<2.5	0.050	~~ND<2.40~~

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)

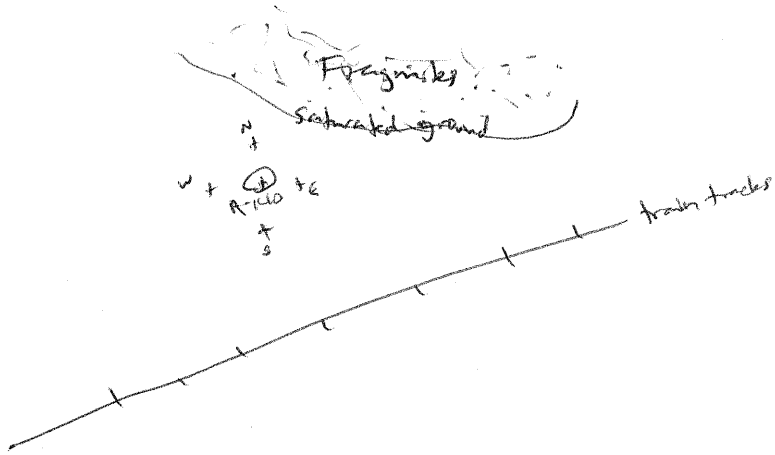
Soil Description: loose, moist, medium brown fine sandy loam, high organics

North

A-140 to Frag. = 20 ft.

A-140 to train tracks = ~150 yds

A-140 to N, S, E, W each = 5 ft.



* not to scale

XRF readings taken from soil inside zip-lock bags, not in situ

U8-F-P38-SS-G-(0-0.25)-(A-141)-02062008

POI Inspection Form

POI ID: A-141

Sampling Personnel: D. Check, M. Kennedy

Date/Time: 2/6/08 1130

Lat/Long: 39.30608°N 74.50920°W

Calibration Sample: Y (N)

Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

*not sampled

- consists of tires + old appliances / scrap metal

Sample ID	~~As~~ Mn (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
N/A									

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)

North

*see POI inspection form for A-140 for approximate location sketch

(A-141 is ~100 ft. west of A-140)

08-F-P36-SS-G-(0-0.25)-(A-142)-02062008

POI Inspection Form

POI ID: A-142

Sampling Personnel: O. Check, M. Kennedy

Date/Time: 2/6/08 1145

Lat/Long: 39.30619°N 76.50961°W

Calibration Sample: Y (N)

Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

one 55-gal. drum, partially corroded, (empty) painted yellow w/ blue writing "Perolin", "Boiler Treatment, 107 SD" (writing difficult to make out); no visible staining or odors; located ~50 yds west of A-141, amongst lots of other large debris + metal; similar accessibility to A-141, A-140

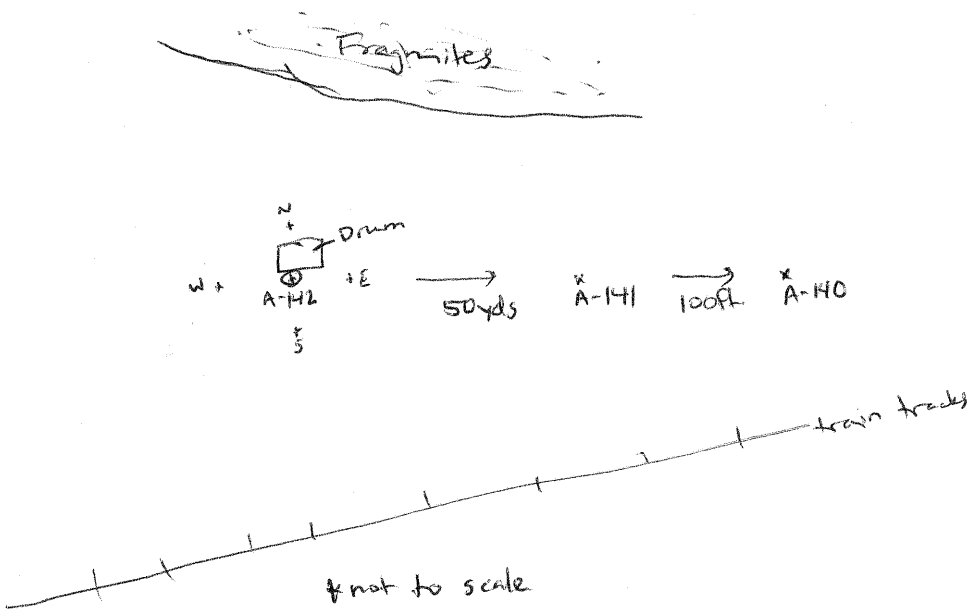
Sample ID	As (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
A-142	ND<11	285±5	39±12	161±27	0.0	0.0	ND<2.5	1.6±2	~~ND<2.5~~
A-142-N	13±3	276±5	ND<34	216±26					
A-142-S	12±4	257±5	ND<34	150±25					
A-142-E	11±4	255±5	ND<34	160±25					
A-142-W	13±4	312±6	ND<35	157±26					

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)

Soil Description: loose, slightly moist, dark brown fine Sandy LOAM, high organics

North

A-142 to Frag. = 50 ft.
A-142 to train tracks = ~150 yds
A-142 to N,S,E,W each = 5 ft.



XRF readings taken from soil inside 2ziplock bags, not in situ

8-F-034-SS-G-(0-0.25)-(A-146)-02062008

POI Inspection Form

POI ID: A-146

Sampling Personnel: D. Check, M. Kennedy

Date/Time: 2/6/08 1300

Lat/Long: 39.30665°N 76.51138°W

Calibration Sample: Y (N)

Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

one ~10gal. fuel can, half buried, appears mostly empty when kicked (sounds hollow); no visible staining or odors, "spout" is open (collect primary soil sample from underneath the spout), located @ base of small hill, almost into fragmites; soil is wet

Sample ID	As (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
A-146	ND<8	162±4	ND<31	ND<63	0.0	0.0	ND<2.5	0.7	~~ND<2.4~~ 8.07

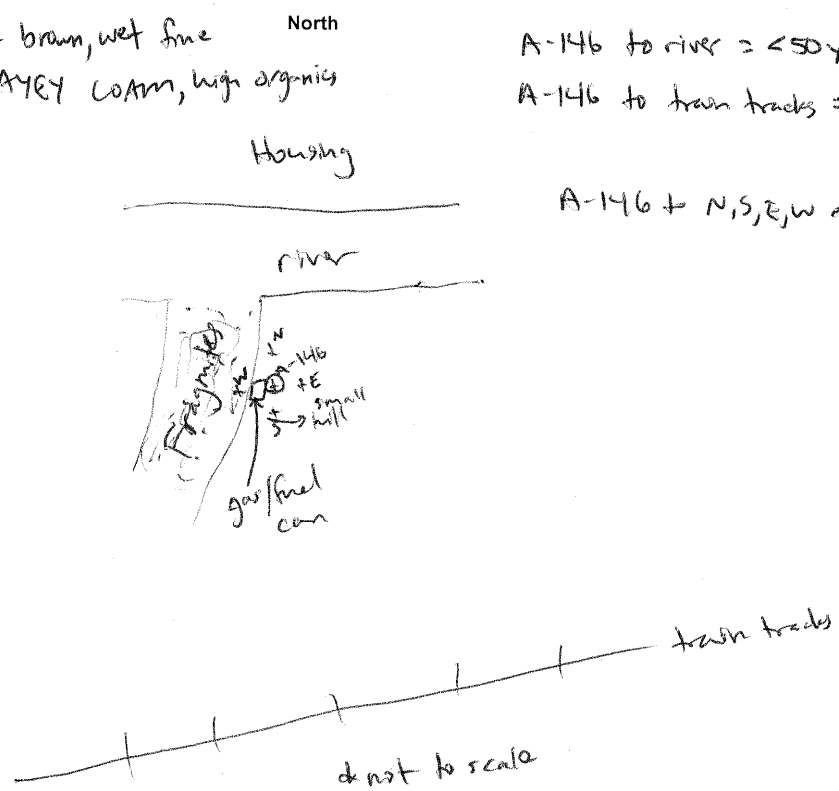
Site sketch (idententify all containers, significant debris, dimensions, and sample locations)

Soil Description: loose, dark brown, wet fine Sandy, CLAYEY LOAM, high organics

A-146 to river = <50 yds

A-146 to train tracks = ~200 yds (or more?)

A-146 to N, S, E, W each = 5 ft.



XRF readings taken from soil inside zip-lock bags, not in situ

68-A-Q34-SS-G-(0-0.25)-(A-154)-02052008

POI Inspection Form

POI ID: A-154

Sampling Personnel: D. Check, M. Kennedy

Date/Time: 2/5/08 1400

Lat/Long: 39.30568°N 76.51009°W

Calibration Sample: Y (N)

Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

one large ~~(~2ft.)~~ (~24" x 8") battery, much of outer casing is broken/cracked; no obvious staining or odors; POI is readily accessible from the southern access road ~50 yds away (although some small trees/saplings are in the way)

~~Earth brown silty sand w/ high ...~~

Sample ID	~~Ar~~ As (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
A-154	51±11	2603±18	97±11	282±27	4.3	3.5	~~ND<2.5~~ ~~0.2nd~~	0.1.054	~~<2.4~~ 0
A-154 N	15±4	360±5	56±11	208±23					
A-154E	ND<11	252±5	57±11	227±26					
A-154 S	ND<16	585±7	36±12	186±25					
A-154 W	ND<10	238±5	60±11	124±22					

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)

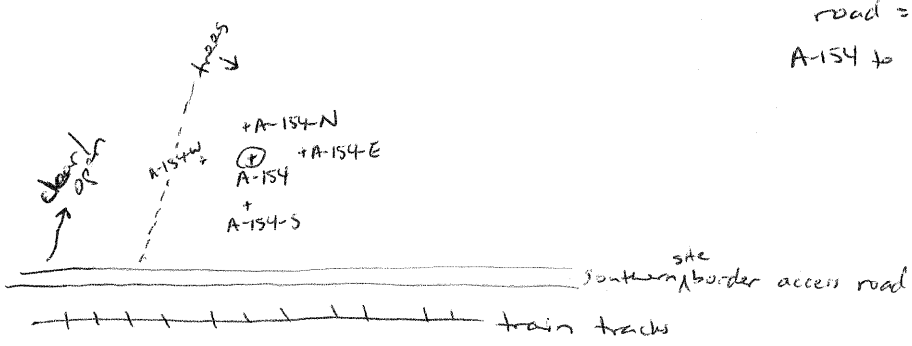
North

Soil Description: A-154 loose, moist, brown fine sandy loam, high organics

A-154-N loose, wet, light brown sandy clay loam (north point is down-slope)

A-154 to access road = 50yds

A-154 to N,S,E,W each = 5 ft.



*not to scale

XRF readings taken from inside zip-lock bags, not in situ

AR100866

08-A-R33-SS-G-(0-0.25)-(A-164-1)-02052008
08-A-R33-SS-G-(0-0.25)-(A-164-2)-02052008

POI Inspection Form

POI ID: A-164 (2 soil samples collected)

Sampling Personnel: D. Check, M. Kennedy

Date/Time: 2/5/08 1530

Lat/Long: A-164-1 39.30542°N 76.51184°W
A-164-2 39.30538°N 76.51185°W

Calibration Sample: Y (N)

Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

2 rusty drums, 1 is corroded through; both lying on side w/ soil partially filling each; samples from both collected from soil at mouth/opening; no visible staining or odors; located @ edge of section of fragmites, at base of a slope; area is completely overgrown (worst vines/prickers on the site), inaccessible to vehicles, v. difficult to get to on foot

Sample ID	As ~~Ar~~ (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
A-164-1	ND<6	63±3	77±11	113±24	0.0	0.0	ND PLUS ~~0.044~~	0.252	~~<2.4~~ 0
A-164-2	7±2	82±3	73±12	421±32	0.0	0.25	ND PLUS ~~0.044~~	3.647	~~<2.4~~ 0

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)

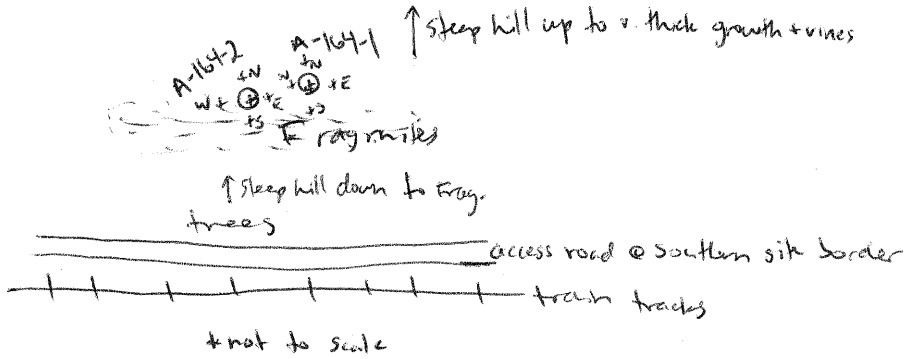
Soil description: A-164-1 loose, moist, ~~fine~~ brown sandy loam
A-164-2 SAA

North

A-164-1 to A-164-2 = 23 ft.

all N,S,E,W samples are 5 ft. from original sample

A-164 to train tracks = <100 yds



XRF readings collected from soil in zip-lock bags, not in situ

08-F-E26-SS-G-(0-0.25)-(B-1)-02052008

POI Inspection Form

POI ID: B-1

Sampling Personnel: MM/MF

Date/Time: 2/5/08 13:50

Lat/Long: 39.31195°N 76.51649°W

Calibration Sample: (Y) N

Moisture: moist

Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

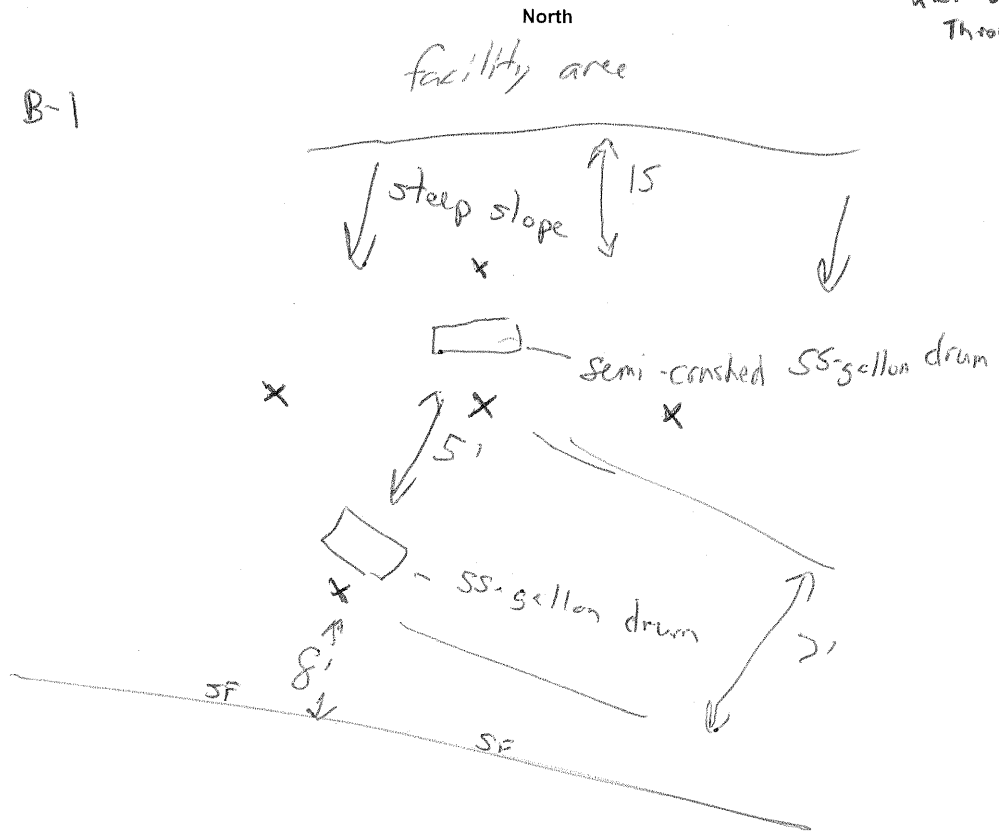
(2) 55-gallon drums - partially crushed, no contents
scrap metal one is intact except for valve opening - ~~and~~ empty

Access. Medium difficulty, ~~either~~
15' ~~feet~~ down from facility area
medium vegetation at POI

	Sample ID	Ar (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
LAY	B-1	ND<30	511±12	ND<62	611±59	0.20	1.00	ND<2.5	0.669	~~ND<2.4~~
LTY	B-1-N	ND<30	512±13	ND<65	304±52					
"	B-1-E	ND<35	621±16	ND<69	216±53					
MDY	B-1-S	ND<27	459±11	ND<59	179±79					
LTY	B-1-W	ND<23	397±10	ND<56	384±38					

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)

XRF 2 min MAX Through Baggie



W8-F-G27-55-G-(0-0.25)-(B-7-1)-02052008
W8-F-G27-55-G-(0-0.25)-(B-7-2)-02052008

POI Inspection Form

POI ID: B-7

Sampling Personnel: MM/MF

Date/Time: 2/5/08 10:45

Lat/Long: (1) 39.31157°N ±30, 76.51652°W
(2) 39.31159°N, 76.51663°W ±20

Calibration Sample: Y (N)

Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

(1) → (4) 55-gallon drums - 2 potentially intact (full or 2/2 with solid?) one labeled "UN 1203" Flammable "Gold Enamel"
(2) 500-gallon USTs - potentially intact one is 1/3 full of solid?
(1) diesel gas tank from truck remnants
~~varies~~ various metal/tire ~~[illegible]~~ debris
continue on back →

slightly moist

likely non-intact
(1) Partially buried 250-gal UST
(1) Beetle CAR

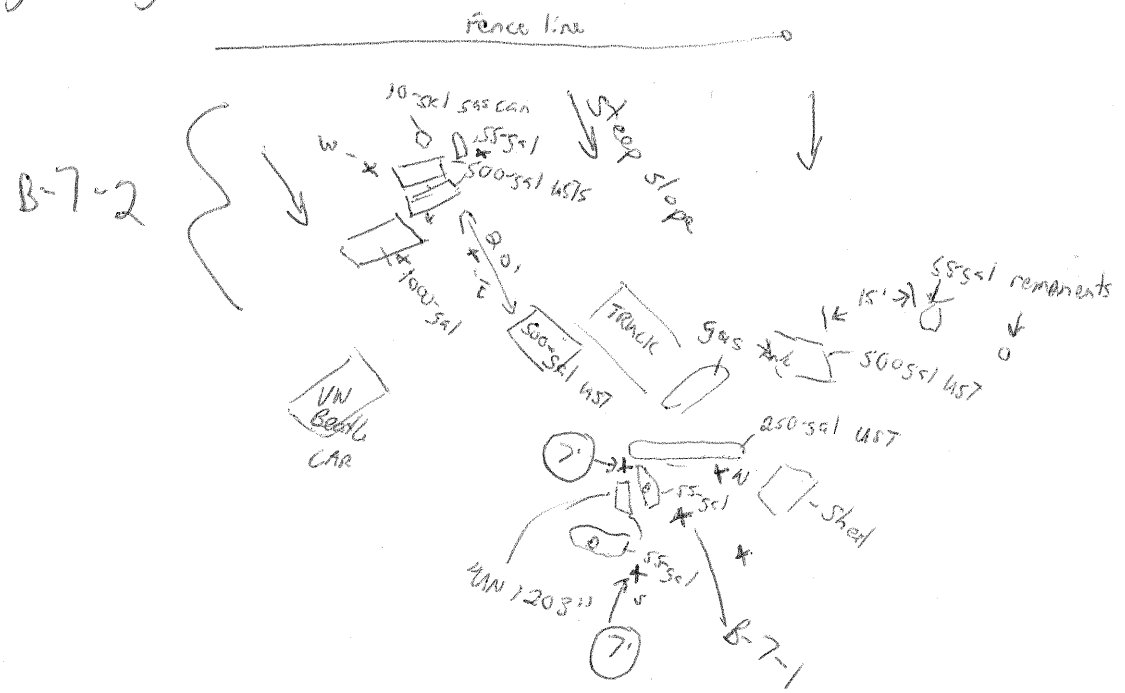
Sample ID	Ar (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
B-7-1	ND<27	456±11	ND<58	192±53	0.10	5.0	ND<2.5	0.485	~~ND<2.4~~
B-7-1-N	40±9	403±10	ND<59	299±57					
B-7-1-E	ND<30	521±13	ND<65	264±55					
B-7-1-S	ND<25	424±20	ND<57	ND<131					
B-7-1-W	ND<34	582±14	ND<67	ND<214					
B-7-2	ND<12	61±5	ND<60	135±44	0.17	3.0	ND<2.5	0.203	~~ND<2.4~~
B-7-2-N	ND<25	392±10	ND<60	214±51					
B-7-2-E	ND<26	433±11	ND<58	155±46					
B-7-2-S	ND<19	317±8	ND<51	ND<96					
B-7-2-W	ND<31	540±13	ND<66	273±62					

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)

Soil
B-7-1: dk. brown sandy loam
B-7-2: orange clay

North

XRF 2 min max
Through Baggie



Area 1 is about 10' x 10' square of drums/USTs

AR100869

08-F-128-SS-G-(0-0.25)-(B-14)-02052008

POI Inspection Form

POI ID: B-14

Sampling Personnel: MM/MF

Date/Time: 15:40 2/5/08

Lat/Long: 39.30966°N 76.51550°W

Calibration Sample: Y (N)

Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

(1) 55-gallon drum corroded-non-intact, ~~A~~ empty
Conc slabs.

