



**CONSTRUCTION COMPLETION REPORT  
D9 AREA**

**COTTAGE GROVE SITE  
COTTAGE GROVE, MINNESOTA**

**JANUARY 18, 2011**

*Prepared for*

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**Exhibit  
2318**

State of Minnesota v. 3M Co.,  
Court File No. 27-CV-10-28862

3M\_MN00716872

2318.0001



## COTTAGE GROVE D9 AREA CONSTRUCTION COMPLETION CERTIFICATIONS

- Construction mobilization commenced the week of May 24, 2010. Excavation activities were completed on August 19, 2010, with hauling of excavated material completed on October 5, 2010.
- Notification to MPCA of project completion, November 19, 2010.
- Site decommissioning activities were completed on December 17, 2010.
- The limits of removal, as specified in the November 2009 Remedial Design/Response Action (RD/RA) Plan for the Cottage Grove Site, were all met or exceeded.
- 464 truckloads, equaling 7,482 cubic yards (11,074 tons) of material, were hauled to SKB Landfill in Rosemount, Minnesota.
- 57 truckloads, equaling 961 cubic yards (1,307 tons) of material, were hauled to the EQ Landfill (Wayne Disposal, Inc.) in Belleville, Michigan.
- The work was performed with no lost time, injuries, or near misses.

|  |   |                 |
|--|---|-----------------|
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## TABLE OF CONTENTS

| Section   | Page       |
|---|------------|
| <b>1. INTRODUCTION .....</b>                            | <b>1-1</b> |
| 1.1 BACKGROUND .....                                    | 1-1        |
| 1.1.1 Site History .....                                | 1-1        |
| 1.1.2 Perfluorochemical (PFC) Program .....             | 1-2        |
| 1.2 REFINED SOIL ALTERNATIVE S/S-3: D9 AREA .....       | 1-5        |
| 1.3 PURPOSE OF THE CONSTRUCTION COMPLETION REPORT ..... | 1-7        |
| 1.4 RESPONSE ACTION OBJECTIVES.....                     | 1-7        |
| <b>2. PRE-CONSTRUCTION .....</b>                        | <b>2-1</b> |
| 2.1 SOIL DISPOSAL PROFILE SAMPLING.....                 | 2-1        |
| <b>3. CONSTRUCTION COMPLETION.....</b>                  | <b>3-1</b> |
| 3.1 CONSTRUCTION CHRONOLOGY .....                       | 3-1        |
| 3.1.1 Summary of D9 Area Construction Activities.....   | 3-2        |
| 3.2 APPROVAL AND PERMITS.....                           | 3-5        |
| 3.3 SITE PREPARATION .....                              | 3-5        |
| 3.4 SURVEY CONTROL .....                                | 3-8        |
| 3.5 EXCAVATION ACTIVITIES .....                         | 3-8        |
| 3.5.1 Direct Load Soils .....                           | 3-9        |
| 3.5.2 Stockpiled Soils .....                            | 3-11       |
| 3.5.2.1 Stockpile Management .....                      | 3-13       |
| 3.5.2.2 Disposal at SKB Nonhazardous Landfill.....      | 3-14       |
| 3.5.2.3 Disposal at EQ Hazardous Landfill .....         | 3-14       |
| 3.5.3 Truck Loading/Unloading Operations .....          | 3-16       |
| 3.5.4 Non-Soil Debris .....                             | 3-17       |
| 3.5.5 Water Management.....                             | 3-17       |
| 3.6 SURVEY VERIFICATION OF EXCAVATION LIMITS.....       | 3-18       |
| 3.6.1 D9 Area.....                                      | 3-18       |
| 3.7 OPERATIONAL RECORDS .....                           | 3-19       |
| 3.7.1 Daily Reports .....                               | 3-19       |
| 3.7.2 Meteorological Station Data .....                 | 3-20       |
| 3.7.3 Perimeter Monitoring.....                         | 3-21       |
| 3.8 DECOMMISSIONING ACTIVITIES .....                    | 3-22       |
| 3.9 BACKFILLING, FINAL GRADING, AND REVEGETATION .....  | 3-23       |
| <b>4. REFERENCES .....</b>                              | <b>4-1</b> |



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## LIST OF APPENDICES

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**APPENDIX A: PHOTOGRAPH LOG**

**APPENDIX B: CONSTRUCTION PERMITS**

**APPENDIX C: SURVEY DOCUMENTATION**

**APPENDIX D: SAMPLING RESULTS**

**SOIL BORING SAMPLING RESULTS**

**EX SITU SAMPLING RESULTS**

**BACKFILL SAMPLING RESULTS**

**PAINT FILTER TEST SAMPLING RESULTS**

**APPENDIX E: CONSTRUCTION DOCUMENTATION**

**APPENDIX E-1: LANDFILL LOAD ACCEPTANCE SUMMARIES**

**APPENDIX E-2: UNIFORM HAZARDOUS WASTE MANIFESTS**  
(provided on disk at the end of the report)

**APPENDIX E-3: SKB WASTE MANIFESTS**  
(provided on disk at the end of the report)

**APPENDIX E-4: SKB MANIFESTS – INCIDENTAL MATERIAL  
HAULED WASTEWATER DISPOSAL FORMS**  
(provided on disk at the end of the report)

**APPENDIX F: FIELD SAMPLING SHEETS**

**APPENDIX G: METEOROLOGICAL DATA**

**APPENDIX H: PERIMETER MONITORING**



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## LIST OF TABLES

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### Title

Table 3-1 Summary of D9 Area Excavation

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## LIST OF FIGURES

---

| <b>Title</b> |   |
|--------------|---|
| Figure 1-1   | Site Features   |
| Figure 1-2   | Soil PFC Concentrations for the D9 Area                                 |
| Figure 1-3   | D9 Area Extent of Excavation, Refined Alternative S/S-3                 |
| Figure 2-1   | D9 Area – Soil Profiling Boring Locations                               |
| Figure 2-2   | Soil Disposal Profile – D9 Area   |
| Figure 3-1   | D9 - Overall Site Operations  |
| Figure 3-2   | Soil Stockpile Sampling – D9 Area                                       |
| Figure 3-3   | D9 - SKB Shipping Manifest  |
| Figure 3-4   | D9 - SKB Haul Truck Inspection  |
| Figure 3-5   | D9 – EQ Manifest  |
| Figure 3-6   | D9 – EQ Haul Truck Inspection   |
| Figure 3-7   | D9 Area Final Excavation Limits – Base of Potentially Impacted Material |
| Figure 3-8   | D9 Area Final Excavation Limits – Layer 1                               |
| Figure 3-9   | D9 Area Final Excavation Limits – Layer 2                               |
| Figure 3-10  | D9 Area Final Excavation Limits – Layer 3                               |
| Figure 3-11  | Perimeter Monitoring Locations  |
| Figure 3-12  | D9 Area Backfill  |



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## LIST OF ACRONYMS

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|          |   |
|----------|---|
| 3M       | 3M Company                                      |
| AOC      | area of contamination                           |
| bgs      | below ground surface                            |
| Bolander | Carl Bolander and Sons, Inc.                    |
| BTEX     | benzene, toluene, ethylbenzene, and xylene      |
| CCR      | Construction Completion Report                  |
| CRZ      | Contamination Reduction Zone                    |
| CSP      | Construction Sampling Plan                      |
| EQ       | Environmental Quality Company                   |
| FC       | fluorochemical                                  |
| HASP     | Health and Safety Plan                          |
| IRA      | Interim Response Action                         |
| IRAP     | Interim Response Action Plan                    |
| MDD      | Minnesota Decision Document                     |
| mg/kg    | milligrams per kilogram                         |
| MPCA     | Minnesota Pollution Control Agency              |
| NPDES    | National Pollutant Discharge Elimination System |
| PCB      | polychlorinated biphenyl                        |
| pDR      | personal DataRam                                |
| PFC      | perfluorochemical                               |
| PFOA     | perfluorooctanoic acid                          |
| PFOS     | perfluorooctane sulfonate                       |
| PID      | photoionization detector                        |
| PPE      | personal protective equipment                   |
| QAPP     | Quality Assurance Project Plan                  |
| RD/RA    | Remedial Design/Response Action                 |
| RI/FS    | Remedial Investigation/Feasibility Study        |
| SKB      | SKB Industrial Landfill                         |
| SRV      | Soil Reference Value                            |
| SVOC     | semivolatile organic compound                   |
| TCLP     | toxicity characteristic leaching procedure      |
| VOC      | volatile organic compound                       |
| WESTON   | Weston Solutions, Inc.                          |



## 1. INTRODUCTION

On behalf of the 3M Company (3M), Weston Solutions, Inc. (WESTON®) has prepared this Construction Completion Report (CCR) for the Perfluorochemical (PFC) Remediation at the D9 Area at the 3M Cottage Grove, Minnesota Site. 3M is submitting this document to the Minnesota Pollution Control Agency (MPCA) in compliance with the May 2007 Agreement and Consent Order (Agreement) between 3M and the MPCA and the requirements of the approved *Remedial Design/Response Action Plan for the Cottage Grove Site* (RD/RA Plan) (WESTON, 2009c). All construction activities were completed in accordance with the RD/RA Plan submitted to the MPCA on December 1, 2009 and information provided in this report.

### 1.1 BACKGROUND

#### 1.1.1 Site History

The 3M Cottage Grove, Minnesota facility, formerly the 3M Chemolite facility, has been in operation since 1947. The facility currently manufactures a range of products, some of which include adhesive products, specialty paper, industrial polymers, abrasives, and reflective road sign materials. The facility also engages in research and development of a proprietary nature.

Since the 1980s, 3M has worked cooperatively with state and local authorities in conducting investigation and remediation programs for various environmental media at the 3M Cottage Grove facility located in Cottage Grove, Minnesota (the Site). More recently, 3M has been involved in assessments of the presence of PFCs in these media.

Three former waste disposal areas at the Site, known as the D1, D2, and D9 Areas, were found to contain PFCs at concentrations greater than the Minnesota Industrial Soil Reference Values (SRVs). Remedial construction activities to remove soils containing PFCs at concentrations greater than the Industrial SRVs at the D1 and D2 Areas were conducted from December 2009 to May 2010. The *Construction Completion Report - D1 and D2 Areas, Cottage Grove Site* (D1 and D2 Areas CCR) was submitted to MPCA on July 23, 2010 to document the performance of remediation activities at the D1 and D2 Areas in accordance with the RD/RA Plan and information provided in the report.



The D9 Area is located west and in the vicinity of the D1 and D2 Areas as depicted in Figure 1-1. The performance of remedial construction activities at the D9 Area is the subject of this report.

### **1.1.2 Perfluorochemical (PFC) Program**

Since 2004, 3M has been working with the MPCA to assess the presence and extent of PFCs at the Site. Specifically, field activities were conducted by 3M to assess the presence of PFCs in groundwater, surface water, sediment, and soils as part of a site remedial investigation. On April 7, 2006, 3M submitted the *Fluorochemical (FC) Data Assessment Report (Data Assessment Report)* (WESTON, 2006) to the MPCA. This document contained a summary of the assessment activities, the results of these activities, identification of data needs and recommendations for the future course of action.

3M and the MPCA also entered into a Settlement Agreement and Consent Order (Agreement) with the MPCA for the purpose of conducting remedial investigations and response actions to address PFCs at the Site. The Agreement became effective on May 22, 2007. It required that 3M conduct a Remedial Investigation/Feasibility Study (RI/FS) and prepare a Remedial Design/Response Action (RD/RA) Plan with respect to the release or threatened release of PFCs at and from the Site.

The *Remedial Investigation Report (Phase 2 Fluorochemical (FC) Data Assessment Report)* (RI Report) (WESTON, 2007) was submitted by 3M to MPCA on June 29, 2007. The RI Report, together with the April 2006 Data Assessment Report, met the RI requirements of the Agreement, as stated by MPCA.

On March 13, 2008, 3M submitted the *Feasibility Study for the Cottage Grove Site, Cottage Grove, Minnesota* (FS Report) (WESTON, 2008a) to the MPCA. The FS Report was followed by Addendum 1 in April 2008 (WESTON, 2008b) and Addendum 2 in January 2009 (WESTON, 2009a), which were prepared and submitted to the MPCA in response to MPCA's requests for more information on the FS alternatives and additional PFC investigation.



FS Addendum No. 1, entitled *Addendum to the Feasibility Studies for the Oakdale, Woodbury, and Cottage Grove Sites, Minnesota* (WESTON, 2008b), was submitted by 3M to the MPCA on April 16, 2008. It was prepared to provide a description of off-site disposal locations reviewed and considered, along with a recommended disposal facility, for soil and sediment excavated from the Oakdale, Woodbury and Cottage Grove Sites under the MPCA-approved soil and sediment response action alternatives. The recommended disposal facility was the SKB Industrial Landfill (SKB) in Rosemount, Minnesota, where a separate, engineered cell would be constructed to contain the excavated PFC-containing materials.

In a letter to 3M dated April 30, 2008, the MPCA provided to 3M conditional approval of the Cottage Grove FS Report and FS Addendum No. 1. MPCA indicated its concurrence on the recommended Sitewide Alternative SW-2 and provided specific requirements for the implementation of the institutional controls. The MPCA concurred that an enhanced groundwater recovery system is needed at the Site to control migration of groundwater containing PFCs, and granted approval to proceed with pre-design activities regarding the proposed system in Groundwater Alternative GW-1. The MPCA also recommended that Soil and Sediment Alternative S/S-3 be implemented and indicated that 3M had approval to conduct additional activities to refine the areas of soil and sediment removal.

On January 6, 2009, 3M submitted to the MPCA FS Addendum No. 2, entitled *Feasibility Study Report Addendum No. 2 (Pre-Design Data Report and Alternative Refinement) for Cottage Grove Site, Cottage Grove, Minnesota* (WESTON, 2009a). FS Addendum No. 2 contained a description of the pre-design activities completed in 2008 and the associated results. In addition, FS Addendum No. 2 contained a description of Refined Soil and Sediment Alternative S/S-3 and a justification for the Groundwater Alternative GW-1. In a letter to 3M dated February 19, 2009, the MPCA approved FS Addendum No. 2.

From May to October 2009, 3M worked with MPCA and obtained approval to implement components of Refined Alternative S/S-3 that address the D1 and D2 areas as an Interim Response Action (IRA). During this timeframe, the Site continued through the RD/RA process. Specifically, on May 20, 2009, the MPCA issued the *Proposed Cleanup Plan for PFCs (Proposed Plan)* (MPCA, 2009a) for the Cottage Grove Site, placed a public notice in the *South*



*Washington County Bulletin*, and held a public meeting on May 27, 2009 to present its recommended alternatives (Sitewide Alternative SW-2, Groundwater Alternative GW-1, and Refined Soil and Sediment Alternative S/S-3). The public was given the opportunity to provide written and oral comments on the proposed remedy.

On August 28, 2009, the MPCA indicated its selection of final response actions in the Minnesota Decision Document (MDD) (MPCA, 2009b) for the Cottage Grove Site. The selected final response actions are a combination of alternatives consistent with those presented in the Proposed Plan and are described as follows:

- Sitewide Alternative SW-2 - Institutional controls, access restriction and groundwater monitoring.
- Groundwater Alternative GW-1 - Enhanced groundwater recovery with treatment prior to discharge.
- Refined Soil and Sediment Alternative S/S-3 – Remove D1 Area concrete basin structure and overlying soils; excavate soil with PFC concentrations that exceed Industrial SRVs at the Eastern Disposal Areas (D1, D2 and D9 Areas) in accordance with the MPCA-approved RD/RA Plan; stabilize the flow channel and remove PFC-containing sediments throughout the East Cove; remove portions of the sandbar at the cove outlet; transport excavated materials to the SKB Landfill in Rosemount, Minnesota; backfill excavations with clean soil, grade for positive drainage, and revegetate; and collect leachate at SKB for treatment at the 3M Cottage Grove facility.

The MPCA also indicated in the MDD that the selected remedy (i.e., disposal at the SKB Landfill) meets the requirements of the Agreement for an isolated, engineered permitted facility to contain the excavated PFC-containing material. 3M submitted to the MPCA the RD/RA Plan on December 1, 2009 and the MPCA approved the RD/RA Plan with comments on February 1, 2010.

As presented in the RD/RA Plan, the response action for the D-9 Area at the Cottage Grove Site includes:

- Excavation and off-site disposal of soils from the D9 Area in accordance with Refined Soil and Sediment Alternative S/S-3.



Due to the length of time required for implementation and completion of the entire RD/RA Plan program, it was agreed between 3M and MPCA that Construction Completion Reports (CCRs) would be prepared for each major response action element when completed. Thus, four CCRs would be submitted to MPCA, one each for: the D1 and D2 Area soils, the D9 Area soils, the East Cove and sandbar sediments, and site groundwater and institutional controls.

The excavation and off-site disposal of soils from the D1 and D2 Areas was performed in winter 2010 in accordance with the MPCA-approved *Interim Response Action Plan (IRAP)* (WESTON, 2009b) and RD/RA Plan. Final grading and backfill of disturbed areas was completed in spring 2010 and the *Construction Completion Report – D1 and D2 Areas* (WESTON, 2010) (D1 and D2 Areas CCR) was submitted to the MPCA in July 2010. It is important to note that the graded D1 and D2 Areas were used for stockpile staging during the subsequent D9 Area activities, and thus, were not revegetated upon completion of removal activities.

This D9 Area CCR provides documentation of the completion of the D9 Area response action activities under Refined Soil and Sediment Alternative S/S-3. To summarize, the excavation and off-site disposal of soils from the D9 Area was performed in summer 2010. Final backfill and grading of disturbed areas was completed in December 2010. In preparation for upcoming East Cove remedial construction activities in summer 2011, the D9 Area was covered with stone so it can serve as a construction equipment laydown area. A native seed mix was applied to the D1 and D2 Areas and covered with straw. More detail regarding site restoration is provided in Section 3.9 of this CCR.

## **1.2 REFINED SOIL ALTERNATIVE S/S-3: D9 AREA**

For the D9 Area, Refined Soil and Sediment Alternative S/S-3 includes the excavation of the D9 Area soils with PFC concentrations that exceed the Industrial SRVs. The PFC soil characterization data for the D9 Area are shown in Figure 1-2. It is important to note that SRVs for PFOA and PFOS were revised on June 22, 2009 after FS Addendum No. 2 was submitted to and approved by MPCA. The Industrial SRV for perfluorooctanoic acid (PFOA) was revised from 23 to 13 milligrams per kilogram (mg/kg) (or parts per million [ppm]). The Industrial SRV for perfluorooctane sulfonate (PFOS) was revised from 12 to 14 ppm. As noted in its letter to 3M dated October 7, 2009, the MPCA indicated that for the D1, D2 and D9 Areas, 3M shall excavate



PFC-contaminated material that exceeds the revised Industrial SRV for PFOA of 13 ppm. Although the revised Industrial SRV for PFOS is 14 ppm, MPCA required 3M to remove PFC-contaminated material that contains PFOS concentrations greater than 12 ppm.

In the FS Report, it is stated that soils containing PFOS concentrations that exceed the Industrial SRV in the D9 Area between 10 and 25 ft bgs will be targeted for removal and off-site disposal. Considering the additional pre-design PFC analytical data and the target PFC concentrations, Alternative S/S-3 was refined with respect to removal of soil from the D9 Area. Specifically, soils to a depth of 10 ft bgs do not contain PFOA or PFOS concentrations that exceed the target PFC concentrations. Therefore, these soils would be removed and stockpiled on-site for subsequent backfill. Soils between 10 and 25 feet bgs that exceed the target PFC concentrations would be removed for off-site disposal as shown in Figure 1-3. In the area of borings MW106, MW107, D918, D919, D923, and D925 through D928, the excavation would extend to 25 feet bgs. In the area of soil borings D9B01 and D912, the excavation would extend to 20 feet bgs; and in the area of soil boring D916, the excavation would extend to a depth of 15 feet bgs.

At soil boring D9B04, a PFOA concentration of 13.4 ppm was detected in a soil sample collected from the 10 to 15 feet bgs depth interval. This location would not be excavated for the following reasons:

- This PFOA concentration is very close to the revised target concentration of 13 ppm and is located below accessible soils (0 to 4 feet bgs) and near the bottom of or below the range of potentially accessible soils (4 to 12 feet bgs).
- The remainder of the soil samples from boring D9B04, which were collected to a depth of 25 feet bgs, indicated low PFOA concentrations ranging from 0.0326 to 1.32 ppm.
- The occurrence of this concentration is isolated and not contiguous to the excavation limits of the D9 Area. As shown in Figures 1-2 and 1-3, soil boring D915 is located east of soil boring D9B04 and west of the excavation limits. Soil samples collected at D915 did not contain any PFC concentrations greater than the Industrial SRVs or PFOS concentrations greater than 12 ppm.

Geotechnical information collected during a soil boring program conducted in December 2008 indicated that soil properties below 15 ft bgs in the D9 Area could restrict the vertical extent of excavation. The actual limits and final extent of excavation would depend on field conditions encountered during excavation and an excavation decision tree was provided in the RD/RA Plan



for an “open excavation” approach, if such an approach was used. Any remaining PFC mass in the D9 Area that may potentially migrate to groundwater would be captured by the groundwater extraction system to be implemented in accordance with Groundwater Alternative GW-1, which will capture/contain the groundwater beneath the D9 Area.

Based on this information, the Refined Soil and Sediment Alternative S/S-3 includes the following components at the D9 Area:

- Excavate soil that exceeds the PFOA and PFOS Industrial SRVs or a PFOS concentration of 12 ppm. This would include selective removal of the soils in the D9 Area between 10 and 25 ft bgs.
- Transport excavated soil and other encountered debris to an existing permitted off-site landfill to provide engineered isolation and containment of PFCs for these materials.
- Backfill the excavation with clean fill and grade the area to facilitate stormwater drainage.

Excavated soils would be transported to the SKB Environmental (SKB) Landfill in Rosemount, Minnesota, subject to the landfill’s acceptance criteria. Soil not meeting SKB’s permit criteria would be segregated and disposed at a separate and appropriate off-site facility.

### **1.3 PURPOSE OF THE CONSTRUCTION COMPLETION REPORT**

The purpose of this CCR is to document the response actions that have been completed at the D9 Area at the Cottage Grove, Minnesota Site. This CCR will be followed by separate CCRs for the response actions at the East Cove and for groundwater extraction and treatment as they are completed in accordance with the RD/RA Plan.

### **1.4 RESPONSE ACTION OBJECTIVES**

In accordance with the MDD, the objectives of the response actions at the Cottage Grove Site that will be met by the D9 Area removal include the following:

- To eliminate unacceptable human risk exposure to PFCs in soil.
- To reduce unacceptable human or environmental risk exposure to PFCs in groundwater.
- To control migration of PFC contaminated groundwater to adjacent surface water.
- To reduce unacceptable human or environmental risk exposure to PFCs in surface water.



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**SECTION 1  
FIGURES**

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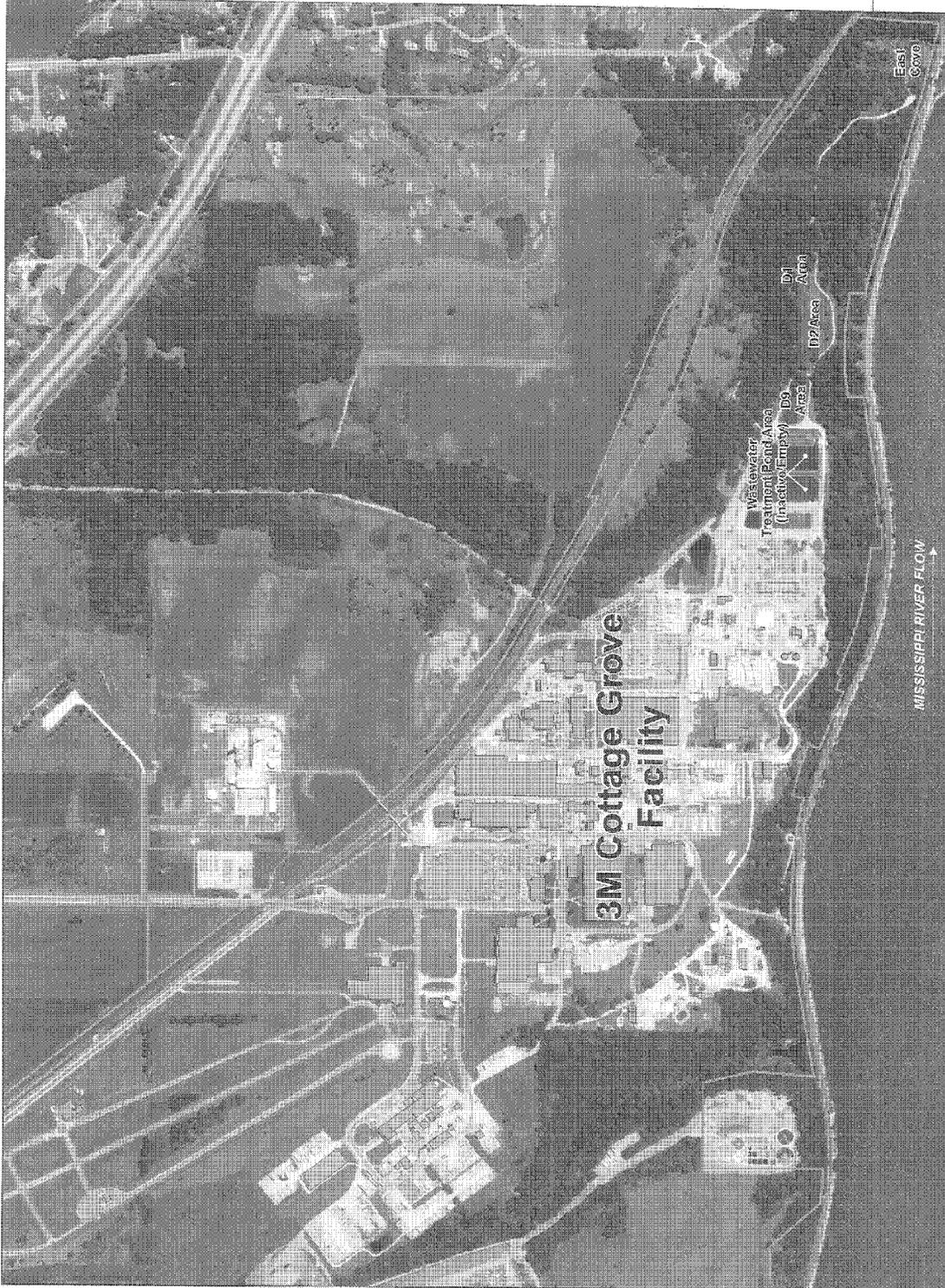
Legend

- 3M Cottage Grove
- Property Lines
- Buildings

Map Source:  
U.S. Department of Agriculture, Farm  
Services Agency, Aerial Photography  
from 1973, revised and digitized  
from 2002, by the National Aerial  
Cartographic Images (DOQ),  
Minneapolis, 2003



Figure 1-1  
Site Features  
Cottage Grove Site



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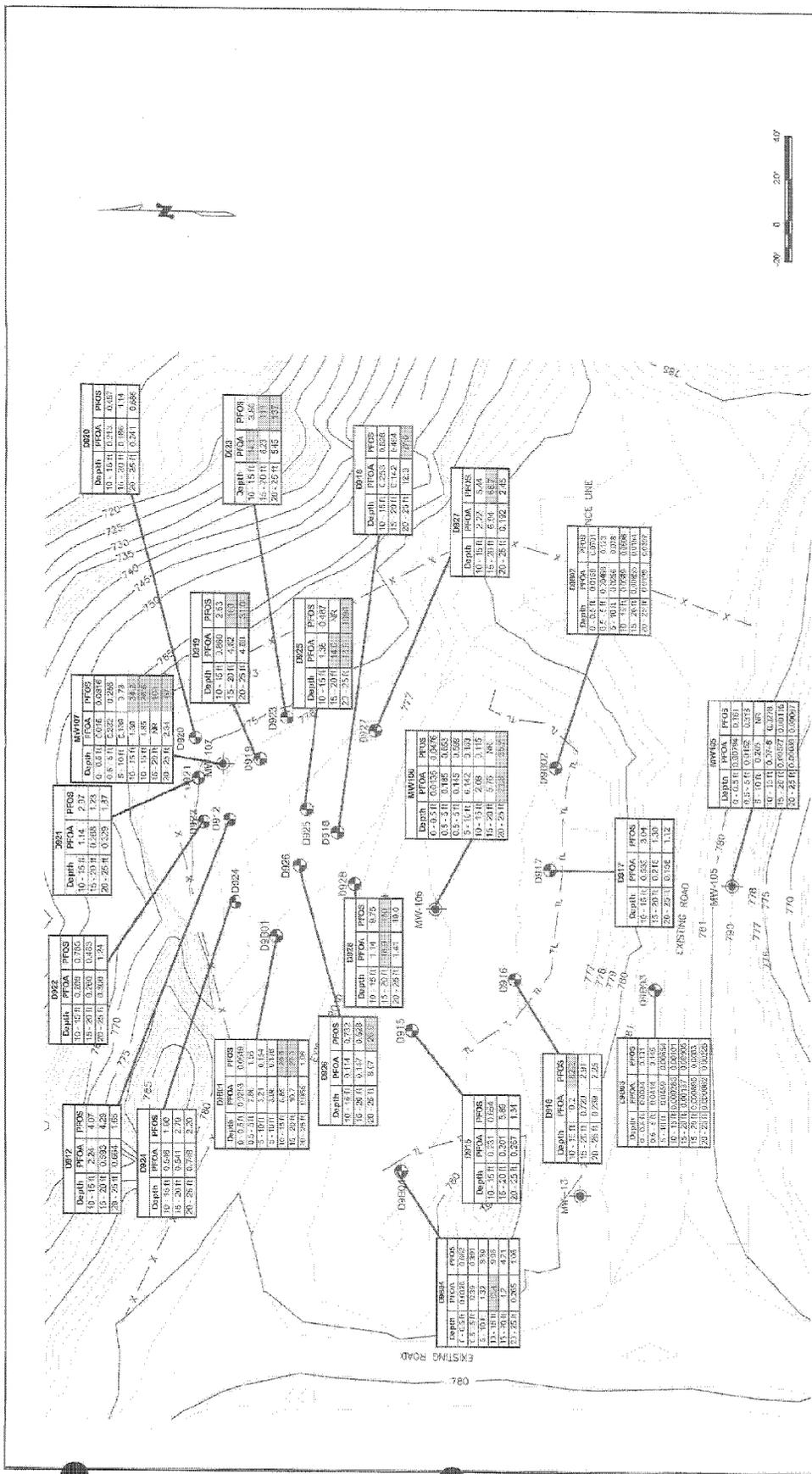


FIGURE 1-2  
SOIL PFC CONCENTRATIONS  
FOR THE D9 AREA

COTTAGE GROVE  
COTTAGE GROVE, MINNESOTA



- Existing Contour (Major)
- Existing Contour (Minor)
- Fence Line
- Soil Sampling Location
- Monitoring Well Location
- PFCA Concentration > Industrial STV or  
PFOS Concentration > 12 ppb.
- Notes: All concentrations are in ppb (dry weight).



3M\_MN00716888

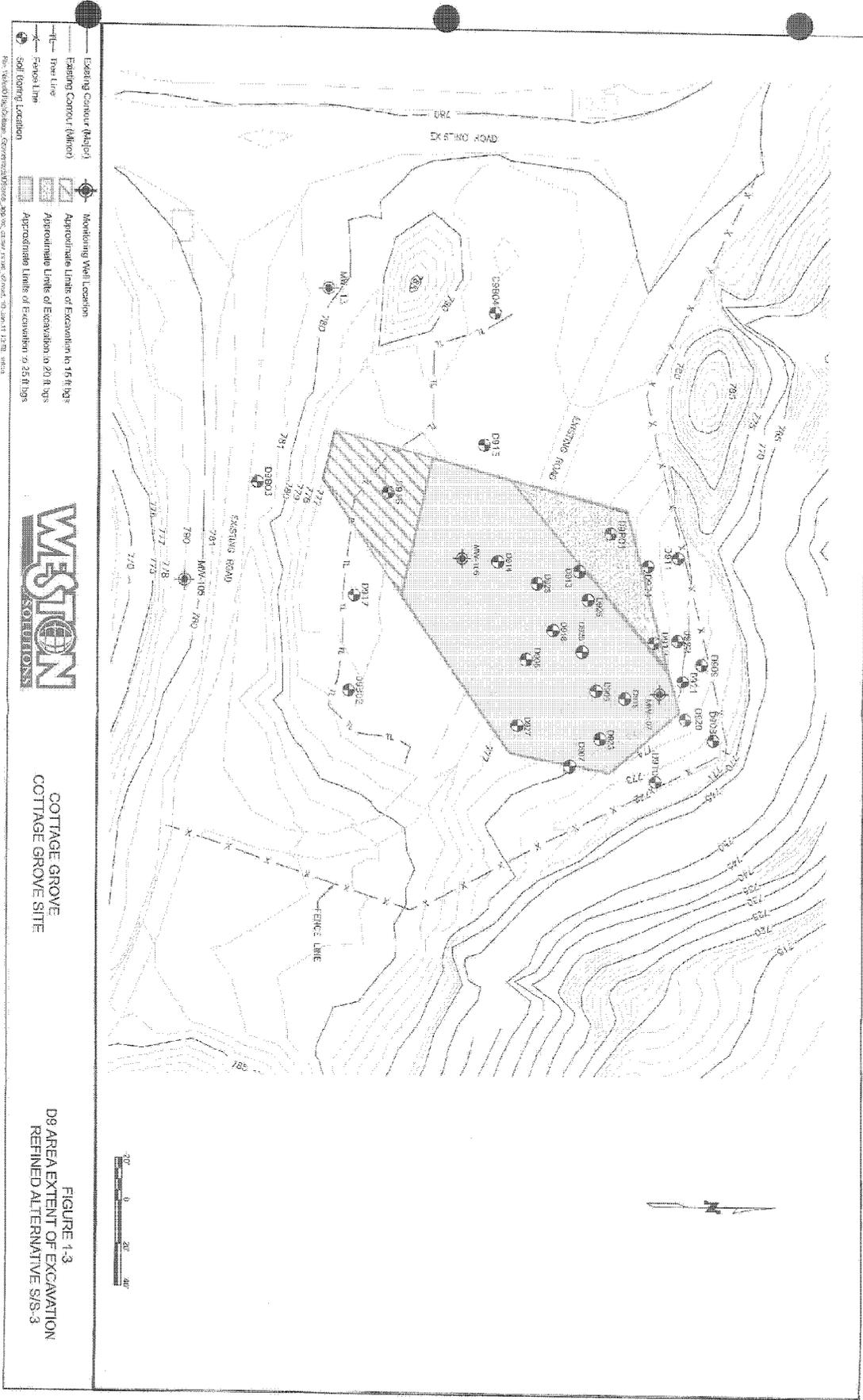


FIGURE 1-3  
D8 AREA EXTENT OF EXCAVATION  
REFINED ALTERNATIVE S/S.3

COTTAGE GROVE  
COTTAGE GROVE SITE

WESTON  
SOLUTIONS

- Existing Contour (Relief)
- Existing Contour (Relief)
- True Line
- Sensor Line
- Soil boring Location
- Monitoring Well Location
- Approximate Limits of Excavation to 15 ft bgs
- Approximate Limits of Excavation to 20 ft bgs
- Approximate Limits of Excavation to 25 ft bgs

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## 2. PRE-CONSTRUCTION

### 2.1 SOIL DISPOSAL PROFILE SAMPLING

Considering the history of the site and previous soil analyses, it was expected that soils containing VOCs, as well as PFCs, would be encountered during excavation activities. In accordance with Refined Soil and Sediment Alternative S/S-3, the excavated PFC-containing soils would be disposed at the SKB Landfill in Rosemont, Minnesota. However, the presence of VOCs or PCBs in the soils could potentially prevent their acceptance at SKB.

In June 2008, initial profile screening sampling (soil boring locations D905 and D906) was conducted in the D9 Area to gain a general understanding of the non-PFC composition of the D9 Area material. This was followed by another sampling event in March 2009 (soil boring locations D912 through D917). A description of the sampling activities and a summary of the analytical results for the June 2008 and March 2009 sampling events were presented in the MPCA-approved RD/RA Plan (WESTON, 2009c). In February 2010, a final sampling event was conducted in accordance with the Construction Sampling Plan (CSP) (provided as Attachment 1) to the RD/RA Plan, which contains a description of the in situ sampling to be performed prior to excavation. A summary of the February 2010 in situ soil sampling and results is provided below.

**February 2010 Profile Sampling** - Considering the data already obtained for the D9 Area, a final round of soil samples were collected in February 2010 from nine additional soil boring locations, D929 through D937, to obtain soil disposal profiling data for each soil block within the excavation in accordance with the CSP. The soil boring locations are shown in Figure 2-1. A total of 38 samples (17 grab samples and 21 composite samples) were collected from the borings using the following methodology as presented in the CSP:

- 5-foot sample cores were field screened visually and with a PID, and a grab sample was collected from the location of highest PID reading for blocks that required volatile organic compound (VOC) analysis.



- Composite soil samples were collected from 5-foot sample intervals for polychlorinated biphenyl (PCB), metals, toxicity characteristic leaching procedure (TCLP) VOC, TCLP semivolatile organic compound (SVOC), TCLP metals, reactivity, flashpoint, and pH analysis (where applicable).
- QA/QC samples were collected and analyzed consistent with the CSP.

The soil boring disposal profiling data are provided in Appendix D.

**Disposal Profiling** -As part of the file review process that was performed by 3M and WESTON in 2005 to identify possible PFC waste disposal locations, facility personnel interviews also were conducted. It was found that the facility personnel interviews corroborated information from the file reviews and provided additional details. Even though the D9 disposal area was not identified in the 2005 file review, from the more recent personnel interviews and review of historical photos, a disposal area was identified and now is referred to as the D9 Area. The D9 Area has since been assessed for PFCs as documented in the RD/RA Plan and soil disposal parameters (i.e., soil boring sampling results). Based on the 2005 file review and personnel interviews, no known disposal of listed waste occurred at the D9 Area. Thus, the hazardous waste determination for the D9 soils would depend on RCRA characteristic criteria. Additionally, the SKB Landfill would not be permitted to accept material with a PCB concentration greater than 50 ppm.

Based on the soil boring sampling results, soil blocks were classified as solid waste or requiring ex situ sampling after excavation. In each soil block classified as requiring ex situ sampling (shown in purple in Figure 2-2), at least one soil sample collected within the block met one of the RCRA characteristic criteria (i.e., the sample leachate concentration was greater than a TCLP limit) or the sample contained a PCB concentration greater than 50 ppm. If there was no TCLP result for soil samples collected within the soil block, the total metals and total VOC concentrations were compared to 20 times the TCLP limit. If the soil concentrations were greater than 20 times the TCLP limit, the block was designated for ex situ sampling. As discussed in the CSP, these soil blocks were excavated and divided into smaller more representative stockpiles (approximately 50 to 100 cubic yards) and sampled (ex situ) for further disposal profiling.

Except for Soil Block D9-2-1, for each of the D9 soil blocks classified as solid waste (shown in yellow in Figure 2-2), none of the soil samples collected within the blocks contained any of the above parameters in excess of the designated limits. Soil Block D9-2-1 only slightly exceeded



the “20 times TCLP” concentrations for lead and silver. It was planned to collect an in situ sample from this soil block for TCLP metals analysis to confirm the metals results and excavation of this block would not proceed until soil confirmation results were received. (Note: The ex situ sampling results are provided in Appendix D and indicate that this block did meet non-hazardous criteria).

In a letter dated April 15, 2010, 3M requested from the MPCA a determination as to whether the SKB Landfill would be able to accept such soil classified as solid waste as well as stockpiled soils subjected to ex situ sampling and demonstrated to meet solid waste criteria. MPCA responded to the request in an office memorandum dated May 3, 2010 as follows:

“The Minnesota Pollution Control Agency (Agency) has been asked to make a hazardous waste determination review on VOC, PCB, and RCRA metal contaminated soil to be excavated at the 3M Cottage Grove site, D9 Area. The remediation will be overseen by MPCA Superfund staff. 3M indicated that no known listed hazardous waste was disposed in the D9 area. 3M proposes to dispose of all contaminated soil from the D9 area at the SKB landfill if concentrations are below RCRA characteristic criteria and PCB concentrations are less than 50 ppm. VOC concentrations in soil are below Industrial SRVs except for petroleum related compounds (BTEX).”

“The April 15, 2010 Request for Determination from 3M indicates that based on sampling to date, some soil will be sent directly to SKB upon excavation, and some will be stockpiled on site for further sampling and possible treatment in accordance with the construction sampling plan. This Hazardous Waste Determination is contingent on following both the waste management plan and the following comments:

1. The assumption here is that the analytical results presented for each grid are representative of the soil in that grid. If there are indications that it is not, additional samples should be collected.
2. Soils identified by the in-situ sampling as being below 50 ppm PCB, and showing no characteristics of a hazardous waste can be managed as a non-hazardous waste if disposed at the SKB landfill as approved by SKB.
3. Soil to be stockpiled should be stockpiled in the area of contamination (AOC) prior to ex-situ sampling and managed in a way to prevent further release.



4. For the stockpiled soil, all stockpiles that exceed 50 ppm PCB based on ex-situ sampling should be managed as a hazardous waste.
5. Stockpiled soil may be treated in the AOC to remove the hazardous waste characteristic. 3M should inform the MPCA how they intend to treat the soil if necessary prior to treatment. It is likely that excavation and stockpiling of soil will decrease VOC levels in most cases. If ex-situ sampling results indicate the stockpiled soil is no longer characteristic, and contains less than 50 ppm PCB, the soil may be managed as a non-hazardous waste if disposed at the SKB Landfill as approved by SKB.”

The performance of construction, excavation, and air sampling activities for the D9 Area, complied with the requirements of the MPCA letter approval, are described in Section 3.



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**SECTION 2  
FIGURES**

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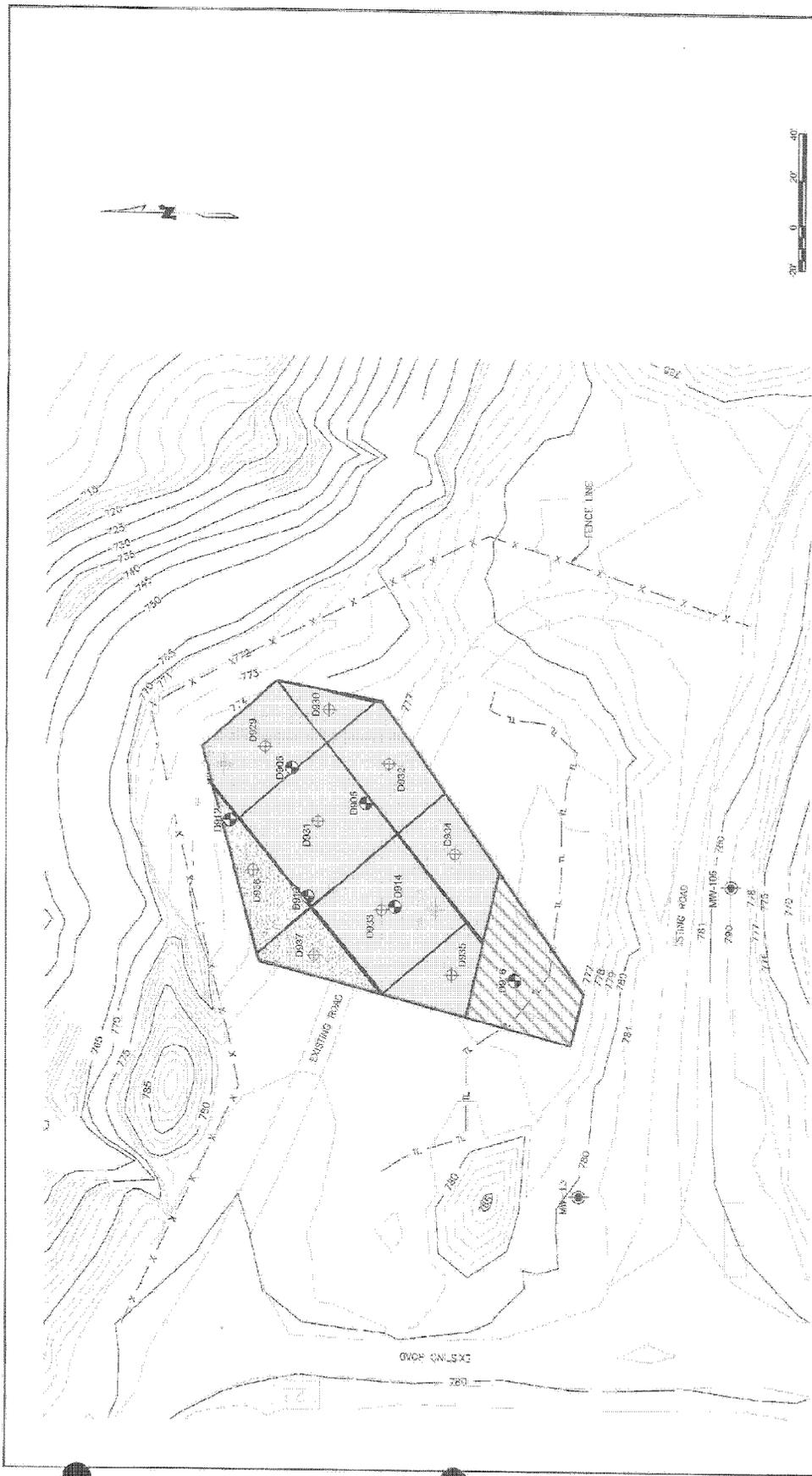


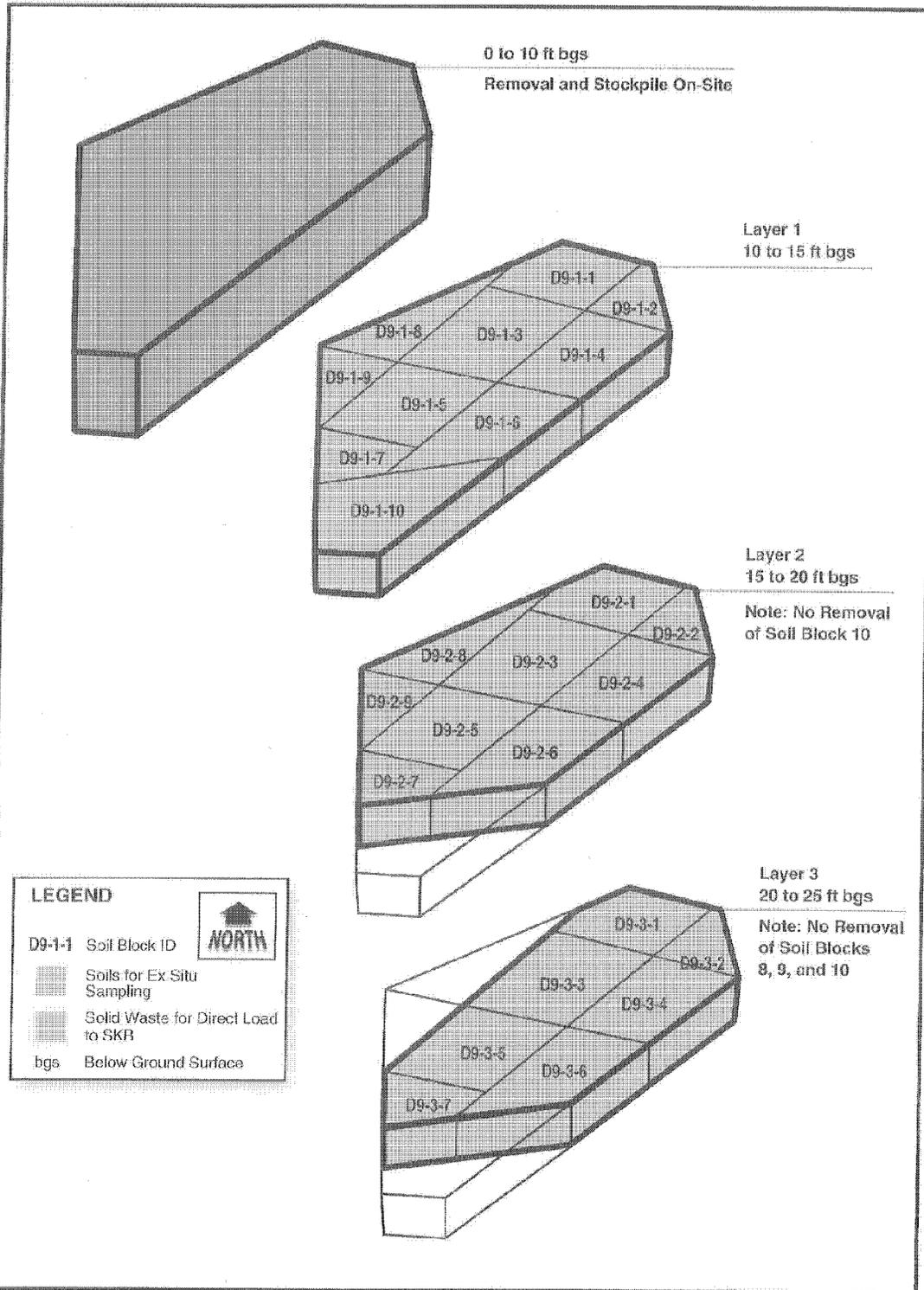
FIGURE 2-1  
D9 AREA  
SOIL PROFILING BORING LOCATIONS

COTTAGE GROVE  
COTTAGE GROVE SITE



- Existing Contour (Major)
- Existing Contour (Minor)
- Top Line
- Fence Line
- Previous Soil Boring
- February 2010 Soil Boring Location
- Approximate Limits of Excavation to 15 ft bgs
- Approximate Limits of Excavation to 20 ft bgs
- Approximate Limits of Excavation to 25 ft bgs
- 50 ft Grid

File: \\uswest\hpc\cottage\_groves\map\03\soils\_profiling\_wgs\_2007.mxd, 11/14/07, 11:43:45 AM



**FIGURE 2-2 SOIL DISPOSAL PROFILE  
D9 AREA  
COTTAGE GROVE SITE**



### 3. CONSTRUCTION COMPLETION

The following sections contain a summary of the activities that were conducted to implement the components of Refined Soil Alternative S/S-3 for the Cottage Grove Site D9 Area as presented in the MDD and the MPCA-approved RD/RA Plan. The numbered photographs referenced throughout the text of this CCR can be found in the photograph log provided in Appendix A.

#### 3.1 CONSTRUCTION CHRONOLOGY

Excavation of the D9 Area at the Cottage Grove Site commenced in May 2010. A timeline of preconstruction and construction activities is as follows:

- December 1, 2009 – Submission of RD/RA Plan to MPCA.
- February 1, 2010 – Approval of the RD/RA Plan by the MPCA.
- May 24, 2010 – Mobilization and Site preparation activities begin in the D9 Area.
- June 9, 2010 to August 19, 2010 – Excavation of the D9 Area.
- August 25, 2010 – Commence backfilling and grading of the D9 Area.
- October 6, 2010 to December 21, 2010 – Decommissioning activities (includes equipment demobilization).
  - October 6, 2010 – Decommissioning and removal of a portion of the exclusion zone.
  - October 11, 2010 – Final removal of the reduced exclusion zone.
  - October 13 to October 20, 2010 - Removal and decontamination of sheet piling.
  - November 19, 2010 – Formal notification of project completion provided to MPCA.
  - December 21, 2010 – Final site survey.

In April 2010, 3M conducted procurement activities and selected a contractor, Carl Bolander and Sons, Inc. (Bolander), to conduct soil excavation and removal followed by backfill and restoration. As indicated in the RD/RA Plan, WESTON performed on-site construction and environmental oversight, sampling, survey control and verification, perimeter monitoring and documentation.



Site preparation activities were conducted by Bolander beginning on May 24, 2010. These activities consisted of clearing the excavation area, installation of exclusion zone fencing and sediment and erosion controls, installation of stockpile staging and load-out areas, and improvement of the existing access road.

It should be noted that the D9 Area excavation was located immediately west of the D1 and D2 Area excavations, which had just been completed by Bolander in May 2010. Therefore, site mobilization activities were minimized. The construction trailers and sanitary facilities were not moved between the projects. The existing fencing and haul road were adjusted to accommodate the D9 Area excavation. On May 24, 2010, WESTON moved the meteorological monitoring station to a location selected for the D9 Area excavation activities (See Section 3.7.2).

WESTON and their subcontractor, TKDA (a Minnesota licensed surveyor), set up survey control and delineated the excavation area consistent with RD/RA requirements for removal. WESTON and TKDA performed all of the verification and certification surveying for delineation of areas and limits of excavation. Bolander performed operational surveying for their crews and operators.

### **3.1.1 Summary of D9 Area Construction Activities**

It had been decided by 3M that a temporary sheet pile wall would be installed along the northern perimeter of the D9 Area excavation to address potential slope stability issues identified by a geotechnical assessment conducted in December 2008 and summarized in the RD/RA Plan. Specifically, the sheet pile wall would facilitate excavation in the northern portion of the D9 Area into soft soil/waste and immediately adjacent to the steep side slope of a ravine.

On May 21, 2010 the sheet piling was delivered to the site and on May 24, 2010, the installation of the sheet pile wall commenced. Approximately 225 linear feet of sheet pile wall with a wall surface area of approximately 6,700 square feet was installed and consisted of 94 interlocking steel sheets driven approximately 30 feet below ground surface (bgs) or to refusal (due to encountering historic C&D waste material), if less than 30 feet bgs. The sheet pile wall installation was completed on June 2, 2010. Photographs 1 to 5 provided in Appendix A, show the sheet pile wall installation along the north side of the D9 Area.



Bolander constructed stockpile staging areas east of the D9 Area in preparation for the start of excavation activities. This was the location of the former D1 and D2 Area excavations, which had been backfilled and graded in May 2010.

On June 9, 2010, after WESTON surveyed and delineated the limits of excavation, excavation of the D9 Area commenced with the removal and stockpiling of potentially impacted material, i.e., material in the D9 Area, but not containing PFCs at concentrations greater than the Industrial SRVs. The potentially impacted material included the top 10 feet of material from ground surface, which was above and outside the removal limits defined in the RD/RA, as well as the side slope material that was also beyond these removal limits. Previous sampling confirmed that this top 10 feet of material did not contain PFC concentrations greater than the Industrial SRVs. The side slope material is the material on the perimeter of the excavation, outside the limits specified for removal, excavated for slope stability. All potentially impacted material was stockpiled in a designated staging area for the duration of excavation activities and used as backfill material when the D9 Area excavation was complete.

Removal of PFC-containing materials from the D9 Area commenced on July 2, 2010 with the excavation of soil block D9 1-9 and was completed on August 19, 2010 with the excavation of soil block D9 3-4. Hauling of all excavated material was completed on October 5, 2010 with the final stockpiled material from stockpile D9 3-3 005-1 hauled to the EQ Landfill in Belleville, Michigan. Survey verification shots were recorded by WESTON after each individual soil block was excavated and after the completion of excavation activities to ensure the objectives presented in the RD/RA were met or exceeded.

The RD/RA included a "decision tree" procedure to be used in the D9 Area for a conventional "open excavation" into soft or potentially unstable soil conditions. Based on field conditions, the procedure would be followed as a basis for decision making on improving side slope stability and determining the depth of excavation. Admixture material (i.e., lime kiln dust (LKD)) could be used as one option for improving the stability of excavation side slopes if it was determined to be necessary. It could also be used to remove free water, sufficient to allow the material to pass the Paint Filter Test for landfill acceptance and disposal.