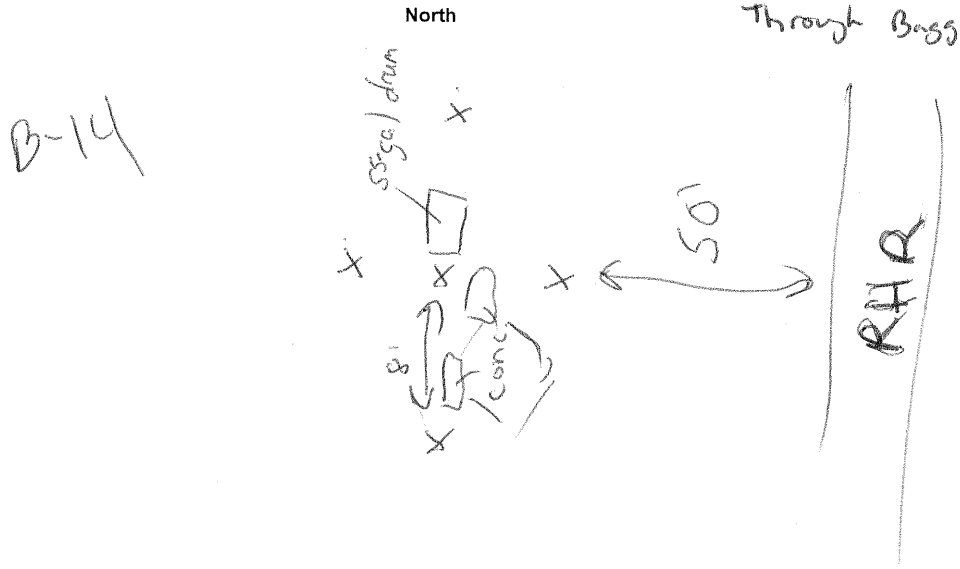
Access: very thick vegetation, 50' from ~~fire~~ RHR bank

Soil: Dark brown majority moist sand few silty

Sample ID	Ar (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
B-14	ND<14	107±6	ND<59	ND<135	0.12	7.0	ND<2.5	0.572	~~ND<24~~ 0.32
B-14-N	11±3	39±4	ND<54	ND<115					
B-14-E	ND<21	273±9	ND<59	258±49					
B-14-S	17±5	119±6	ND<59	219±53					
B-14-W	ND<13	94±5	ND<55	ND<115					

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)

XRF 2 MIN MAX Through Baggie



68-F-K28-SS-G-(0-0.25)-(B-16)-02052008

POI Inspection Form

POI ID: B-16

Sampling Personnel: MM/MF

Date/Time: 15:15 2/5/08

Lat/Long: 39.30915°N 76.51511°W

Calibration Sample: Y (N)

Brown, sandy, wet

Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

(3) 55-gal Drums, corroded, non-intact, no contents
Numerous tires within pond area

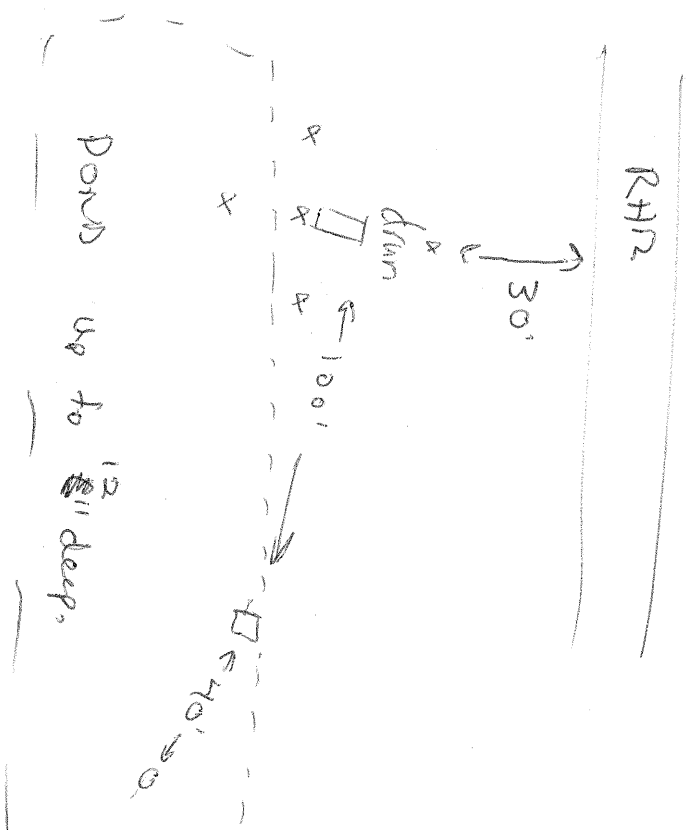
Large pond area
~500 feet from facility to SE
Access through medium vegetation

Sample ID	Ar (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
B-16	ND<10	59±4	ND<53	ND<109	0.03	0.00	ND<2.5	0.268	~~ND<0.1~~ 0
B-16-N									
B-16-E									
B-16-W									
B-16-S									

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)

XRF 2 MIN MAX Through Baggie

North



08-F-J27-SS-G-(0-0.25)-(B-18-1)-02052008
05-F-J27-SS-G-(0-0.25)-(B-18-2)-02052008

POI Inspection Form

POI ID: B-18 (1+2)

Sampling Personnel: MM/MF

Date/Time: 2/5/08 16:20

Lat/Long: ① 39.30964°N 76.51635°W

Calibration Sample: Y (N)

② 39.30958 76.51606

Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

① (i) 55-gallon drum, non-intact, empty
(ii) 30-gallon drum, " , "
30' from facility, light vegetation

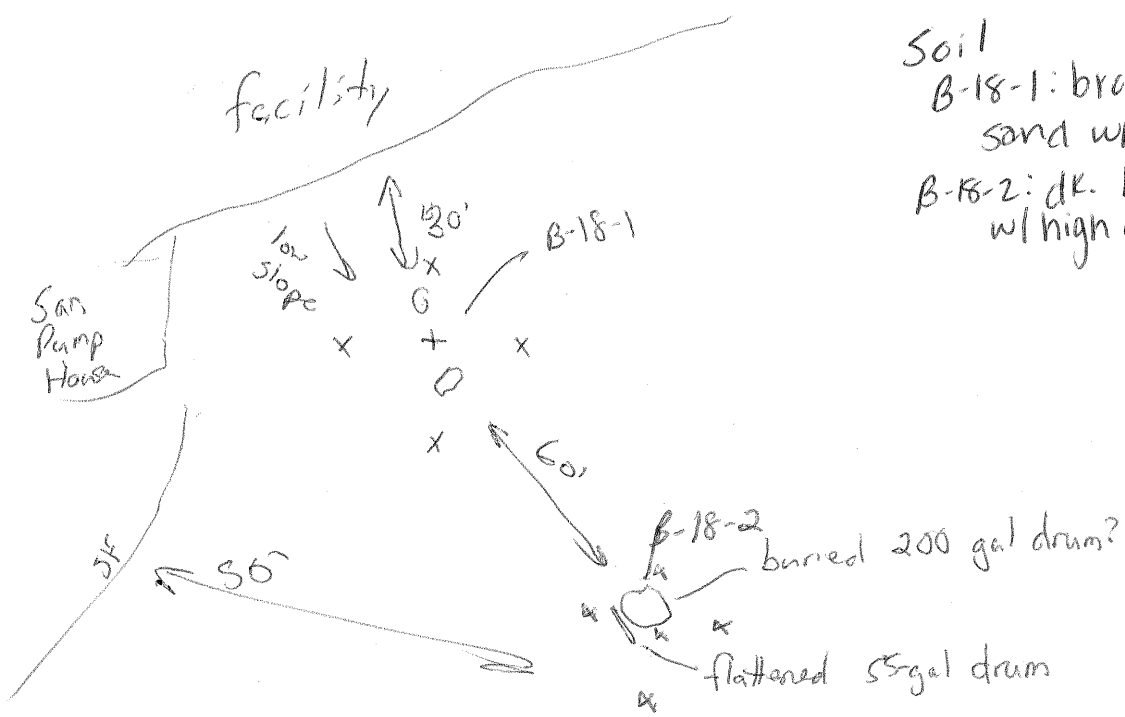
② (i) flattened 55-gal drum, non-intact, empty
(ii) 200-gal drum?, buried in soil
Access 50' from pump house, light vegetation

Sample ID	Ar (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
B-18-1	ND<18	182±7	ND<61	ND<122	0.12	3.0	ND<2.5	3.459	~~ND<2.4~~
B-18-1-~~N~~E	ND<16	140±6	ND<59	ND<118					
B-18-1-~~E~~N	ND<23	319±9	ND<58	ND<150					
B-18-1-S	ND<19	226±8	ND<61	ND<126					
B-18-1-W	ND<17	189±7	ND<59	ND<118					
B-18-2	ND<13	217±5	ND<41	132±33	0.20	5.0	ND<2.5	5.980	~~ND<2.4~~
B-18-2-N	ND<17	283±7	ND<48	175±40					
B-18-2-E	ND<12	194±5	ND<38	ND<75					
B-18-2-W	ND<14	226±6	43±14	185±34					
B-18-2-S	ND<10	188±4	39±13	139±28					

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)

North

XRF 2 MIN MAX THROUGH BAGGIE



Soil
B-18-1: brown silty sand w/ some organics
B-18-2: dk. brown loam w/ high organics

08-F-G27-SS-G-(0-0.25)-(B-19)-02052008

POI Inspection Form

POI ID: B-19

Sampling Personnel: MM/MF

Date/Time: 2/5/08 13:43

Lat/Long:

Calibration Sample: Y N

Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

POI removed by human interaction during development of the facility within ~~Source G~~ Source C

POI was "trash pile" at facility

Sample ID	Ar (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)

North

08-F-J22-SS-G-(0-0.25)-(B-25)-02042008

POI Inspection Form

POI ID: B-25

Sampling Personnel: MM+MF

Date/Time: 10:00 2/04/08

Lat/Long: 39.30977 N
76.51985 W

Calibration Sample: Y N

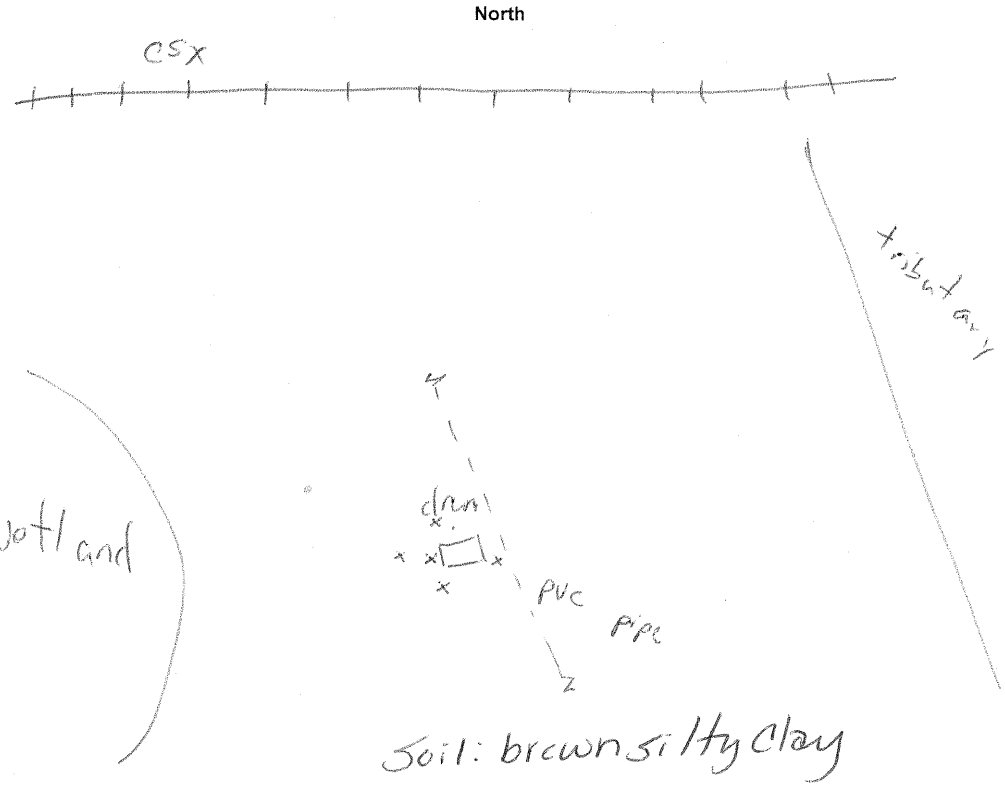
As - 10 ppm

Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

(1) Non-intact drum, run of pvc pipe 3" DIA no contents in drum, no soil staining. Access: 300 M from CSX rail line, 200ft from tributary, 50 feet from fragmites edge

Sample ID	~~Af~~ As (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
B-25	<21	131 +/- 9	<79	<170	0.00	4.0	ND<2.5	1.032	~~ND<2.4~~ 0.031
B-25-N	<14	151 +/- 6	<48	<94					
B-25-E	<20	298 +/- 8	<56	241 +/- 45					
B-25-S	<10	86 +/- 4	<43	<79					
B-25-W	<15	125 +/- 6	<59	<113					

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)



68-F-K22-SS-G-(0-0.25)-(B-29)-02042008

POI Inspection Form

POI ID: B-29

Sampling Personnel: MM/MF

Date/Time: 2/4/08 11:07 AM

Lat/Long: 39.30930°N 76.51935°W

Calibration Sample: Y (N)

Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

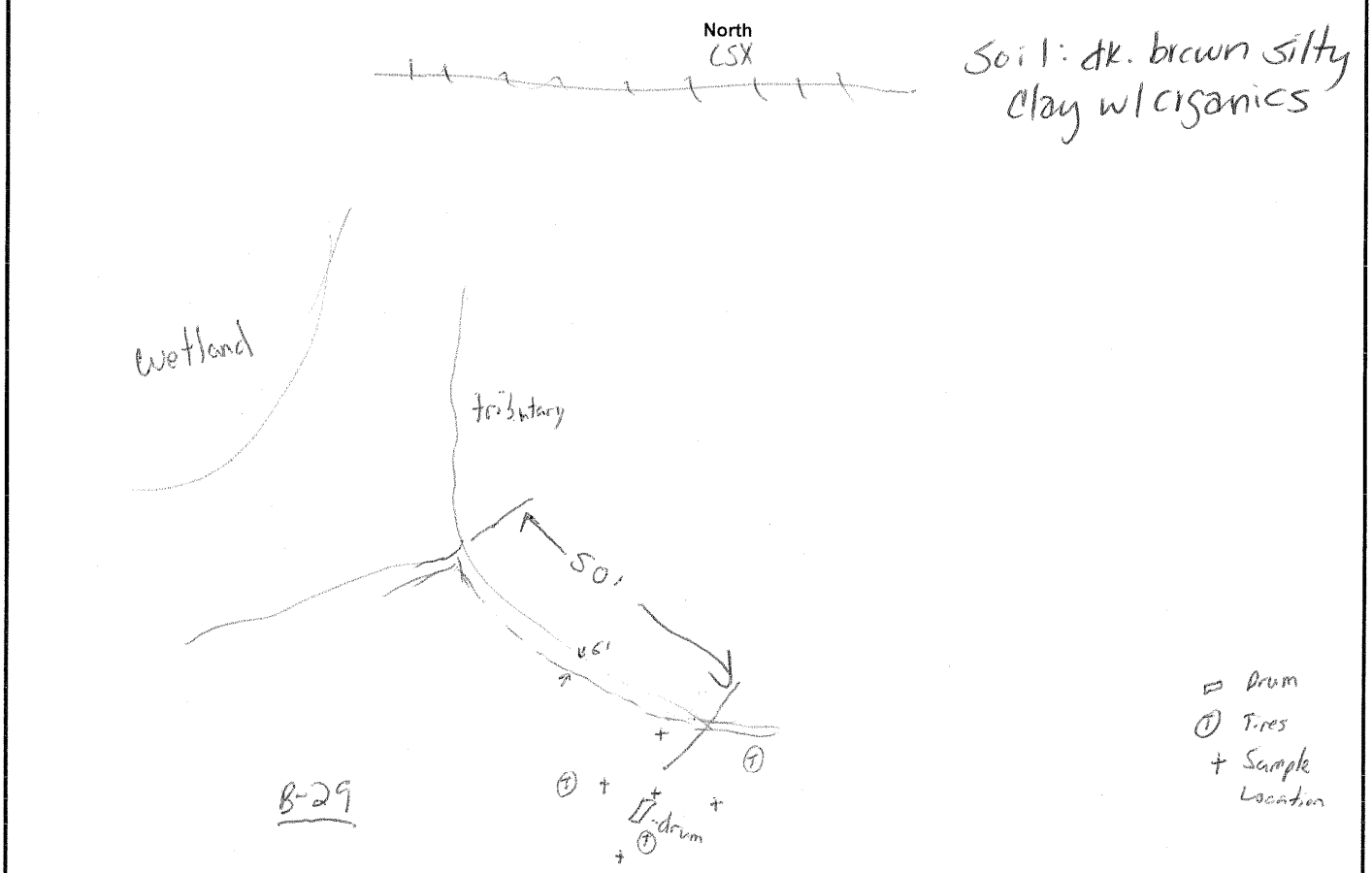
non-intact drum. no contents no soil staining multiply tires (5-7), plastic matting, broken glass.

Access. follow tributary south through dense fragmites (700'), accross tributary 1' deep.

500 meters from CSX

Sample ID	~~Ar~~ (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
B-29	ND <41	576±17	ND<77	ND <224	0.04	3.0	ND<7.5	3361	~~ND<7.4~~
B-29-N	ND<14	172±6	ND<50	189±36					
B-29-~~S~~W	ND<47	748±20	ND<82	317±88					
B-29-E	ND<71	1566±33	ND<85	ND<285					
B-29-~~W~~S	ND<53	929±23	ND<82	ND<261					

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)



AR100875

LG-F-L23-SS-G-(0-0.25)-(B-33)-02042008

POI Inspection Form

POI ID	B-33
Sampling Personnel	MM/MF
Date/Time	14:55 02/4/08
Lat/Long	39.30840°N
	76.51840°W +/- 30'
Calibration Sample:	Y N

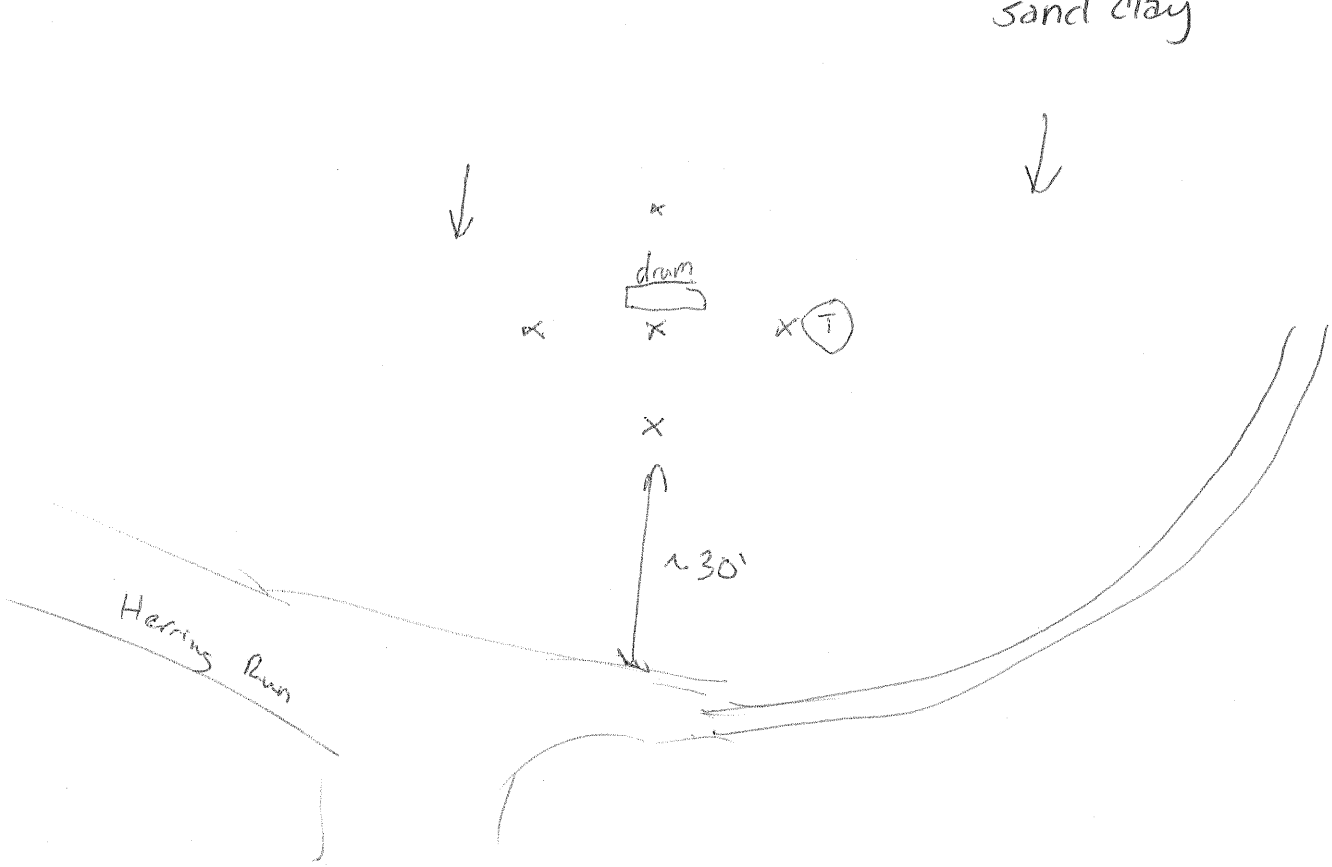
Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

(1) drum remain, partially buried, no content/soil staining
2 tires, bottles, misc general debris

Access: thick vegetation, best route north from tributary or along tributary bank. 30 feet from tributary

Sample ID	Ar (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
B-33	ND<32	535±13	ND<64	374±62	0.04	0.0	ND<2.5	0.44 S	~~ND<2.4~~ 0
B-33-N	20±4	63±5	ND<57	ND<112					
B-33-W	ND<29	212±10	ND<77	ND<198					
B-33-S	57±7	157±7	ND<62	ND<198					
B-33-E	24±5	110±6	ND<60	141±46					

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)



68-F-K23-SS-G-(0-0.25)-(B-31)-02042008

POI Inspection Form

POI ID: B-31

Sampling Personnel: MM / MF

Date/Time: 2/4/08

Lat/Long: 39.30899°N +/- 16'
76.51837°W

Calibration Sample: Y N

Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

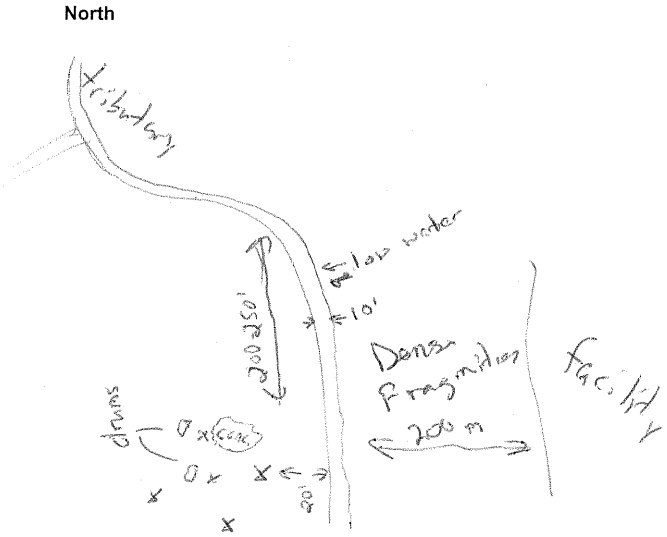
(2) Corrodor, crushed drums (partially buried)
Various rubbing matting, tires, and misc debris

Access: Along tributary bordering Source C facility
Facility in view (approx 200'm) to east.
Significant veget for access

Sample ID	Ar (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
B-31	ND<28	443 ±11	ND<60	239±62	0.18	+2.64	ND<2.5	1.259	~~ND<2.4~~ 0 JL
B-31-N	301 ±54	6974 ±101	ND<93	454 ±112					
B-31-W	65 ± 9	395 ±10	ND<60	ND<171					
B-31-S	ND<21	272 ±9	ND<59	245 ±51					
B-31-E	ND<27	406 ±11	ND<62	304±61					
B-31-N2	178 ±59	6585 ±110	ND<108	ND<323					

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)

B-31



AR100877

POI Inspection Form

POI ID: B-33

Sampling Personnel: MM/MF

Date/Time: 14:55 02/4/08

Lat/Long: 39.30840°N
76.51890°W +/- 30'

Calibration Sample: Y N

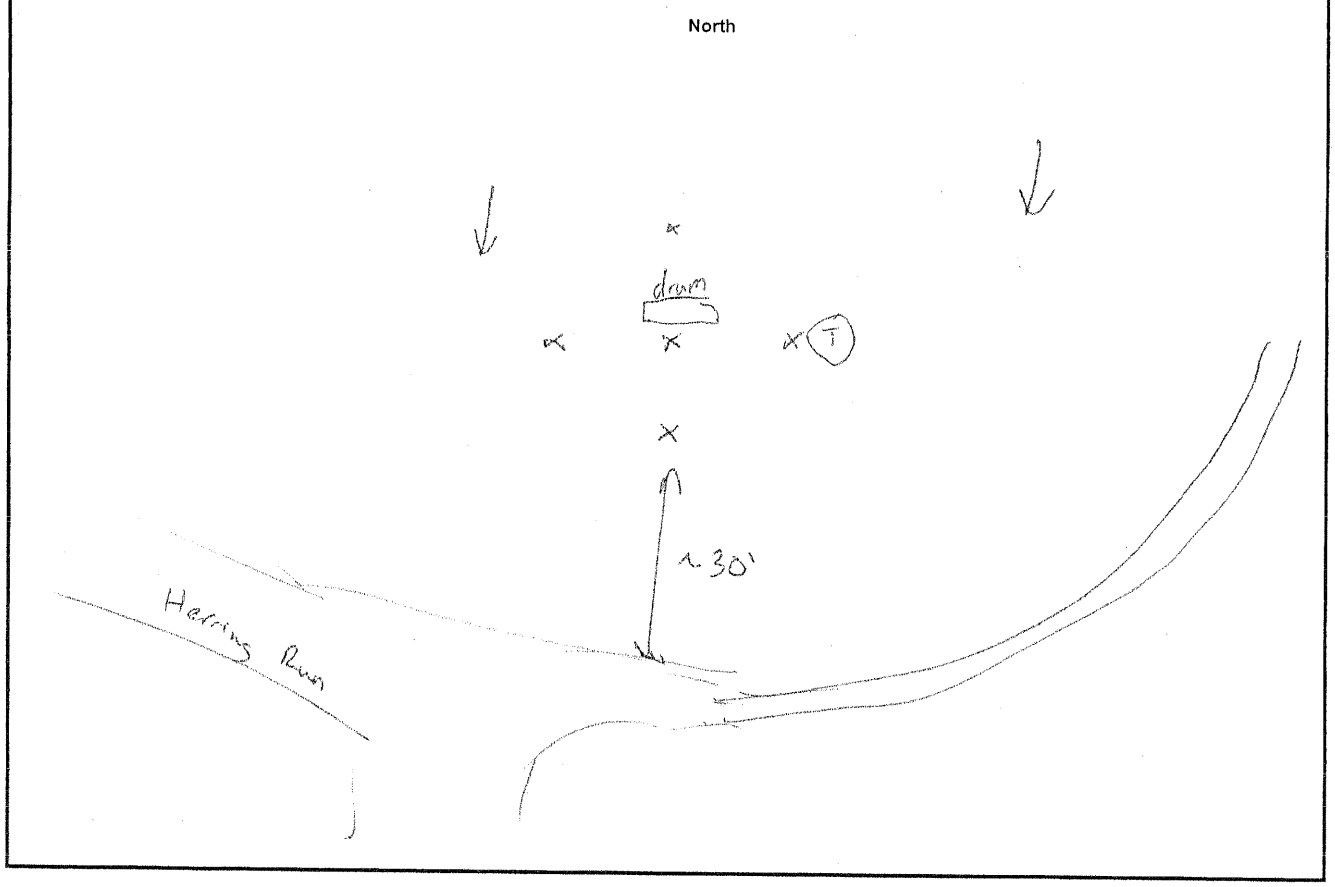
Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

(1) drum remain, partially buried, no contents/soil staining
2 tires, bottles, trash, general debris

Access: thick vegetation, best route north from tributary or along tributary bank 30 feet from tributary

Sample ID	Ar (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
B-33	ND<32	535 ± 13	ND<64	374 ± 62	0.04	0.0	ND<2.5	0.445	0
B-33-N	20 ± 4	63 ± 5	ND<57	ND<112					
B-33-W	ND<29	212 ± 10	ND<77	ND<198					
B-33-S	57 ± 7	157 ± 7	ND<62	ND<198					
B-33-E	24 ± 5	110 ± 6	ND<60	141 ± 46					

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)



U6-F-L23-SS-G-(0-0.25)-(B-36)-02042008
U6-F-L23-SS-G-(0-0.25)-(B-36-2)-02042008

POI Inspection Form

POI ID: B-36

Sampling Personnel: MM / MF

Date/Time: 16:16 2/4/08

Lat/Long: (1) 39.30830°N 076.51893°W ±16'

Calibration Sample: (Y) N

(2) 39.30819 N 76.51892 W ±23

Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

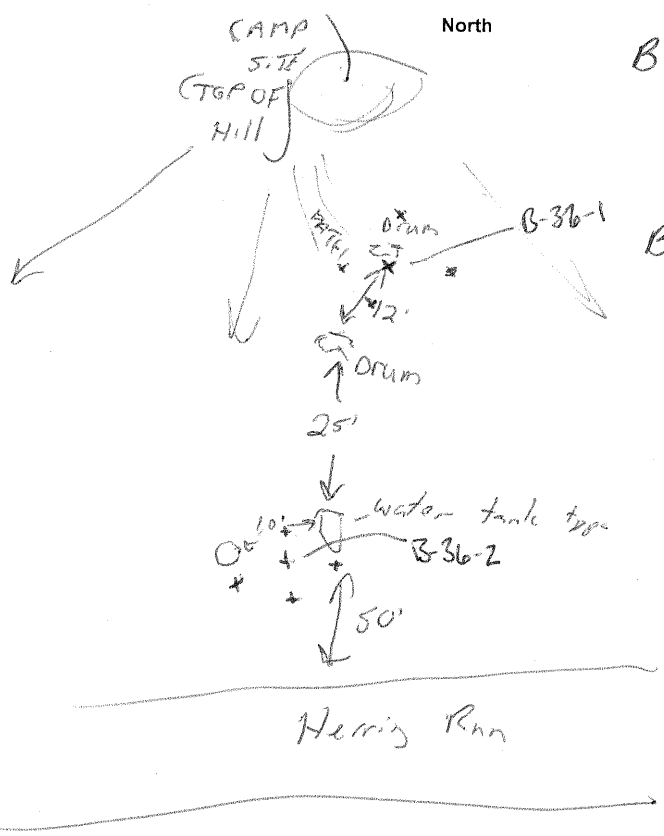
(1) (2) drum remains, partially buried empty, no soil staining, tires, matting around

(2) (1) drum remain, (1) water tank heater type tank (non-intact)

Access dense vegetation, 50' off Herring Run, just before Camp Site

Sample ID	Ar (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
B-36-1	ND<48	848±21	ND<77	423±107	0.04	0.00	~~ND<2.5~~	2.341	~~ND<2.9~~
B-36-1-N	ND<48	856±21	ND<77	377±87					
B-36-1-E	53±14	744±18	ND<73	268±84					
B-36-1-S	60±20	1049±26	ND<86	346±111					
B-36-1-W	49±14	699±17	ND<70	ND<211					
B-36-2	ND<35	587±15	ND<67	272±75	0.12	0.00	8.9	1.137	3.862
B-36-2-N	ND<27	376±11	ND<67	213±61					
B-36-2-E	35±7	232±9	ND<63	ND<186					
B-36-2-S	93±12	482±15	ND<72	ND<251					
B-36-2-W	ND<77	1392±35	ND<98	428±129					

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)



B-36-1: organic rich, black/brown sandy clay

B-36-2 brown silty clay w/ organics

68-F-L22-SS-G-(0-0.79)-(B-38)-02052008

POI Inspection Form

POI ID: B-38

Sampling Personnel: MM/MF

Date/Time: 9:45 2/5/08

Lat/Long: 39.30845°N 76.51950°W

Calibration Sample: Y (N)

Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

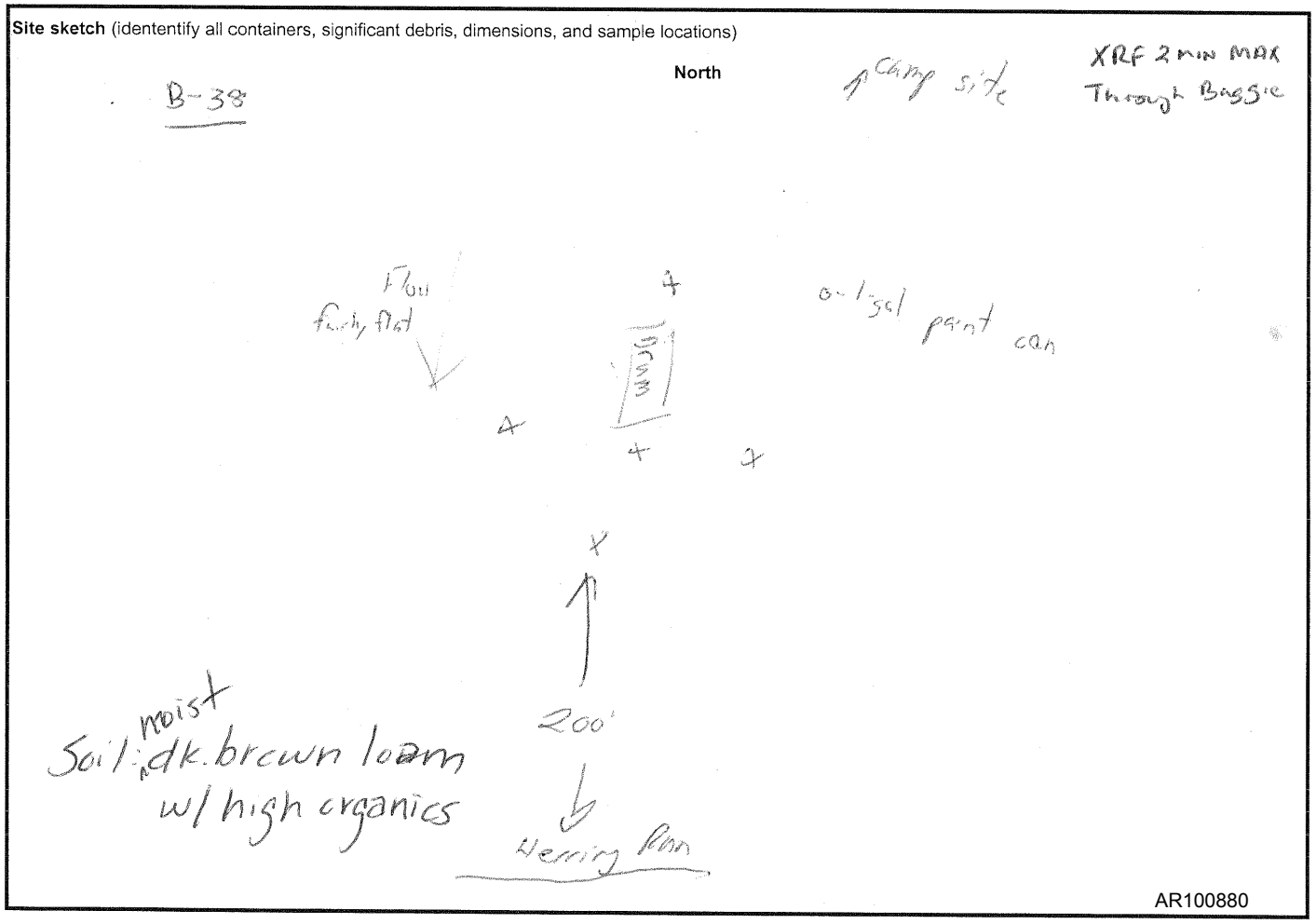
(1) drum remain, crushed with soil contents. Various matting, tires, 1-gal paint can surrounding.

Access 100' SW of camp site (top of hill) ~~just below~~ generally very thick ~~bank~~ vegetation

Soil is moist (likely from morning weather conditions)

Sample ID	Ar (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
B-38	ND<28	~~ND~~ 481±12	ND<58	ND<209	0.00	1.00	ND<2.5	4.473	~~ND<2.5~~ 0.03
B-38-N	ND<16	184±7	ND<55	ND<115					
B-38-E	76±20	1047±26	88±28	ND<347					
B-38-S	ND<32	530±13	ND<63	ND<148					
B-38-W	ND<52	952±23	ND<78	ND<243					

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)



68-F-022-SS-G-(0-0.25)-(B-39)-02052008

POI Inspection Form

POI ID: B-39

Sampling Personnel: N/A

Date/Time: Search 8-10 (2 Hours)

Lat/Long: Unable to find based on previous GPS coord and available materials.

Calibration Sample: Y (N)

Search radius included from Herring Run / Moores Run Fork to B-36

Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

Potential changes from Recon include ~~as~~ additional vegetation growth. Flooding or human interaction are not likely at ~~this location~~ in the general area.

Sample ID	Ar (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)

North

-E-Q10-SS-G-(0-0.25)-(B-59)-02112008

POI Inspection Form

POI ID: B-59

Sampling Personnel: M. Kennedy, M. Mangiamo

Date/Time: 2/11/08 1625

Lat/Long: 39.30611°N 76.52755°W

Calibration Sample: Y (N)

Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

one 55-gal, non-intact rusty (painted black) drum, lying on its side (was standing upright in photo from 2007 site recon.); collected soil sample from space that used to be underneath base of drum; no staining or odors; located ~200 ft. south of Moores Run, into woods, thick brush + trees surrounding POI

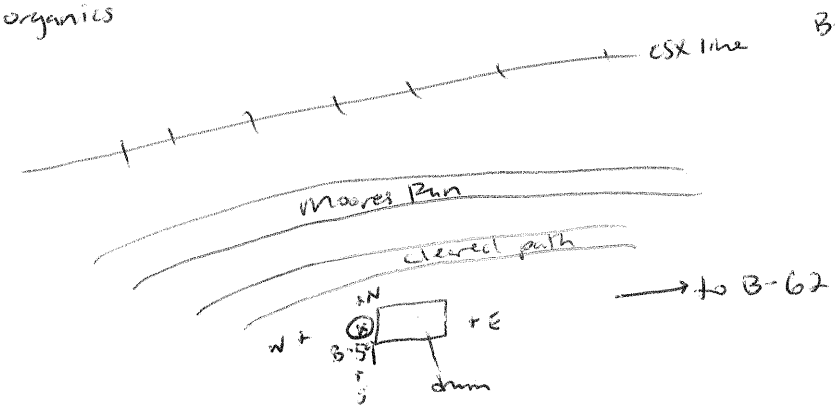
Sample ID	As (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
B-59	ND<16	304±7	ND<43	220±35	0.32	equipment malfunction	ND<2.5	0.014	~~ND<2.5~~
B-59-N	ND<15	314±6	ND<39	233±32					
B-59-S	16±5	280±6	ND<43	881±50					
B-59-E	ND<15	382±6	43±13	274±30					
B-59-W	ND<13	254±6	ND<39	212±32					

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)

Soil Description: loose, moist, brown silty CLAY w/ organics

B-62 to cleared path = ~200ft.

B-62 to N, S, E, W each = 5 ft.



*not to scale

XRF readings taken from soil inside zip-lock bags, not in situ

68-E-P11-SS-G-(0-0.25)-(B-62)-02112008

POI Inspection Form

POI ID: B-62

Sampling Personnel: M. Kennedy, M. Mingliano

Date/Time: 2/11/08 1555

Lat/Long: 39.30654°N 76.52700°W

Calibration Sample: Y N

Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

container is gone, but space is present (visible hole); no staining or odors; located in ditch on south side of path that runs along Moores Run; other debris @ this POI included rusted out appliance (oven?)

Sample ID	As (mk) ~~Ar~~ (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
B-62	ND<10	147±4	ND<37	ND<78	0.21	equipment malfunction	ND<2.5	1.032	~~ND<2.4~~ 2.356 JW

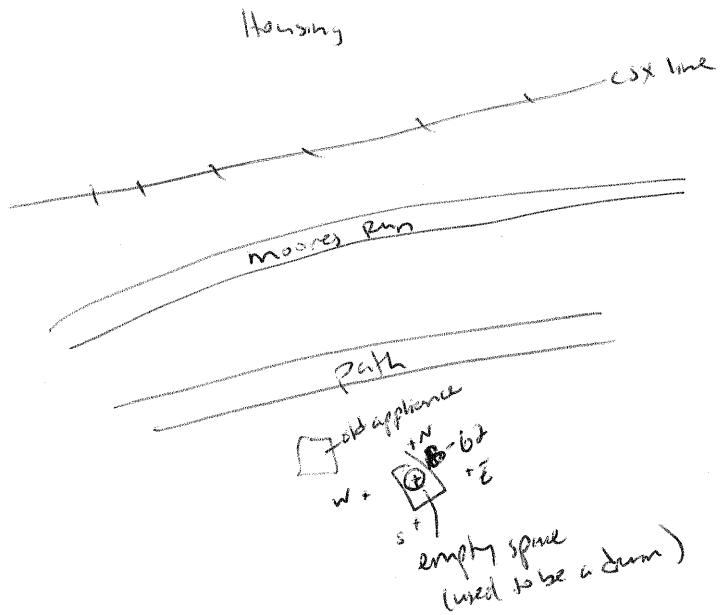
Site sketch (idententify all containers, significant debris, dimensions, and sample locations)

Soil Description: loose, moist, brown silty CLAY, little organics

North

B-62 to path = ~30 ft.

B-62 to N, S, E, W each = 5 ft.