During the D9 Area excavation, it was not necessary to implement the “decision tree” process since side slope stability was not an issue during excavation activities and the sheet piling wall on the north side of the excavation provided stability in that area. Additionally, all material passed the Paint Filter Test indicating that no admixture material was required for disposal. However, LKD was used on site by the contractor to improve soil conditions for the support of heavy equipment and for stockpile conditioning. This is discussed further in Section 3.5.2.1. Photographs 6 to 9, provided in Appendix A, document the LKD usage on-site.

Backfilling of the D9 Area excavation began on August 25, 2010. A detailed description of backfilling activities is presented in Section 3.9. Survey verification shots were recorded by WESTON after backfilling and final grading to ensure the objectives presented in the RD/RA were met. The final survey of the site was conducted on December 21, 2010.

It is noted that in the Fall 2010, backfill, grading, removal of silt fencing, and revegetation/stabilization activities at the D9 Area and the D1/D2 Areas, were coordinated with the East Cove access/haul road improvements (see Section 3.9). The road improvements were conducted in preparation for the upcoming East Cove sediment removal project, i.e., the remaining component of Refined Soil and Sediment Alternative S/S-3 to be implemented. The D9 Area will be utilized during the East Cove sediment excavation for support, staging and stockpile construction. The D9 Area will also be used for setup of the skid-mounted GAC treatment system for the extended pump test of the extraction wells. The final restoration of the surface of the D9 Area (i.e., revegetation) will be performed after the East Cove sediment removal project is completed.

Decommissioning activities were conducted at the D9 Area from October 6, 2010 to December 21, 2010 and included completion of backfilling, removal of the stockpile staging areas, reduction and removal of the exclusion zone, removal of sheet piling, and decontamination and demobilization of equipment.

After backfilling to pre-existing grade was completed, 3M notified MPCA on November 19, 2010 that the required response actions at the D9 Area were completed. Some final grading occurred between November 19 and December 21, 2010 when the final survey was completed.



This activity was conducted to grade out additional East Cove road material and improve draining of the D9 Area.

### 3.2 APPROVAL AND PERMITS

The following subsections provide a detailed description of the activities that were completed in the D9 Area for removal and off-site disposal of PFC-containing materials in accordance with the MPCA-approved RD/RA Plan.

The RD/RA Plan was submitted to the MPCA on December 1, 2009 and the MPCA provided approval of the plan with comments in a letter to 3M dated February 1, 2010. MPCA approval of the RD/RA Plan constituted approval to conduct the activities described in the Plan. The following permits also were filed and obtained:

- NPDES Construction Stormwater Permit - On December 10, 2009 3M submitted to the MPCA a Permit Modification Form for the existing National Pollutant Discharge Elimination System (NPDES) Construction Stormwater Permit (ID # C00027036). The purpose of this modification was to add the Site excavation contractor, Bolander, on to the existing 3M NPDES permit. A copy of the completed Permit Modification Form and MPCA approval letter is provided in Appendix B.
- Grading Permit/Conditional Use Permit – Bolander, on behalf of 3M, submitted to the City of Cottage Grove, an application for grading and site work at the D9 Excavation Area. The permit (No.: 2010-00595) was issued on May 5, 2010. A copy of the permit is provided in Appendix B.
- Contractor Construction Documents – Prior to construction activities, Bolander submitted to 3M a HASP, Decontamination Plan, Excavation Plan, and a Transportation Plan for review and comment. 3M and WESTON reviewed the plans and provided comments which were then addressed by Bolander.

### 3.3 SITE PREPARATION

Bolander's site preparation consisted of completing additional clearing, establishing the exclusion zone around the D9 excavation area, construction of load-out zones, and construction of the stockpile staging areas. The truck weigh scale was already in place from the D1/D2 Area project. These features, as well as the excavation limits and soil block grids, were surveyed as shown in Figure 3-1.



The exclusion zone was delineated with black silt fencing and identifying signs. Additionally, orange construction fencing was added on June 9, 2010 around the D9 excavation area as a wildlife deterrent. Photograph 10 and 11, provided in Appendix A, show the established exclusion zone and wildlife deterrent fencing. The exclusion zone encompassed the limits of the excavation and marked the boundary for movement of excavation equipment. Areas enclosed within the exclusion zone included the footprint of the excavation, soil stockpile areas for ex situ disposal profile sampling, stockpile areas for the potentially impacted material, as well as load-out zone locations. This ensured that excavation equipment coming into contact with the PFC-containing soil remained in the exclusion zone at all times unless it was decontaminated. Additionally, the exclusion zone marked the boundary to which non-excavation equipment could approach the excavation limits. This prevented the haul trucks and other equipment from coming into contact with PFC-containing soil.

Any personnel entering the exclusion zone were required to wear the appropriate personal protective equipment (PPE) in accordance with the site Health and Safety Plan (HASP). The PPE requirements of the HASP for the work site area outside the exclusion zone included Level D PPE consisting of long pants, safety shoes, safety glasses, a hard hat, hand protection (as necessary), hearing protection (as necessary) and a Class 2 safety vest. Level C PPE was required within the exclusion zone and the contaminant reduction zone. The additional PPE requirements for Level C included chemical-resistant coveralls, chemical-resistant outer boots or boot shoe covers, chemical-resistant gloves, and an air purifying respirator. In some instances, during excavation activities, Bolander employees downgraded from Level C to Modified Level D PPE. Modified Level D required all the PPE requirements for Level C without the respirator. Bolander performed their own air monitoring before and during the PPE level downgrades. Weston employees remained in Level C at all times within the exclusion zone during excavation activities.

Upon preparing to exit the exclusion zone, the proper decontamination procedures were required. The Contamination Reduction Zone (CRZ) consisted of the areas surrounding and inside the decontamination trailer (Figure 3-1). Detailed decontamination procedures were outlined in the Decontamination Plan submitted by Bolander to 3M along with their Work Plan. Additional information is included in the WESTON Decontamination Plan, included as an attachment in the RD/RA Plan.



A load-out zone was built along the exclusion zone fencing next to the haul road. The load-out zone consisted of a ramp within the exclusion zone and a tarp curtain at the edge of the exclusion zone. This design allowed trucks, located outside of the exclusion zone, to be loaded using equipment inside the exclusion zone (Photograph 12, provided in Appendix A). The tarp curtain was stretched across the width of the load-out zone ramp to make a barrier approximately the height of a truck bed. The tarp was installed to prevent spillage during haul truck loading activities.

As shown in Figure 3-1, the truck weigh scale was located outside of the exclusion zone and load-out areas. The scale was used by Bolander to determine the net weight of each load to be hauled to the EQ Disposal facility in Michigan and to ensure that the trucks were within their legal limit for hauling. Photograph 13 shows the weigh scale in the background. Toward the conclusion of the project, after the Bolander truck scale had been removed from the site, a second scale owned by 3M and located within the Cottage Grove facility, was utilized.

The stockpile staging areas, used for staging and ex situ sampling of soils for disposal profiling, were constructed by placing 10-mil poly liner on the prepared ground surface and covering the liner with six inches of clean sand. In accordance with project specifications, the liner was placed under the complete footprint of the stockpiled material with liner edges overlapping by at least 12 inches. The purpose of liner was to prevent contact between the excavated PFC-containing soils and the underlying ground surface. Bolander constructed and maintained the staging areas. If a staging area was compromised, showing rips in the 10-mil poly liner or washout of the berm, the staging area was repaired. Photograph 14, provided in Appendix A, shows a newly constructed soil stockpile staging area (identified as PIM-2 on Figure 3-1) for potentially impacted material.

Also as part of site preparation activities, a meteorological station (“met station”) was installed by WESTON west of the D9 Area excavation. Photograph 15, provided in Appendix A, shows the meteorological monitoring station. The location of the met station is included in Figures 3-1 through 3-3, and a more detailed discussion of the met station is provided in Section 3.7.2.



### **3.4 SURVEY CONTROL**

TKDA, a registered land surveyor in the State of Minnesota, performed survey verification for the excavation activities. TKDA acted as an independent surveyor contracted to WESTON. Prior to the start of excavation activities, TKDA staked the excavation boundaries as well as boundaries of the sloped excavation sidewalls. Throughout the duration of the project, surveying was performed on an as-needed basis to guide the excavation and to confirm when delineated limits of each soil block were reached. Photographs 16 to 18, provided in Appendix A, show the survey procedure.

Copies of the survey documentation produced by TKDA throughout construction activities are provided Appendix C. Additionally, the site operations map (Figure 3-1) shows the locations of the on-site benchmark and survey control points that were used.

### **3.5 EXCAVATION ACTIVITIES**

As noted in Section 3.1.1, previous sampling of the D9 Area indicated that the top 10 feet of material did not contain PFC concentrations greater than the Industrial SRVs. As such, this potentially impacted material was removed and stockpiled within the exclusion zone to access the limits of removal defined in the MPCA-approved RD/RA Plan. The locations of potentially impacted soil stockpile areas (PIM-1 and PIM-2) are shown in Figure 3-1. Photographs 20 and 21, provided in Appendix A, show the potentially impacted material staging area.

Bolander then continued excavation by removing individual soil blocks one at a time within the delineated excavation area. The corners of each individual soil block were surveyed and identified with a lathe survey stake. Bolander dug out each block relying upon the survey markers and a portable GPS unit.

Soil material was excavated from the side slopes of the D9 excavation at a 1-1/2:1 slope per the project specifications. Lathe survey stakes were used in the field to mark the top of slope, which was beyond the defined removal limits. Photograph 19, provided in Appendix A, shows the staking at the top of slope. This slope material was outside the RD/RA specified limits of removal and did not have to go off-site for disposal. It was placed in the staging areas for



potentially impacted material (PIM-1 and PIM-2) for use as backfill when excavation activities were complete.

Non-soil debris was encountered during the excavation activities and consisted of concrete footers, drum fragments and a colored powder material. Further detail relating to the non-soil debris is discussed in Section 3.5.4.

The D9 Area soil block figure (Figure 3-2) was referenced to determine the depth for each soil block excavation and whether, based on soil boring sampling results (i.e. in situ) and MPCA's waste determination, the soil block could be direct-loaded for off-site disposal (direct load soils) at the SKB Landfill or was required to be stockpiled for ex situ sampling (stockpile soils) in smaller piles for disposal profiling. This methodology was described in detail in the Construction Sampling Plan (CSP) which was included as an attachment in the approved RD/RA. Excavation depths for the D9 Area and off-site disposal locations were outlined in the RD/RA Plan as well.

### **3.5.1 Direct Load Soils**

“Direct load” refers to those soils that can be excavated and directly loaded out to the SKB Landfill without the need for stockpile and ex situ disposal profile sampling.

On the D9 Area soil block figure (Figure 3-2), yellow colored blocks indicated soil that could be directly loaded onto haul trucks for disposal at the SKB nonhazardous industrial waste landfill in Rosemount, Minnesota. The in situ disposal profile sample results for soils represented by a yellow colored block indicated that none of the soil boring samples within the block met the RCRA hazardous characteristic criteria, soil leachate concentrations were less than the VOC Toxicity Characteristic Leaching Procedure (TCLP) limits, soil leachate concentrations less were than the metals TCLP limits, and soil PCB concentrations less than 50 mg/kg [ppm]).

To reduce the movement of equipment into and out of the excavation limits, Bolander placed each direct load soil block into a single stockpile for loadout. This temporary staging stockpile was constructed within approved stockpile staging areas. From this staging stockpile, the soil was loaded out into haul trucks. Photograph 22, provided in Appendix A, depicts a large staging



stockpile of direct load material placed in close proximity to a load out zone. A description of the soil loading/unloading activities is provided in Section 3.5.3.

The direct load soil blocks from the D9 area included: D9 1-1, D9 1-2, D9 1-4, D9 1-5, D9 1-6, D9 1-7, D9 1-10, D9 2-1, D9 2-3, D9 2-5, D9 2-6, D9 2-8 and D9 3-2. These soil blocks were approved by MPCA for disposal at SKB based on the in situ sampling results. As noted on Figure 3-2, an in situ soil sample was collected from soil block D9 2-1 and analyzed for TCLP metals to confirm that this block met non-hazardous criteria, which it did. Accordingly, the soil block was designated for disposal as direct load. A tabular summary of the in situ disposal profile results for the direct load soil blocks is provided in Appendix D.

Documentation was maintained for each truckload of soil leaving the site to track it to its final disposal location. A manifest and a haul truck inspection sheet were prepared by WESTON for every truck prior to the departure of the truck from the Site. For direct load soils, an SKB shipping manifest and a SKB haul truck inspection sheet were used. All shipping manifests were developed and printed by the landfill (assisted by WESTON), filled out on-site by WESTON personnel, signed by a 3M representative (as the waste generator), and signed by the transporter. Each manifest consisted of 4 carbon copies, each to be maintained in the respective files of the waste generator (2 copies), transporter and landfill, creating a documentation trail for all excavated wastes from the point of generation through disposal at the landfill. The haul truck inspection form was developed and completed by WESTON personnel. The haul truck inspection sheet was a pre- and post-loading checklist that documented the adherence to hauling procedures as presented in the Soil Transportation Plan, included in the project specifications.

A typical SKB shipping manifest (generator copy) and a typical truck inspection sheet for direct load soils are provided in Figures 3-3 and 3-4, respectively. A complete set of all SKB shipping manifests (generators copy) are provided in Appendix E (on CD). The haul truck inspection sheets are maintained by 3M and WESTON in the project files.

Each SKB shipping manifest has a unique ID number and the shipping manifest is the primary document used for tracking each truck load of soil. Recorded on the manifest is the soil block from which the material originated. For example, as shown in Figure 3-3, "D9 2-1" was



recorded on SKB shipping manifest #739859 to indicate that the manifest represented the direct load material from excavated Soil Block D9 2-1.

Additionally, a unique “container ID”, soil block source, and load number were recorded on the truck inspection sheet for each load. The unique container ID is a combination of the trailer number and the manifest number. For example, as shown in Figure 3-4, the unique container ID was recorded as “106-739859” to indicate that trailer #106 contained the load associated with SKB shipping manifest #739859. Soils that were shipped to the SKB Landfill, such as the direct load soils, were not weighed on-site, but were weighed at the SKB facility. When the weigh ticket for each load was received by Bolander from SKB, a copy of the landfill-provided load ticket was obtained by WESTON for the project files, and the weights for each load were recorded on the respective haul truck inspection sheets.

The SKB-accepted load summary list provided in Appendix E-1 contains the manifest number for each load accepted at the landfill, as well as the net weight in tons. This list was provided by the SKB Landfill at the conclusion of all trucking activities.

### **3.5.2 Stockpiled Soils**

On the D9 Area soil block figure (Figure 3-2), purple colored blocks indicated that certain soil blocks, based on sampling results from soil borings and MPCA’s waste determination, were required to be stockpiled for ex situ sampling for disposal profiling. These soils were excavated in accordance with the CSP and placed in approximately 100 cubic yard stockpiles in the lined stockpile staging areas. Each approximately 100 cubic yard stockpile was split into two sub-piles, approximately 50 cubic yards each.

Stockpiles were named by the soil block from which the material originated and then each 100 cubic yard stockpile was numbered in ascending numerical order. Each half of the 100 cubic yard stockpile was denoted with either a “-1” or a “-2”. For example stockpile “D9 1-3 001-2” refers to material that originated in soil block D9 1-3 and is the second half of the first 100 cubic yard stockpile removed from that soil block. Photographs 23 - 26, provided in Appendix A, depict the placement of the stockpiles and the nomenclature for the stockpiled material.



The stockpiles were sampled in accordance with the CSP to determine the disposal destination for the particular stockpile or sub-pile. The analyses selected for the ex situ sampling of the stockpile were dependent upon the parameters that exceeded the non-hazardous criteria during the soil boring sampling. For example, since all of the samples from soil borings tested for ignitability and reactivity were found to be negative for these RCRA characteristics, none of the ex situ samples required ignitability or reactivity analyses.

Sampling procedures were conducted in accordance with the CSP and Quality Assurance Project Plan (QAPP). Copies of the field sampling sheets for all soil stockpiles are provided in Appendix F. Laboratory data packages are quite voluminous and are maintained in WESTON project files. To be consistent with the other completed perfluorochemical (PFC) projects, i.e., the Cottage Grove D1 and D2 Areas and the Woodbury Main Disposal Area, the data packages are not provided in this the CCR.

Stockpiles or sub-piles with ex situ analyses that met the nonhazardous solid waste criteria (soil leachate concentrations less than the VOC TCLP limits, soil leachate concentrations less than the metals TCLP limits, and/or soil PCB concentrations less than 50 ppm) were managed as solid waste (nonhazardous) and sent to the SKB Landfill.

Stockpiles or sub-piles with ex situ analyses that did not meet the nonhazardous solid waste criteria (i.e., soil concentrations greater than the VOC TCLP limits and/or soil PCB concentrations greater than 50 ppm) were managed as potentially hazardous and sent to the Environmental Quality Company (EQ) waste landfill, also known as the Wayne Disposal, Inc. Landfill, in Belleville, Michigan. It is important to note that none of the ex situ samples analyzed for TCLP metals exceeded the metals TCLP limits.

As shown in Figure 3-2, the following soil blocks were excavated from the D9 Area and stockpiled for ex situ sampling: D9 1-3, D9 1-9, D9 2-2, D9 2-4, D9 2-7, D9 2-9, D9 3-1, D9 3-3, D9 3-4, D9 3-5, D9 3-6 and D9 3-7.

Sampling parameters for stockpiles from each D9 Area soil block are indicated in Figure 3-2 and were based on the sampling results for soil borings from the soil block as discussed above. A tabular summary of the ex situ sampling results for each stockpile and sub-pile is provided in



Appendix D. The analytical results for each stockpile and sub-pile were forwarded to the disposal facilities for review and approval prior to shipment

Soil stockpiles with sample results that exceeded VOC TCLP limits were conditioned to reduce VOCs by addition of LKD and/or by further reshaping of the stockpiles. The conditioned stockpiles were then resampled for the VOC parameter that was exceeded and the disposal location was determined based on final sampling results for that stockpile. It is important to note that if a stockpile's initial sampling results indicated a PCB concentration greater than 50 ppm, it was designated for disposal at EQ and no further sampling for PCBs was conducted.

One bag (1 ton) of LKD was added for conditioning to the following stockpiles: D9 2-7 001-1 and 001-2, D9 3-3 001-1 through 002-2, D9 3-3 004-1 through 005-2, and D9 3-6 001-1 through 003-2. Two bags (2 tons) of LKD were added for conditioning to the following stockpiles: D9 1-9 001-2 and 002-1 and D9 2-7 003. Stockpiles D9 1-9 001-1, D9 1-9 002-2, D9 3-1 003-1, and D9 3-1 003-2 were conditioned by reshaping and no LKD was added.

### **3.5.2.1 Stockpile Management**

Stockpiles were identified and managed in the exclusion zone using wooden survey stakes and a colored flagging system. A lathe survey stake with the soil block and stockpile number written on it was placed into the west side of the stockpile for identification. After the stockpile was sampled, a red flag was tied to the stake. The red flag signified that the pile was sampled and analytical results were pending. Additionally, the red flagging served as a visual sign that the stockpile was not approved for hauling.

After the analytical results were obtained for each stockpile, the flag was changed. If, based on the stockpile sampling results, the stockpile was approved for disposal at the SKB Landfill, the red flag was removed and replaced with a green flag. A blue flag was also tied to the stake. The green flag was a visual sign that the pile was approved for hauling. The blue flag indicated that the disposal destination for the stockpile was the SKB Landfill.

If, based on the stockpile sampling results, the stockpile was approved for disposal at the EQ facility, the red flag was removed and replaced with a green flag. A yellow flag was also tied to



the stake. The green flag was a visual sign that the pile was approved for hauling. The yellow flag indicated that the disposal destination for the stockpile was the EQ Landfill. Photograph 27, provided in Appendix A, demonstrate the stockpile flagging system.

As the stockpiles were marked for load out, WESTON personal monitored the operation to assure that the stockpiles were being manifested and handled according to the flagging system.

### **3.5.2.2 Disposal at SKB Nonhazardous Landfill**

After receiving SKB approval for disposal acceptance, stockpiles or sub-piles with ex situ analyses meeting the nonhazardous criteria were shipped to the SKB Landfill via the highway route described in the RD/RA Plan. Between July 19, 2010 and August 20, 2010 an approved alternate trucking route was implemented as necessary due to road construction on Highway 61 and the closure of the north bound access ramp at Innovation Drive. The alternate trucking route diverted haul trucks southbound on Highway 61 through the town of Hastings to Highway 55 west.

As with the direct load soils, an SKB shipping manifest and a haul truck inspection sheet were completed by WESTON for each load before leaving the site. On both documents, the load's source soil block and stockpile number were indicated. For example, "D9 1-5 001-2" indicates that the load was from Soil Block D9 1-5, Stockpile 001-2. A typical SKB shipping manifest and a typical SKB haul truck inspection sheet for direct load soils are provided in Figures 3-3 and 3-4, respectively. A complete set of SKB shipping manifests (generators copy) are provided in Appendix E (on CD). Manifests and haul truck inspection sheets are also maintained in the WESTON and 3M project files.

### **3.5.2.3 Disposal at EQ Hazardous Landfill**

After receiving EQ approval for acceptance and disposal, stockpiles or sub-piles with ex situ analyses that did not meet the nonhazardous solid waste criteria were managed as hazardous and sent to the EQ Landfill in Belleville, Michigan via the route described in the RD/RA Plan. An EQ manifest and a haul truck inspection sheet were completed for each truckload before leaving the site. The EQ manifest used was generated from a standard Uniform Hazardous Waste Manifest. A typical EQ manifest and a typical truck inspection sheet for stockpiled soils that were shipped to EQ are provided in Figures 3-5 and 3-6, respectively. Copies of all the EQ



manifests are provided in Appendix E (on CD). Additionally, a complete set of EQ manifests and EQ haul truck inspection sheets are maintained in both 3M and WESTON project files.

It is important to note that, like the SKB shipping manifests, each EQ manifest has a unique ID number. Recorded on the manifest is the soil block and stockpile from which the load was derived. For example, as shown in Figure 3-5, "D9 3-3 -1-2" and "D9 3-3 005-1" was recorded on EQ manifest #007796728 to indicate that the manifest represented a soil from D9 3-3 Stockpiles 001-2 and 005-1. WESTON personnel monitored load-out activities and stockpile management, and denoted the source material on each manifest. The EQ shipping manifests were produced by the landfill (assisted by WESTON), completed by WESTON personnel, signed by a 3M representative, and signed by the transporter.

Loads that were shipped to the EQ Landfill were weighed on-site before leaving the site. As shown in Figure 3-6, the weight information (i.e., tare, gross, and net weights) was recorded on the truck inspection sheet as well as the soil block and stockpile from which the load was composed.

The EQ accepted load summary list provided in Appendix E-1 contains the manifest number for each load accepted at the landfill, as well as the net weight in tons. This list was provided by the EQ facility at the conclusion of all trucking activities. It should be noted that the weights reported by the landfill and those recorded on the manifest are slightly different. The weights reported by the EQ Landfill are considered accurate as the scale used at that facility is certified.

The EQ load summary lists also contain information indicating when the loads were received at the landfill. From review of these acceptance dates, it became evident that the contractor (Bolander) and their hauling subcontractor (Metro Gravel) had temporarily staged some loaded trailers without 3M's authorization. Accordingly, 3M requested detailed supporting documentation to account for the location of such trailers between loading at the D9 Area and final receipt at the landfill. Tracking documentation was provided to 3M by Bolander and their subcontractor Metro Gravel for all requested loads.



### 3.5.3 Truck Loading/Unloading Operations

The haul trucks consisted of an 18-wheel truck tractor and an aluminum dump trailer, with the occasional usage of a straight truck and a steel trailer. All haul trucks were inspected by WESTON upon arrival and departure from the Site to ensure that trucks were properly prepared to haul soils and that excavated materials were loaded properly and secured. The inspections were documented on the Haul Truck Inspection Forms (Figures 3-4 and 3-6).

Upon arrival at the Site, trucks would proceed to the lining station. At the lining station the trucks pulled up to a scaffold and were visibly inspected by WESTON to ensure that there was no waste material in the truck bed. The truck bed was then lined with disposable, 6-mil poly sheeting to prevent the truck bed from coming into contact with the excavated soil and to ensure that free liquids (if present) could not leak out of the tailgate. The poly sheeting was tied to the rails of the truck bed to keep it in place during loading and shipment. On several occasions WESTON followed trucks hauling soils to the SKB Landfill to ensure liner integrity throughout the hauling process. Even though trucks hauling soils to the EQ Landfill never carried clean soils back to the Site, a bed liner was still installed prior to being loaded with hazardous material. Based on WESTON's observations during the loading and hauling operation, there was no evidence of ripping or tearing problems with the bed liner and the 6-mil thick poly sheeting was satisfactory.

A truck preparing to be loaded with materials to be hauled to the EQ Landfill would proceed from the lining station to the weigh scale for a tare weight, and then to the load-out zone. After loading, the truck returned to the weigh scale for a gross weight and then returned to the lining station. The trucks were inspected by WESTON to ensure the bed liner was in good condition, the liner remained in place in the bed of the truck and that the height of the soil was lower than the sides of the truck. After inspection a tarp was secured over the top of the trailer, required placarding was posted on the truck and the driver signed the associated manifest before the truck departed from the Site. The trucks loaded with material for the SKB Landfill followed the same general procedure with the exception of the weigh scale. Trucks transporting material to SKB were not weighed until they arrived at the SKB Landfill. All trucks were weighed at the respective landfills using a certified weigh scale.



### **3.5.4 Non-Soil Debris**

During the D9 Area excavation, non-soil debris was encountered. This debris consisted of drum fragments, tree stumps and concrete remnants. The drum carcasses contained no visible tar residue and were only encountered in the potentially impacted material. These were temporarily staged on a stockpile staging area and hauled to SKB. The concrete remnants and tree roots were excavated and disposed with the surrounding soils. However one large tree stump and several large pieces of concrete were segregated during excavation activities and remained in the excavation. Red, blue and white colored residuals were encountered in the potentially impacted material. 3M personnel thought that the residuals were probably glass bead remnants as noted in the Daily Report dated 6/14/10. The colored residuals remained with the potentially impacted material. Photographs 30 to 33, provided in Appendix A, show the non-soil debris.

### **3.5.5 Water Management**

During the D9 Area excavation, construction water that collected in the excavation was managed on-site to minimize the accumulation of this water in the active portion of the excavation. Trenches and sumps were dug on the western edge of the excavation and in the northeast corner of the D9 excavation area. Water that collected in the trenches and sumps was allowed to percolate into the ground. No construction or excavation water was handled in the D9 Area. Photographs 34 and 35, provided in Appendix A, show the trench and sump management systems used in the D9 Area excavation.

Near the conclusion of the project, after the potentially impacted material was backfilled into the bottom of the excavation and prior to the backfilling with clean soil from the East Cove haul road improvement, the excavation equipment (that was operated within the exclusion zone) was decontaminated using a 300 psi heated pressure washer. Three passes were done with the pressure washer after visible debris was removed. The procedure was performed within the boundaries of the D9 excavation and decontamination water was allowed to percolate into the ground.

Additionally, a small section in the northeast corner of the D9 excavation area, approximately 20 feet wide by 50 feet long by 16 feet deep, was left open during backfilling and was utilized for decontamination of the sheet piling. After all the sheet piling was decontaminated, backfilling



was completed. Photographs 36 to 39, provided in Appendix A, demonstrate the sheet piling decontamination procedure.

### **3.6 SURVEY VERIFICATION OF EXCAVATION LIMITS**

Verification surveying was performed by TKDA, a Minnesota-licensed surveyor, as a contractor to WESTON. This arrangement provided the “third party” verification that the removal requirements specified in the RD/RA Plan were being met. Surveying was conducted regularly during the excavation activities to confirm that the required horizontal and vertical excavation limits had been reached for each soil block. After the final excavation limits were verified to the lateral and vertical limits specified in the approved RD/RA Plan, backfilling was allowed.