*not to scale

XRF readings taken from soil inside zip-lock bags, not in situ

AR100883

68-F-014-SS-G-(0-0.25) - (B-68) - 0714 2008

POI Inspection Form

POI ID: B-68

Sampling Personnel: MK/MF

Date/Time: 2/14/08 14:00

Lat/Long: 39.30678°N 76.52490°W

Calibration Sample: Y (N)

Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility): 55-gal

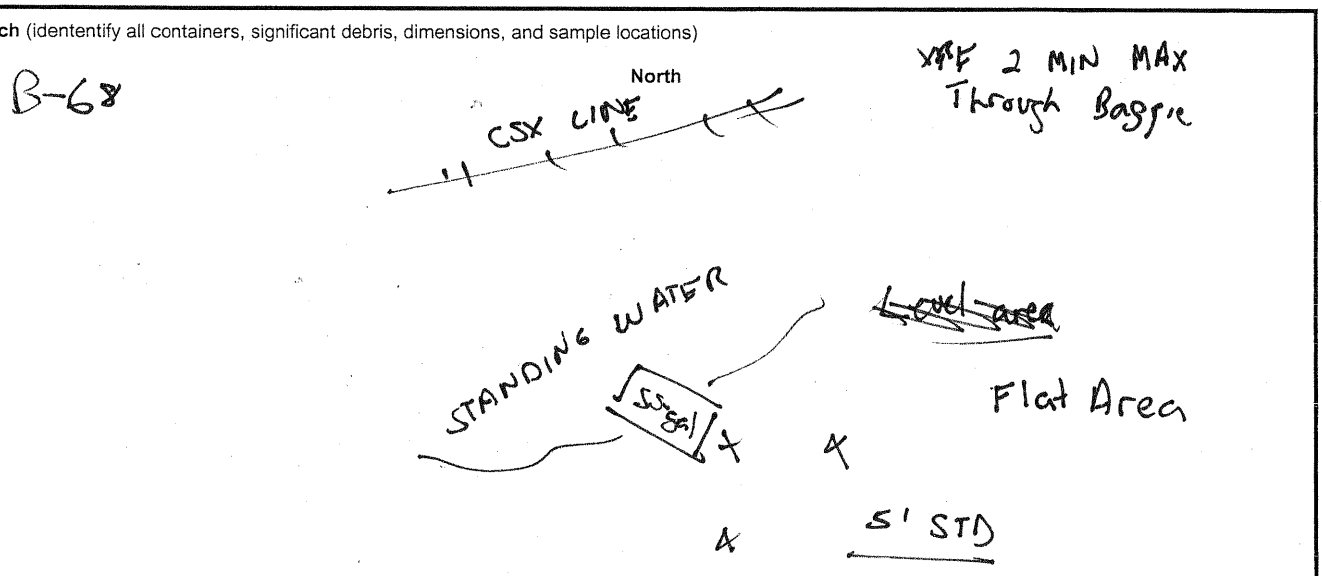
(1) Non-intact drum with bullet holes, 1/4 full of solid ~~substance~~ material, no soil staining.

Access: ~~300-400 feet~~ Viewable from CSX line, light vegetation

Soil: wet, loose OR, silty CLAY

Sample ID	Ar (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
B-68	ND<9	115±4	39±12	ND<77	0.22	2.00	ND<25	6.9	~~ND<25~~
B-68-N	NOT SAMPLED - STANDING WATER								
B-68-E	"	"		"		"			
B-68-S									
B-68-W									

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)



68-F-PIS-SS-G(0-0.25)-(B-71-1)-021408
68-F-PIS-SS-G(0-0.25)-(B-71-2)-02142008

POI Inspection Form

POI ID: B-71 (1+2)

Sampling Personnel: MK/MF

Date/Time: 2/14/08 13:10

Lat/Long: 39.30637°N 76.52468°W

Calibration Sample: Y (N)

Soils: BR, silty CLAY, loose, moist, some organics

Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

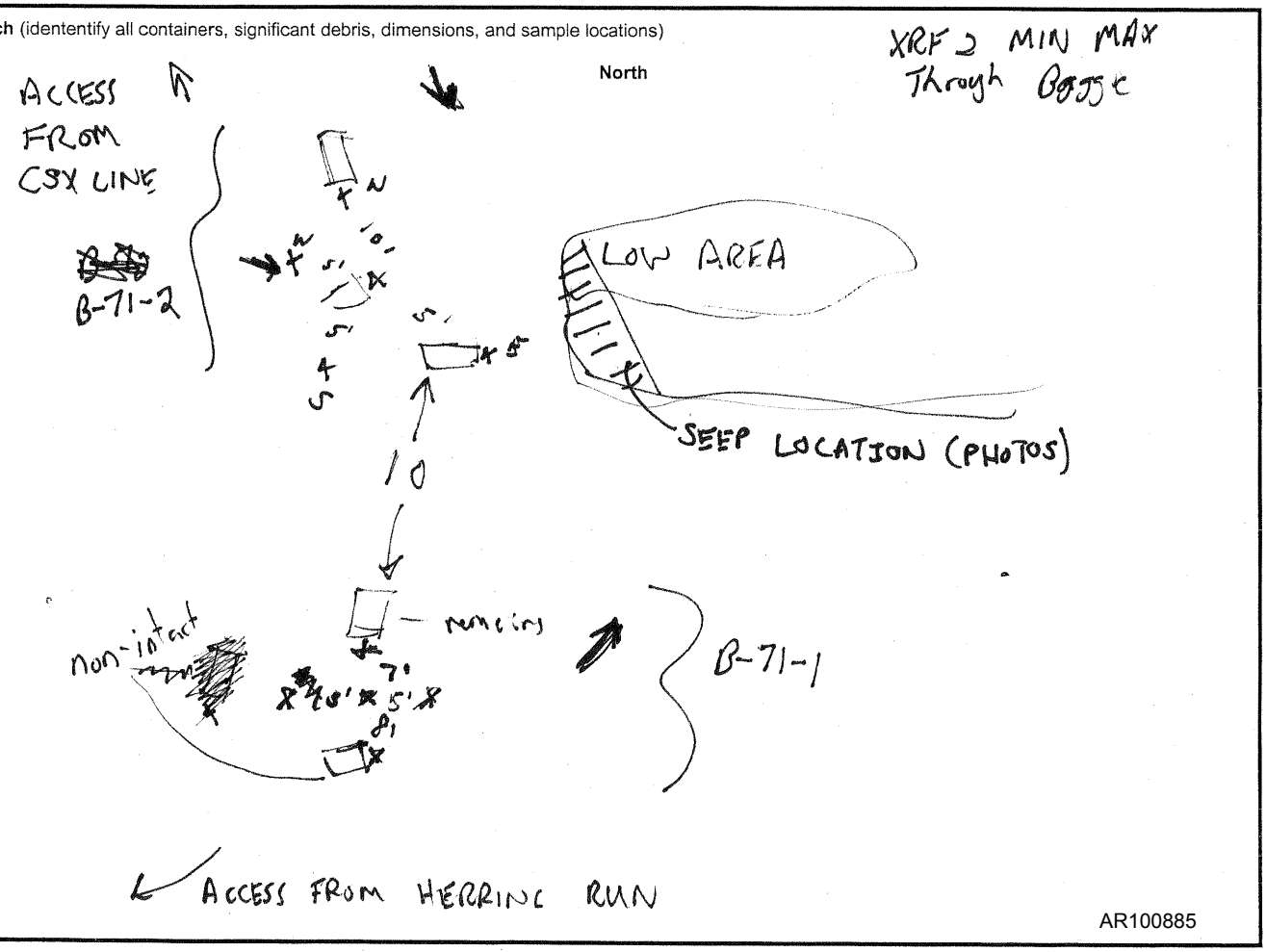
① (1) non-intact 55-gallon drum, half buried, soil contents
(1) 55-gal drum remains.
Various other debris (metal, tires, gal bucket)

② (3) non-intact, empty, 55-gal drums, no soil staining. Various CLAY pipes and other debris.

ACCESS: SAME AS B-72

Sample ID	Ar (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
B-71-1	ND<11	173±5	ND<39	92±27	0.53	0.00	ND<2.5	2.077	~~ND<2.4~~ 0 JB
B-71-1-N	ND<15	250±5	46±12	106±27					
B-71-1-E	ND<8	83±3	ND<38	ND<74					
B-71-1-S	ND<8	86±3	ND<38	ND<75					
B-71-1-W	ND<12	224±5	ND<38	ND<73					
B-71-2	ND<11	173±5	ND<39	ND<78	0.57	10.50	ND<2.5	0.102	>72
B-71-2-S	ND<11	175±5	59±13	152±30					0.847 ~~ND<2.4~~ JB
B-71-2-E	ND<8	114±3	ND<34	ND<63					3.9
B-71-2-W	ND<7	45±3	ND<39	ND<74					0.122 ~~ND<2.4~~ JB
B-71-2-N	ND<7	64±3	46±13	ND<70					1.248 ~~ND<2.4~~ JB

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)



U8-F-P1S-SS-G-(0-0.75)(B-72)-02142008

POI Inspection Form

POI ID: B-72

Sampling Personnel: MK/MF

Date/Time: 2/14/08 12:40

Lat/Long: 39.30625°N 76.52467°W

Calibration Sample: Y (N)

Soil: Brown, Silty CLAY, loose, some moisture, some organics

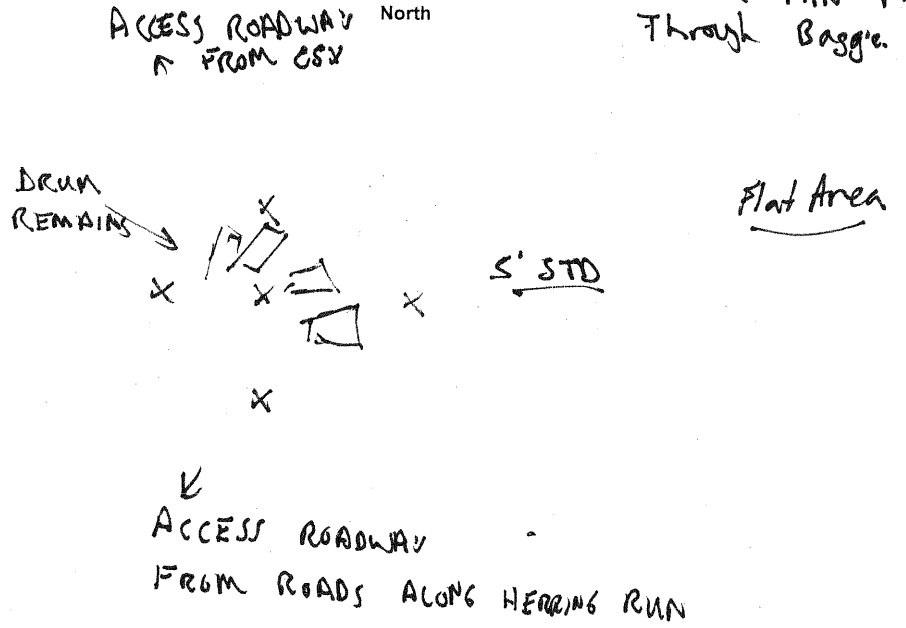
Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

(4) half-buried 55-gal drum remains. - no contents/soil staining. Various other debris including tires, cone, metal scraps.

Access: 300-600 feet from dirt roads along Herring Run. Very thick vegetation.

Sample ID	Ar (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
B-72	ND<12	184±5	ND<38	92±29	0.72	9.5	ND<2.5	0.065	~~ND<2.4~~
B-72-N	ND<10	153±4	ND<36	92±24					
B-72-W	ND<11	167±4	ND<37	ND<72					
B-72-E	ND<15	357±6	54±13	ND<79					
B-72-S	ND<11	199±5	41±12	135±27					

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)



68-F-P14-55-G-(0-0.25)-(B-73)-02122008

POI Inspection Form

POI ID: B-73

Sampling Personnel: M. Mirigliano, M. Kennedy

Date/Time: 2/12/08 1500

Lat/Long: 39.30602 °N 76.52511 °W

Calibration Sample: Y N

Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

one mostly intact 55-gal. drum and rusted remains of a second drum directly adjacent; no staining or odors in surrounding soil; small amt. of soil inside opening to drum; located on side of gentle slope, ~25 ft. north of section of fragmites and south-east of B-75; amongst thick vines/brush + trees, no easy access

Sample ID	~~Ar~~ As (mg) (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
B-73	ND<12	208±5	ND<40	363±37	0.36	1.66	ND<2.5 ~~1.4~~ JW	1.408	3.4 JW
B-73-N	ND<9	133±4	ND<36	104±29					
B-73-S	ND<9	102±4	ND<37	ND<76					
B-73-E	ND<14	316±6	ND<38	ND<77					
B-73-W	ND<8	99±3	ND<35	91±24					

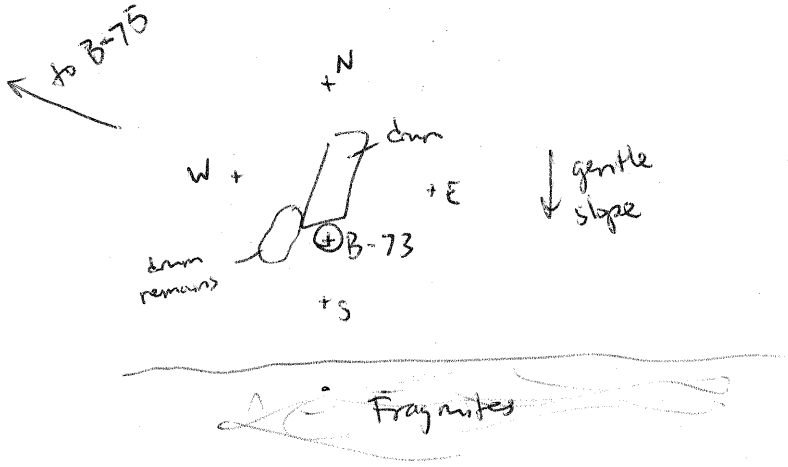
Site sketch (idententify all containers, significant debris, dimensions, and sample locations)

Soil Description: loose, slightly moist, brown silty CLAY Loam, little organics

North

B-73 to fragmites = 25 ft.

B-73 to N, S, E, W each = 5 ft.



* not to scale

XRF readings taken from soil inside zip-lock bags, not in situ

AR100887

68-E-P14-SS-G-(0-0.25)-(B-75-1)-02122008
68-E-P14-SS-G-(0-0.25)-(B-72-D-02122008

POI Inspection Form

POI ID: B-75 (B-75-1 & B-75-2)

Sampling Personnel: M. Kennedy, M. Mingliano

Date/Time: 2/12/08 1325

Lat/Long: B-75-1 39.30600°N 76.52554°W
B-75-2 39.30606°N 76.52537°W

Calibration Sample: (Y) N
(ms/msD)

Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

two 55-gal, non-intact drums (both partially buried), 60 ft. apart; also @ this POI is a pile of grey powdery substance which is slightly upslope from both B-75-1 & B-75-2; no visible staining or odors in soil surrounding B-75-1 drums; located ~25 ft. east of B-76; moderate thick vines / brush + trees, not easy access from anywhere
*B-75-2 has some dark grey staining in surrounding soil, also multiple dk grey metallic "rods" imbedded loosely in hill slope

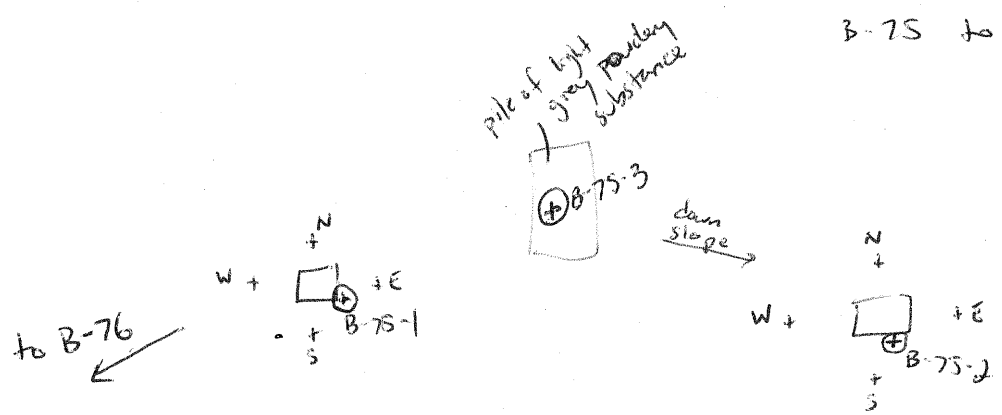
Sample ID	As (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
B-75-1	ND<13	306±5	ND<34	159±25	0.24	0.0	ND<2.5	2.171	~~ND<2.4~~ 0.538
B-75-1-N	ND<14	374±6	ND<35	189±26					
B-75-1-S	14±4	310±6	ND<34	138±25					
B-75-1-E	ND<10	163±4	ND<35	166±24					
B-75-1-W	ND<13	319±5	ND<34	139±24					
B-75-2	ND<11	217±5	ND<34	213±26	0.18	0.0	ND<2.5	1.137	~~ND<2.4~~ 0
B-75-2-N	ND<10	189±4	ND<34	183±25					
B-75-2-S	ND<11	239±5	ND<33	229±26					
B-75-2-E	ND<12	232±5	ND<36	300±30					
B-75-2-W	ND<10	191±4	ND<33	122±22					
B-75-3	ND<11	210±5	ND<34	235±25			ND<2.5	1.618	~~ND<2.4~~ 1.11

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)

Soil Description:
B-75-1 → loose, dry, brown silt & fine sandy loam
B-75-2 → SAA

North

B-75-1 to B-75-2 = 60 ft.
B-75-1 to pile of grey substance = 13 ft.
B-75-2 to pile of grey substance = 45 ft.
B-75 to B-76 = ~25 ft.



* not to scale

XRF readings taken from soil inside zip-lock bags, not in situ.

68-E-Q13-SS-G-(0-0.25)-(B-76-1)-02122008
68-E-Q13-SS-G-(0-0.25)-(B-76-2)-02122008

POI Inspection Form

POI ID: B-76 (B-76-1 & B-76-2)

Sampling Personnel: M. Kennedy, M. Mingliano

Date/Time: 2/12/08 0945

Lat/Long: B-76-1 39.30586°N 76.52550°W
B-76-2 39.30588°N 76.52556°W

Calibration Sample: Y (N)

Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

two non-intact 55-gal rusty drums ~15 ft. apart, no staining/odors @ either one; both are partially burried; located @ top of steep slope amongst thick vines + brush, north-west of section of fragmites; limited access due to thick vines surrounding POI; adjacent to B-75

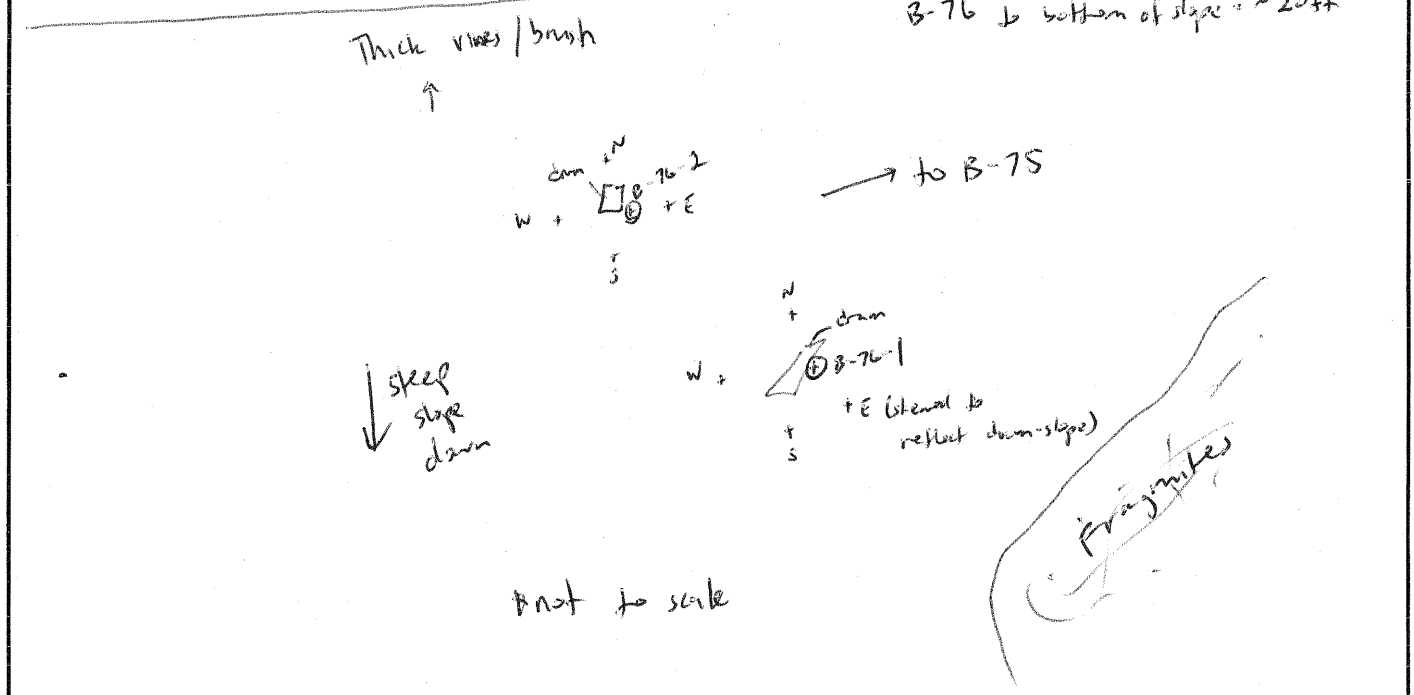
Sample ID	~~Ar~~ (mg) (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
B-76-1	ND<9	130±4	ND<33	112±22	0.37	0.0	ND<2.5	3.28	~~ND<2.4~~ 0
B-76-2	ND<7	103±3	ND<29	ND<53	0.0	0.0	ND<2.5	0.123	~~ND<2.4~~ 0

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)

Soil Description:
B-76-1 → loose, dry, light brown silt and fine sand w/ some organics
B-76-2 → loose, dry, brown silt and fine sand, high organics

North

B-76-1 to B-76-2 = 15 ft.
B-76 to fragmites = ~50 ft.
B-76 to bottom of slope = ~20 ft



XRF readings taken from soil inside zip-lock bag, not in situ

AR100889

68-F-Q14-SS-G-(0-0.25)-(B-77)-02122008

POI Inspection Form

POI ID: B-77

Sampling Personnel: M. Kennedy, M. Mirigliano

Date/Time: 2/12/08 0910

Lat/Long: 39.30559°N 76.52537°W

Calibration Sample: Y N

Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

two ~55-gal drums, both non-intact, both half burried into hillslope, amongst thick vines/brush; no staining or odors in surrounding soil; other concrete rubble + scrap metal up-slope; located north-west of section of fragmites

Sample ID	~~Ar~~ Ag (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
B-77	NDL10	192±5	NDL35	149±26	0.13	1.01	NDL2.5	0.123	~~NDL2.4~~ 2.6 (JH)

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)

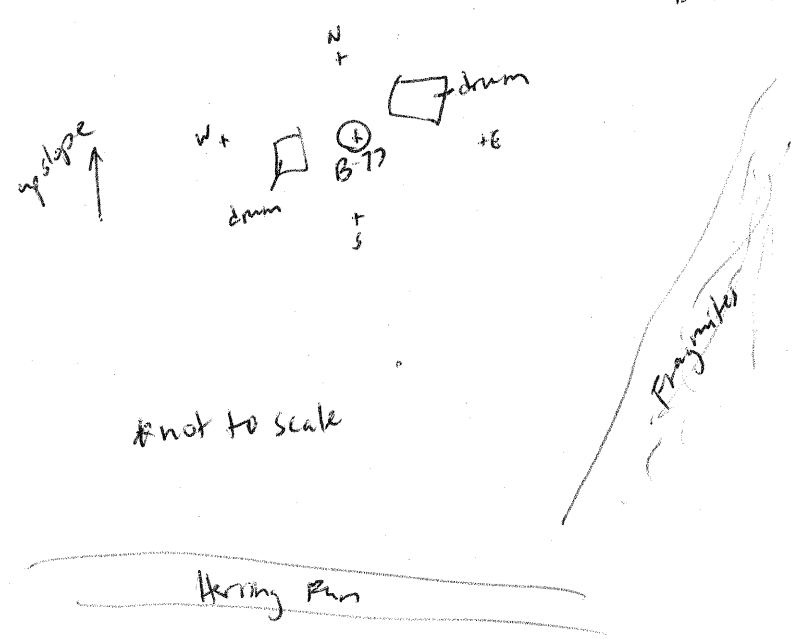
Soil Description: loose, dry, medium brown fine sand + silt with organics

North

B-77 to frag. = 40 ft.

2 drums < 5 ft. apart

B-77 to N, S, E, W each = 5 ft.



*not to scale

XRF readings taken from soil inside zip-lock bag, not in situ

AR100890

08- F-R14-55-G-(0-0.25)-(B-78)-02122008

POI Inspection Form

POI ID: B-78

Sampling Personnel: M. Kennedy, M. Mangiano

Date/Time: 2/12/08 0850

Lat/Long: (MK) ~~39.30607°N 76.52757°W~~ 39.30535°N 76.52515°W

Calibration Sample: Y (N)

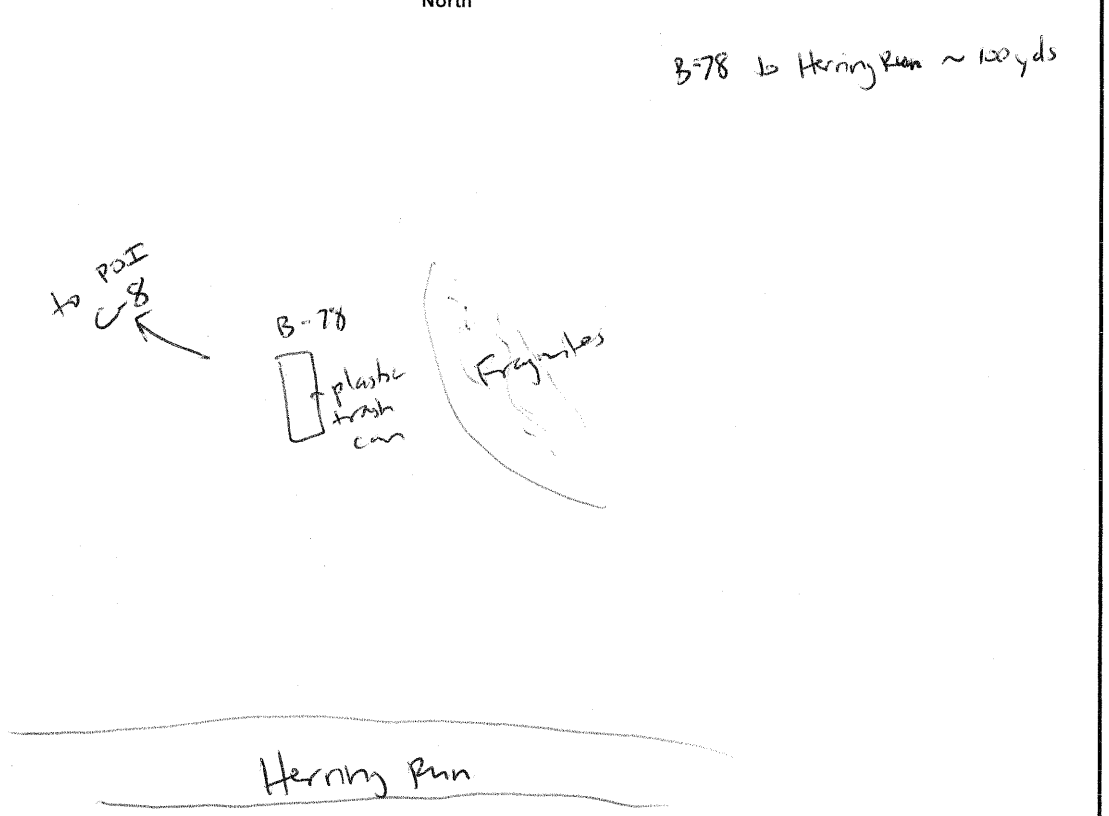
Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

on further inspection, this POI contains no drums; one large plastic trash can, labelled "Park of Pride, Clifton"

-no soil sample collected

Sample ID	Ar (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
N/A									

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)



68-F-V3-55-G-(0-0.25)-(B92)-02082008

POI Inspection Form

POI ID: B-92

Sampling Personnel: MM/MF

Date/Time: 2/8/08 9:42

Lat/Long: 39.30359 N
76.53266°W

Calibration Sample: Y (N)

Soil: Dr. BR, Silt, SAND, moist, w/some organics

Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

55-gal drum remains, no stained soil
Various other debris

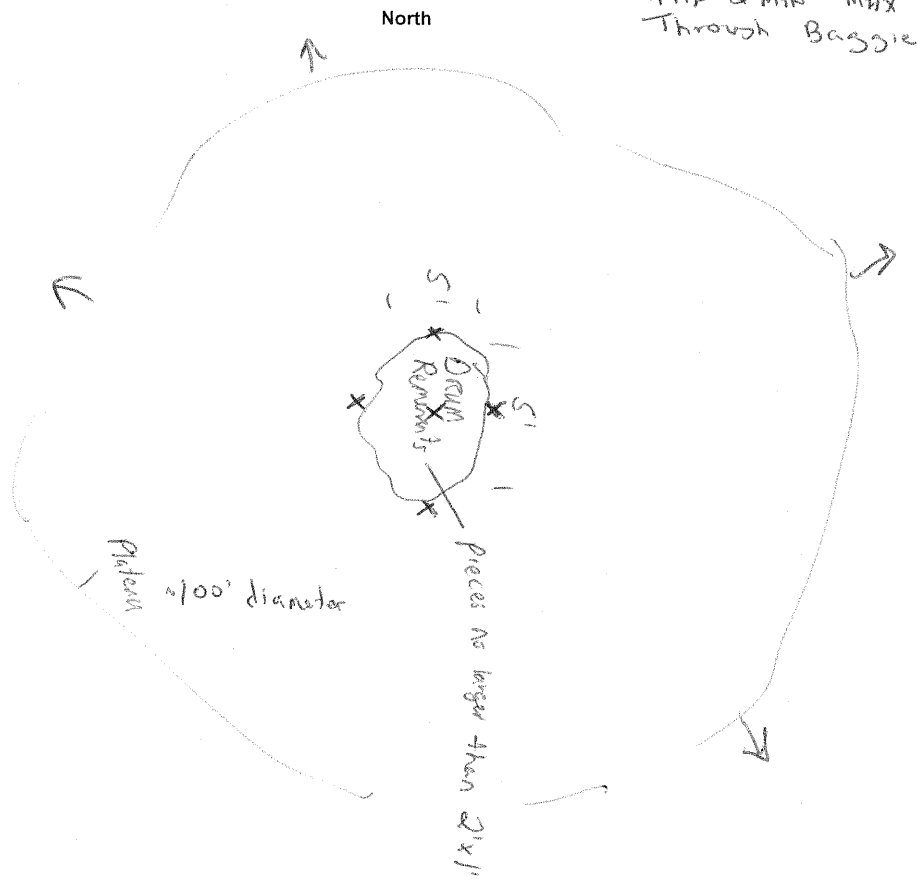
Access: Top of plateau and steep slopes (2:1) ~100' up from pathway, ~~and~~ medium vegetation.

Sample ID	Ar (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
B-92	ND<10	151 ±4	ND<34	125±28	0.00	0.00	ND<2.5	0.373	ND ~~<29.4~~ (N)
B-92-N									
B-92-S									
B-92-W									
B-92-E									

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)

B-92

XRF 2 min max Through Baggie



68-E-T4-55-G-(0-0.25)-(B-93)-02082008

POI Inspection Form

POI ID: B-93 (SEEP)

Sampling Personnel: MM/MF

Date/Time: 2/8/08 10:16

Lat/Long: 39.304143°N 76.53232

Calibration Sample: Y (N)

Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

(1) 500-gallon AST, intact except for openings at top. Various other metal debris.

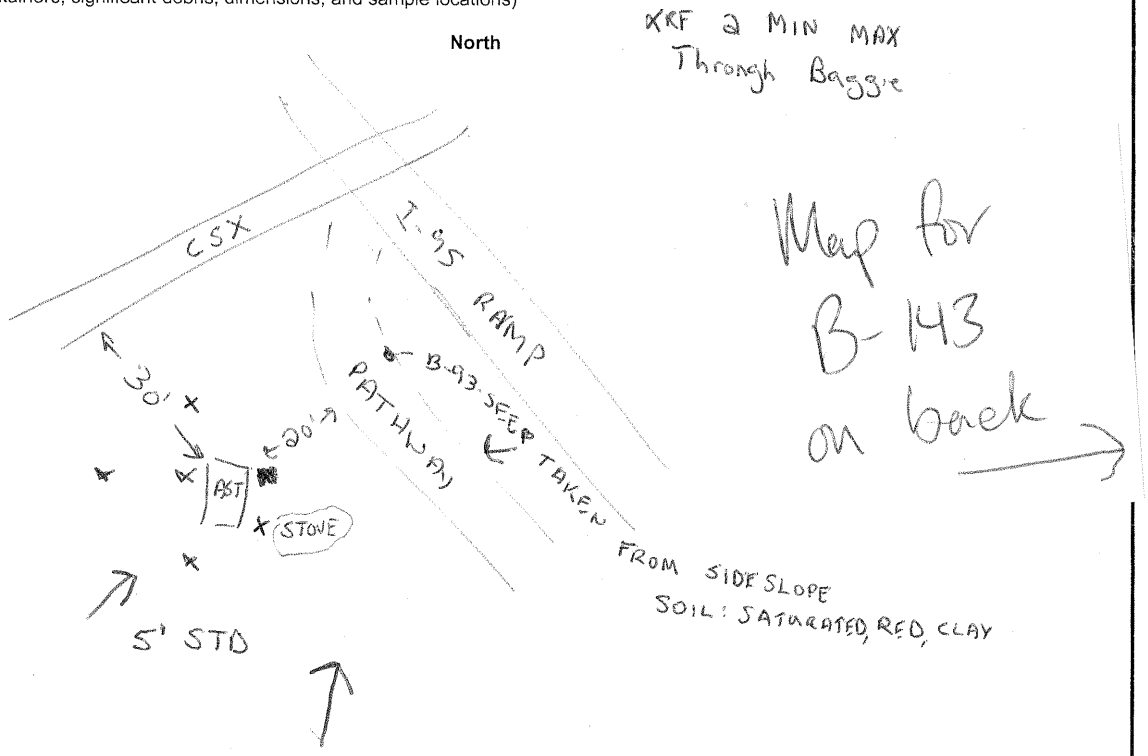
Access: Along pathway 20', light vegetation.

B-93 Seep - Red Staining along pathway

Soil: Brown, Silty CLAY, w/some fine sand and organic material, moist.

Sample ID	Ar (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
B-93	ND<25	424±11	ND<57	ND<121	0.00	0.0	ND<2.5	0.837	4.5 (JL)
B-93-N	ND<10	132±4	41±13	ND<71					
B-93-E	ND<12	167±5	ND<41	95±28					
B-93-S	ND<7	75±3	ND<33	ND<60					
B-93-W	ND<11	172±4	ND<37	ND<72					
B-93-SEEP	ND<6	28±3	42±13	100±26					

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)



68-F-027-SS-G-(0-0.25)-(B-103)-02072008

POI Inspection Form

POI ID: B-103

Sampling Personnel: MM/MIF

Date/Time: 2/7/08 14:10

Lat/Long: Search time - APPROX 1.5 Hr.

Calibration Sample: Y N

Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

POI based on available information could not be found. Overgrowth and very dense vegetation are causes.

Another drum in the approximate location was found. Based on pictures does not appear to be B-103. Drum was lying in tributary. ~~No Soil~~

Sample ID	Ar (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
NO SAMPLE CONDUCTED.									

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)

North

68-F-N22-55-G-(0-0.25)-(B-115)-0206 2008

POI Inspection Form

POI ID: B-115

Sampling Personnel: MM/MF

Date/Time: 2/6/08 10:00

Lat/Long: 39.30720°N 76.51932°W

Calibration Sample: Y (N)

Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

(1) 500-gal UST, non-intact, apparently empty, no soil staining.

(1) Buried 55-gal drum, non-intact

Various metal debris

Access: 100' from facility upland. dense vegetation

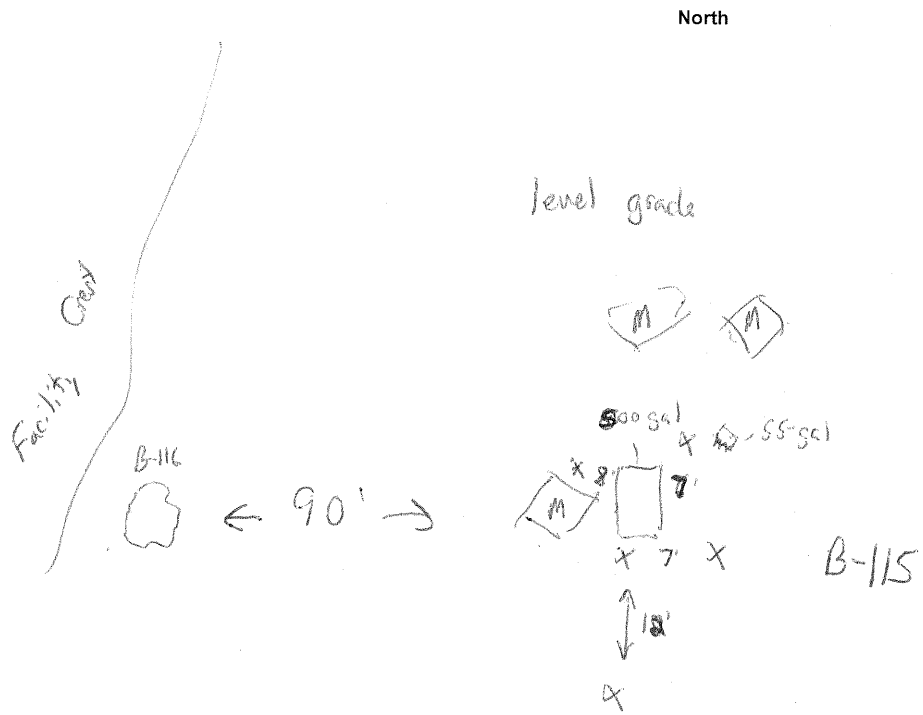
Medium Access Rating

Soil: BR moist SAND v. fine to fine.

Sample ID	Ar (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
B-115	ND<14	227±6	ND<42	153±32	1.43	1.33	ND<2.5 ~~2.4~~ JW	0.123	~~ND<2.4~~ 0.225 JW
B-115-N	ND<13	217±5	ND<40	195±32					
B-115-S	ND<10	152±4	ND<37	127±26					
B-115-E	ND<8	95±3	ND<33	93±22					
B-115-W	ND<27	463±12	ND<61	156±48					

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)

XRF 2 MIN MAX Through Baggie



AR100895

68-FN22-55-G-(0-0.25)-(B-116)-02062008

POI Inspection Form

POI ID: B-116

Sampling Personnel: MM/MF

Date/Time: 2/6/08 9:30

Lat/Long: 39.30706°N 76.51942°W

Calibration Sample: Y (N)

Soil: Dark Br. Silty SAND moist w/some organic material

Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

(1) 55-gal drum, non-intact, soil contents (buried) numerous 1-gal and 5-gal buckets, all non-intact

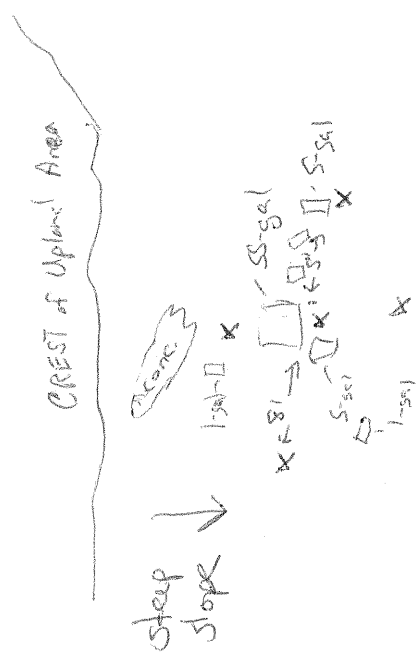
Various metal, ~~and~~ conc, plastic debris.

Access: 10' below lip of facility area. Easy access.

Sample ID	Ar (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
B-116	ND<8	69 ± 3	ND<38	ND<102	0.90	5.0	ND<2.5	0.174	~~ND<2.4~~ 0.659 JB
B-116-N									
B-116-S									
B-116-E									
B-116-W									

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)

XRF 2 MIN MAX Through Baggie



168-F 022-SS-G-(0-0.25)-(B-119)-02062008

POI Inspection Form

POI ID: B-119

Sampling Personnel: MM/MF

Date/Time: 2/6/08 11:25

Lat/Long: 39.30700°N 76.51799°W

Calibration Sample: Y N

Soil. Dark BK CLAY w/some sand and silt moist.

Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

(1) 200-gal tank, non-intact, empty
Various tires, metal debris.

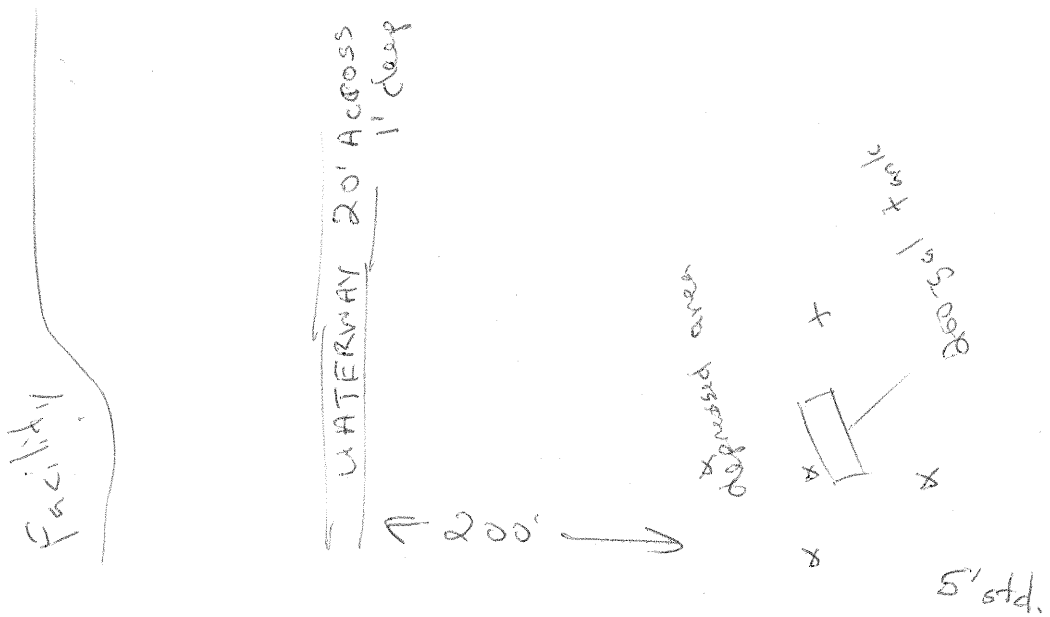
Access: thick vegetation, across waterway appr. 500'.
Hard Access Rating

Sample ID	Ar (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
B-119	ND<15	248±6	ND<40	ND<105	0.23	10.0	ND<2.5	2.94	~~ND<2.1~~ 0.18
B-119-N	ND<30	516±13	ND<62	ND<172					
B-119-E	ND<28	461±11	71±20	172±56					
B-119-S	ND<14	228±6	ND<41	ND<86					
B-119-W	ND<40	682±17	ND<70	ND<181					

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)

North

XRF 2 MIN MAX Through Baggie



68-B-025-SS-G-(0-0.25)-(B-123)-02072008

POI Inspection Form

POI ID: B-123

Sampling Personnel: MM/MF

Date/Time: 2/7/08 1623

Lat/Long: 39.30676°N 76.5172400W

Calibration Sample: Y (N)

SOIL: Dark BR, Silty SAND, moist, bottle caps, organic material

Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

(1) Crushed drum 55-gal.
Various landfill debris at subsurface

Access: Middle of MA-E. very dense vegetation. Best route is from WEST

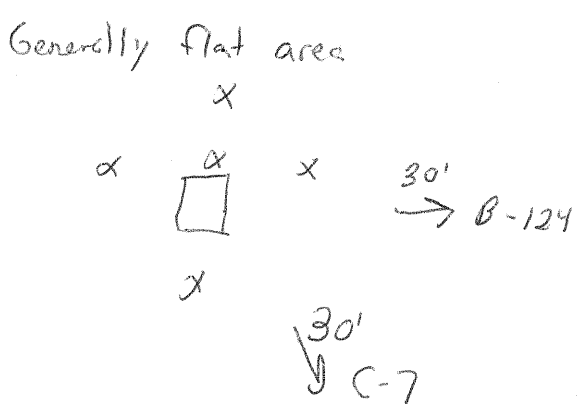
Sample ID	Ar (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
B-123	ND<75	1394±35	ND<96	ND 522	0.15	2.0	ND<28	9.3 9	~~ND<10~~ 0.124
B-123-N	ND<32	550 ±14	ND<62	ND<338					
B-123-E	ND<33	555 ±14	82±21	328±71					
B-123-S	48±13	659±16	ND<66	ND<371					
B-123-W	ND<46	810±20	ND<77	ND<320					

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)

B-123

North

XRF 2 MIN MAX Through Baggie



08-B-025-SS-G-(0-0.25)-(B-124)-02072008

POI Inspection Form

POI ID: B-124

Sampling Personnel: MM/MF

Date/Time: 2/7/08 1700

Lat/Long: 39.30677°N 76.51710°W

Calibration Sample: Y (N)

Soil: Dark BR, Silty SAND, moist, organic material

Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

(2) Crushed 55-gallon drums, no staining, no contents.