It should be noted that soil block quantities for direct load and stockpiled soil blocks were surveyed differently in accordance with project specifications. The direct load soil block quantities were in-place volumes calculated from as-built survey shots of the excavation. In order to better quantify the volumes of these soil blocks, four corner survey shots were collected along with multiple interior ground check shots per soil block.

To quantify the amount of soil excavated from the ex situ sampling soil blocks the soil quantities were surveyed in the stockpiles. Stockpile quantities were surveyed by collecting several survey shots around the base of the stockpile, as well as one or two shots at the top of the stockpile. As-built survey shots were taken at the four corners of each of the ex situ sampling soil blocks, but the corner shots were only used to confirmed the excavation met the required limits.

#### **3.6.1 D9 Area**

Figures 3-7 through 3-10 provide the plan view and cross section results of final verification surveys for the base of each layer in the D9 Area (i.e., base of Potentially Impacted Material – 0 to 10 ft bgs, base of Layer 1 - 10 to 15 ft bgs, base of Layer 2 – 15 to 20 ft bgs, and base of Layer 3 – 20 to 25 ft bgs, respectively), which includes the corners of each soil block. The cross sections of the D9 Area indicate the RD/RA specified excavation limits as well as the actual final excavation limits for Layer 1, Layer 2 and Layer 3 respectively. Figures 3-7 through 3-10 demonstrate that the RD/RA specified excavation limits for the D9 Area were achieved and that



the actual excavation limits met or extended slightly beyond the RD/RA Plan design limits. The complete D9 excavation limits can be seen in Photographs 40 and 41, provided in Appendix A.

Table 3-1 provides a tabular summary of the D9 Area soil excavation volumes and final disposal location. The total volume of soil removed from the D9 Area was approximately 8,443 cubic yards (12,381 tons). Of that, approximately 961 cubic yards (1,307 tons) were transported to the EQ Landfill and approximately 7,482 cubic yards (11,074 tons) were transported to the SKB Landfill.

### **3.7 OPERATIONAL RECORDS**

In addition to haul truck inspection sheets (Figures 3-4 and 3-6), additional operational records are maintained by WESTON documenting the excavation activities and ambient conditions during site activities. Such records include daily reports, meteorological station data, and perimeter monitoring as discussed in the following sections.

#### **3.7.1 Daily Reports**

The Daily Site Operations Log Form was completed for each day of site activity. The log form contains a summary of key site daily information such as activities performed, personnel on-site, soil blocks that were excavated, stockpiles that were generated, hauling information, monitoring information, and communications. All of the daily reports are maintained in WESTON's project files as part of the construction record.

Additionally, weekly construction meetings were held by 3M, typically on Mondays throughout the duration of Site Activities to review construction progress, plans for upcoming construction, and resolve construction questions or issues. These meetings were lead by the 3M project representative and were attended by 3M, Bolander, WESTON, and other parties such as AECOM (MPCA's contractor) and MPCA. Meeting minutes were e-mailed out weekly and copies are maintained in 3M and WESTON project files, as part of the construction record. Lastly, AECOM representatives periodically visited the site to observe and document excavation activities, on behalf of MPCA.



### 3.7.2 Meteorological Station Data

Daily weather conditions were recorded on the Daily Site Operations Log Form; however, continuous monitoring and documentation of on-site meteorological conditions were recorded by WESTON is an on-site meteorological monitoring station (“met station”). The met station was installed the week of May 24, 2010, prior to excavation activities, and was mounted outside of the exclusion zone on an approximate 18-foot tripod. Data logging for the D9 Excavation started on May 26, 2010. The met station was located southwest of the exclusion zone and west of the construction trailer (Figure 3-1). The meteorological data were recorded by a data logger and downloaded daily. The meteorological variables monitored included:

- Wind speed.
- Wind direction.
- Standard deviation of horizontal wind direction (sigma theta).
- Ambient air temperature.
- Precipitation.

The meteorological data were also used during construction activities to help foresee construction water issues. Of the fifty-eight recorded precipitation events, thirty-four were less than a quarter of an inch, six were between a quarter and a half an inch, twelve were between a half of an inch and an inch, five were greater than one inch and one event exceeded two inches. All water was managed on-site through a sump system in the excavation and no water removal was necessary throughout construction activities. The sump accumulated water after precipitation events as well as from the release of perched water. This accumulated water was allowed to percolate into the ground in the excavation.

Three inches of rain fell between June 25 and June 27, 2010 during a heavy rain event. For the SWPP inspections conducted on June 26 and 27, Bolander noted some silt build-up next to the silt fence on the north side of the potentially impacted soil staging area. It was decided to install a second row of silt fence as a precautionary measure. A row of hay bales was also installed along the interior silt fence. Photographs 42 to 44, provided in Appendix A, demonstrate the enhancement of silt fencing at the potentially impacted material staging area.



Throughout the excavation activities the average daily directional wind originated from the south, including the southwest, south and southeast, 71% of the time. The average wind speed was 3.3 miles per hour.

The wind speed was monitored with a three-cup anemometer assembly mounted on a cross arm. Horizontal wind direction was monitored by a wind vane coupled to a precision low torque potentiometer. Precipitation was measured with a tipping bucket rain gauge. A table that provides a summary of the daily meteorological data is provided in Appendix G.

### **3.7.3 Perimeter Monitoring**

Throughout the duration of the excavation activities, perimeter monitoring for VOCs and particulates was performed approximately once a week and measurements recorded on a Perimeter Monitoring Form, as outlined in the RD/RA Plan. A copy of the Perimeter Monitoring Forms is provided in Appendix H.

The following instruments were used for monitoring:

- MultiRAE photoionization detector (PID) for VOC ambient air monitoring.
- Thermo Electron Corporation personal DataRam (pDR) for PM<sub>10</sub> particulate ambient air monitoring.

As shown in Figure 3-11, there were four monitoring locations surrounding the excavation area in all directions. The monitoring locations were relocated slightly from those proposed in the RD/RA Plan due to access issues. The air monitoring locations were as follows:

- Station 1 - East of the D9 excavation area (and former D1/D2 excavation areas), near the truck turnaround point.
- Station 2 - South of the EW-4 staging area excavation area (former D2 excavation area).
- Station 3 - South of the D9 excavation, across from the office trailer.
- Station 4 – West of the D9 excavation near the sheet piling equipment staging area.



A total of fourteen monitoring events were performed throughout excavation activities. The frequency of monitoring events was considered sufficient, and did not need to be increased, due to the very low readings being recorded and the isolation of the excavation activities from surrounding properties.

Cumulatively, the readings obtained for all the monitored parameters, i.e., VOCs and PM<sub>10</sub>, across all perimeter monitoring locations, were well below the associated HASP action levels. The VOC concentrations were consistently 0.0 ppm on many occasions and never exceeded 1.6 ppm, with a project average of 0.1 ppm. The Action Level set in the HASP was a reading of 2.5 ppm above background as a 15 minute time weighted average. The PM<sub>10</sub> concentrations recorded across all stations ranged from 0.000 mg/m<sup>3</sup> to 0.073 mg/m<sup>3</sup> with a project average of 0.014 mg/m<sup>3</sup>. These recorded concentrations were well below the Action Level defined in the HASP of 0.1 mg/m<sup>3</sup> above background levels.

### **3.8 DECOMMISSIONING ACTIVITIES**

At the conclusion of the construction activities, all stockpile staging areas were removed and hauled to the SKB Landfill, including the poly liner. Approximately 1,450 tons of this material was hauled to SKB between September 24, 2010 and December 5, 2010.

Spillage of excavated material in traffic areas inside of the exclusion zone was not an issue on this project due to several factors (1) the increased size of the stockpile staging areas, (2) minimization of traffic lanes and (3) a change in the equipment usage on site. As a result the contractor was not required to scrape and remove the traffic lane soils at the conclusion of the project.

During D9 stockpiling activities, Bolander dedicated an excavator and skid steer in the stockpile staging area. These machines were used for forming stockpiles, stockpiles conditioning, and load out. Prior to load out, Bolander moved stockpiles with the excavator and an off-road haul truck to the staging areas directly next to the load out. Stockpiles on the staging areas next to the load out could be accessed and loaded using the designated excavator. This method eliminated need for material to travel between staging areas in the bucket of a front-end loader and thus prevented the spillage issues that could have occurred.



Following excavation activities, Bolander decontaminated all equipment used in the exclusion zone. Decontamination activities were performed under the guidance of the decontamination plan submitted by Bolander to 3M prior to excavation activities at the Site.

### **3.9 BACKFILLING, FINAL GRADING, AND REVEGETATION**

Backfill documentation, including the date of backfilling activities and source of backfill material, was recorded in the daily reports. Backfill material was placed in 12-inch lifts and compacted.

In the D9 Area, the source of backfill material was the potentially impacted material that was removed from the first 10 feet of the excavation, excavation side slopes, and the material excavated during the East Cove Road improvement. The potentially impacted material that had been staged in the PIM-1 and PIM-2 areas was the first material backfilled into the excavation and compacted, per the project specifications to a minimum depth of 4 ft. below final grade elevation. This was followed by the soil material that was excavated for the East Cove Road improvement. Photographs 45 to 47, provided in Appendix A, show the backfilling procedures.

Existing and final grading surface contours are provided in Figure 3-12. Overall, the final grading contours are slightly higher than the initial grade. Bolander used the extra East Cove road material they excavated during the East Cove road project to improve the drainage and topography of the D1, D2, and D9 Area.

With the completion of backfill to pre-existing grade, MPCA was notified on November 19, 2010 that the D9 removal project had been completed. Final inspection of the site occurred on November 23, 2010. The final inspection consisted of a representative from Bolander, TKDA and 3M. The final site survey of the completed construction was conducted on December 21, 2010.

Since the D9 Areas are to be utilized for staging and set-up areas during the East Cove remediation project and extended pump test, the silt fencing was not removed and a Notice of Termination for the Stormwater General Permit was not filed at that time. The permit will remain open and will be transferred to the respective contractor for the PFC remedial construction and sediment removal project occurring at the East Cove in 2011.



In preparation for upcoming East Cove remediation activities in 2011 and extended pump test for the Cottage Grove extraction wells, the D9 Area was covered with stone so it can serve as a construction laydown area for East Cove equipment and setup for skid-mounted water treatment equipment for the extended pump test. Final restoration (i.e., seeding) of the D1 and D2 Areas was performed in December 2010 and consisted of application of a native seed mix and covering with straw. The effectiveness of the seeding will be evaluated in spring 2011 and can be readdressed if required at the completion of the East Cove remediation project.



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**SECTION 3 TABLE**

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**Table 3-1 Summary of D9 Area Excavation  
Cottage Grove, MN**

| Soil Block | Direct Load/Stockpile No. <sup>1</sup> | Destination |          |
|------------|--|-------------|----------|
|            |  | EQ (cy)     | SKB (cy) |
| D9 1-1     | Direct Load                            | -           | 347.92   |
| D9 1-2     | Direct Load                            | -           | 161.67   |
| D9 1-3     | 001                                    | -           | 149.20   |
|            | 002                                    | -           | 110.89   |
|            | 003                                    | -           | 106.08   |
|            | 004                                    | -           | 50.23    |
| D9 1-4     | Direct Load                            | -           | 323.76   |
| D9 1-5     | Direct Load                            | -           | 459.59   |
| D9 1-6     | Direct Load                            | -           | 287.42   |
| D9 1-7     | Direct Load                            | -           | 228.88   |
| D9 1-8     | Direct Load                            | -           | 231.13   |
| D9 1-9     | 001                                    | -           | 110.08   |
|            | 002                                    | -           | 91.55    |
| D9 1-10    | Direct Load                            | -           | 441.02   |
| D9 2-1     | Direct Load                            | -           | 338.74   |
| D9 2-2     | 001                                    | -           | 111.95   |
|            | 002                                    | -           | 39.96    |
| D9 2-3     | Direct Load                            | -           | 455.95   |
| D9 2-4     | 001                                    | -           | 109.87   |
|            | 002                                    | -           | 160.00   |
|            | 003                                    | -           | 155.83   |
| D9 2-5     | Direct Load                            | -           | 460.98   |
| D9 2-6     | Direct Load                            | -           | 284.69   |
| D9 2-7     | 001                                    | -           | 102.51   |
|            | 002                                    | -           | 113.93   |
|            | 003                                    | -           | 35.94    |
| D9 2-8     | Direct Load                            | -           | 229.88   |
| D9 2-9     | 001                                    | -           | 112.15   |
|            | 002                                    | -           | 70.68    |
| D9 3-1     | 001                                    | -           | 131.50   |
|            | 002                                    | -           | 151.22   |
|            | 003                                    | -           | 127.11   |
| D9 3-2     | Direct Load                            | -           | 162.98   |
| D9 3-3     | 001                                    | 101.69      | -        |
|            | 002                                    | -           | 93.86    |
|            | 003                                    | -           | 103.90   |
|            | 004                                    | 118.07      | -        |
|            | 005                                    | 77.32       | -        |
| D9 3-4     | 001                                    | -           | 95.01    |
|            | 002                                    | 109.17      | -        |
|            | 003                                    | 108.57      | -        |
|            | 004                                    | -           | 78.61    |



Table 3-1 Summary of D9 Area Excavation  
Cottage Grove, MN

| Soil Block             | Direct Load/Stockpile No. <sup>1</sup> | Destination   |                 |
|------------------------|--|---------------|-----------------|
|                        |  | EQ (cy)       | SKB (cy)        |
| D9 3-5                 | 001                                    | -             | 144.73          |
|                        | 002                                    | -             | 158.06          |
|                        | 003                                    | -             | 140.18          |
|                        | 004                                    | -             | 72.44           |
| D9 3-6                 | 001                                    | 111.68        | -               |
|                        | 002                                    | 104.27        | -               |
|                        | 003                                    | 95.35         | -               |
| D9 3-7                 | 001                                    | -             | 140.23          |
|                        | 002                                    | 134.44        | -               |
| <b>D9 Total Volume</b> |  | <b>960.56</b> | <b>7,482.31</b> |

<sup>1</sup> Each ~100 cy stockpile was staged in two separate sub-piles; i.e., 001-1 and 001-2 represent the two halves of stockpile 001. If no halves are listed, either the stockpile was less than ~50 cubic yards or both halves went to the same destination.

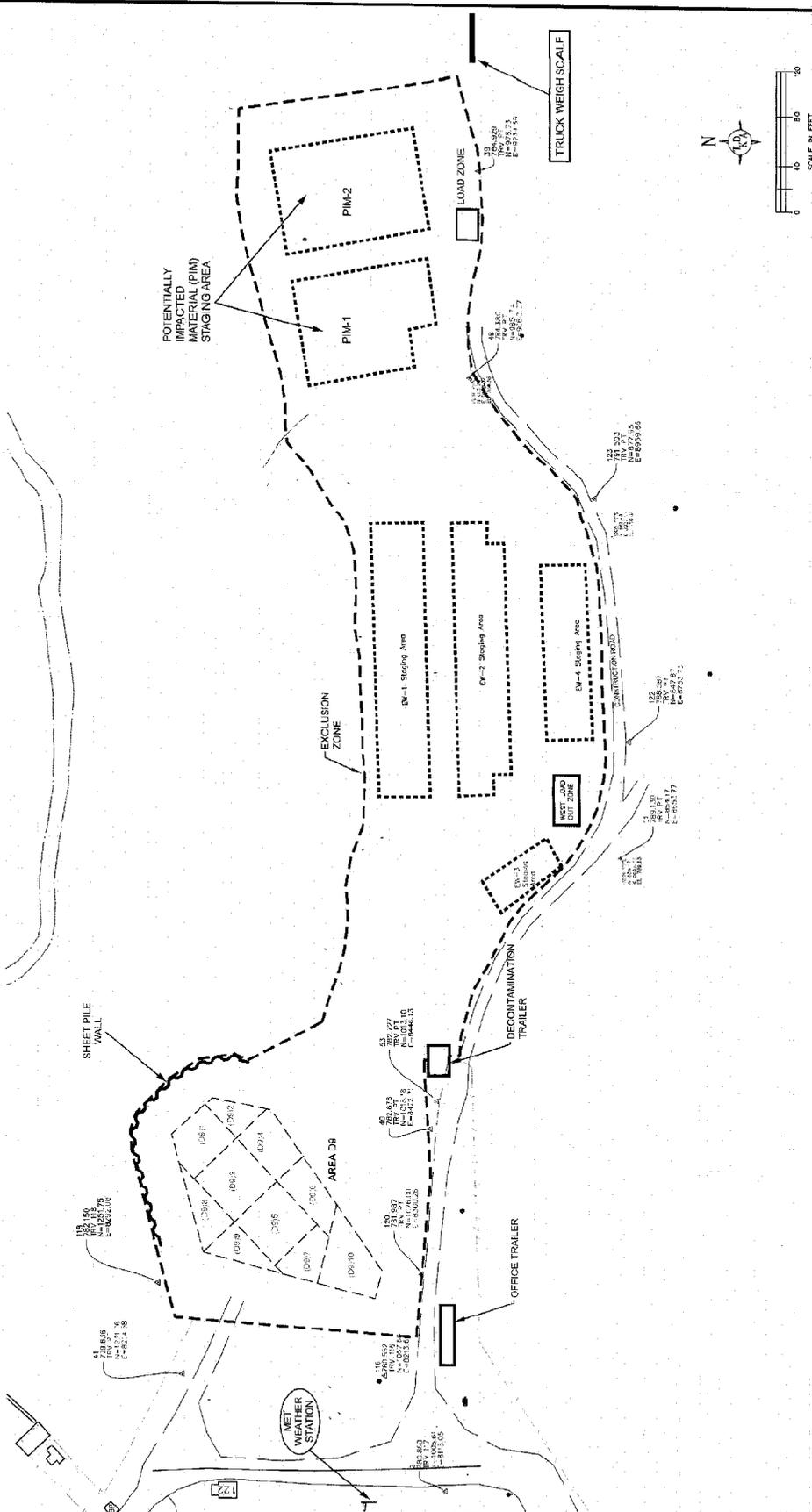


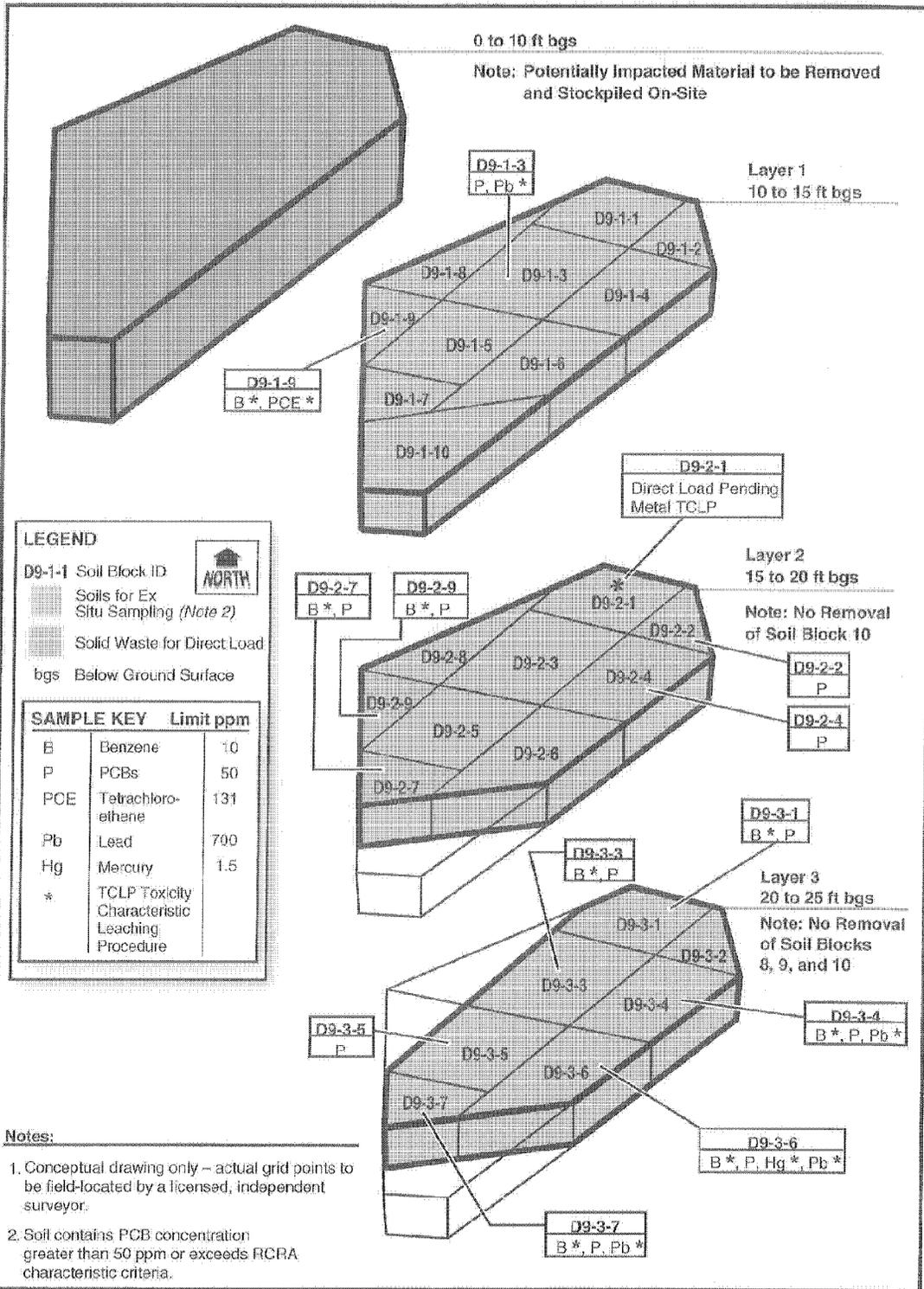
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**SECTION 3 FIGURES**

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NOTE: DATUM IS BASED ON (3m Cottage Grove)





**FIGURE 3-2 SOIL STOCKPILE SAMPLING  
D9 AREA  
COTTAGE GROVE SITE**

10P-0173-12



TRAILER # 100



|   |  |  |  |                                 |                           |
|---|--|--|--|---------------------------------|---------------------------|
| <b>SKB ENVIRONMENTAL</b>  |  | <b>SKB Rosemount Industrial Waste Facility</b>                     |  |                                 | Manifest #                |
| <b>Shipping Manifest</b>  |  | 1. Generator's US EPA ID No. (if any)<br>M N R I 0 0 6 1 7 2 9 6 9 |  | 2. Page 1 of _____ page(s)      |                           |
| 3. Generator's Name and Facility Address<br>3M Company<br>Innovation Rd & Rt. 61, Sec. 35; T27N; R21W<br>Cottage Grove, MN 56018<br>4. Generator's Phone: (651) 737-3477  |  |  | Mailing Address<br>3M Company<br>Cottage Grove Cleanup<br>Cottage Grove, MN 56016<br>Fax: (651) 738-3940 |                                 |                           |
| 5. Transporter 1 Company Name<br>BISCOE / METRO GRAVEL  |  |  | Phone:   |                                 |                           |
| 6. Transporter 2 Company Name   |  |  | Phone:   |                                 |                           |
| 7. Designated Facility Name and Site Address<br>SKB Rosemount Industrial Waste Facility<br>13425 Courthouse Blvd.<br>Rosemount, MN 55068  |  |  | 651-438-1500   |                                 |                           |
| 8. U.S. DOT Description (including Proper Shipping Name)  |  | 9. Containers  | 10. Total Quantity   | 11. Unit Wt/Vol                 | 12. Waste Profile Sheet # |
| a. Non-Hazardous Industrial Waste (Cottage Grove Soil -D9 Area)<br>D9 2-1   |  | No.   Type<br>001   DT   |  |                                 |                           |
| b.  |  |  |  |                                 |                           |
| c.  |  |  |  |                                 |                           |
| d.  |  |  |  |                                 |                           |
| 13. Additional Descriptions for Materials Listed Above (indicate waste stream Approval # below)<br>a. MI 10-0093 Cottage Grove Soil - D9 area<br>b. MI<br>c. MI<br>d. MI  |  |  | 14. Special Handling Procedures for Wastes Listed Above  |                                 |                           |
| 15. Special Handling Instructions and Additional Information<br>Emergency Contact:  |  |  | SKB Use Only<br>Load # _____<br>Scale Wt. _____<br>Tone/Yds. _____                                       |                                 |                           |
| 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. |  |  |  |                                 |                           |
| Printed/Typed Name<br>MARK GAETZ  |  | Signature<br><i>Mark Gaetz</i>                                     |  | Month Day Year<br>10/7/27/10    |                           |
| 17. Transporter 1 Acknowledged of Receipt of Materials  |  | Printed/Typed Name<br><i>[Signature]</i>                           |  | Signature<br><i>[Signature]</i> |                           |
| 18. Transporter 2 Acknowledgement of Receipt of Materials   |  | Printed/Typed Name   |  | Signature                       |                           |
| 19. Discrepancy Indication Space  |  | Printed/Typed Name   |  | Signature                       |                           |
| 20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this Manifest except as noted in Item 19.  |  |  |  |                                 |                           |
| Printed/Typed Name  |  | Signature  |  | Month Day Year                  |                           |

White - Return to Generator

Canary - Facility Copy

Pink - Transporter

Goldenrod - Generator Copy

GENERATOR

TRANSPORTER

FACILITY

10P-1340-1

**FIGURE 3-3 D9 - SKB SHIPPING MANIFEST  
COTTAGE GROVE, MN**



DAILY TRUCK NUMBER: 13

| SKB Non-Hazardous Material Haul Truck Inspection (CGD9)                                  |                   |                         |                          |  |
|--|-------------------|-------------------------|--------------------------|--|
| 1. DATE: 27 July 2010  |                   |                         |                          |  |
| 2. UNIQUE CONTAINER ID (Trailer # - Manifest #): 106 - 739859                            |                   |                         | 2b. TRUCK ID: 628        |  |
| 3. DRIVER ID: BISCOE / METRO GRAVEL  |                   |                         |                          |  |
| <b>Arrival Inspection</b>  |                   |                         |                          |  |
| 4. Time of Arrival: 0908   |                   |                         | Yes                      | No                                       |
| 5. Is truck hauling soil to the Site? If no, proceed to No. 6.                           |                   |                         |                          | X  |
| 5.a. If yes, cite source of soil.  |                   |                         |                          |  |
| 5.b. Is the truck covered?   |                   |                         |                          |  |
| 5.c. Is soil free from debris, roots, large rocks, or free water?                        |                   |                         |                          |  |
| 6. Are truck tires, undercarriage, and body clean?                                       |                   |                         | X                        |  |
| 7. Issues and/or items of discussion:  |                   |                         |                          |  |
| <b>GROSS (LBS)</b>   | <b>TARE (LBS)</b> | <b>NET WEIGHT (LBS)</b> | <b>NET WEIGHT (TONS)</b> | <b>SOIL BLOCK SOURCE / DIRECT LOAD #</b> |
| 82500  | 30800             | 51700                   | 25.85                    | D9 2-1                                   |
| <b>Departure Inspection</b>  |                   |                         |                          |  |
| 8. Time of departure: 0920   |                   |                         | Yes                      | No                                       |
| 9. Is truck hauling soil from the site?  |                   |                         | X                        |  |
| 9.a. If yes, cite destination. If no, proceed to No. 10. SKB                             |                   |                         |                          |  |
| 9.b. Is the container liner in place and secure?   |                   |                         | X                        |  |
| 9.c. Is soil lower than the sides of the truck?  |                   |                         | X                        |  |
| 9.d. Is the tarp in good condition and properly secured over the soils in the truck bed? |                   |                         | X                        |  |
| 9.e. Is the tailgate of the truck secure?  |                   |                         | X                        |  |
| 9.f. Has a copy of the manifest been signed and received by the driver?                  |                   |                         | X                        |  |
| 9.g. Has the "Generators Initial Copy" been retained by Weston?                          |                   |                         | X                        |  |
| 9.h. Was Non-Soil Material loaded in the Manifested Container? If yes, explain.          |                   |                         |                          | X  |
| 10. Are truck tires, undercarriage, and body clean?                                      |                   |                         | X                        |  |
| 11. Issues and/or items of discussion:   |                   |                         |                          |  |

10P-1340-2

FIGURE 3-4 D9 - SKB HAUL TRUCK INSPECTION COTTAGE GROVE, MN



1

Please print or type. (Form designed for use on site (12-pitch) typewriter.)