General landfill debris just at subsurface

Access: Middle of MA-B, very thick vegetation, Best Route is from West.

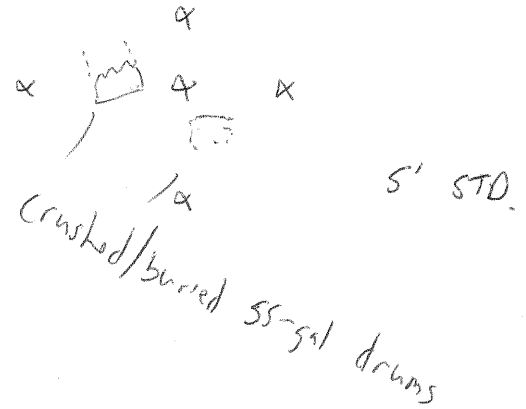
Sample ID	Ar (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
B-124	ND<47	882±21	ND<75	301±75	0.10	EQUIPMENT ERROR	ND<25	> 20	~~254~~ 1.727
B-124-N	ND<21	366±9	57±17	ND<110					
B-124-E	ND<27	458±11	ND<58	ND<116					
B-124-S	54±10	483±12	83±20	300±60					
B-124-W	44±7	310±8	ND<48	ND<110					

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)

North

XRF 2 MIN MAX Through Bagsie

B-124



68-B-P25-SS-G-(0-0.25)-(B-127)-02072008

POI Inspection Form

POI ID: B-127

Sampling Personnel: D. Check, M. Kennedy

Date/Time: 2/7/08 1525

Lat/Long: 39.30642°N 76.51728°W

Calibration Sample: (Y) N

Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

one 55-gal. drum, corroded w/ holes but appears to contain combination of soil and collection of small lids / tops; surrounding soils not visibly stained; located ~150 ft. south-west of C-7, towards Quad Ave

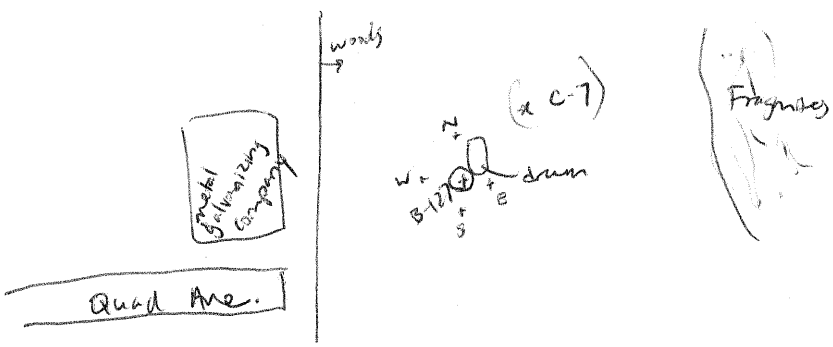
Sample ID	~~As~~ Ar (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
B-127	172±26	4,790±48	85±20	3,719±158	0.02	0.21	<6.4	3.647	ND ~~<2.4~~ 1.795
B-127-W	37±4	239±6	60±13	516±53					
B-127-E	37±5	242±7	54±15	799±71					
B-127-N	41±5	455±7	50±11	312±35					
B-127-S	17±4	152±5	56±13	378±53					

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)

Soil Description: loose, dry, brown silt w/ some fine sand and organics

North

B-127 to Quad Ave ~200 yds
B-127 to C-7 ~150 ft.
B-127 to N, S, E, W each ~ 5 ft.



not to scale

XRF readings taken from soil inside zip-lock bags, not in situ

68-F-N25-SS-G-(0-0.25)-(B-134)-02072008

POI Inspection Form

POI ID: B-134

Sampling Personnel: D. Cheek, M. Kennedy

Date/Time: 2/7/08 1700

Lat/Long: 39.30714°N 76.51716°W

Calibration Sample: Y (N)

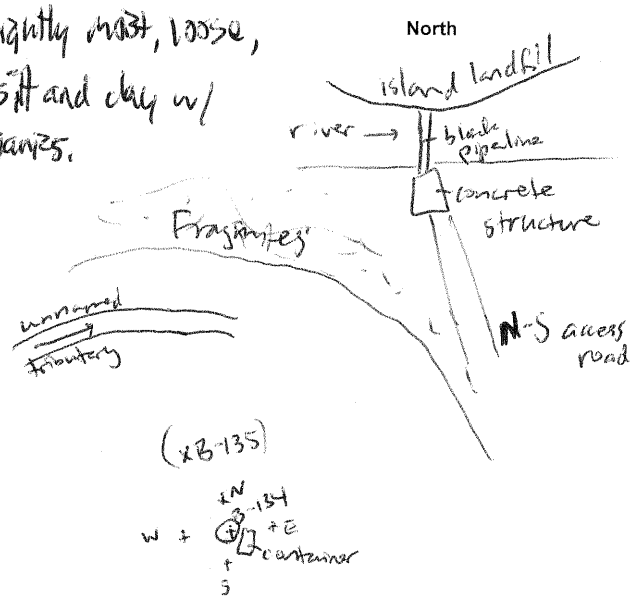
Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

one small, ~10-gal. corroded (non-intact) metal container, empty; surrounding soil is dark but no visible staining or odors present; located ~ 20-30 ft. south-east of B-135 (similar access situation to B-135)

Sample ID	~~Az~~ (me) (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
B-134	ND<16	632±7	54±10	185±26	0.12	0.0	~~ND<2.6~~ 20.4 (JA)	2.941	~~ND<2.4~~ 0.097 (JA)
B-134-N	34±7	942±10	75±11	244±32			12.70		
B-134-S	100±14	2750±23	79±13	659±63		ND<2.5	~~1.72~~ ~~650~~ (JA)		
B-134-E	24±7	887±9	48±11	131±30		ND<2.5	~~1.79~~ (JA)		
B-134-W	74±8	840±10	60±13	430±43			>50 ~~[illegible]~~		

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)

Soil Description: slightly moist, loose, dark brown silt and clay w/ sand and organics.



B-134 to B-135 = 20 ft.

B-134 to unnamed tributary = ~170 ft.

B-134 to N, S, E, W each = 5 ft.

*not to scale

XRF readings taken from soil inside zip-lock bags, not in situ

AR100901

68-F-N25-SS-G-(0-0.25)-(B-135)-02072008

POI Inspection Form

POI ID: B-135

Sampling Personnel: D. Check, M. Kennedy

Date/Time: 2/7/08 1630

Lat/Long: 39.30721°N 76.51722°W

Calibration Sample: Y (N)

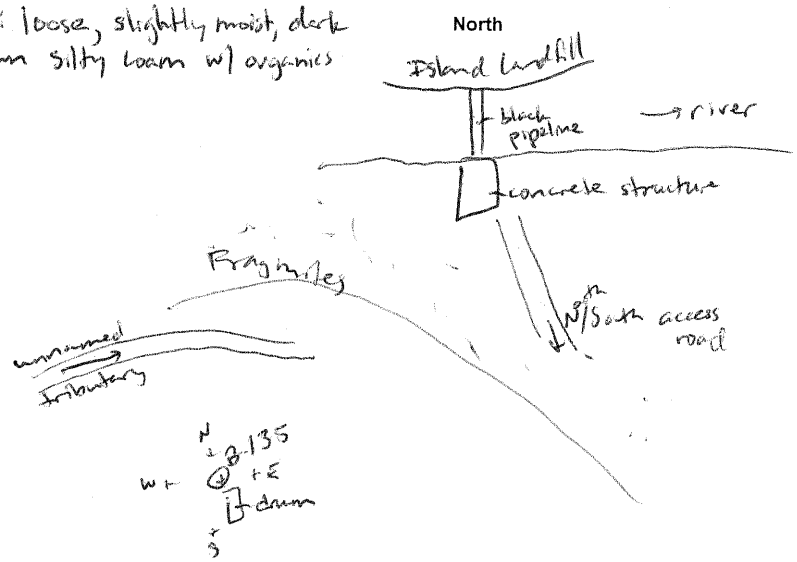
Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

one ~30 gal. drum, corroded and >1/2 burried, surrounding soil is dark but not stained, no odors; located amongst thick growth/vines, ~100 ft. south of unnamed tributary; possible access from road that runs N-S through MA-B (although moderately thick vines/brush in the way)

Sample ID	~~As~~ Al (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
B-135	19±5	430±7	84±12	201±34	0.10	0.0	17.5	9.181	~~ND<2.4~~ 0.18
B-135-N	36±6	567±8	82±12	285±34			2.8		
B-135-S	30±6	573±8	75±13	246±41			~~ND<1.5~~		
B-135-E	ND<16	520±8	43±12	210±38			3.9		
B-135-W	ND<16	511±7	52±12	138±32			~~ND<2.4~~		

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)

Soil Description: loose, slightly moist, dark brown silty loam w/ organics



B-135 to concrete structure = ~100 yds

B-135 to unnamed tributary = ~100 ft.

B-135 to N, SE, W each = 5 ft.

* not to scale

XRF readings taken from soil inside zip-lock bags, not in situ

68-B-P27-SS-G-(0-0.25)-(B-~~11~~ 136)-02052008

POI Inspection Form

POI ID: B-136

Sampling Personnel: MM/MF

Date/Time: 2/7/08 10:31

Lat/Long: 39.30633 °N
76.51587 °W

Calibration Sample: Y (N)

Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

(1) ~~No~~ 55-gal drum, non-intact, some soil inside, no staining.

Access along Roadway

Soil: Dark BR, moist, v. fine to fine ~~SAD~~ SAND
N, E, W Dry
South was silty CLAY

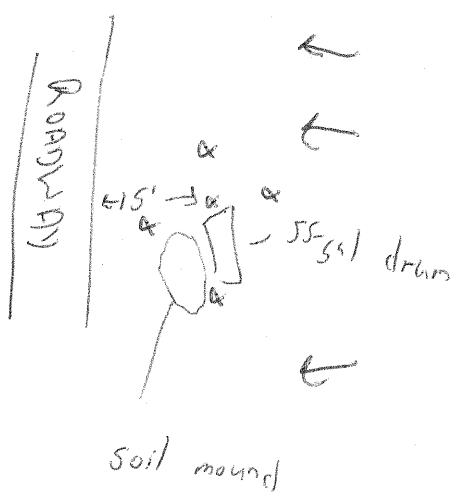
Sample ID	Ar (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
B-136	ND<16	259±6	ND<44	202±40	0.08	1.12	~~0.3ND~~ ND<2.5	0.226	~~ND<2.5~~ 0.834
B-136-N	ND<12	167±5	ND<41	103±29					
B-136-E	ND<10	151±4	ND<37	125±26					
B-136-W	ND<10	98±4	ND<41	121±31					
B-136-S	ND<9	110±4	ND<38	166±29					

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)

B-136

North

XRF 2 MIN MAX
Through Baggie



B68-B-P27-55-G-(0-0.25)-(B-137-1)-02072008
68-B-P27-55-G-(0-0.25)-(B-137-2)-02072008

POI Inspection Form

POI ID: B-137 (1+2)

Sampling Personnel: MM/MF

Date/Time: 2/7/08 9:35

Lat/Long: Both 39.30607°N * 76.51589°W

Calibration Sample: Y (N)

Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

① (3) 55-gal drums: 2 non-intact, no contents
(1) 30-gal drum non-intact 1 intact except for bullet holes, ½ full with ~~water~~ liquid
Various other general refuse including water heater, fridge, pipes, etc.

② 3 of 4 55-gallon drums, non-intact or crush, no contents
Access: Along Roadway

Sample ID	Ar (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
B-137-1	ND<13	215±5	ND<41	ND<88	0.38	2.50	6.6	19.237	~~ND<2.4~~ 0.682
B-137-1-N	51±16	1002±21	ND<70	ND<168					
B-137-1-E	57±10	463±12	ND<59	565±75					
B-137-1-S	ND<41	706±18	ND<73	968±114					
B-137-1-W	79±13	883±17	ND<58	ND<105					
B-137-2	ND<43	734±18	81±25	ND<223	0.25	6.0	ND<25	0.203	~~ND<2.4~~ 0
B-137-2-N	ND<22	359±9	ND<51	ND<160					
B-137-2-E	26±6	316±8	ND<48	1823±83					
B-137-2-S	ND<68	1219±30	ND<93	551±139					
B-137-2-W	ND<104	~~3704±56~~	ND<77	508±85					
		3704±56							

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)

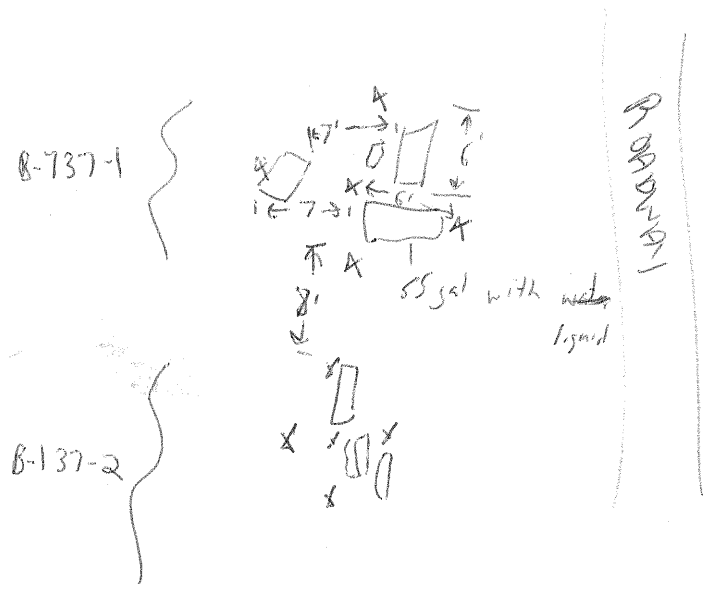
North

QRF 2 MIN MAX
Through Baggie

Soil:

① Dark BR, silty SAND, moist, organic material with styrofoam pellets

② same.



68-B-027-SS-G-(0-0.25)-(B-138)-02067008

POI Inspection Form

POI ID: B-138

Sampling Personnel: MM/MF

Date/Time: 2/6/08 15:29

Lat/Long: 39.30591°N 76.51585°W

Calibration Sample: Y (N)

Soil: Dark BR, Silty SAND, moist, w/some organics

Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

(1) Blue 55-gal drum, intact, open, no contents

Various metal and wood debris

Access: Along ~~pathway~~ Roadway 15'

Easy Access

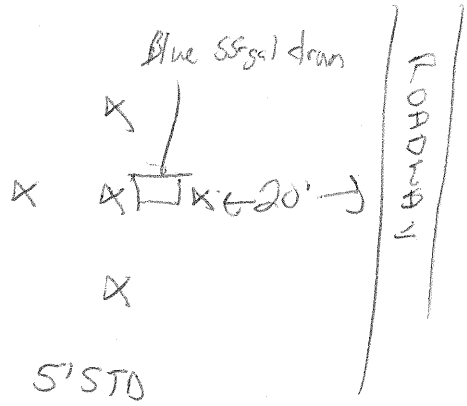
Sample ID	Ar (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
B-138	35±10	474±12	ND<61	932±80	1.12	1.43	ND<25	0.529	~~ND<2.4~~ 0.34
B-138-N	36±9	416±12	ND<61	451±64					
B-138-E	23±5	206±6	54±15	328±46					
B-138-S	53±16	512±13	ND<64	3949±138					
B-138-W	ND<20	333±8	ND<51	336±52					

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)

North

XRF 2 MIN MAX Through Baggie

B-138



68-B-527-55-G-(0-0.25)-(B-143-1)-02062008
68-B-527-55-G-(0-0.25)-(B-143-2)-02062008

POI Inspection Form

POI ID: B-143 (1+2)

Sampling Personnel: MM/MF

Date/Time: 2/6/08 14:20

Lat/Long: ① 39.30467°N
B-143-1 76.51570°N

Calibration Sample: (Y) N

② 39.30476°N
76.51570°N

Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

① (7) 55-gallon drum, non-intact, empty, no staining
Various glass and other debris
Access along access roadway, Easy Access Rating

② (2) 55-gallon drums, potentially intact, full of liquid except for top
Access Same

Sample ID	Ar (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
B-143-1	28±5	163±6	ND<50	1043±83	2.35	-2.54	1.1	2.629	0.752 (Je)
B-143-1-S	19±5	197±6	ND<46	488±60					
B-143-1-E	49±12	615±15	ND<70	875±102					
B-143-1-SN	ND<32	546±14	ND<66	ND<143					
B-143-1-N	55±14	690±17	ND<73	588±100					
B-143-2	45±14	710±18	ND<74	20626±375	0.60	1.00	3.8	5.704	0.75 (Je)
B-143-2-N	40±13	653±16	72±23	39540±543					
B-143-2-E	52±15	759±19	ND<75	9563±251					
B-143-2-S	83±11	524±13	ND<63	13387±251					
B-143-2-W	65±9	430±11	ND<57	1788±98					

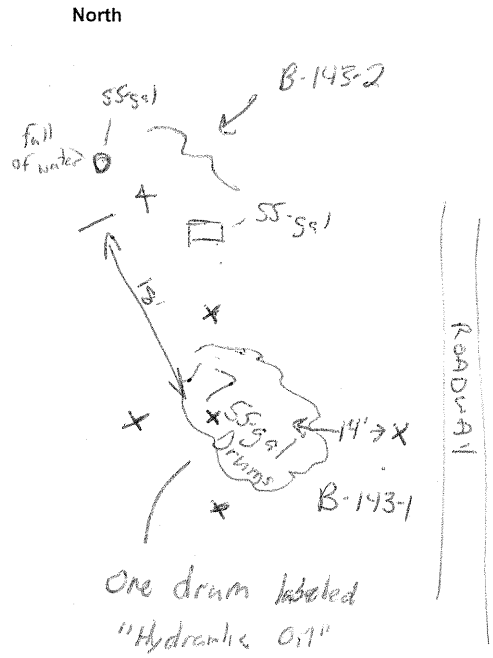
Site sketch (idententify all containers, significant debris, dimensions, and sample locations)

XRF 2 MIN MAX Through Baggie

Soil:

① Dry, dark BR, silty SAND some organic material

② Same



One drum labeled "Hydraulic Oil"

68-B-T28-SS-G-(0-0.25)-(B-145)-02072008

POI Inspection Form

POI ID: B-145

Sampling Personnel: MM/MIS

Date/Time: 2/7/08 9:02

Lat/Long: 39.30390°N 76.51486°W

Calibration Sample: Y (N)

Soil: Dark BR, v. fine SAND w/ clay + silt, moist, organic

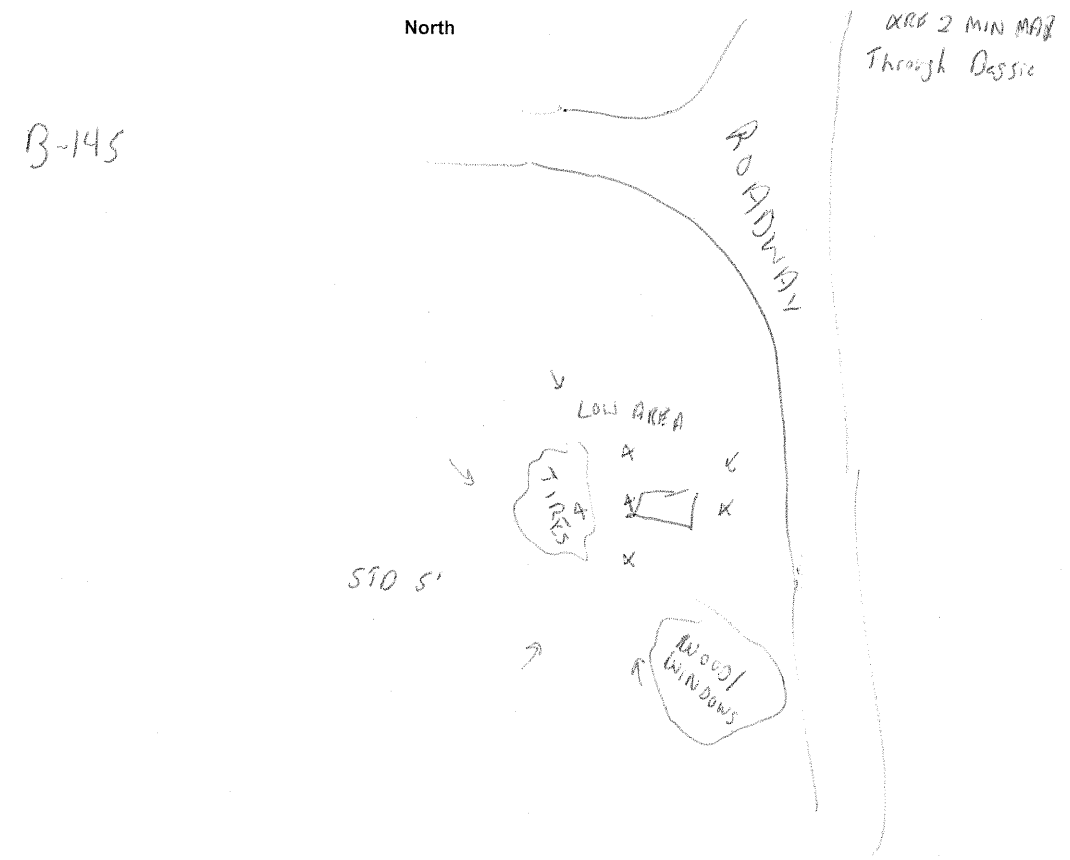
Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

(1) 55-gal Drum, non-intact, no contents
Various tires and wood sp debris

Access: Along roadway

Sample ID	Ar (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
B-145	ND<12	172±5	ND<40	ND<88	0.11	2.20	ND<25	0.976	~~ND<24~~ 0
B-145-N	ND<10	145±4	ND<38	544±37					
B-145-W	ND<15	257±6	72±15	240±41					
B-145-E	ND<10	139±4	ND<37	ND<74					
B-145-S	ND<18	293±7	ND<47	237±46					

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)



08-B-526-SS-G-(0-0.25)-(B-151)-02072008

POI Inspection Form

POI ID: B-151

Sampling Personnel: MM/MF

Date/Time: 2/7/08 17:30

Lat/Long: 39.304620°N 76.376460°W

Calibration Sample: Y (N)

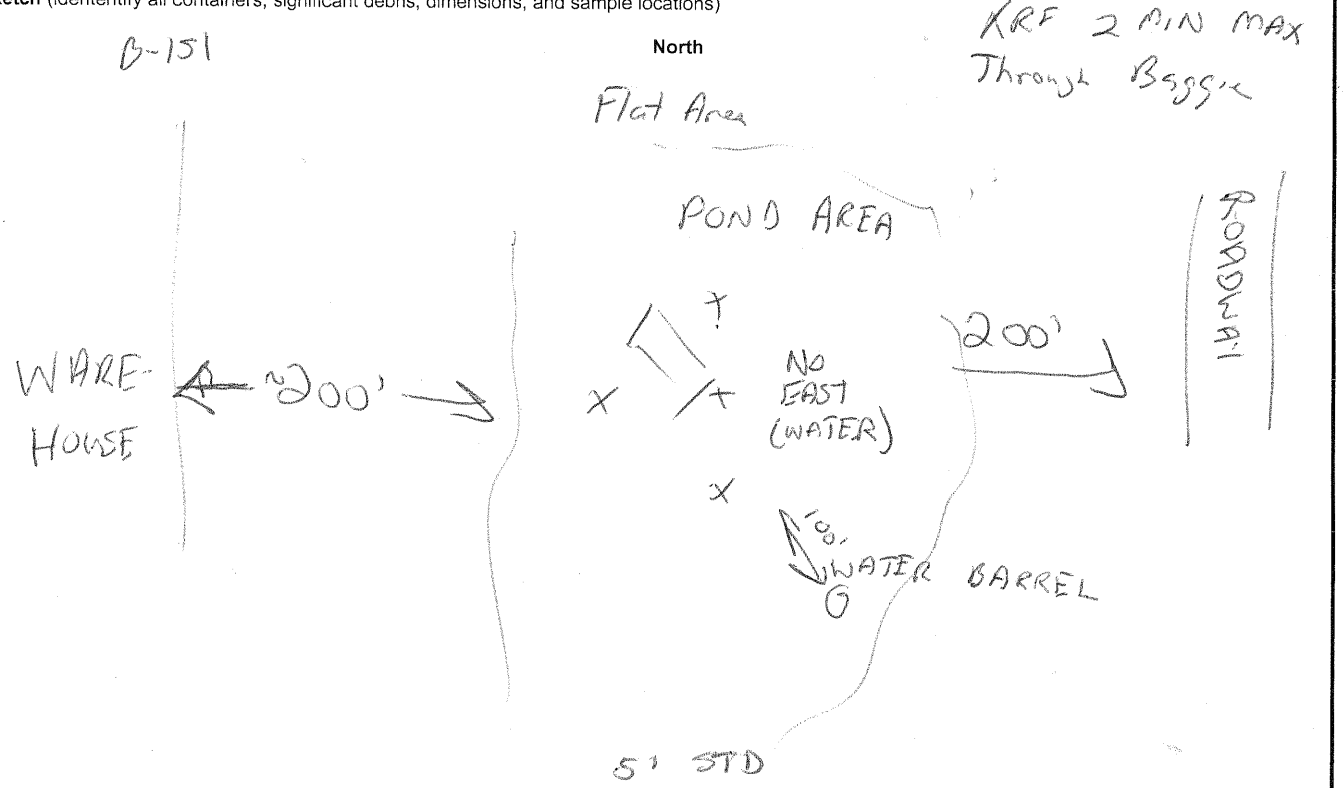
Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

(1) Open 55-gallon drum, non-intact, no soil contents
Various other metal debris and tires in large pond area.
(1) Water barrel in pond
Access 200' from Roadway and Warehouse

Soil: Dark BR CLAY w/some silt
moist and pliable

Sample ID	Ar (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
B-151	ND<14	184 ±6	51 ±15	ND<149	0.14	3.12	ND<3.5	18.462	0.009
B-151-N	ND<12	195 ± 5	ND<39	111 ±27					
B-151-E					SURFACE WATER				
B-151-S	ND<17	285 ±7	ND<48	192 ±35					
B-151-W	ND<8	112 ±3	ND<33	62 ± 21					

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)



68-B-029-55-G-(0-0.25)-(B-169)-02072008

POI Inspection Form

POI ID: B-169

Sampling Personnel: MM/ME

Date/Time: 2/7/08 8:25

Lat/Long: 39.30363°N 76.51453°W

Calibration Sample: Y (N)

Soil: BR, silty SAND, moist, some organic

Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

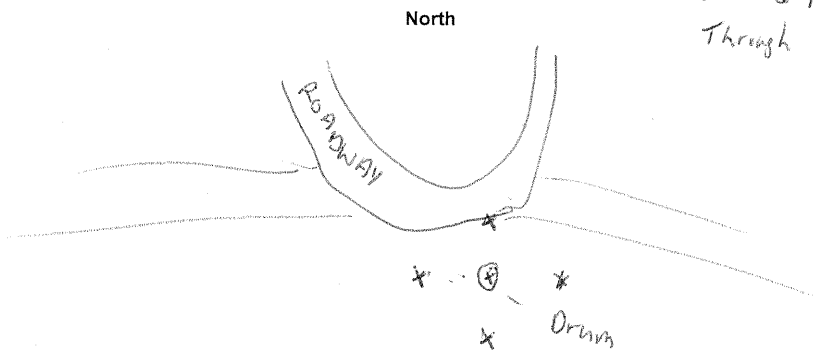
(1) drum remains, ash like contents (~1/3 of drum)

Access along Roadway

Sample ID	Ar (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
B-169	ND<13	215±6	47±14	122±40	0.08	1.0	ND<25	3.280	~~<2.4~~ 0
B-169-N	ND<15	197±6	ND<48	375±50					
B-169-E	ND<11	179±5	ND<40	150±30					
B-169-W	ND<15	239±6	ND<43	343±40					
B-169-S	ND<8	70±3	ND<40	111±26					

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)

XRF 2 MIN MAX
Through Baggie



STD 5' Feet
Main sample is of contents

LOS-F-H22-SS-G-(0-0.25)-(C-1 (A-19))-02042008

POI Inspection Form

POI ID: C-1 (A-19)

Sampling Personnel: D. Check / M. Kennedy

Date/Time: 2/4/08 0910

Lat/Long: 39.31050 N 76.51947 W

Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility): POI

Easily accessible ~~fore~~, Scattered debris near culvert, ~500 gallon steel tank, partially submerged in tributary. Approx ~~285~~ 200' from CSX at grade crossing (near rendezvous). Appears to be empty, no obvious staining downgradient.

Calibration Sample: Y (N)

Metals: As-10, Cd-1000, Cr-3000, Pb-400, As

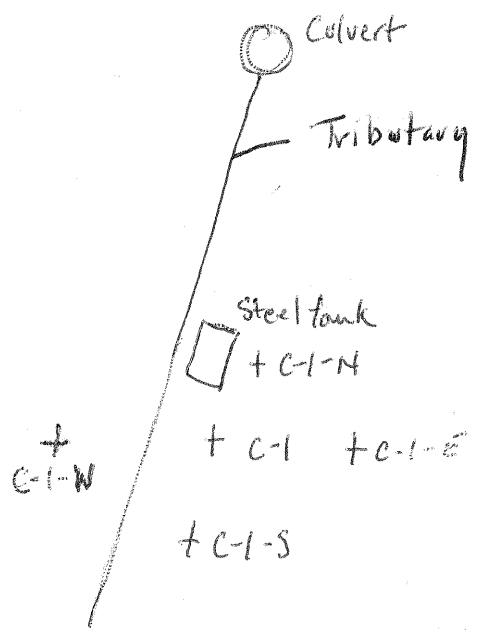
Sample ID	As (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
C-1	26 +/- 9	448 +/- 12	< 63	348 +/- 67	0.02	0.00	ND<2.5	4.254	~~ND<2.18~~
C-1-N	< 30	751 +/- 14	89 +/- 19	472 +/- 63					
C-1-S	23 +/- 7	327 +/- 10	< 62	595 +/- 73					
C-1-E	< 17	286 +/- 8	82 +/- 17	310 +/- 47					
C-1-W	< 10	82 +/- 4	< 50	291 +/- 40					

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)

North

Soil: Coarse to v. coarse SAND + small to large gravel

C-1 to culvert = 25'
C-1 to tank = 4'
C-1 to C-1-W = 10'
C-1 to other (N, S, E) ~ 5'



*labelled in field w/ pink flagging on East bank of tributary, in tree above tank

08-C-123-55-G-(0-0.25)-(C-2)-02042008

POI Inspection Form

POI ID: C-2

Sampling Personnel: D. Chock, M. Kennedy

Date/Time: 2/4/08 1410

Lat/Long: 39.310495°N 76.51860°W

Calibration Sample: Y (N)

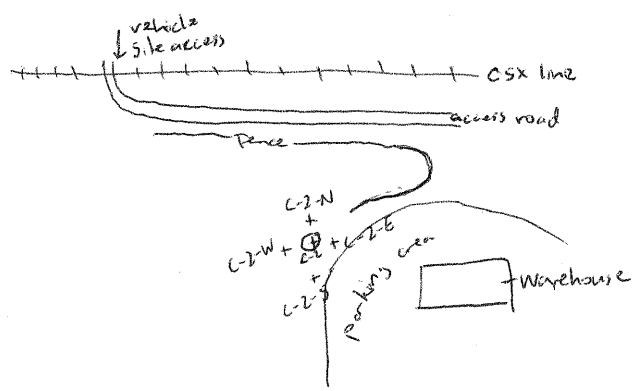
Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

rusted empty, non-intact (no lid) 55-gal drum, labelled w/ non-haz. next to 1 auto battery; no visible staining of soil; some other scrap metal in vicinity; located @ upper edge of slope, w/ warehouse building directly in sight to east; outside of partially fenced in CSX area

Sample ID	Ar (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
C-2	ND<9	44±4	ND<58	ND<121	1.39	1.24	ND<2.5	1.223	~~ND<24~~ 0

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)

North



fence to C-2 = 200 ft.
C-2 to N, S, E, W = 5 ft. each

* flagged w/ pink flagging tape in tree above C-2

* not to scale

Soil: coarse to v. coarse sand & small to large Gravel

·033-SS-G(0-0.25)-(C-3(A-165))-02062008

POI Inspection Form

POI ID: C-3 (A-165)

Sampling Personnel: D. Check, M. Kennedy

Date/Time: 2/6/08 1510

Lat/Long: 39.30612°N 76.51153°W

Calibration Sample: Y (N)

Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

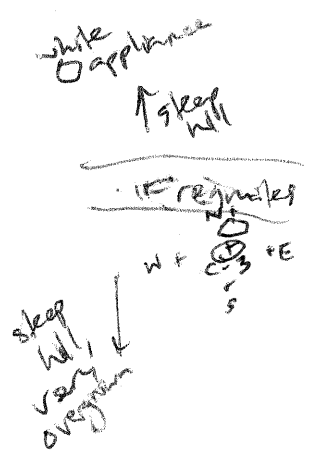
one rubber ~30 gal drum, intact, partially submerged in mud at base of steep, very overgrown slope (lots of briars + vines + trees); inaccessible; located on edge of fragmites; also flagged half way up the slope so can be relocated again; can see 2 white square-ish appliances on bank of opposite slope; POI in a low point

Sample ID	As (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
C-3	11 ± 2	83 ± 3	ND<32	101 ± 23	8.1	0.5	ND<2.5	3,280	~~ND<240~~ 0.035
C-3-N	NA → sample not collected								
C-3-S	ND<9	121 ± 4	~~ND<41~~	155 ± 32					
C-3-E	25 ± 4	222 ± 5	ND<37	199 ± 35					
C-3-W	7 ± 2	96 ± 3	ND<30	ND<57					
			ND<40 DC						

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)

Soil Description:
loose, wet (saturated), dark brown silty fine SAND + CLAY loam

North



~ unsure of distances to any landmark but can clearly hear noise from train tracks to the south

* no sample collected from North location b/c it is water, not soil or sediment

XRF samples collected from soil inside zip-lock bags, not in situ

AR100912

68-B-P27-SS-G-(0-0.25)-(C-4)-02072008

POI Inspection Form

POI ID: C-4

Sampling Personnel: D. Check, M. Kennedy

Date/Time: 2/7/08 1000

Lat/Long: 39.30619°N 76.51581°W

Calibration Sample: Y (N)

Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

one 55-gal. drum, rusty w/ holes, appears empty, no apparent staining or odors, no other significant debris nearby except 1 empty 5-gal. bucket; located alongside access road that runs N-S through MA-B (easily accessible), approx. 55 ft. north of POI B-137

Sample ID	Ar (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
C-4	35±6	459±8	63±13	601±52	0.15	0.10	ND<25	1.259	~~[illegible]~~
C-4 S	37±5	300±7	80±15	621±59					
C-4 W	28±5	371±7	76±14	697±58					
C-4 N	36±6	325±8	67±15	869±68					
C-4 E	ND<13	329±6	61±12	227±29					

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)

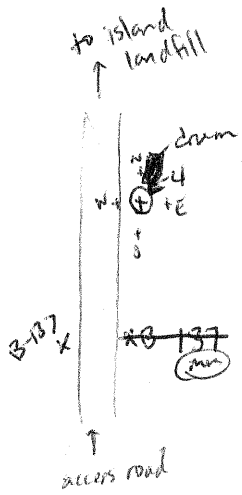
Soil Description:

Dry, loose, dark brown loam w/ organics.

North

C-4 to B-137 = 55 ft.

C-4 to N, S, E, W each = 5 ft.



*not to scale

XRF readings collected from soil inside zip-lock bags, not in situ

68-10-P27-SS-G-(0-0.25)-(C-S-1)-02072008
68-B-P27-SS-G-(0-0.25)-(C-S-2)-02072008

POI Inspection Form

POI ID: C-5 (C-5-1 / C-5-2)

Sampling Personnel: D. Check, M. Kennedy

Date/Time: 2/7/08 1040

Lat/Long: C-5-1: 39.30620°N 76.51607°W
C-5-2: 39.30618°N 76.51605°W

Calibration Sample: Y (N)

Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

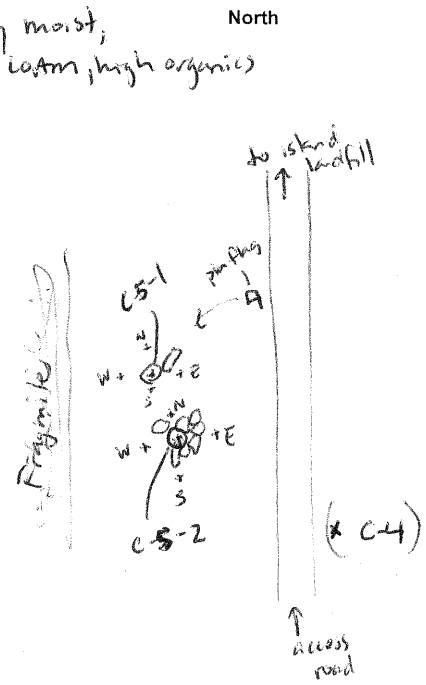
eight 55-gal, rusty, mostly intact drums; cluster of 7 together & 1 outlier (collect 2 samples); soils are not visibly stained + no odors; located on side/bottom of slope/hillside on ~~east~~ west (mk) side of access road (drums not visible from road); orange pinflag placed @ side of road in entry-point; also at edge of section of fragmites

Sample ID	~~As~~ Ar (ppm) (mk)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
C-5-2	63±5	302±6	55±13	349±46	0.21	0.0	ND<25	0.763	~~ND<2.4~~ 0.82
C-5-2-N	48±3	180±4	50±10	81±24					
C-5-2-S	52±4	180±5	ND<39	403±47					
C-5-2-E	33±6	643±8	ND<32	ND<81					
C-5-2-W	31±3	133±4	36±12	159±32					
~~C-5-2~~ (mk)									
C-5-1	63±10	1,716±15	58±12	268±36	0.06	0.30	ND<25	1.612	~~ND<2.4~~ 0.82
C-5-1-N	49±4	179±5	ND<39	233±40					
C-5-1-S	63±3	137±4	40±11	149±26					
C-5-1-E	26±4	449±6	36±10	111±23					
C-5-1-W	57±4	186±5	57±12	261±36					

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)

Soil Description: loose, slightly moist, dark brown silty loam, high organics

*soil is almost black



C-5-1 to C-5-2 = 15 ft.

C-5-1 to N, S, E, W each = 5 ft.

C-5-2 to S, E each = 10 ft.
" N, W each = 5 ft.

C-5 to fragmites = 20 ft.

C-5 to access road = 30 ft.

* not to scale

XRF readings collected from soil inside zip-lock bags, not in situ

68-F-M24-55-C1-C0 0.25)-(C-6)-02072008

POI Inspection Form

POI ID: C-6

Sampling Personnel: D. Check, M. Kennedy

Date/Time: 2/7/08 1150

Lat/Long: 39.30733°N 76.51581°W

Calibration Sample: Y (N)

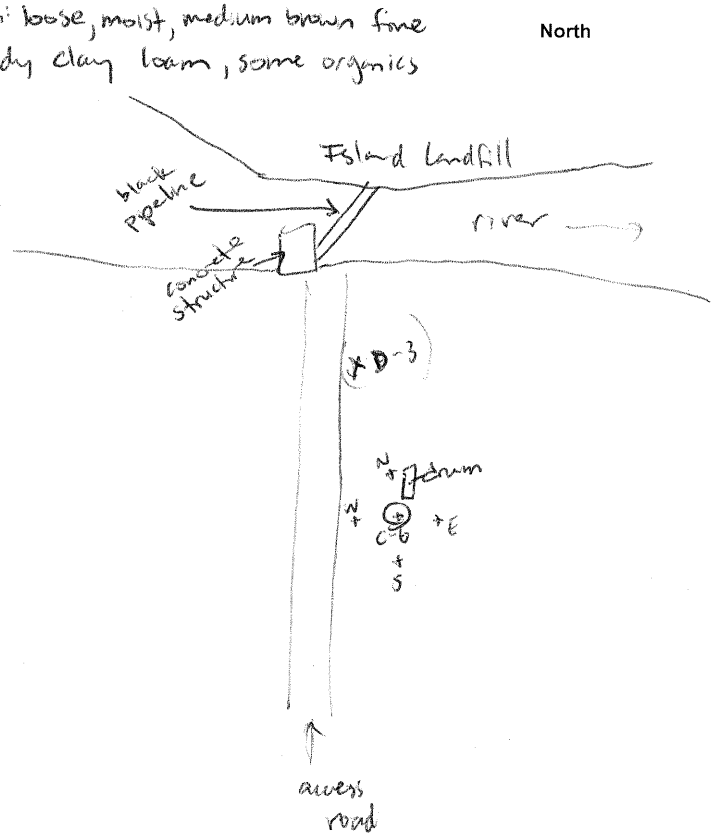
Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

one 55-gal. drum, rusty, intact (bent), no visible staining or odors; lid is intact but 2 holes open → collect primary sample from underneath larger of the 2 holes; located on east side of N-S access road in MA-B, against tree line, island landfill is in sight in close proximity; ~80 ft. south of ~~B-3~~ (mk) D-3 (B-107)

Sample ID	~~Ar~~ (mk) (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
C-6	ND<10	182±4	53±12	151±27	0.24	0.0	ND<2.5	0.102	~~ND<2.4~~ 0.024 (JW)

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)

Soil Description: loose, moist, medium brown fine Sandy clay loam, some organics



C-6 to D-3 = ~80 ft.

C-6 to road = 20 ft.

C-6 to N, S, E, W each = 5 ft.