Form Approved, OMB No. 2050-0039

|  |        |  |                            |  |  |                            |
|--|--------|--|----------------------------|--|--|----------------------------|
| <b>UNIFORM HAZARDOUS WASTE MANIFEST</b>  |        | 1. Generator ID Number<br>MND 008 172 689  | 2. Page 1 of 1             | 3. Emergency Response Phone<br>(800) 424-9300                | 4. Manifest Tracking Number<br>007796728 JJK |                            |
| 5. Generator's Name and Mailing Address<br>3M COTTAGE GROVE<br>10748 INNOVATION RD.<br>BLDG. 47<br>COTTAGE GROVE, MN 55015<br>Generator's Phone: (651) 282 1440  |        |  |                            | Generator's Site Address (if different than mailing address) |  |                            |
| 6. Transporter 1 Company Name<br>BRIEF   |        |  |                            | U.S. EPA ID Number<br>MND 002 150 176                        |  |                            |
| 7. Transporter 2 Company Name  |        |  |                            | U.S. EPA ID Number   |  |                            |
| 8. Designated Facility Name and Site Address<br>WAYNE DISPOSAL, INC SITE 2 LANDFILL<br>49350 N 14th SERVICE DRIVE<br>BELLEVILLE, MI 48111<br>Facility's Phone: (313) 592 5489  |        |  |                            | U.S. EPA ID Number<br>MID 048 090 835                        |  |                            |
| GENERATOR  | 9a. H# | 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any)) | 10. Containers<br>No. Type |  | 11. Total Quantity                           | 12. U#& HL/Vol.            |
|  | X      | 1. RC, UN3432, White Polychlorinated biphenyls, solid mixture, 5, PCB, PCB (ERG 217)                           | 001                        | DT   | 19649.5                                      | K PCB1 MND3                |
|  | 2      |  |                            |  |  |                            |
|  | 3      |  |                            |  |  |                            |
|  | 4      |  |                            |  |  |                            |
| 14. Special Handling Instructions and Additional Information<br>1. F104877ND1 / COTTAGE GROVE PCB CONTAMINATED SOILS (30 AREA) / STORAGE START DATE: 09-3-3 001-2 (1/17/2000)<br>CONTAINER ID: 108-3-3 002-1 (1/17/2000)<br>BLOCKS: D9-3-2 003-24, D9-3-5, D9-3-7 002, D9-3-4 002, D9-3-4 003  |        |  |                            |  |  |                            |
| 15. GENERATOR/SHOFFER'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/stowaged, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true. |        |  |                            |  |  |                            |
| Generator's/Officer's Printed/Typed Name<br>Mark Gault   |        |  |                            | Signature<br>Mark Gault                                      |  | Month Day Year<br>10 04 10 |
| 16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:   |        |  |                            |  |  |                            |
| 17. Transporter Acknowledgment of Receipt of Materials<br>Transporter 1 Printed/Typed Name: Signature: Month Day Year: 10 4 10<br>Transporter 2 Printed/Typed Name: Signature: Month Day Year:   |        |  |                            |  |  |                            |
| 18. Discrepancy<br>18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection<br>Manifest Reference Number: U.S. EPA ID Number:   |        |  |                            |  |  |                            |
| 18b. Alternate Facility (or Generator)<br>Facility's Phone: U.S. EPA ID Number:  |        |  |                            |  |  |                            |
| 18c. Signature of Alternate Facility (or Generator) Month Day Year:  |        |  |                            |  |  |                            |
| 19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)  |        |  |                            |  |  |                            |
| 20. Designated Facility Owner or Operator. Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a.<br>Printed/Typed Name: Signature: Month Day Year:  |        |  |                            |  |  |                            |

10P-1340-3

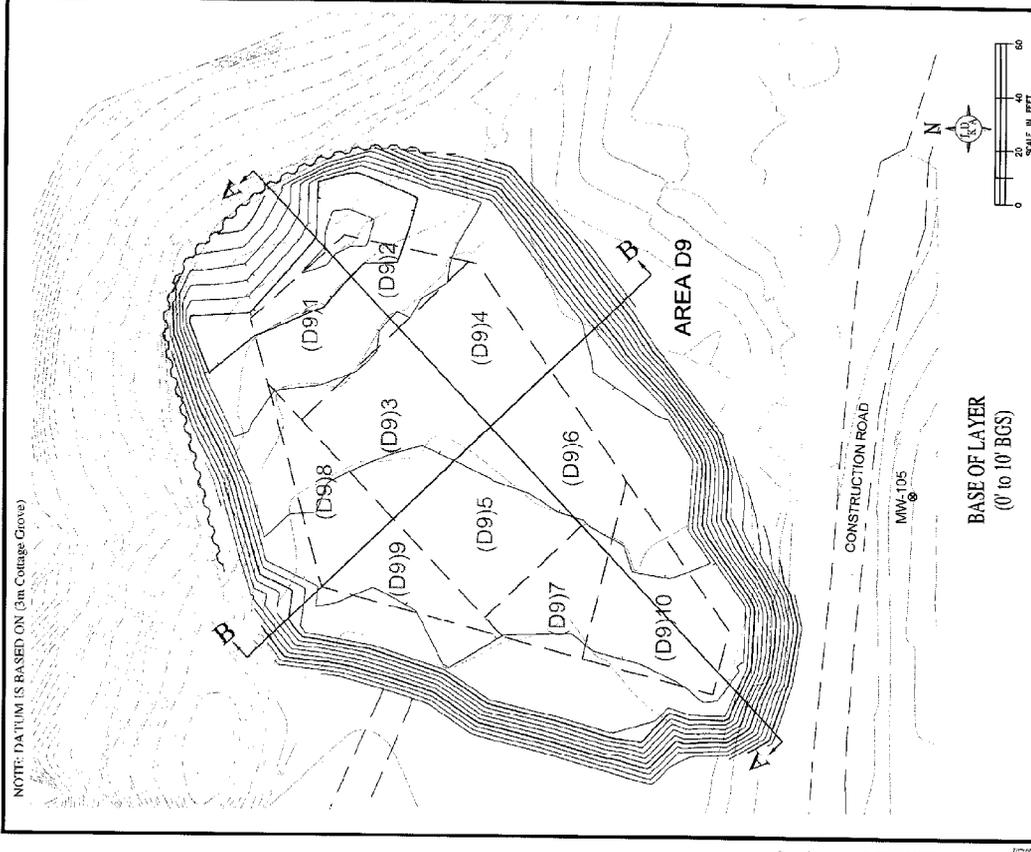
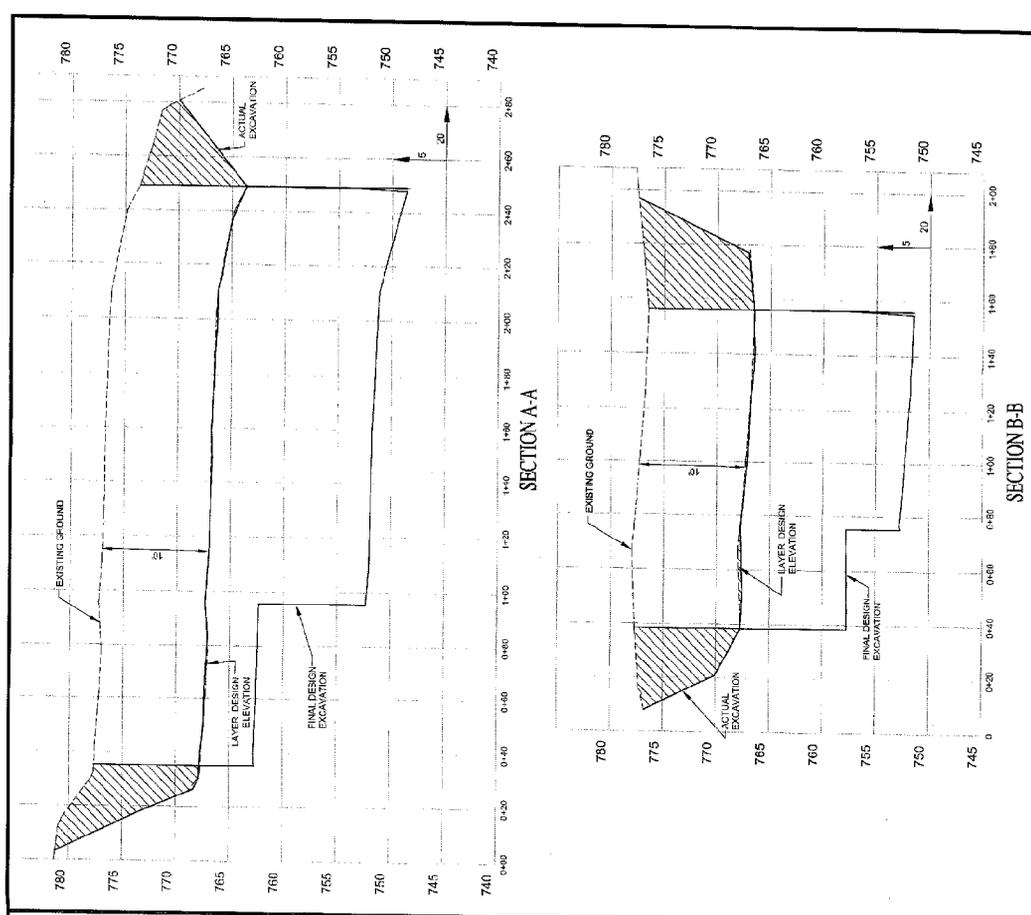
EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

GENERATOR'S INITIAL COPY

**FIGURE 3-5 D9 - EQ MANIFEST  
COTTAGE GROVE, MN**

3M\_MN00716929

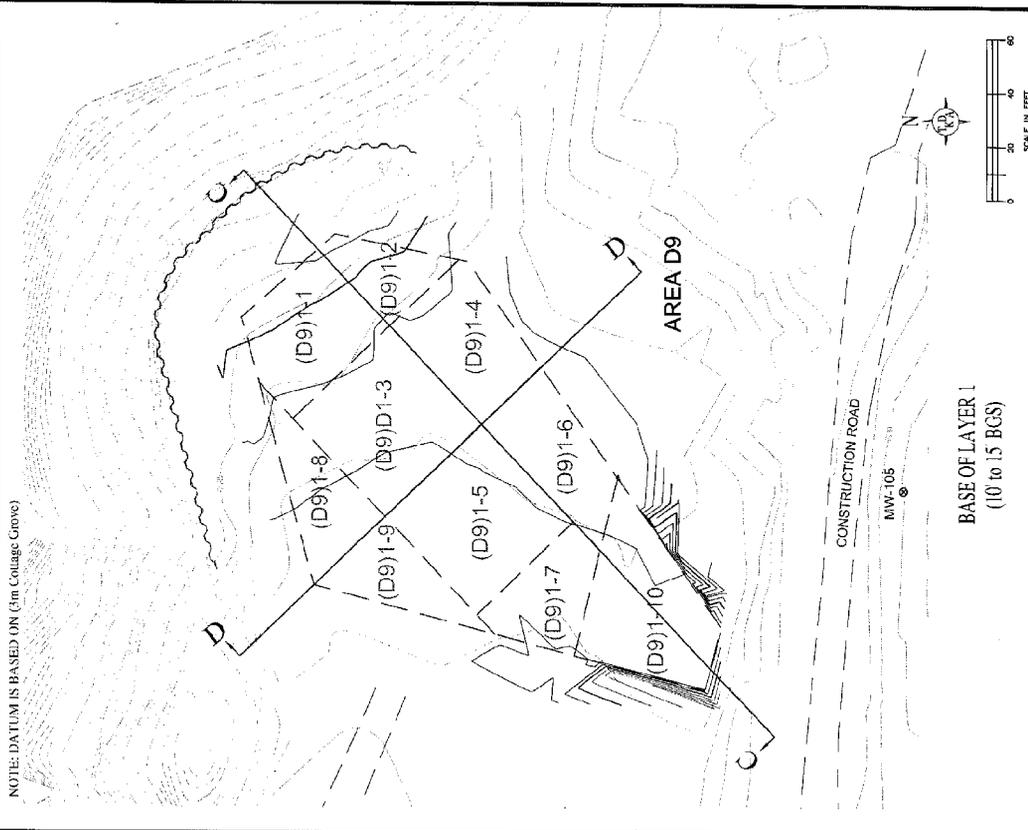




|  |   |  |
|--|---|--|
| <p><b>TKDA</b><br/>444 Cedar Street, Suite 1600<br/>Saint Paul, Minnesota<br/>55107-2110</p> | <p>3M PROJECT I.D. 0040152<br/>COTTAGE GROVE, MINNESOTA<br/>DECEMBER 21, 2010</p> | <p>COTTAGE GROVE SITE<br/>AREA D9<br/>FINAL LIMITS</p> |
|--|---|--|

FIGURE 3-7 D9 AREA FINAL EXCAVATION LIMITS  
BASE OF POTENTIALLY IMPACTED MATERIAL

NOTE: DATUM IS BASED ON (3m Cottage Grove)



BASE OF LAYER 1  
(10 to 15 BGS)

**TKDA**  
Engineering & Construction  
3110 13th Street SW  
Minneapolis, MN 55412

444 Cedar Street, Suite 1500  
Minneapolis, MN 55412-2140  
55/011-2140

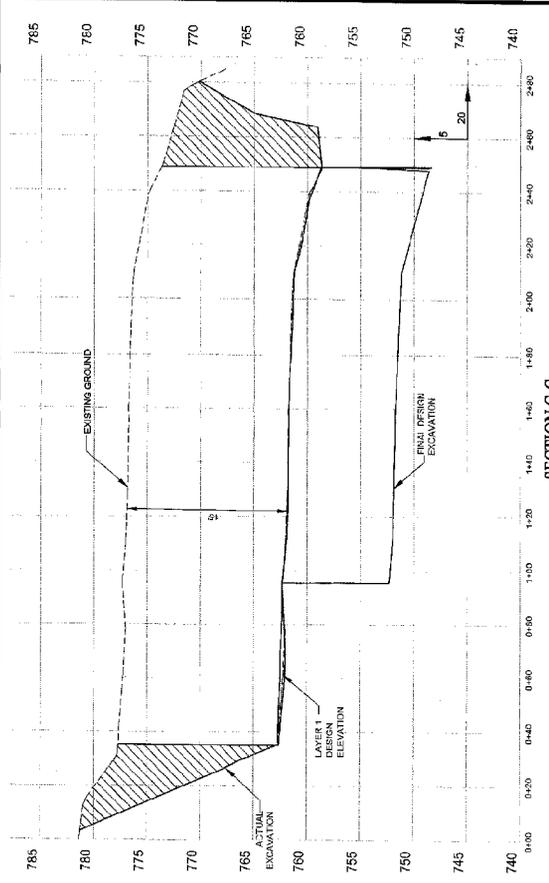
**WESTON**  
SOLUTIONS

3M PROJECT I.D. 0040152  
COTTAGE GROVE, MINNESOTA  
DECEMBER 21, 2010

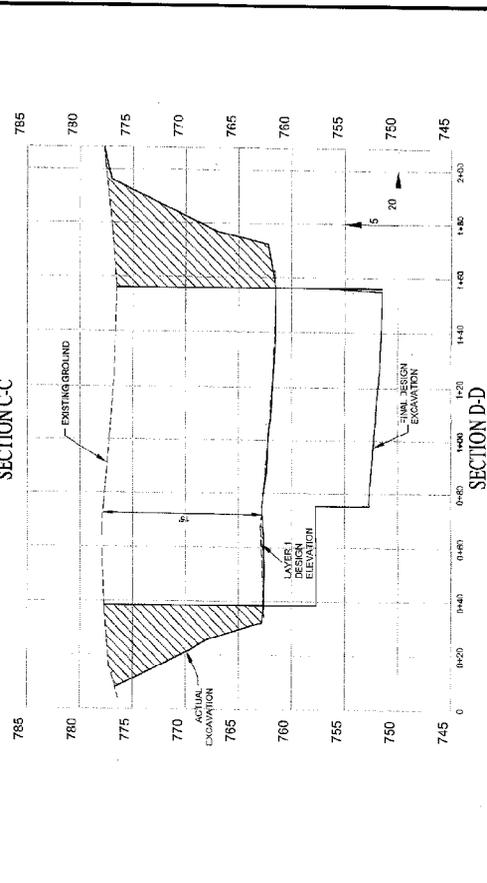
COTTAGE GROVE SITE  
AREA D9  
FINAL LIMITS

06P-0958-23

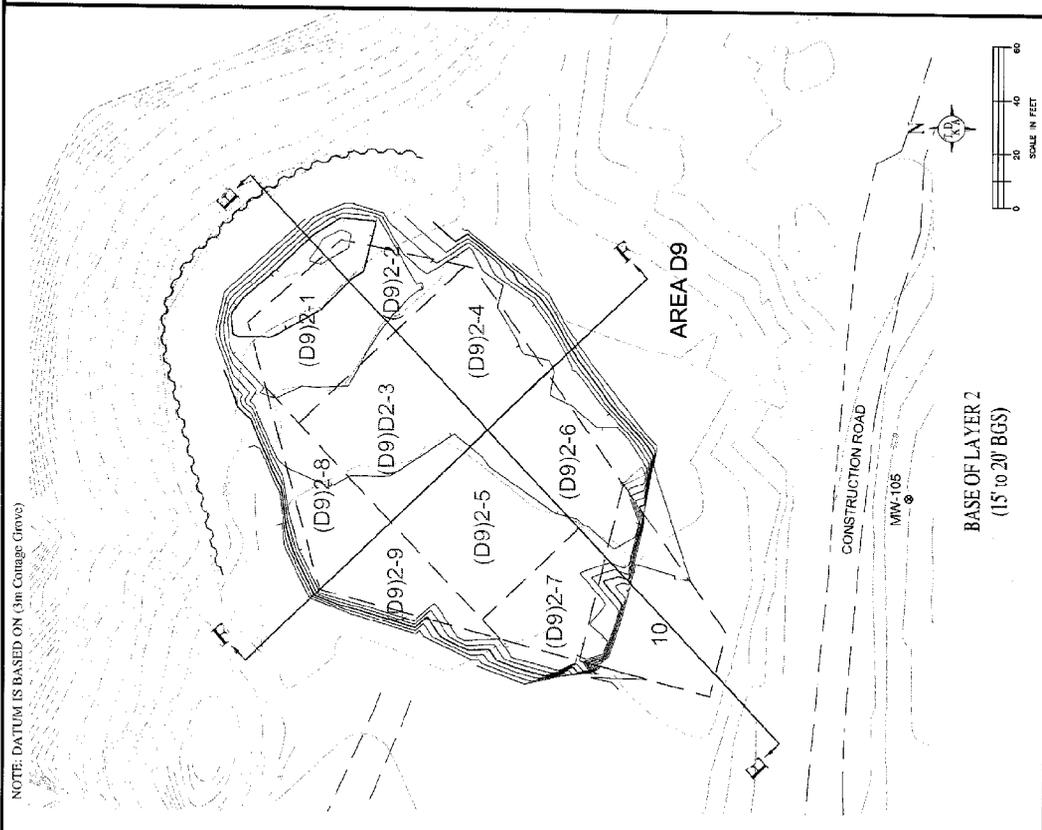
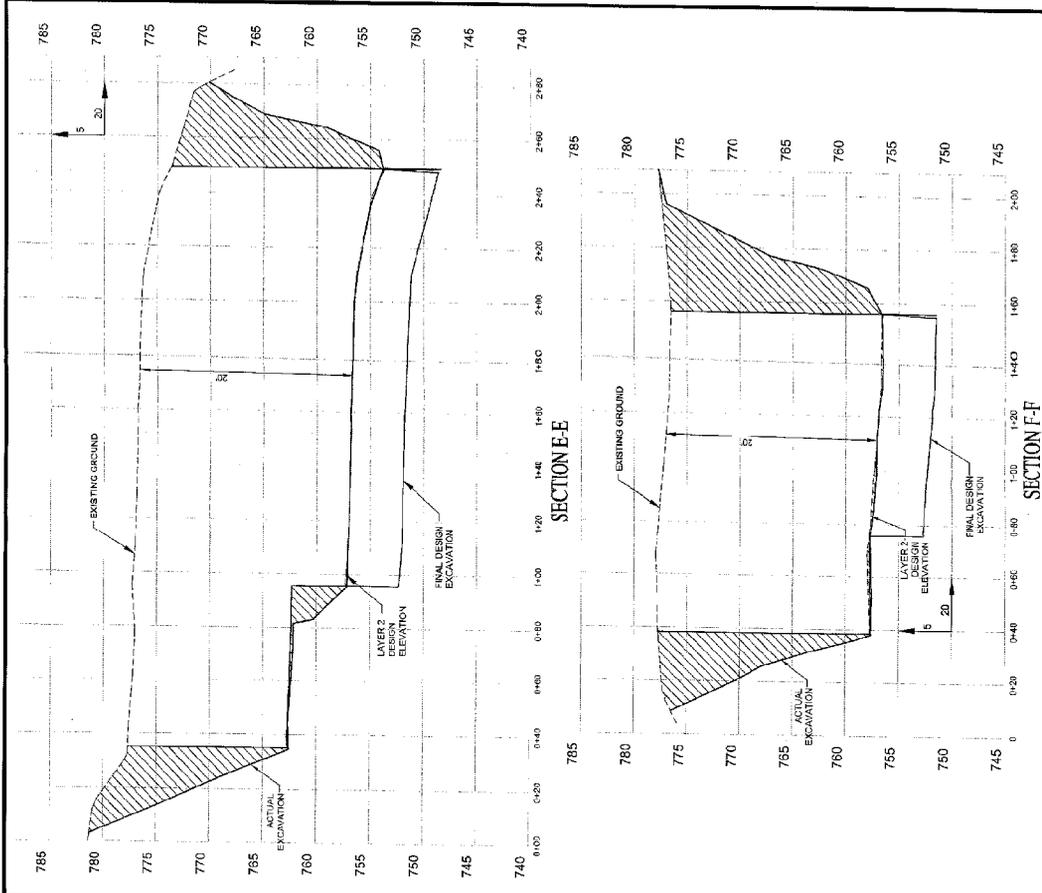
FIGURE 3-8 D9 AREA FINAL EXCAVATION LIMITS  
LAYER 1



SECTION C-C



SECTION D-D

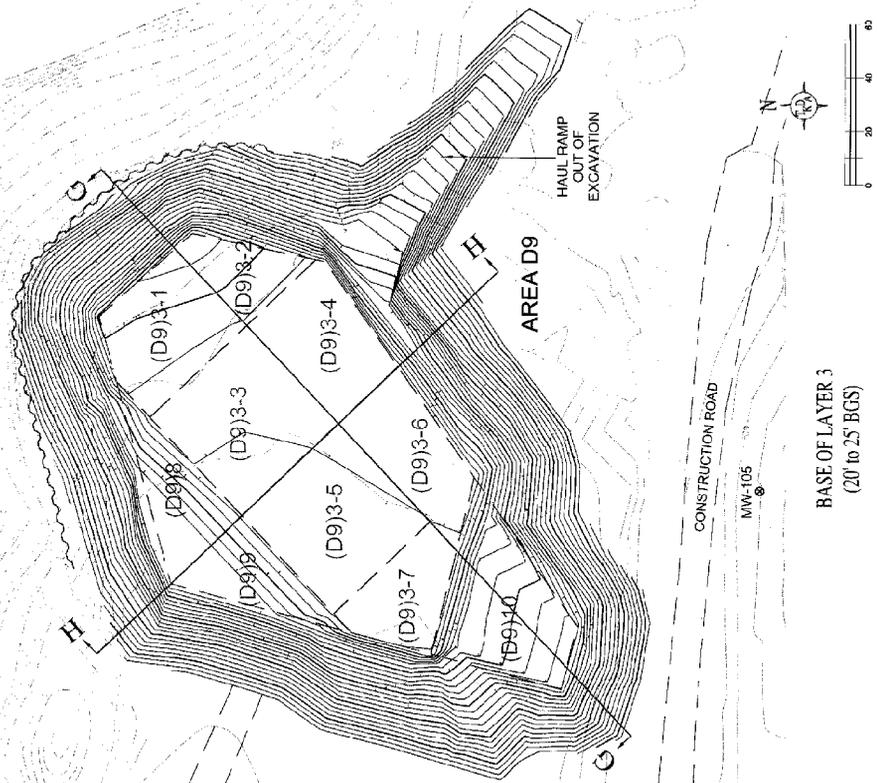


|   |  |                                       |   |
|---|--|---------------------------------------|---|
| <p><b>TKDA</b><br/>Engineering &amp; Construction</p> | <p>3M PROJECT I.D. 000152<br/>COTTAGE GROVE, MINNESOTA<br/>DECEMBER 21, 2010</p> | <p><b>WESTON</b><br/>CONSTRUCTORS</p> | <p><b>COTTAGE GROVE SITE</b><br/><b>AREA D9</b><br/><b>FINAL LIMITS</b></p> |
|---|--|---------------------------------------|---|

**FIGURE 3-9 D9 AREA FINAL EXCAVATION LIMITS LAYER 2**

08P-056024

NOTE: DATUM IS BASED ON (3m Cottage Grove)



BASE OF LAYER 3  
(20' to 25' BGS)

**TKDA**

144 Cedar Street, Suite 1500  
Saint Paul, Minnesota  
55101-4214

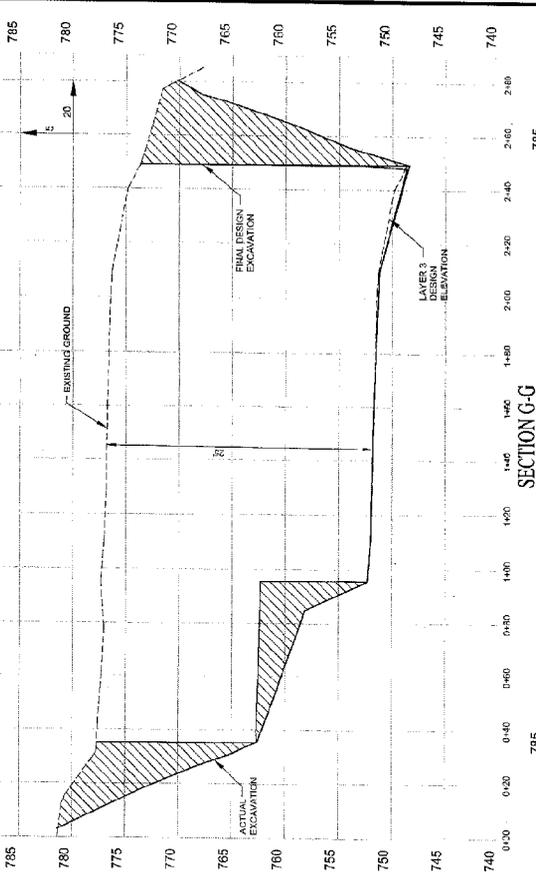
**WESTON**  
CONSTRUCTION

3M PROJECT I.D. 0040152  
COTTAGE GROVE, MINNESOTA  
DECEMBER 21, 2010

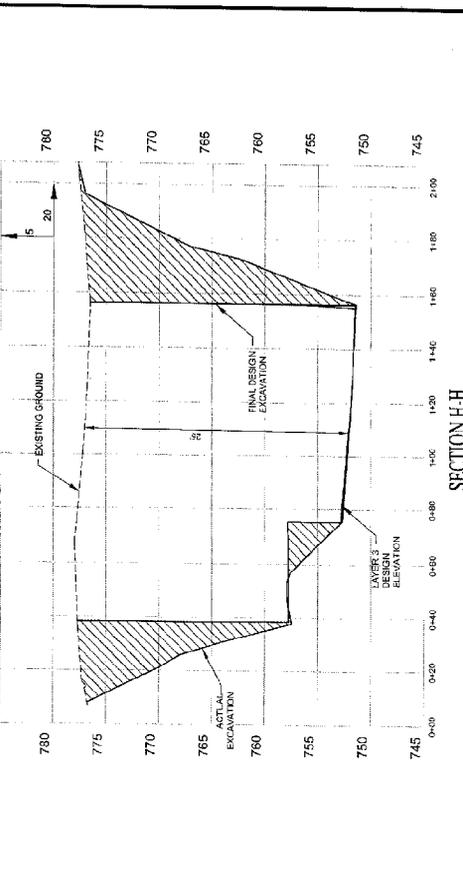
COTTAGE GROVE SITE  
AREA D9  
FINAL LIMITS

08P-0950-25

FIGURE 3-10 D9 AREA FINAL EXCAVATION LIMITS  
LAYER 3



SECTION G-G



SECTION H-H



Legend:



Perimeter Monitoring Location



0 100 200 Feet



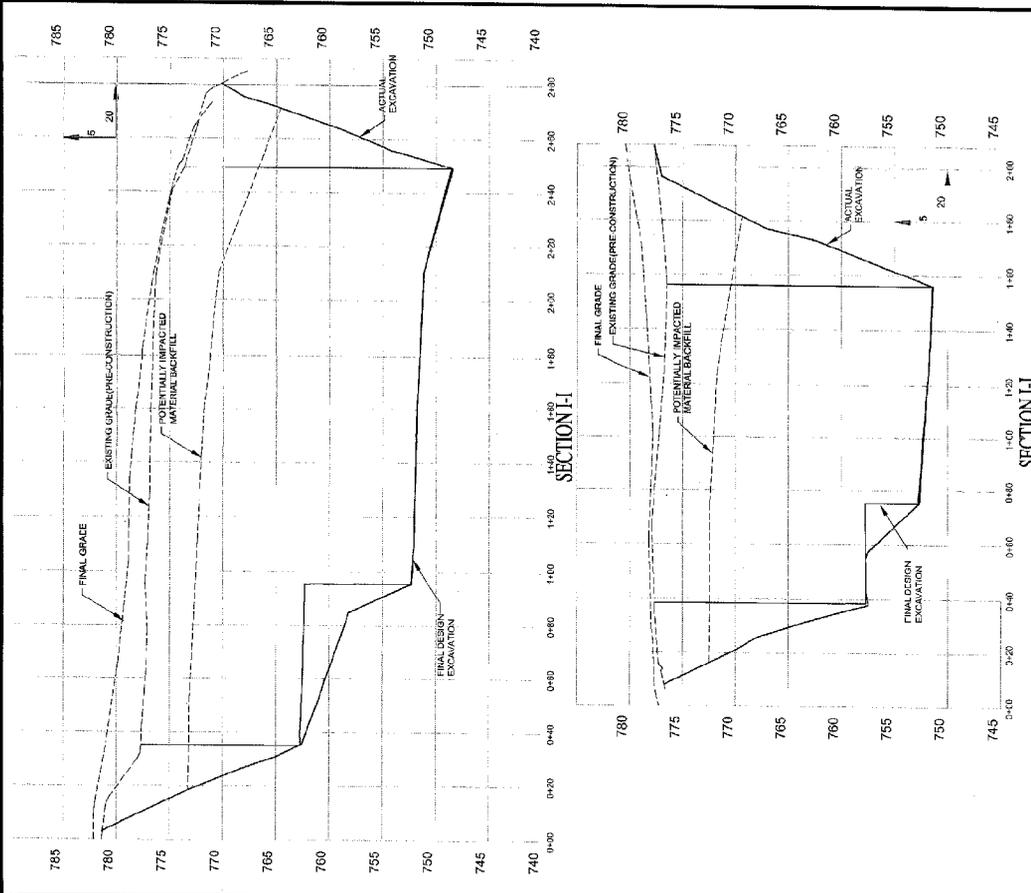
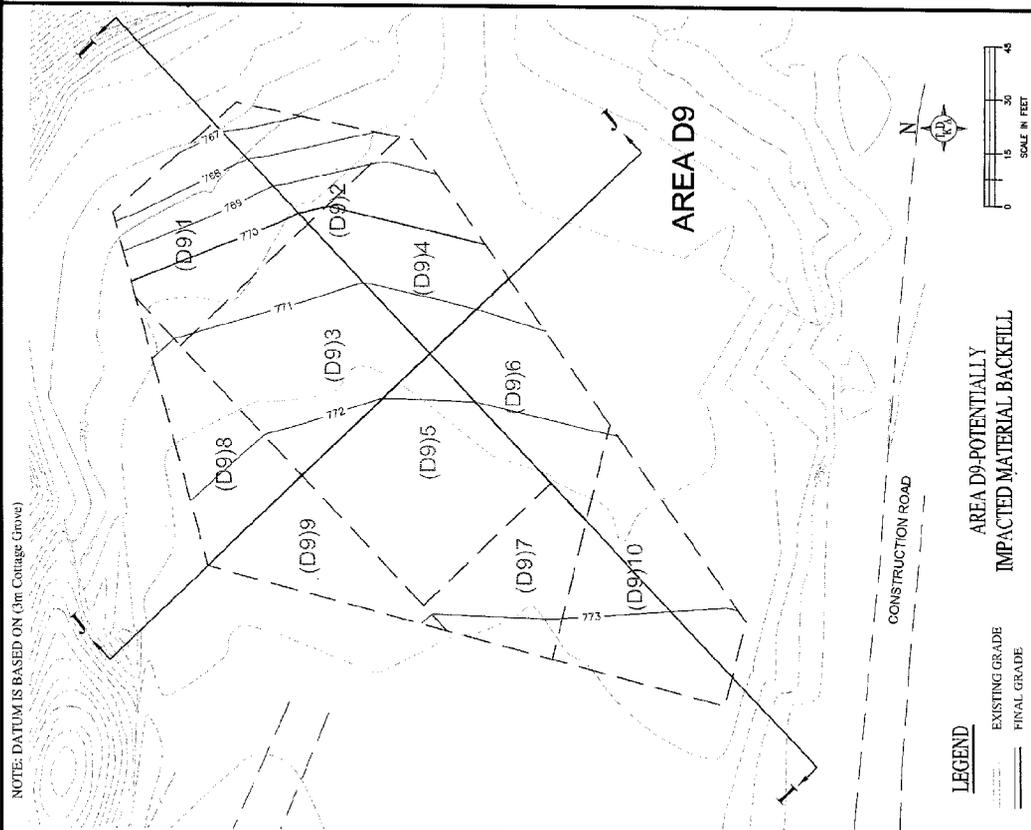
Map Source:  
 U.S. Department of Agriculture, Farm Services Agency,  
 Aerial Photography Field Office, National Agricultural  
 Imagery Program (NAIP), Digital Orthorectified Images (DOQ),  
 Minnesota, 2003

Figure 3-11

Perimeter Monitoring Locations  
 Cottage Grove Site

File:\3rsed\11\fig\Cottage\_Groves\305\03\_area\_perimeter\_monitoring\_loops.mxd, 06-Jan-11 11:05, ricksc

3M\_MN00716935



COTTAGE GROVE SITE  
 AREA D9  
 FINAL LIMITS

3M PROJECT I.D. 0940152  
 COTTAGE GROVE, MINNESOTA  
 DECEMBER 2.1. 2010

FIGURE 3-12 D9 AREA BACKFILL



#### 4. REFERENCES

MPCA (Minnesota Pollution Control Agency). 2009a. *Proposed Cleanup Plan for PFCs (Proposed Plan)*. January 6, 2009.

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WESTON (Weston Solutions, Inc). 2010. *Construction Completion Report - D1 and D2 Areas*. Prepared by Weston Solutions, Inc. for the 3M Company. July 2010.

# Appendix A

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**APPENDIX A  
PHOTOGRAPH LOG**

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3M\_MN00716939

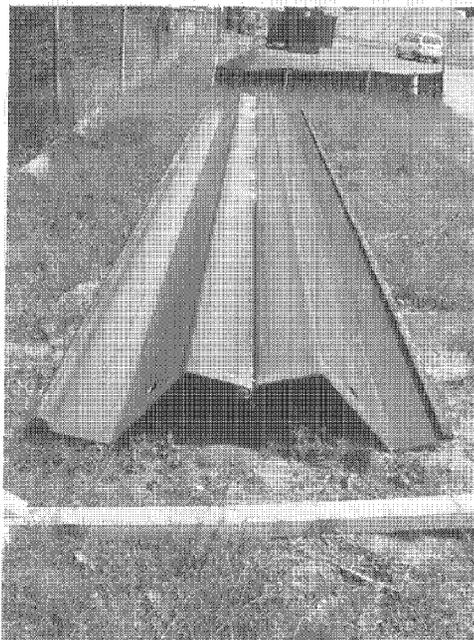
2318.0068

## Appendix A - Table of Contents

|  |      |
|--|------|
| Sheet Piling.....  | A-1  |
| Lime Kiln Dust .....   | A-3  |
| Exclusion Zone Fencing .....   | A-5  |
| Load Out Zones & Loading Procedure .....   | A-6  |
| Haul Truck Weigh Scale.....  | A-7  |
| Stockpile Staging Areas .....  | A-7  |
| Meteorological Monitoring Station .....  | A-8  |
| Surveying.....   | A-8  |
| Surveying Stakes / Top of Slope.....   | A-10 |
| Staging of Potentially Impacted Material .....                                     | A-10 |
| Temporary Staging of Direct Load Material.....                                     | A-11 |
| Creating Stockpiles.....   | A-12 |
| ~100 yd <sup>3</sup> Stockpile Split into Two ~50 yd <sup>3</sup> Stockpiles ..... | A-13 |
| Stockpile Flagging System .....  | A-14 |
| Liner Station/Liner Procedure.....   | A-14 |
| D9 Non-Soil Debris .....   | A-15 |
| Construction Water Sumps .....   | A-17 |
| Decontamination of Sheet Piling .....  | A-18 |
| D9 Excavation Limits .....   | A-20 |
| Heavy Rains / Additional Silt Fencing.....   | A-21 |
| Backfilling.....   | A-23 |

\* The photographs provided in this appendix were selected to demonstrate important site activities and/or procedures discussed in the Construction Completion Report for the excavation activities at the Cottage Grove Site (D9Area). A more detailed project photograph log is maintained in 3M and WESTON Project Files. Additionally, the detailed project photograph log was shared with the MPCA and AECOM representatives throughout the site activities.

## Sheet Piling



- Photograph 1: D9 Area – SKZ22 (30' – 0'') Sheet Piling Staged for Installation (5/24/2010).

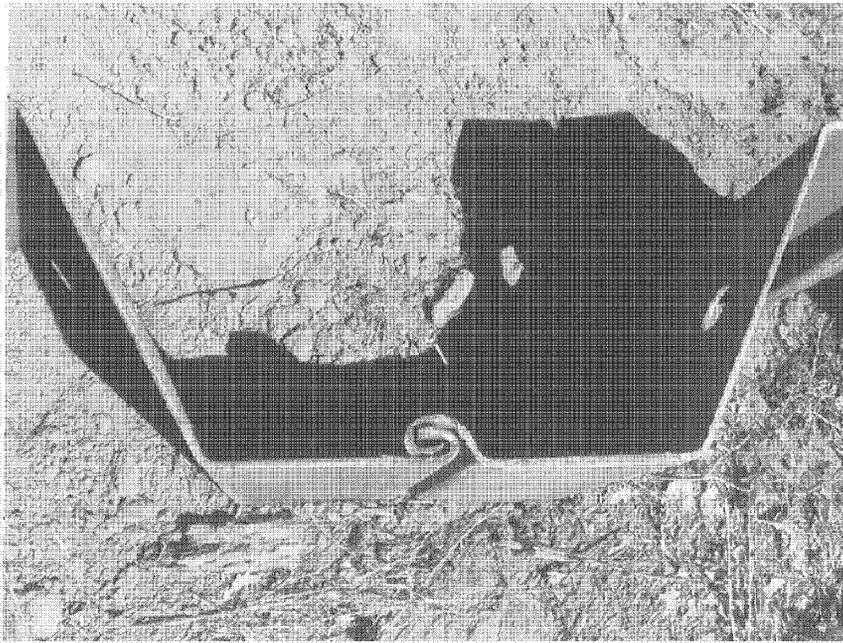


- Photograph 2: D9 Area – Bolander Personnel, Crane and Lift Installing Sheet Piling along North Side of D9 Area (5/24/2010).

A - 1

3M\_MN00716941

2318.0070



- Photograph 3: D9 Area – Sheet Piling Interlocking System (5/25/2010).



- Photograph 4: D9 Area – Sheet Piling Early Refusal along East End of Wall Due to C&D Waste along Slope (6/2/2010).



- Photograph 5: D9 Area – Completed Sheet Piling Installation along North Side of D9 Area (Raised Sheets Refused Early) (6/2/2010).

### **Lime Kiln Dust**



- Photograph 6: Cottage Grove Site – Bolander Documents LKD Delivery Weights at 3M's Onsite Scale (7/9/2010).



- Photograph 7: D9 Area – Staged 1-Ton Super Sacks of LKD West of the Office Trailer (7/9/2010).



- Photograph 8: D9 Staging Area - Bolander Mixing LKD into the D9 1-9 Stockpiles for Onsite Conditioning (7/20/2010).

A - 4

3M\_MN00716944

2318.0073



- Photograph 9: D9 Area – Bolander Mixes 10 Bags of LKD Into Soil Block D9 2-7 to Stabilize Soils and Support Heavy Equipment (7/26/2010).

### Exclusion Zone Fencing



- Photograph 10: D9 Area – Safety Signage Along South Side of D9 Exclusion Zone / Haul Road (6/9/2010).

A - 5

3M\_MN00716945

2318.0074



- Photograph 11: D9 Area – Wildlife Deterrent Fence and Redirection of Deer Around the D9 Excavation (7/13/2010).

### **Load Out Zones & Loading Procedure**



- Photograph 12: Load-out From D9 Staging Area.

### Haul Truck Weigh Scale



- Photograph 13: D9 Staging Area – Overview of Onsite Bolander Truck Scale and Haul Road to the East Cove (7/30/2010).

### Stockpile Staging Areas



- Photograph 14: D9 Staging Area – Construction of PIM-2 Staging Area for Additional Potentially Impacted Material (6/22/10). PIM-1 Stockpile is in Background.

A - 7

3M\_MN00716947

2318.0076

## Meteorological Monitoring Station



- Photograph 15: D9 Area – Met Weather Station (5/25/2010).

## Surveying



- Photograph 16: D9 Area – TKDA Survey Equipment Area – TKDA, Bolander & Weston Personnel Survey Layer 2 (5'-10' BGS) (2/26/2010).

A - 8

3M\_MN00716948

2318.0077

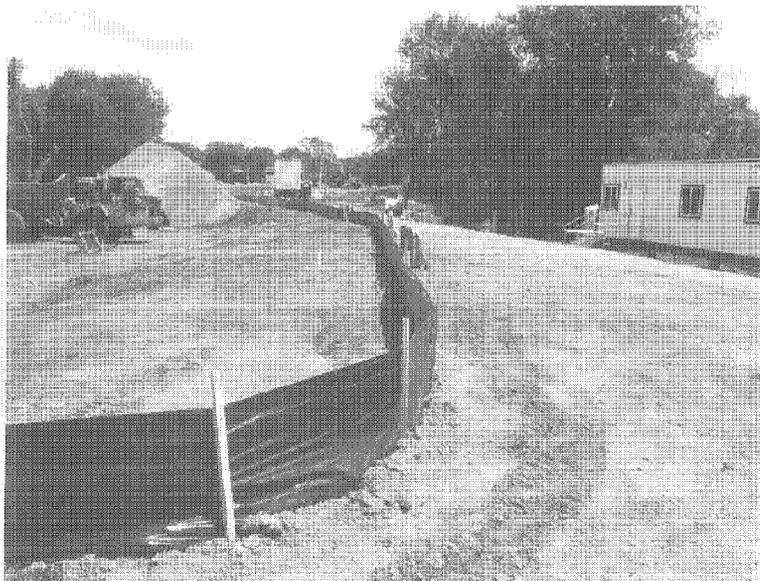


- Photograph 17: D9 Area – Weston & Bolander Surveying the North Side of the D9 Excavation for Verification (7/1/2010).



- Picture 18: D9 Staging Area – Weston & Bolander Personnel Surveying Stockpiles from Soil Block D9 1-3 on the EW-1 Staging Area for Quantity (7/20/2010).

## Surveying Stakes / Top of Slope



- Photograph 19: D9 Area – Installed Silt Fence along South Side of D9 with Top-of-Slope Staking on Interior (6/3/2010).

## Staging of Potentially Impacted Material

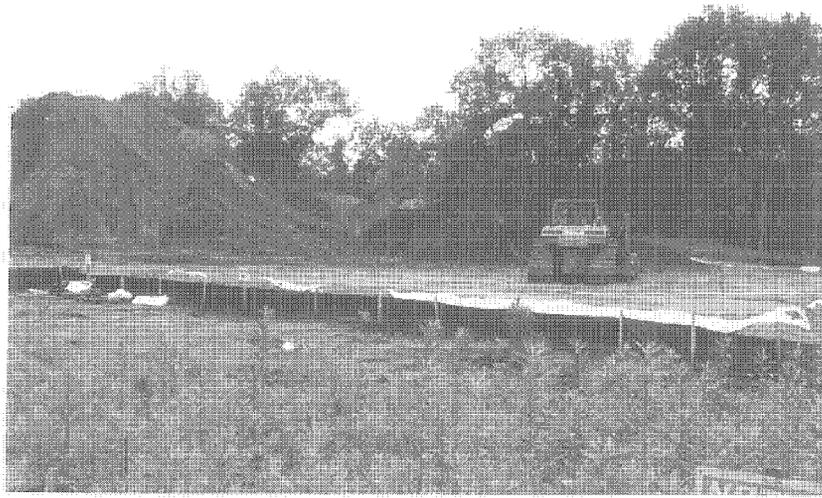


- Photograph 20: D9 Staging Area – Potentially Impacted Material Staged on PIM-1 maintained with Dedicated Dozer (6/22/2010).

A - 10

3M\_MN00716950

2318.0079



- Photograph 21: D9 Staging Area – Potentially Impacted Material Staged on the PIM-2 Staging Area (5/23/2010).

### Temporary Staging of Direct Load Material

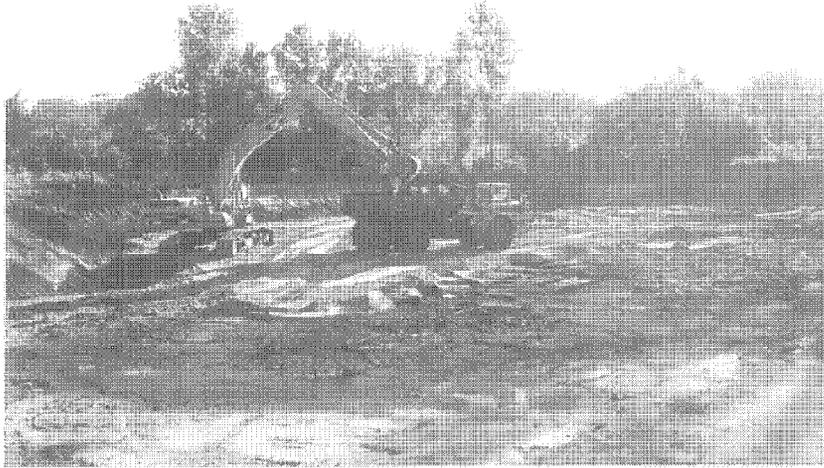


- Photograph 22: D9 Staging Area – Bolander Stages Material from the Direct Load Soil Block D9 1-8 on the EW-3 Staging Area for Hauling Activities (7/7/2010).

A - 11

3M\_MN00716951

## Creating Stockpiles



- Photograph 23: D9 Area – Bolander Excavates and Loads Soil Block D9 1-9 for Stockpiling (7/2/2010).



- Photograph 24: D9 Staging Area – Bolander Generates Stockpiles on the EW-1 Stockpile Staging Area from the Excavated D9 1-9 Soil Block (7/2/2010).

A - 12

3M\_MN00716952

2318.0081



- Photograph 25: D9 Staging Area – Bolander Generates Stockpiles on the EW-1 Stockpile Staging Area from the Excavated D9 1-9 Soil Block (7/2/2010).

### **~100 yd<sup>3</sup> Stockpile Split into Two ~50 yd<sup>3</sup> Stockpiles**



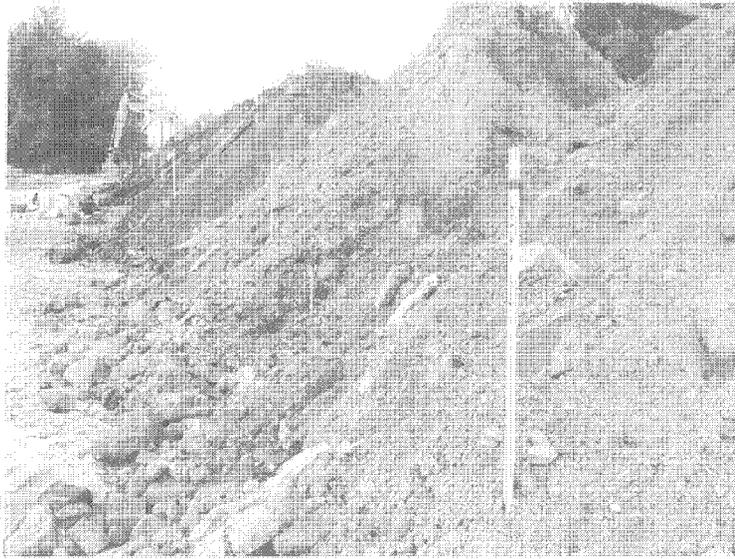
- Photograph 26: D9 Staging Area – Material Generated and Placed from Soil Block D9 1-3 into Stockpiles (7/16/2010). The stockpile identification stake is visible (D9 1-3 003-2), indicating the material staged in this pile was pulled from the D9 excavation, Soil Block 1-3 and it is the second half of the third 100 yd<sup>3</sup> stockpile.

A - 13

3M\_MN00716953

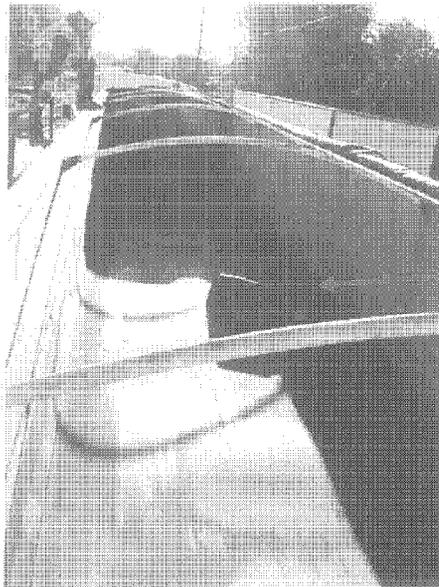
2318.0082

## Stockpile Flagging System



- Photograph 27: D9 Staging Area – Soil Block D9 1-3 Stockpiles Staged on the EW-1 Staging Area for Sampling and Surveying (7/16/2010). The red flagging signifies the stockpile has been sampled and it is not yet approved for hauling.

## Liner Station/Liner Procedure



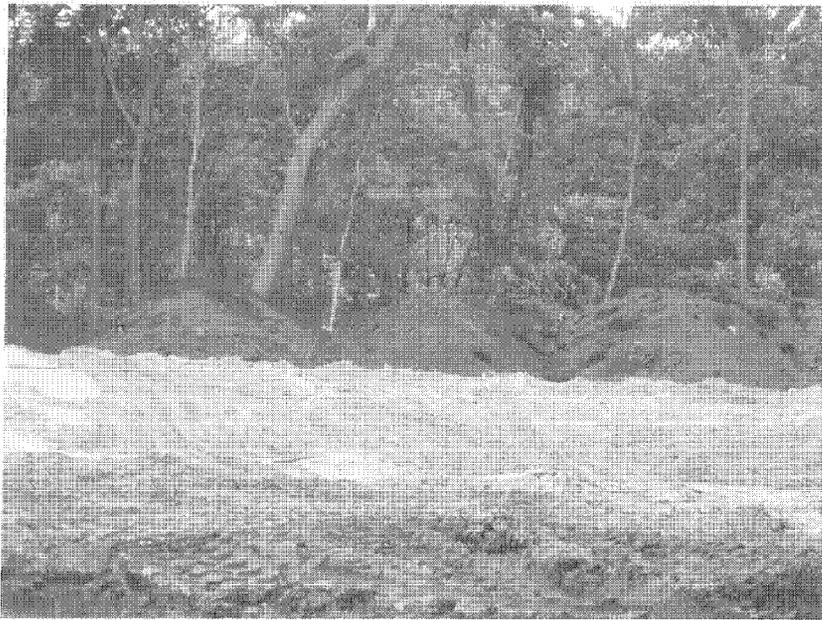
Roll of liner  
before placement

- Photograph 28: Empty Truck Bed Prior to being Lined. A roll of black liner is visible in the bed of the truck.

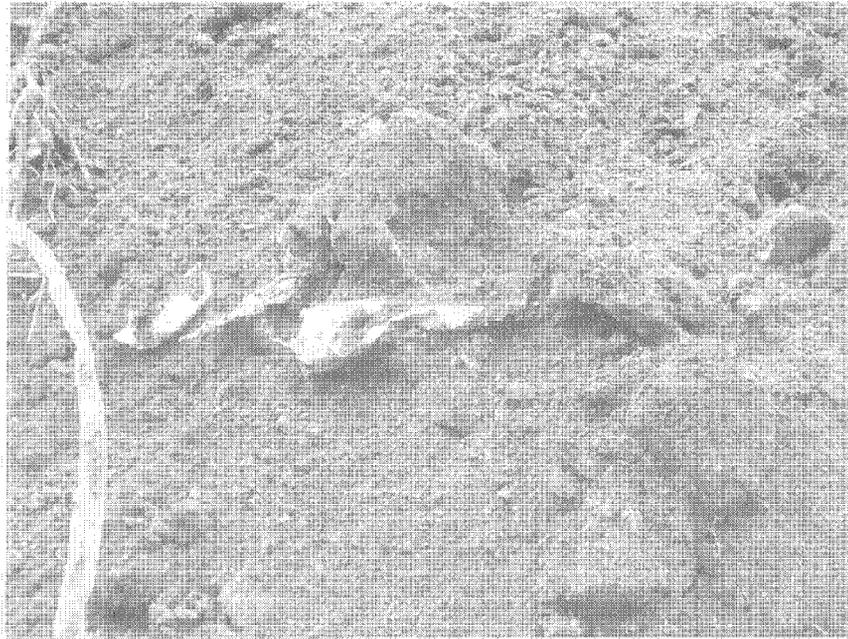


- Photograph 29: D9 Area – Haul Truck with Direct Load Soil Block D9 1-5 Material Inspected at Haul Truck Inspection Station (7/12/2010).