XRF readings taken from ~~soil~~ (mk) soil inside zip-lock bags, not in situ

AR100915

68-B-026-SS-G(0-0.25)-(C-7)-02077C08

POI Inspection Form

POI ID: C-7

Sampling Personnel: D. Check, M. Kennedy

Date/Time: 2/7/08 1435

Lat/Long: 39.30666°N 76.51711°W

Calibration Sample: Y N

Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

two corroded, non-intact drums (55-gal?); vines / growth have formed a mound over top; no visible staining or odors; located in center of thick woods & undergrowth; possible access from the west w/ bulldozer to run over some smaller trees

Sample ID	As (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
C-7	20±6	680±8	49±11	563±38	0.05	0.15	ND<2.5	20	~~ND<2.4~~ 0.79
C-7-~~N~~S	73±10	1,671±15	53±12	501±42				~~2.395~~ 9.395	
C-7-~~S~~N	30±4	360±6	37±10	276±27				~~2.341~~ 2.341	
C-7-E	111±9	1147±13	ND<41	494±51				13.808	
C-7-W	107±8	978±11	52±13	506±43				4.701	

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)

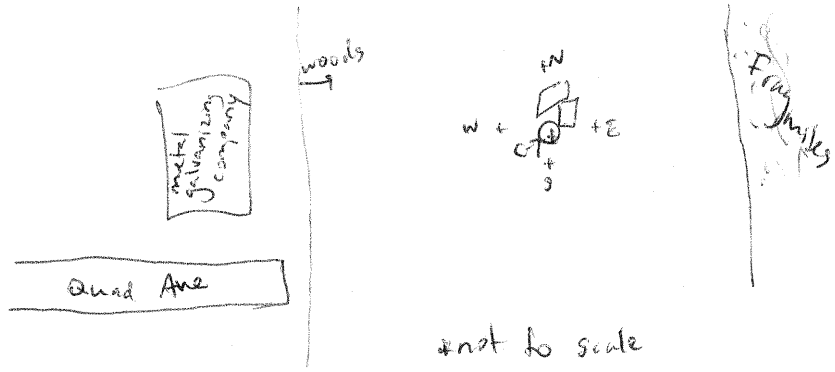
Soil Description: loose, dry, medium red-brown fine Sandy loam with white unknown pieces

North

C-7 to Quad Ave ~200+ yds

C-7 to fragmites ~100 yds

C-7 to N, S, E, W each = 5 ft.



*not to scale

XRF readings taken from soil inside zip-lock bags, not in situ

68-F-514-SS-G-(0-0.5)-(C-8-1)021120 8
68-F-514-SS-G-(0-0.25)-(C-8-2)021120 8

POI Inspection Form

POI ID: C-8 (C-8-1 + C-8-2)

Sampling Personnel: M. Kennedy, M. Mirigliano

Date/Time: 2/11/08 1030

Lat/Long: C-8-1 39.30512°N 76.52537°W
C-8-2 39.30512°N 76.52544°W

Calibration Sample: (Y) N
(C-8-2)

Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

two non-intact drums; C-8-1 ~55 gal., C-8-2 ~30 gal.; both on edge of gentle slope; no staining or odors; both contain some soil (tipped onto sides); located ~150 ft. north of cleared path along north side of Herring Run; some trees but access possible

Sample ID	~~As~~ Ar (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
C-8-1	38 ± 11	567 ± 14	ND<65	ND<296	0.16	3.19	ND<2.5	2.298	~~ND<2.4~~ 0.024
C-8-1-N	ND<27	454 ± 11	ND<133	ND<59					
C-8-1-S	ND<22	364 ± 9	ND<54	ND<131					
C-8-1-E	ND<25	430 ± 11	ND<58	ND<149					
C-8-1-W	ND<23	395 ± 10	ND<55	180 ± 47					
C-8-2	ND<23	933 ± 10	ND<36	84 ± 27	0.22	3.27	ND<2.5	3.730	~~ND<2.4~~ 0.038
C-8-2-E	ND<17	536 ± 7	ND<36	202 ± 29					
C-8-2-N	37 ± 8	704 ± 10	ND<40	124 ± 32					
C-8-2-S	ND<27	1343 ± 12	ND<35	221 ± 27					
C-8-2-W	46 ± 9	949 ± 11	ND<40	297 ± 37					

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)

Soil Description: loose, moist, brown silty CLAY loam

C-8-1

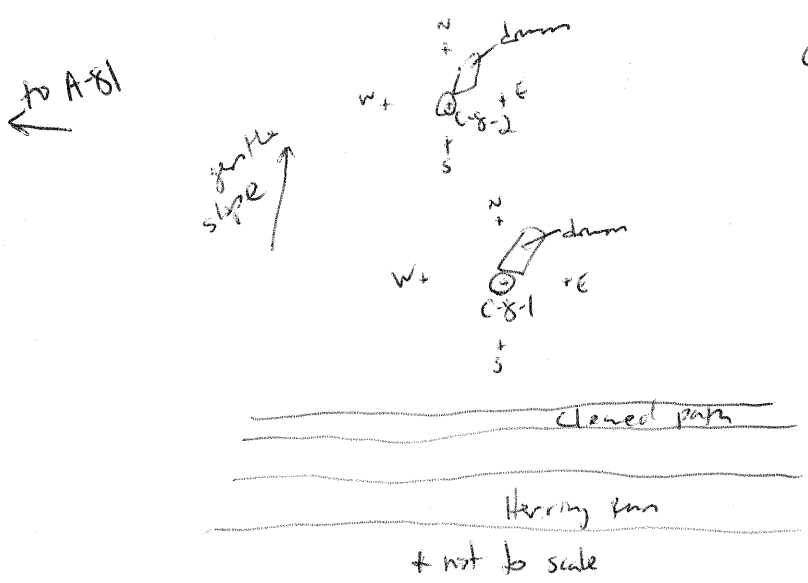
C-8-2:

North

C-8-1 to C-8-2 = 32 ft.

C-8-1 & C-8-2 to N, S, E, W edge = 5 ft.

C-8 to cleared path = ~150 ft.



+ not to scale

XRF readings taken from soil inside zip-lock bags, not in situ

68-B-R27-55-G-(0-0.5)-(D-1)-02062008

POI Inspection Form

POI ID: ~~B~~ D-1

Sampling Personnel: MM/MF

Date/Time: 2/6/08 ~~B~~ 14:40

Lat/Long: 39.30504N/76.51577W

Calibration Sample: Y (N)

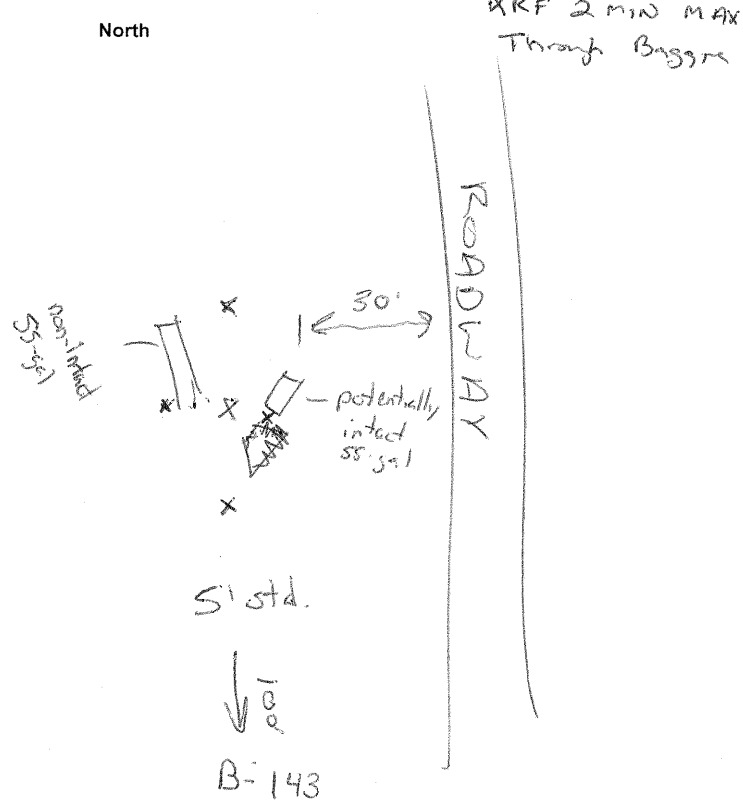
Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

(2) 55-gallon drums
1 is non-intact ~~[illegible]~~ no contents
1 ~~[illegible]~~ potential intact (covered by logs), potential solid contents.
Access along roadway

Soil: Dark BR, moist, silty SAND some organic material

Sample ID	Ar (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
D-1	207±48	4488±80	ND<91	ND<399	1.95	2.06	ND<2.5	0.037	~~ND<2.4~~ (JN)
D-1-N	412±58	6300±106	ND<105	ND<402					
D-1-E	32±6	285±7	ND<46	228±51					
D-1-S	58±5	160±6	ND<47	325±59					
D-1-W	771±91	14942±203	ND<112	ND<376					

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)



68-B-P21-SS-C7-(0-0.25)-(D-2)-02062008

POI Inspection Form

POI ID: D-2

Sampling Personnel: MM/MF

Date/Time: 2/6/08 15:06

Lat/Long: 39.30529°N 76.51578°W ±49'

Calibration Sample: Y (N)

Soil: BR, Silty, SAND, slight moisture

Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

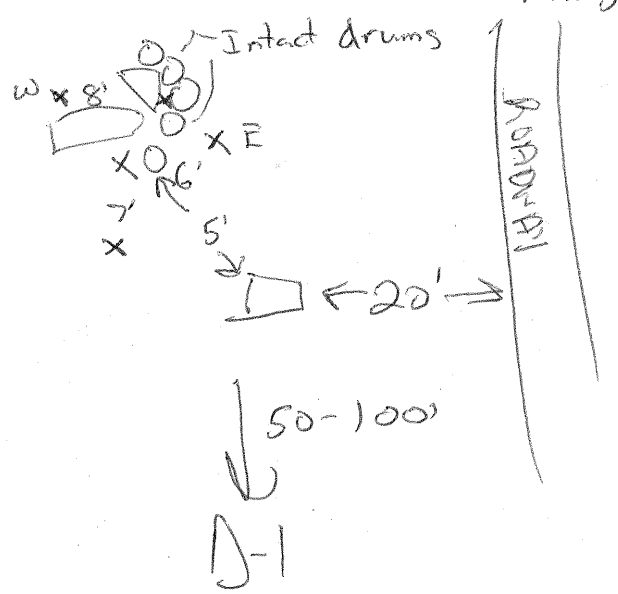
(8) 55-gallon drums, no soil staining
6 non-intact, no contents
2 potentially intact, 2/3 to 1/3 full of liquid.

Access 20' from Roadway
Easy Access

Sample ID	Ar (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
D-2	ND<14	208 ±6	ND<43	179±40	0.30	4.41	ND<2.5	0.123	~~ND<2.4~~ 0.752 (JN)
D-2-U	ND<12	159±5	63±13	148±38					
D-2-W	50±7	323±8	67±17	282±59					
D-2-E	29±5	263±7	ND<45	333±46					
D-2-S	14±5	192±5	ND<43	249±42					

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)

XRF 2 MIN MAX Through Baggie



UX-F-N27-SS-G-(0-0.25)-(D-3)-02072008

POI Inspection Form

POI ID: D-3

Sampling Personnel: MM/MF

Date/Time: 2/7/08 11:30

Lat/Long: 39.30747°N 76.51604°W

Calibration Sample: Y (N)

Soil: Dark BR, silty SAND, moist

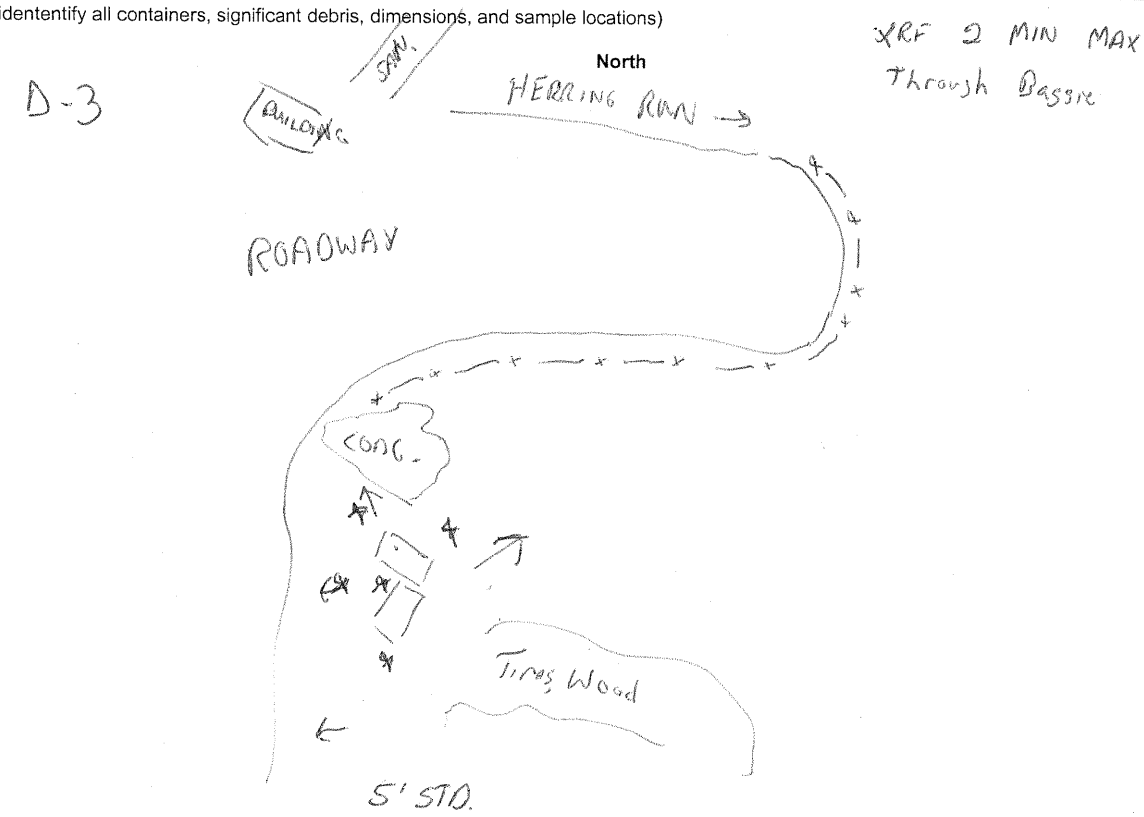
Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

(2) 30-gallon drums, intact, 2/3 full of liquid
Various conc. debris at former Junk Pile (B-107)
Likely recently moved to current location
Access along roadway

* D-3 POI was a portion of POI B-107.

Sample ID	Ar (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
D-3	ND<17	276 ± 7	ND<47	124 ± 37	0.12	2.92	ND<2.5	1.054	~~ND<7.4~~ 7.4
D-3-N	ND<13	212 ± 5	ND<40	132 ± 30					
D-3-E	ND<14	219 ± 6	ND<43	285 ± 40					
D-3-S	ND<11	134 ± 4	ND<42	ND<97					
D-3-W	ND<17	273 ± 7	53 ± 16	153 ± 37					

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)



08-F-026-SS-G-(0-0.25)-(D-4)-020+2008

POI Inspection Form

POI ID: D-4

Sampling Personnel: MM/MF

Date/Time: 2/7/08 14:24

Lat/Long: 39.30688°N 76.51653°W

Calibration Sample: Y (N)

Soil Dark BR Silty CLAY, moist

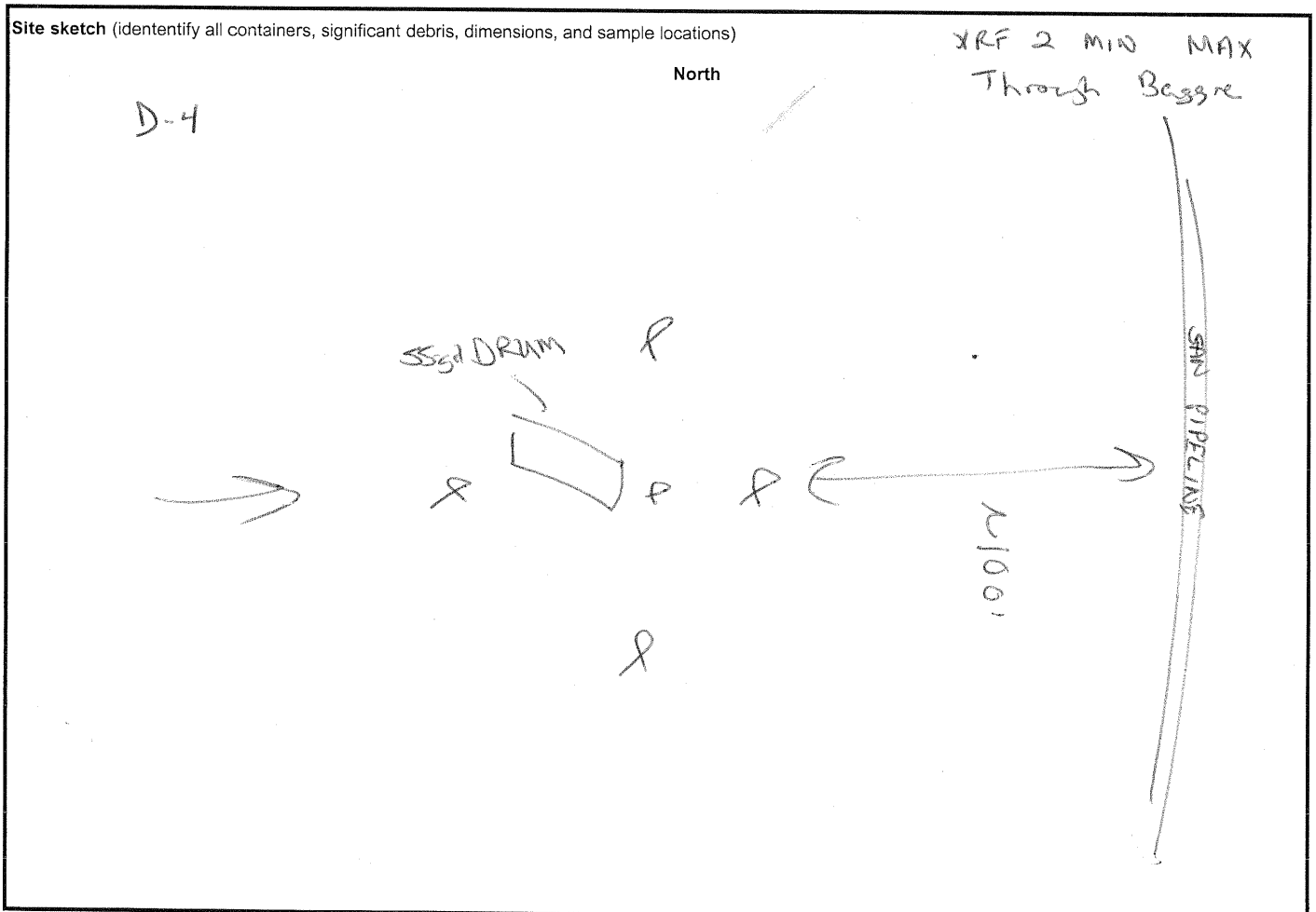
Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

(1) 55-gallon drum, crushed, non-intact no contents.

Access: 100' from Pipeline, Verey, very thick vegetation. Near impossible to access

Sample ID	Ar (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
D-4	22±7	351±9	ND<52	189±46	0.04	0.02	ND<2.5	0.343	~~ND<2.4~~ 0.225 (JA)
D-4-N	ND<25	412±10	~~ND~~ 65±19	279±57					
D-4-S	ND<14	226±6	ND<41	96±32					
D-4-W	35±9	445±11	ND<60	ND<170					
D-4-E	ND<20	338±8	ND<53	238±44					

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)



08-BUCS-SS-G-(0-0.25)-(D-5)-02072008

POI Inspection Form

POI ID: ~~D~~ D-5

Sampling Personnel: MM/MF

Date/Time: 2/7/08 15:20

Lat/Long: 39.30878 / 76.51689

Calibration Sample: Y (N)

Observations (# and type of containers, intact/non-intact, contents, soil staining, volume, other debris, accessibility):

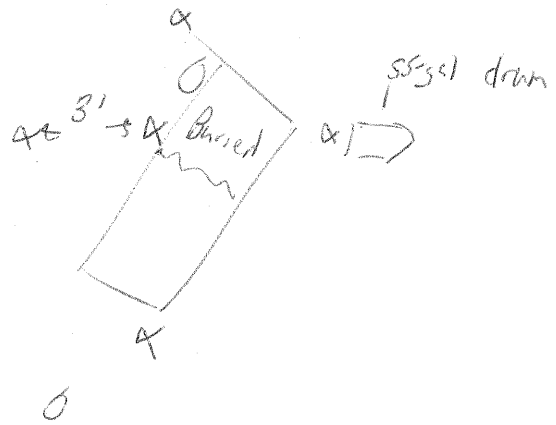
(1) 500-1000 gal tank, half buried, apparently broken
Various other metal debris
(1) Crushed 55-gallon ~~tank~~ MA drum
Access: Middle of ~~[illegible]~~ B. Very dense vegetation

Soil: Dark BR, S. Hy CLAY, moist organic matter w/ various debris

Sample ID	Ar (ppm)	Pb (ppm)	Cd (ppm)	Cr (ppm)	PID (ppm)	FID (ppm)	PCBs (ppm)	DDT (ppm)	Chlordane (ppm)
D-5	58 ±14	709±18	ND<74	ND<255	0.13	EQUIPMENT ERROR	ND<2.5	1.508	~~ND<2.5~~ 0.268
D-5-N	156 ±30	2151±42	ND<91	ND<328					
D-5-E	ND<66	1361 ±30	ND<83	ND<309					
D-5-W	143±29	2541±42	ND<81	255±84					
D-5-S	ND<77	2409±38	ND<72	ND<179					

Site sketch (idententify all containers, significant debris, dimensions, and sample locations)

North

XRF 2 MIN MAX
Through Baggie

D-5