### **D9 Non-Soil Debris**



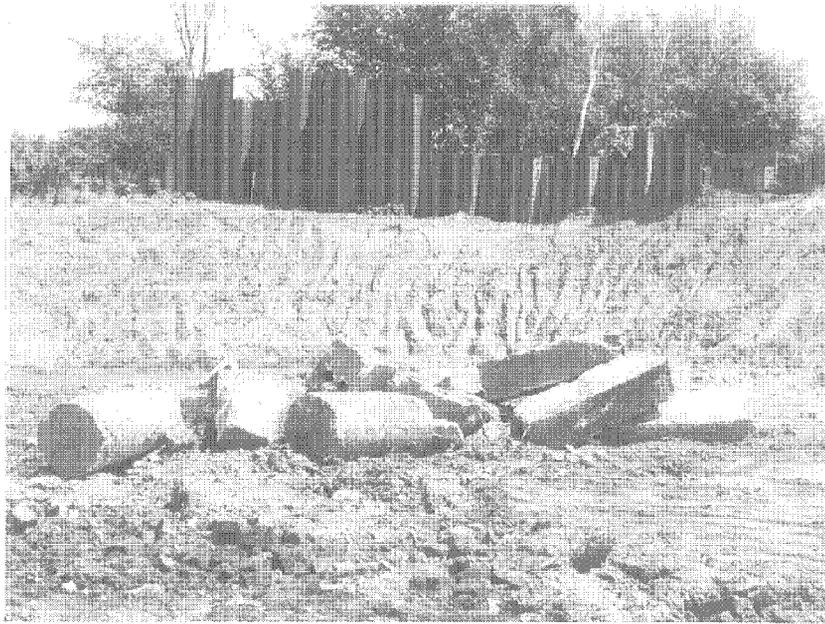
- Photograph 30: D9 Staging Area – Colored Powder Material Removed with the Potentially Impacted Material (6/9/2010).



- Photograph 31: D9 Staging Area – Encountered Colored Material from Potentially Impacted Layer (6/10/2010).



- Photograph 32: D9 Staging Area – Encountered Empty Crushed Drum Fragments from Potentially Impacted Material (6/10/2010).



- Photograph 33: D9 Area – Concrete Debris Excavated from Layer #2 (15' – 20' BGS) in the D9 Excavation (7/16/2010).

### Construction Water Sumps



- Photograph 34: D9 Area – Collected Construction Water above Soil Block D9 1-1 & D9 1-2 (6/29/2010).

A - 17

3M\_MN00716957

2318.0086

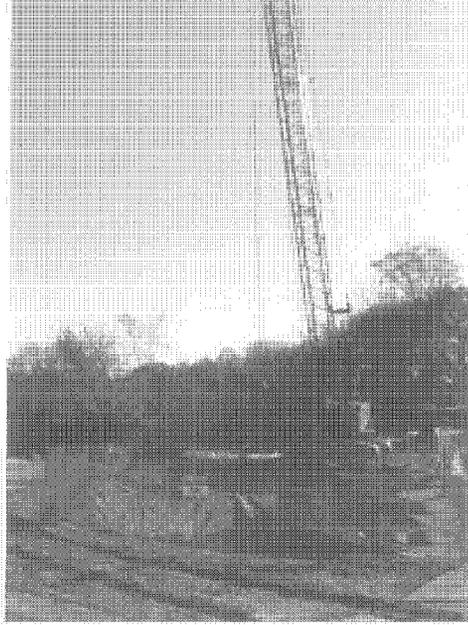


- Photograph 35: D9 Area – Bolander Constructs a Collected Construction Water Sump along the North Side of the D9 1-2 Soil Block (7/13/2010).

### Decontamination of Sheet Piling



- Photograph 36: Sump Left Open to Collect Decon Water.



- Photograph 37: Minimized Exclusion Zone with Crane to Pull Sheet Piling.



- Photograph 38: Decontamination of Sheet Piling.



- Photograph 39: Removal of Sheet Piling from Site.

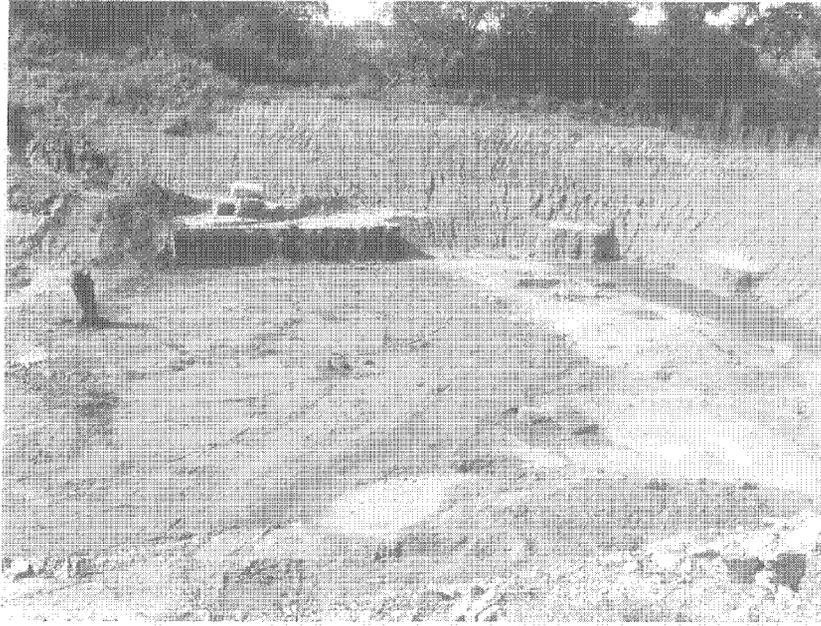
### D9 Excavation Limits



- Photograph 40: Complete D9 Area (West) – Completed D9 Excavation. Note PIM slope material from 20' – 25' BG5 layer staged in the excavation as backfill (8/20/2010).

A - 20

3M\_MN00716960



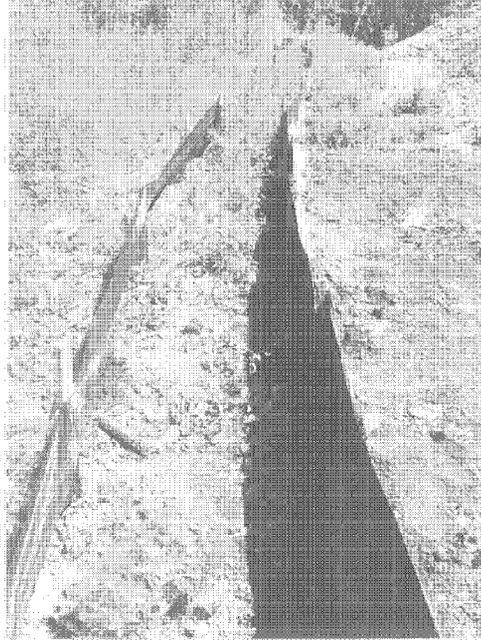
- Photograph 41: Complete D9 Area (Northwest) – Completed D9 Excavation. Note PIM slope material from 20' – 25' BGS layer staged in the excavation as backfill (8/20/2010).

### Heavy Rains/Additional Silt Fencing

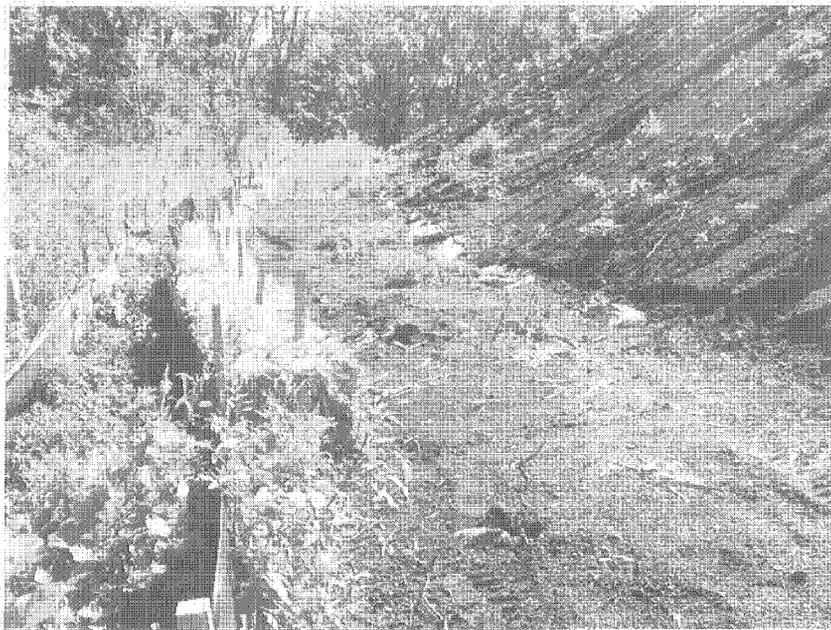


- Photograph 42: D9 Staging Area – East Site Exclusion Zone for the Potentially Impacted Material Stockpiles (PIM-1 and PIM-2).

A - 21



- Photograph 43: D9 Staging Area – North Side of the Potentially Impacted Material Stockpiles Exclusion Zone Silt Fence w/Secondary Containment (7/6/2010).



- Photograph 44: D9 Staging Area – North Side of the Potentially Impacted Material Stockpiles Exclusion Zone Silt Fence with Secondary Containment (7/28/2010).

## Backfilling



- Photograph 45: Backfilling.



- Photograph 46: Backfill and Compaction.

A - 23

3M\_MN00716963

2318.0092



- Photograph 47: Final grade (Additional), Final Grade and Stone Laydown Pads.

# Appendix B

Appendix B

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**APPENDIX B**  
**CONSTRUCTION PERMITS**

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# Minnesota Pollution Control Agency

520 Lafayette Road North | St. Paul, MN 55155-4194 | 651-296-6300 | 800-657-3864 | 651-282-5332 TTY | [www.pca.state.mn.us](http://www.pca.state.mn.us)

January 21, 2009

Ms. Vickie J Batroot, Site Director  
10746 Innovation Rd  
Cottage Grove, MN 55016

RE: Coverage Under NPDES/SDS General Stormwater Permit for Construction Activity  
(MNR100001) for: Clearing and Grubbing - Cottage Grove - CSW (ID# C00027036)

Dear Ms. Vickie J Batroot:

Thank you for submitting your completed construction stormwater permit application for the above-referenced project. The Minnesota Pollution Control Agency (MPCA) is pleased to inform you that you have been granted coverage under the National Pollutant Discharge Elimination System (NPDES)/State Disposal System (SDS) Stormwater Permit ("Permit") for Construction Activity. Permit coverage for this project started on January 27, 2009, seven (7) days after the postmarked date of your completed permit application form.

You are required to comply with the terms of the Permit to prevent erosion and control sediment from your site with the procedures established in your Stormwater Pollution Prevention Plan (SWPPP). You are also required to upgrade your SWPPP and erosion prevention and sediment control Best Management Practices (BMPs) as site and weather conditions dictate throughout the entire term of the project.

Enclosed, with the **contractor's copy** of this letter only, you will find a "Notice of Stormwater Permit Coverage" certificate for this construction project. Once all construction activity has been completed at this project, you must submit a "Notice of Termination" (NOT) form to the MPCA within 30 days of meeting the conditions outlined in Part II (C) of the permit. Please check the MPCA website ([www.pca.state.mn.us/water/stormwater/stormwater-c.html](http://www.pca.state.mn.us/water/stormwater/stormwater-c.html)) or call to request an NOT form and fact sheet.

Please save this letter for your records. If you have any questions about permit coverage for this project, please contact the Construction Stormwater Program at 651-757-2119 or toll free at 800-657-3804.

Sincerely,

Brian Livingston  
Supervisor, Stormwater Policy & Technical Assistance Unit  
St. Paul Office  
Municipal Division

cc: Ms. Vickie J Batroot

Minnesota Pollution  
Control Agency  
520 Lafayette Road North  
St. Paul, MN 55155-4194

# Notice of Termination/ Permit Modification Form

## NPDES Construction Stormwater Permit Program

Transfer or terminate your National Pollutant Discharge Elimination System (NPDES) Construction Stormwater Permit. Allowable changes are permit termination and permit transfer for all or a portion of the site. This form replaces the Notice of Termination (NOT), Permit Transfer, Permit Modification, and Subdivision Registration forms used under the former permit.

Instructions for this form are located on the Internet at <http://www.pca.state.mn.us/publications/wq-strm2-60i.pdf>.

Form will be invalid and returned to sender unless the checkbox associated with the applicable actions is checked and the corresponding signature is provided in section A-1, A-2, A-3, and or A-4.

Please submit to: Construction Stormwater Permit Program  
Minnesota Pollution Control Agency  
520 Lafayette Road North  
St. Paul, Minnesota 55155-4194

### Existing Permit Identification

- a. Current permit ID: C000 27036 or SUB00 \_\_\_\_\_
- b. Project name: D1 & D2 Soil Removal Project - (formerly Cleaning & Grubbing)  
Project location: 10746 Innovation Road, Cottage Grove, MN 55016  
South and east corner of the property near the ravine to the Mississippi River  
*Briefly describe where the construction activity occurs (for example: Intersection of 45th St. and Irving Ave.). Include address if available.*

### Select Option 1, 2, or 3

#### 1. Notice of Termination (NOT) for entire site by existing owner

Select this option when a project has achieved final stabilization with existing owner / contractor and no part of the site is being transferred to a new owner and all construction activity is complete.

- c.  Notice of Termination for entire existing permitted site or a subdivided site. (Current owner and contractor must sign under the "Current" Owner and "Current" Contractor sections respectively).

Check above box and sign section A-1 and A-2 on page 2.

#### 2. Transfer of entire site to new owner or contractor (Transfer/Modification)

Select this option if the *entire* site (represented by the ID above) has either a new owner and/or new general contractor. Check all the boxes below that apply.

- d.  New Owner for entire existing permitted site. f.  Current Owner for entire existing permitted site.  
e.  New Contractor for entire existing permitted site. g.  Current Contractor for entire existing permitted site.

Check above box(es) and sign section A-3 and A-4 page 3 and or check above box(es) and sign section A-1 and A-2 page 2  
Both "Current" and "New" Parties must sign this form (preferred), however, separate forms are acceptable.

#### 3. Transfer of a portion of a site to a new owner or contractor (Subdivision)

Select this option if a *portion* of a site (permitted under the ID above) has either a new owner and/or new general contractor. Check the boxes below that apply.

- h. Describe the portion of the site being transferred: Lot \_\_\_\_\_ Block \_\_\_\_\_  
Project location/address: \_\_\_\_\_

City, State, and Zip: \_\_\_\_\_

*Example: SW quadrant of 45th Street and Irving Avenue or Lots 1-17 of block 20. Include list of addresses if available or include a map.*

- i.  New Owner for portion of existing site. k.  Current Owner of the portion to be transferred.  
j.  New Contractor for portion of existing site. l.  Current Contractor of the portion to be transferred.

Check above box(es) and sign section A-3 and A-4 page 3 and or check above box(es) and sign section A-1 and A-2 page 2  
Both "Current" and "New" Parties must sign this form (preferred), however, separate forms are acceptable.

**Current Owner Authorized Signature (A-1)**

Business/Firm name: \_\_\_\_\_  
Last name: \_\_\_\_\_ First name: \_\_\_\_\_ Title: \_\_\_\_\_  
E-mail address: \_\_\_\_\_ Telephone: (\_\_\_\_) \_\_\_\_\_ Ext. \_\_\_\_\_  
Mailing address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip code: \_\_\_\_\_  
Alternate contact:  
Last name: \_\_\_\_\_ First name: \_\_\_\_\_ Title: \_\_\_\_\_  
E-mail address: \_\_\_\_\_ Telephone: (\_\_\_\_) \_\_\_\_\_ Ext. \_\_\_\_\_

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage this system, or the persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

I also certify under penalty of law that I have read, understood, and accepted all terms and conditions of the National Pollutant Discharge Elimination System (NPDES)/State Disposal System (SDS) General Stormwater Permit Construction Activity (MN R100001) that authorizes stormwater discharges associated with the construction site identified on this form.

Authorized signature: \_\_\_\_\_ Date: \_\_\_\_\_

*This Application must be signed by: Corporation: a principal executive officer of at least the level of vice-president or the duly authorized representative or agent of the executive officer if the representative or agent is responsible for the overall operation of the facility that is the subject of the permit application. Partnership or Sole Proprietorship: a general partner or the proprietor. Municipality, State, Federal or Other Public Agency: principal executive officer or ranking elected official.*

**Current Contractor Authorized Signature (A-2)**

Business/Firm name: 3M Company  
Last name: Batroot First name: Vickie Title: Site Director  
E-mail address: vjbatroo1@mnm.com Telephone: (651) 456-2001 Ext. \_\_\_\_\_  
Mailing address: 10746 Innovation Road  
City: Cottage Grove State: MN Zip code: 55016  
Alternate contact:  
Last name: Flicker First name: Thomas Title: Site Resident Engineer  
E-mail address: tflicker1@mnm.com Telephone: (651) 456-2111 Ext. \_\_\_\_\_

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage this system, or the persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

I also certify under penalty of law that I have read, understood, and accepted all terms and conditions of the National Pollutant Discharge Elimination System (NPDES)/State Disposal System (SDS) General Stormwater Permit Construction Activity (MN R100001) that authorizes stormwater discharges associated with the construction site identified on this form.

Authorized signature: Vickie Batroot Date: 12-10-09

*This Application must be signed by: Corporation: a principal executive officer of at least the level of vice-president or the duly authorized representative or agent of the executive officer if the representative or agent is responsible for the overall operation of the facility that is the subject of the permit application. Partnership or Sole Proprietorship: a general partner or the proprietor. Municipality, State, Federal or Other Public Agency: principal executive officer or ranking elected official.*

**"New" Owner Authorized Signature (A-3)**

Business/Firm name: \_\_\_\_\_  
Last name: \_\_\_\_\_ First name: \_\_\_\_\_ Title: \_\_\_\_\_  
E-mail address: \_\_\_\_\_ Telephone: (\_\_\_\_) \_\_\_\_\_ Ext. \_\_\_\_\_  
Mailing address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip code: \_\_\_\_\_  
Alternate contact:  
Last name: \_\_\_\_\_ First name: \_\_\_\_\_ Title: \_\_\_\_\_  
E-mail address: \_\_\_\_\_ Telephone: (\_\_\_\_) \_\_\_\_\_ Ext. \_\_\_\_\_

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage this system, or the persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

I also certify under penalty of law that I have read, understood, and accepted all terms and conditions of the National Pollutant Discharge Elimination System (NPDES)/State Disposal System (SDS) General Stormwater Permit Construction Activity (MN R100001) that authorizes stormwater discharges associated with the construction site identified on this form.

Authorized signature: \_\_\_\_\_ Date: \_\_\_\_\_

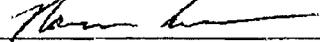
*This Application must be signed by: Corporation: a principal executive officer of at least the level of vice-president or the duly authorized representative or agent of the executive officer if the representative or agent is responsible for the overall operation of the facility that is the subject of the permit application. Partnership or Sole Proprietorship: a general partner or the proprietor. Municipality, State, Federal or Other Public Agency: principal executive officer or ranking elected official.*

**"New" Contractor Authorized Signature (A-4)**

Business/Firm name: Carl Bolander & Sons Company  
Last name: Everson First name: Norm Title: Project Manager  
E-mail address: norm@bolander.com Telephone: (651) 290-3740 Ext. \_\_\_\_\_  
Mailing address: 251 Starkey Street  
City: St. Paul State: MN Zip code: 55107  
Alternate contact:  
Last name: Stanton First name: Roger Title: Site Superintendent  
E-mail address: \_\_\_\_\_ Telephone: (651) 224-8299 Ext. \_\_\_\_\_

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage this system, or the persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

I also certify under penalty of law that I have read, understood, and accepted all terms and conditions of the National Pollutant Discharge Elimination System (NPDES)/State Disposal System (SDS) General Stormwater Permit Construction Activity (MN R100001) that authorizes stormwater discharges associated with the construction site identified on this form.

Authorized signature:  Date: 12-10-09

*This Application must be signed by: Corporation: a principal executive officer of at least the level of vice-president or the duly authorized representative or agent of the executive officer if the representative or agent is responsible for the overall operation of the facility that is the subject of the permit application. Partnership or Sole Proprietorship: a general partner or the proprietor. Municipality, State, Federal or Other Public Agency: principal executive officer or ranking elected official.*

If you have questions about the administrative details of the permit process go to: <http://www.pca.state.mn.us/publications/wq-strm2-60.pdf> or call the Minnesota Pollution Control Agency at 651-296-6300 or 800-657-3864 and ask for "Construction Stormwater." If you have technical questions, ask for the "Stormwater Policy and Technical Assistance Unit."



Community Development Department  
 7516 - 80th Street South  
 Cottage Grove, MN 55016  
[www.cottage-grove.org](http://www.cottage-grove.org)

Planning Division  
 Telephone: 651-458-2827  
 Fax: 651-458-2881  
 E-Mail: [planning@cottage-grove.org](mailto:planning@cottage-grove.org)

## PLANNING APPLICATION

|  |   |
|--|---|
| <b>Applicant</b><br><br><b>3M Company</b><br>Mailing Address<br><b>3M Center, Bldg. 275-6W-22</b><br><b>St. Paul, MN 55144</b> | <b>Contact Name (if different)</b><br><br><b>Patrick J McGrann</b><br><b>E-Mail Address</b><br><br><b>pjmcrann2@mmm.com</b> |
| <b>Telephone Numbers:</b><br>Daytime: <b>651-737-2984</b> Other:                      Fax: <b>651-737-3471</b>                 |   |

|   |   |
|---|---|
| <b>Property Owner</b><br><br><b>3M Company</b><br>Mailing Address<br><b>3M Center, Bldg. 275-6W-22</b><br><b>St. Paul, MN 55144</b> | <b>Contact Name (if different)</b><br><br><br><b>E-Mail Address</b><br><br><br> |
| <b>Telephone Numbers:</b><br>Daytime:                      Other:                      Fax:   |   |

|   |   |
|---|---|
| <b>Property Address/Location</b><br><br><b>10746 Innovation Road, Cottage Grove, MN</b><br><b>Legal Description</b> | <b>Property Identification Number</b><br><br><br> |
|---|---|

| Type of Application: (check all that apply to your proposal) |                        |                                |   |
|--|------------------------|--------------------------------|---|
| Minor Subdivision  | \$300 + \$2000 escrow  | Conditional Use Permit         | \$400 + \$4000 escrow <input checked="" type="checkbox"/> |
| Preliminary Plat   | \$400 + \$15000 escrow | Interim Conditional Use Permit | \$300 (annually)  |
| Final Plat   | \$200                  | Site Plan Review               | \$300 + \$5000 escrow                                     |
| Comprehensive Plan Amendment                                 | \$600                  | Variance                       | \$200   |
| Zoning Amendment   | \$600                  | Right-of-Way/Easement Vacation | \$300   |

**Description of Proposal (If more space is needed, please attach a letter describing your request):**

Requesting Conditional Use Permit for the Excavation and removal of soil material from area D-9 located at 3M Cottage Grove Center Plant Site. Excavation area is 100% within the boundary of the 3M Plant Site. Grading to include moving approximately 10,000 cu of material and excavating and removal of an additional 10,000 cu of material from the 3M Site.

**Acknowledgment and Signature:** By submitting this signed application, the applicant and property owner agree to provide the City with all necessary information including plans, surveys, drawings, and other materials necessary to process and examine this request. The applicant and property owner also agree to pay all fees and escrows at the time of application and again whenever accounts are deficient. The applicant and property owner also agree to allow City staff, City Council, and Planning Commission members access to the property where the planning consideration is being requested.

|  |  |
|--|--|
| <b>Signature of Applicant:</b><br><b>Patrick J McGrann</b><br>Date: <b>3/25/10</b> | <b>Signature of Property Owner:</b><br><b>Vickie Batroot</b><br>Date: <b>3/26/10</b> |
|--|--|

|                                  |                                  |           |
|----------------------------------|----------------------------------|-----------|
| Date Application Received: _____ | Date Application Accepted: _____ | By: _____ |
| Case Number(s): _____            | Amount Received: _____           | By: _____ |



\* 3 5 - 0 2 7 - 2 1 - 2 2 - 0 0 0 2 \*



\* 2 0 1 0 - 0 0 5 9 5 \*  
DATE ISSUED: 05/05/2010

**CITY OF COTTAGE GROVE**  
7516 80TH STREET S  
COTTAGE GROVE, MN 55016  
(651) 458-2804

**ADDRESS** : 10746 INNOVATION RD S  
**PIN** : 35-027-21-22-0002  
**LEGAL DESC** : METES AND BOUNDS  
: LOT 035 BLOCK 027  
**PERMIT TYPE** : BUILDING  
**PROPERTY TYPE** : COMMERCIAL  
**CONSTRUCTION TYPE** : GRADING/SITEWORK

NOTE: CELL D9 - SOIL REMEDIATION  
CITY COUNCIL APPROVAL OF CONDITIONAL USE PERMIT GRANTED ON APRIL 21, 2010.

|  |  |                    |        |                        |       |                                |       |       |        |                   |      |
|--|--|--------------------|--------|------------------------|-------|--------------------------------|-------|-------|--------|-------------------|------|
| <b>APPLICANT</b>   |  |                    |        |                        |       |                                |       |       |        |                   |      |
| CARL BOLANDER & SONS CO.<br>251 STARKEY STREET<br>ST. PAUL, MN 55107-  | <table> <tr><td>GRADING/EXCAVATION</td><td style="text-align: right;">391.00</td></tr> <tr><td>GRADING ASBUILT REVIEW</td><td style="text-align: right;">30.00</td></tr> <tr><td>GRADING/EXCAVATION PLAN REVIEW</td><td style="text-align: right;">73.75</td></tr> <tr><td style="text-align: right;">TOTAL</td><td style="text-align: right;">494.75</td></tr> <tr><td>PAID WITH CHECK #</td><td style="text-align: right;">8190</td></tr> </table> | GRADING/EXCAVATION | 391.00 | GRADING ASBUILT REVIEW | 30.00 | GRADING/EXCAVATION PLAN REVIEW | 73.75 | TOTAL | 494.75 | PAID WITH CHECK # | 8190 |
| GRADING/EXCAVATION   | 391.00   |                    |        |                        |       |                                |       |       |        |                   |      |
| GRADING ASBUILT REVIEW   | 30.00  |                    |        |                        |       |                                |       |       |        |                   |      |
| GRADING/EXCAVATION PLAN REVIEW   | 73.75  |                    |        |                        |       |                                |       |       |        |                   |      |
| TOTAL  | 494.75   |                    |        |                        |       |                                |       |       |        |                   |      |
| PAID WITH CHECK #  | 8190   |                    |        |                        |       |                                |       |       |        |                   |      |
| <b>OWNER</b>   |  |                    |        |                        |       |                                |       |       |        |                   |      |
| 3M COMPANY<br>3M COMPANY TAX-BLDG220-6E-02<br>PO BOX 33441<br>TAX DIVISION<br>ST. PAUL, MN 55133-3441  |  |                    |        |                        |       |                                |       |       |        |                   |      |
| <b>AGREEMENT AND SWORN STATEMENT</b>   |  |                    |        |                        |       |                                |       |       |        |                   |      |
| <p>The work for which this permit is issued shall be performed according to: 1) the conditions of this permit; 2) the approved plans and specifications; 3) the applicable City approvals, Ordinances, and Codes; and, 4) the State Building Code. This permit is for only the work described, and does not grant permission for additional or related work that requires separate permits. This permit will expire and become null and void if work is not started within 180 days, or work is suspended or abandoned for a period of 180 days any time after work has commenced. Applicant is responsible for assuring all required inspections are requested in conformance with the State Building Code.</p> |  |                    |        |                        |       |                                |       |       |        |                   |      |

SEPARATE PERMITS REQUIRED FOR WORK OTHER THAN DESCRIBED ABOVE.

**CITY OF COTTAGE GROVE  
7516 80TH STREET S  
COTTAGE GROVE, MN 55016  
(651) 458-2804**

PERMIT NO.: 2010-00595

DATE ISSUED: 05/05/2010

|                   |                         |                          |
|-------------------|-------------------------|--------------------------|
| ADDRESS           | : 10746 INNOVATION RD S | PERMIT APPLICANT:        |
| PIN               | : 35-027-21-22-0002     | CARL BOLANDER & SONS CO. |
| LEGAL DESC        | : METES AND BOUNDS      | 251 STARKEY STREET       |
|                   | : LOT 035 BLOCK 027     | ST. PAUL, MN 55107-      |
| PERMIT TYPE       | : BUILDING              |                          |
| PROPERTY TYPE     | : COMMERCIAL            |                          |
| CONSTRUCTION TYPE | : GRADING/SITWORK       |                          |

CELL D9  
CITY COUNCIL APPROVAL OF CONDITIONAL USE PERMIT GRANTED ON APRIL 21, 2010.

**BUILDING INSPECTION RECORD**  
24 HOUR NOTICE REQUIRED FOR ALL INSPECTIONS.  
CALL FOR INSPECTIONS WEEKDAYS: 458-2804 7:30 AM - 4:30 PM

| INSPECTION TYPE   | DATE | INSPECTOR | INSPECTION TYPE | DATE | INSPECTOR |
|-------------------|------|-----------|-----------------|------|-----------|
| GRADING/SITE PREP |      |           |                 |      |           |
|                   |      |           |                 |      |           |
|                   |      |           |                 |      |           |
|                   |      |           |                 |      |           |
|                   |      |           |                 |      |           |
|                   |      |           |                 |      |           |
|                   |      |           |                 |      |           |
|                   |      |           |                 |      |           |
|                   |      |           |                 |      |           |
|                   |      |           |                 |      |           |

INSPECTION COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

IN ACCORDANCE WITH CITY ORDINANCE, NEW OR SUBSTANTIALLY REMODELED BUILDINGS SHALL NOT BE OCCUPIED UNTIL ALL WORK HAS BEEN APPROVED, AND A CERTIFICATE OF OCCUPANCY HAS BEEN ISSUED BY THE BUILDING DEPARTMENT.

**THIS CARD MUST BE POSTED AND VISIBLE AT ALL TIMES UNTIL WORK IS COMPLETE.**

# Appendix C

Appendix C

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**APPENDIX C**  
**SURVEY DOCUMENTATION**

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Total Excavation  
Stock Pile  
Direct Load  
PIM Stock Pile

5/29/2010

| Index | Base Surface                           | Comparison Surface      | Cut              | Fill         | Net              | Cut Factor | Fill Factor | Cut (adjusted)   | Fill (adjusted) | Net (adjusted)   | Description                          |
|-------|--|-------------------------|------------------|--------------|------------------|------------|-------------|------------------|-----------------|------------------|--------------------------------------|
| 1     | EG-GRN AS-Built-5-44-20.0-EG-5-21-2010 | D9-10FT BGS With Slopes | 0.00 Cu. Yd.     | 0.00 Cu. Yd. | 6255.62 Cu. Yd.  | 1          | 1           | 1.625562 Cu. Yd. | 0.00 Cu. Yd.    | 6255.62 Cu. Yd.  | Implice Pot.ump.Mat.Volumes 0-10 BGS |
| 2     | EG-GRN AS-Built-5-44-20.0-EG-5-21-2010 | D9-10FT BGS With Slopes | 11975.94 Cu. Yd. | 1.52 Cu. Yd. | 11975.94 Cu. Yd. | 1          | 1           | 11975.94 Cu. Yd. | 1.52 Cu. Yd.    | 11975.93 Cu. Yd. | Implice Pot.ump.Mat.Volumes 0-10 BGS |

7/15/2010

| Index | Base Surface      | Comparison Surface | Cut          | Fill          | Net           | Cut Factor | Fill Factor | Cut (adjusted) | Fill (adjusted) | Net (adjusted) | Description |
|-------|-------------------|--------------------|--------------|---------------|---------------|------------|-------------|----------------|-----------------|----------------|-------------|
| 1     | Base of 1-3 Piles | GRN D9 1-9 001-1   | 0.00 Cu. Yd. | 50.83 Cu. Yd. | 50.83 Cu. Yd. | 1          | 1           | 0.00 Cu. Yd.   | 50.83 Cu. Yd.   | 50.83 Cu. Yd.  | Stock Pile  |
| 2     | Base of 1-3 Piles | GRN D9 1-9 001-1   | 0.00 Cu. Yd. | 49.25 Cu. Yd. | 49.25 Cu. Yd. | 1          | 1           | 0.00 Cu. Yd.   | 49.25 Cu. Yd.   | 49.25 Cu. Yd.  | Stock Pile  |
| 3     | Base of 1-3 Piles | GRN D9 1-9 002-1   | 0.00 Cu. Yd. | 44.64 Cu. Yd. | 44.64 Cu. Yd. | 1          | 1           | 0.00 Cu. Yd.   | 44.64 Cu. Yd.   | 44.64 Cu. Yd.  | Stock Pile  |
| 4     | Base of 1-3 Piles | GRN D9 1-9 002-2   | 0.00 Cu. Yd. | 46.91 Cu. Yd. | 46.91 Cu. Yd. | 1          | 1           | 0.00 Cu. Yd.   | 46.91 Cu. Yd.   | 46.91 Cu. Yd.  | Stock Pile  |

7/20/2010

| Index | Base Surface      | Comparison Surface | Cut          | Fill          | Net           | Cut Factor | Fill Factor | Cut (adjusted) | Fill (adjusted) | Net (adjusted) | Description |
|-------|-------------------|--------------------|--------------|---------------|---------------|------------|-------------|----------------|-----------------|----------------|-------------|
| 1     | Base of 1-3 Piles | GRN D9 1-3 001-1   | 0.00 Cu. Yd. | 71.64 Cu. Yd. | 71.64 Cu. Yd. | 1          | 1           | 0.00 Cu. Yd.   | 71.64 Cu. Yd.   | 71.64 Cu. Yd.  | Stock Pile  |
| 2     | Base of 1-3 Piles | GRN D9 1-3 001-2   | 0.00 Cu. Yd. | 77.56 Cu. Yd. | 77.56 Cu. Yd. | 1          | 1           | 0.00 Cu. Yd.   | 77.56 Cu. Yd.   | 77.56 Cu. Yd.  | Stock Pile  |
| 3     | Base of 1-3 Piles | GRN D9 1-3 002-1   | 0.00 Cu. Yd. | 59.41 Cu. Yd. | 59.41 Cu. Yd. | 1          | 1           | 0.00 Cu. Yd.   | 59.41 Cu. Yd.   | 59.41 Cu. Yd.  | Stock Pile  |
| 4     | Base of 1-3 Piles | GRN D9 1-3 002-2   | 0.00 Cu. Yd. | 51.48 Cu. Yd. | 51.48 Cu. Yd. | 1          | 1           | 0.00 Cu. Yd.   | 51.48 Cu. Yd.   | 51.48 Cu. Yd.  | Stock Pile  |
| 5     | Base of 1-3 Piles | GRN D9 1-3 003-1   | 0.00 Cu. Yd. | 59.67 Cu. Yd. | 59.67 Cu. Yd. | 1          | 1           | 0.00 Cu. Yd.   | 59.67 Cu. Yd.   | 59.67 Cu. Yd.  | Stock Pile  |
| 6     | Base of 1-3 Piles | GRN D9 1-3 003-2   | 0.00 Cu. Yd. | 46.41 Cu. Yd. | 46.41 Cu. Yd. | 1          | 1           | 0.00 Cu. Yd.   | 46.41 Cu. Yd.   | 46.41 Cu. Yd.  | Stock Pile  |
| 7     | Base of 1-3 Piles | GRN D9 1-3 004     | 0.00 Cu. Yd. | 50.23 Cu. Yd. | 50.23 Cu. Yd. | 1          | 1           | 0.00 Cu. Yd.   | 50.23 Cu. Yd.   | 50.23 Cu. Yd.  | Stock Pile  |

7/21/2010

| Index | Base Surface | Comparison Surface  | Cut            | Fill         | Net            | Cut Factor | Fill Factor | Cut (adjusted) | Fill (adjusted) | Net (adjusted) | Description |
|-------|--------------|---------------------|----------------|--------------|----------------|------------|-------------|----------------|-----------------|----------------|-------------|
| 1     | D9-10FT BGS  | GRN D9 1-1 LFT BGS  | 347.92 Cu. Yd. | 0.00 Cu. Yd. | 347.92 Cu. Yd. | 1          | 1           | 347.92 Cu. Yd. | 0.00 Cu. Yd.    | 347.92 Cu. Yd. | Direct Load |
| 2     | D9-10FT BGS  | GRN D9 1-2 LFT BGS  | 161.67 Cu. Yd. | 0.00 Cu. Yd. | 161.67 Cu. Yd. | 1          | 1           | 161.67 Cu. Yd. | 0.00 Cu. Yd.    | 161.67 Cu. Yd. | Direct Load |
| 3     | D9-10FT BGS  | GRN D9 1-3 LFT BGS  | 323.76 Cu. Yd. | 0.00 Cu. Yd. | 323.76 Cu. Yd. | 1          | 1           | 323.76 Cu. Yd. | 0.00 Cu. Yd.    | 323.76 Cu. Yd. | Direct Load |
| 4     | D9-10FT BGS  | GRN D9 1-4 LFT BGS  | 459.59 Cu. Yd. | 0.00 Cu. Yd. | 459.59 Cu. Yd. | 1          | 1           | 459.59 Cu. Yd. | 0.00 Cu. Yd.    | 459.59 Cu. Yd. | Direct Load |
| 5     | D9-10FT BGS  | GRN D9 1-5 LFT BGS  | 287.42 Cu. Yd. | 0.00 Cu. Yd. | 287.42 Cu. Yd. | 1          | 1           | 287.42 Cu. Yd. | 0.00 Cu. Yd.    | 287.42 Cu. Yd. | Direct Load |
| 6     | D9-10FT BGS  | GRN D9 1-6 LFT BGS  | 228.88 Cu. Yd. | 0.00 Cu. Yd. | 228.88 Cu. Yd. | 1          | 1           | 228.88 Cu. Yd. | 0.00 Cu. Yd.    | 228.88 Cu. Yd. | Direct Load |
| 7     | D9-10FT BGS  | GRN D9 1-8 LFT BGS  | 231.13 Cu. Yd. | 0.00 Cu. Yd. | 231.13 Cu. Yd. | 1          | 1           | 231.13 Cu. Yd. | 0.00 Cu. Yd.    | 231.13 Cu. Yd. | Direct Load |
| 8     | D9-10FT BGS  | GRN D9 1-10 LFT BGS | 387.05 Cu. Yd. | 0.00 Cu. Yd. | 387.05 Cu. Yd. | 1          | 1           | 387.05 Cu. Yd. | 0.00 Cu. Yd.    | 387.05 Cu. Yd. | Direct Load |

| Index | Base Surface            | Comparison Surface  | Cut             | Fill         | Net             | Cut Factor | Fill Factor | Cut (adjusted)  | Fill (adjusted) | Net (adjusted)  | Description             |
|-------|-------------------------|---------------------|-----------------|--------------|-----------------|------------|-------------|-----------------|-----------------|-----------------|-------------------------|
| 1     | D9-10FT BGS With Slopes | 15' BGS With Slopes | 4611.73 Cu. Yd. | 0.18 Cu. Yd. | 4611.55 Cu. Yd. | 1          | 1           | 4611.73 Cu. Yd. | 0.18 Cu. Yd.    | 4611.55 Cu. Yd. | Net Graph               |
| 2     | D9-10FT BGS With Slopes | 15' BGS-NO Slopes   | 3110.11 Cu. Yd. | 0.00 Cu. Yd. | 3110.11 Cu. Yd. | 1          | 1           | 3110.11 Cu. Yd. | 0.00 Cu. Yd.    | 3110.11 Cu. Yd. | Layer 1 Volume NO Slope |

7/21/2010 - REVS

| Index | Base Surface            | Comparison Surface  | Cut             | Fill         | Net             | Cut Factor | Fill Factor | Cut (adjusted)  | Fill (adjusted) | Net (adjusted)  | Description |
|-------|-------------------------|---------------------|-----------------|--------------|-----------------|------------|-------------|-----------------|-----------------|-----------------|-------------|
| 1     | D9-10FT BGS With Slopes | GRN D9 1-10 LFT BGS | 4611.02 Cu. Yd. | 0.00 Cu. Yd. | 4611.02 Cu. Yd. | 1          | 1           | 4611.02 Cu. Yd. | 0.00 Cu. Yd.    | 4611.02 Cu. Yd. | Net Graph   |

7/30/2010

| Index | Base Surface            | Comparison Surface | Cut          | Fill          | Net           | Cut Factor | Fill Factor | Cut (adjusted) | Fill (adjusted) | Net (adjusted) | Description |
|-------|-------------------------|--------------------|--------------|---------------|---------------|------------|-------------|----------------|-----------------|----------------|-------------|
| 1     | Base of 7-30-2010 Piles | GRN D9 2-2 001-1   | 0.00 Cu. Yd. | 58.64 Cu. Yd. | 58.64 Cu. Yd. | 1          | 1           | 0.00 Cu. Yd.   | 58.64 Cu. Yd.   | 58.64 Cu. Yd.  | Stock Pile  |
| 2     | Base of 7-30-2010 Piles | GRN D9 2-2 001-2   | 0.00 Cu. Yd. | 53.31 Cu. Yd. | 53.31 Cu. Yd. | 1          | 1           | 0.00 Cu. Yd.   | 53.31 Cu. Yd.   | 53.31 Cu. Yd.  | Stock Pile  |
| 3     | Base of 7-30-2010 Piles | GRN D9 2-2 002     | 0.00 Cu. Yd. | 39.92 Cu. Yd. | 39.92 Cu. Yd. | 1          | 1           | 0.00 Cu. Yd.   | 39.92 Cu. Yd.   | 39.92 Cu. Yd.  | Stock Pile  |
| 4     | Base of 7-30-2010 Piles | GRN D9 2-9 001-1   | 0.00 Cu. Yd. | 55.05 Cu. Yd. | 55.05 Cu. Yd. | 1          | 1           | 0.00 Cu. Yd.   | 55.05 Cu. Yd.   | 55.05 Cu. Yd.  | Stock Pile  |
| 5     | Base of 7-30-2010 Piles | GRN D9 2-9 001-2   | 0.00 Cu. Yd. | 57.10 Cu. Yd. | 57.10 Cu. Yd. | 1          | 1           | 0.00 Cu. Yd.   | 57.10 Cu. Yd.   | 57.10 Cu. Yd.  | Stock Pile  |
| 6     | Base of 7-30-2010 Piles | GRN D9 2-9 002-1   | 0.04 Cu. Yd. | 47.98 Cu. Yd. | 47.94 Cu. Yd. | 1          | 1           | 0.04 Cu. Yd.   | 47.98 Cu. Yd.   | 47.94 Cu. Yd.  | Stock Pile  |
| 7     | Base of 7-30-2010 Piles | GRN D9 2-9 002-2   | 0.00 Cu. Yd. | 17.21 Cu. Yd. | 17.21 Cu. Yd. | 1          | 1           | 0.00 Cu. Yd.   | 17.21 Cu. Yd.   | 17.21 Cu. Yd.  | Stock Pile  |

8/9/2020

Index

| Index | Base Surface           | Comparison Surface | Cut          | Fill          | Net                 | Cut Factor | Fill Factor | Cut (adjusted) | Fill (adjusted) | Net (adjusted)      | Description |
|-------|------------------------|--------------------|--------------|---------------|---------------------|------------|-------------|----------------|-----------------|---------------------|-------------|
| 1     | Base of 8-3-2010 Piles | GRN D9 2.4 001-1   | 0.00 Cu. Yd. | 53.27 Cu. Yd. | 53.27 Cu. Yd. <FHD> | 1          | 1           | 1.00 Cu. Yd.   | 53.27 Cu. Yd.   | 53.27 Cu. Yd. <FHD> | Stock File  |
| 2     | Base of 8-3-2010 Piles | GRN D9 2.4 001-2   | 0.00 Cu. Yd. | 55.90 Cu. Yd. | 55.90 Cu. Yd. <FHD> | 1          | 1           | 1.00 Cu. Yd.   | 55.90 Cu. Yd.   | 55.90 Cu. Yd. <FHD> | Stock File  |
| 3     | Base of 8-3-2010 Piles | GRN D9 2.7 001-1   | 0.00 Cu. Yd. | 47.61 Cu. Yd. | 47.61 Cu. Yd. <FHD> | 1          | 1           | 1.00 Cu. Yd.   | 47.61 Cu. Yd.   | 47.61 Cu. Yd. <FHD> | Stock File  |
| 4     | Base of 8-3-2010 Piles | GRN D9 2.7 001-2   | 0.00 Cu. Yd. | 54.90 Cu. Yd. | 54.90 Cu. Yd. <FHD> | 1          | 1           | 1.00 Cu. Yd.   | 54.90 Cu. Yd.   | 54.90 Cu. Yd. <FHD> | Stock File  |
| 5     | Base of 8-3-2010 Piles | GRN D9 2.7 002-1   | 0.00 Cu. Yd. | 51.66 Cu. Yd. | 51.66 Cu. Yd. <FHD> | 1          | 1           | 1.00 Cu. Yd.   | 51.66 Cu. Yd.   | 51.66 Cu. Yd. <FHD> | Stock File  |
| 6     | Base of 8-3-2010 Piles | GRN D9 2.7 002-2   | 0.00 Cu. Yd. | 62.27 Cu. Yd. | 62.27 Cu. Yd. <FHD> | 1          | 1           | 1.00 Cu. Yd.   | 62.27 Cu. Yd.   | 62.27 Cu. Yd. <FHD> | Stock File  |
| 7     | Base of 8-3-2010 Piles | GRN D9 2.7 003     | 0.00 Cu. Yd. | 35.94 Cu. Yd. | 35.94 Cu. Yd. <FHD> | 1          | 1           | 1.00 Cu. Yd.   | 35.94 Cu. Yd.   | 35.94 Cu. Yd. <FHD> | Stock File  |

8/5/2020

Index

| Index | Base Surface | Comparison Surface  | Cut            | Fill         | Net                  | Cut Factor | Fill Factor | Cut (adjusted)  | Fill (adjusted) | Net (adjusted)       | Description |
|-------|--------------|---------------------|----------------|--------------|----------------------|------------|-------------|-----------------|-----------------|----------------------|-------------|
| 1     | 19.15' BGS   | GRN D9 2.1 20FT BGS | 338.74 Cu. Yd. | 0.00 Cu. Yd. | 338.74 Cu. Yd. <CUP> | 1          | 1           | 1.33874 Cu. Yd. | 0.00 Cu. Yd.    | 338.74 Cu. Yd. <CUP> | Direct Load |
| 2     | 19.15' BGS   | GRN D9 2.1 20FT BGS | 455.95 Cu. Yd. | 0.00 Cu. Yd. | 455.95 Cu. Yd. <CUP> | 1          | 1           | 1.45595 Cu. Yd. | 0.00 Cu. Yd.    | 455.95 Cu. Yd. <CUP> | Direct Load |
| 3     | 19.15' BGS   | GRN D9 2.1 20FT BGS | 460.98 Cu. Yd. | 0.00 Cu. Yd. | 460.98 Cu. Yd. <CUP> | 1          | 1           | 1.46098 Cu. Yd. | 0.00 Cu. Yd.    | 460.98 Cu. Yd. <CUP> | Direct Load |
| 4     | 19.15' BGS   | GRN D9 2.4 20FT BGS | 284.89 Cu. Yd. | 0.00 Cu. Yd. | 284.89 Cu. Yd. <CUP> | 1          | 1           | 1.28489 Cu. Yd. | 0.00 Cu. Yd.    | 284.89 Cu. Yd. <CUP> | Direct Load |
| 5     | 19.15' BGS   | GRN D9 2.4 20FT BGS | 229.88 Cu. Yd. | 0.00 Cu. Yd. | 229.88 Cu. Yd. <CUP> | 1          | 1           | 1.22988 Cu. Yd. | 0.00 Cu. Yd.    | 229.88 Cu. Yd. <CUP> | Direct Load |

Index

| Index | Base Surface          | Comparison Surface  | Cut             | Fill         | Net                   | Cut Factor | Fill Factor | Cut (adjusted)   | Fill (adjusted) | Net (adjusted)        | Description                           |
|-------|-----------------------|---------------------|-----------------|--------------|-----------------------|------------|-------------|------------------|-----------------|-----------------------|---------------------------------------|
| 1     | 1.15' BGS with Slopes | 20' BGS With Slopes | 3602.33 Cu. Yd. | 6.51 Cu. Yd. | 3495.81 Cu. Yd. <CUP> | 1          | 1           | 1.350233 Cu. Yd. | 6.51 Cu. Yd.    | 3495.81 Cu. Yd. <CUP> | Layer 2 Volume With Slope             |
| 2     | 1.15' BGS with Slopes | 20' BGS With Slopes | 2697.63 Cu. Yd. | 0.00 Cu. Yd. | 2697.63 Cu. Yd. <CUP> | 1          | 1           | 1.269763 Cu. Yd. | 0.00 Cu. Yd.    | 2697.63 Cu. Yd. <CUP> | Layer 2 Volume NO Slope               |
|       |                       |                     |                 |              |                       |            |             | 1.798180 Cu. Yd. |                 | 798.180 Cu. Yd.       | Pot. Imp. Matrl. (Informational Only) |

8/10/2020

Index

| Index | Base Surface          | Comparison Surface | Cut          | Fill          | Net                 | Cut Factor | Fill Factor | Cut (adjusted) | Fill (adjusted) | Net (adjusted)      | Description |
|-------|-----------------------|--------------------|--------------|---------------|---------------------|------------|-------------|----------------|-----------------|---------------------|-------------|
| 1     | 8-10-2010 Piles/abase | GRN D9 2.4 002-1   | 0.00 Cu. Yd. | 79.93 Cu. Yd. | 79.93 Cu. Yd. <FHD> | 1          | 1           | 1.00 Cu. Yd.   | 79.93 Cu. Yd.   | 79.93 Cu. Yd. <FHD> | Stock File  |
| 2     | 8-10-2010 Piles/abase | GRN D9 2.4 002-2   | 0.00 Cu. Yd. | 80.07 Cu. Yd. | 80.07 Cu. Yd. <FHD> | 1          | 1           | 1.00 Cu. Yd.   | 80.07 Cu. Yd.   | 80.07 Cu. Yd. <FHD> | Stock File  |
| 3     | 8-10-2010 Piles/abase | GRN D9 2.4 002-1   | 0.00 Cu. Yd. | 79.93 Cu. Yd. | 79.93 Cu. Yd. <FHD> | 1          | 1           | 1.00 Cu. Yd.   | 79.93 Cu. Yd.   | 79.93 Cu. Yd. <FHD> | Stock File  |
| 4     | 8-10-2010 Piles/abase | GRN D9 2.4 002-2   | 0.00 Cu. Yd. | 75.90 Cu. Yd. | 75.90 Cu. Yd. <FHD> | 1          | 1           | 1.00 Cu. Yd.   | 75.90 Cu. Yd.   | 75.90 Cu. Yd. <FHD> | Stock File  |
| 5     | 8-10-2010 Piles/abase | GRN D9 3.7 001-1   | 0.00 Cu. Yd. | 69.84 Cu. Yd. | 69.84 Cu. Yd. <FHD> | 1          | 1           | 1.00 Cu. Yd.   | 69.84 Cu. Yd.   | 69.84 Cu. Yd. <FHD> | Stock File  |

8/11/2020

Index

| Index | Base Surface             | Comparison Surface | Cut          | Fill          | Net                 | Cut Factor | Fill Factor | Cut (adjusted) | Fill (adjusted) | Net (adjusted)      | Description          |
|-------|--------------------------|--------------------|--------------|---------------|---------------------|------------|-------------|----------------|-----------------|---------------------|----------------------|
| 1     | Base of GRN D9 3-1 001-2 | GRN D9 3-1 001-2   | 0.00 Cu. Yd. | 45.98 Cu. Yd. | 45.98 Cu. Yd. <FHD> | 1          | 1           | 1.00 Cu. Yd.   | 45.98 Cu. Yd.   | 45.98 Cu. Yd. <FHD> | Stock File           |
| 2     | Base of GRN D9 3-1 002-2 | GRN D9 3-1 002-2   | 0.00 Cu. Yd. | 16.13 Cu. Yd. | 16.13 Cu. Yd. <FHD> | 1          | 1           | 1.00 Cu. Yd.   | 16.13 Cu. Yd.   | 16.13 Cu. Yd. <FHD> | Stock File (RESHOOT) |

8/12/2020

Index

| Index | Base Surface            | Comparison Surface | Cut          | Fill          | Net                 | Cut Factor | Fill Factor | Cut (adjusted) | Fill (adjusted) | Net (adjusted)      | Description |
|-------|-------------------------|--------------------|--------------|---------------|---------------------|------------|-------------|----------------|-----------------|---------------------|-------------|
| 1     | Base of 8-12-2010 Piles | GRN D9 3-1 002-1   | 0.00 Cu. Yd. | 79.15 Cu. Yd. | 79.15 Cu. Yd. <FHD> | 1          | 1           | 1.00 Cu. Yd.   | 79.15 Cu. Yd.   | 79.15 Cu. Yd. <FHD> | Stock File  |
| 2     | Base of 8-12-2010 Piles | GRN D9 3-1 002-2   | 0.00 Cu. Yd. | 75.37 Cu. Yd. | 75.37 Cu. Yd. <FHD> | 1          | 1           | 1.00 Cu. Yd.   | 75.37 Cu. Yd.   | 75.37 Cu. Yd. <FHD> | Stock File  |
| 3     | Base of 8-12-2010 Piles | GRN D9 3-1 003-1   | 0.00 Cu. Yd. | 62.23 Cu. Yd. | 62.23 Cu. Yd. <FHD> | 1          | 1           | 1.00 Cu. Yd.   | 62.23 Cu. Yd.   | 62.23 Cu. Yd. <FHD> | Stock File  |
| 4     | Base of 8-12-2010 Piles | GRN D9 3-1 003-2   | 0.00 Cu. Yd. | 64.88 Cu. Yd. | 64.88 Cu. Yd. <FHD> | 1          | 1           | 1.00 Cu. Yd.   | 64.88 Cu. Yd.   | 64.88 Cu. Yd. <FHD> | Stock File  |
| 5     | Base of 8-12-2010 Piles | GRN D9 3-7 001-1   | 0.00 Cu. Yd. | 70.19 Cu. Yd. | 70.19 Cu. Yd. <FHD> | 1          | 1           | 1.00 Cu. Yd.   | 70.19 Cu. Yd.   | 70.19 Cu. Yd. <FHD> | Stock File  |
| 6     | Base of 8-12-2010 Piles | GRN D9 3-7 001-2   | 0.00 Cu. Yd. | 70.04 Cu. Yd. | 70.04 Cu. Yd. <FHD> | 1          | 1           | 1.00 Cu. Yd.   | 70.04 Cu. Yd.   | 70.04 Cu. Yd. <FHD> | Stock File  |
| 7     | Base of 8-12-2010 Piles | GRN D9 3-7 002-1   | 0.00 Cu. Yd. | 72.86 Cu. Yd. | 72.86 Cu. Yd. <FHD> | 1          | 1           | 1.00 Cu. Yd.   | 72.86 Cu. Yd.   | 72.86 Cu. Yd. <FHD> | Stock File  |
| 8     | Base of 8-12-2010 Piles | GRN D9 3-7 002-2   | 0.00 Cu. Yd. | 61.78 Cu. Yd. | 61.78 Cu. Yd. <FHD> | 1          | 1           | 1.00 Cu. Yd.   | 61.78 Cu. Yd.   | 61.78 Cu. Yd. <FHD> | Stock File  |

8/13/2020

Index

| Index | Base Surface            | Comparison Surface | Cut          | Fill          | Net                 | Cut Factor | Fill Factor | Cut (adjusted) | Fill (adjusted) | Net (adjusted)      | Description |
|-------|-------------------------|--------------------|--------------|---------------|---------------------|------------|-------------|----------------|-----------------|---------------------|-------------|
| 1     | Base of 8-13-2010 Piles | GRN D9 3-5 001-1   | 0.00 Cu. Yd. | 69.35 Cu. Yd. | 69.35 Cu. Yd. <FHD> | 1          | 1           | 1.00 Cu. Yd.   | 69.35 Cu. Yd.   | 69.35 Cu. Yd. <FHD> | Stock File  |
| 2     | Base of 8-13-2010 Piles | GRN D9 3-5 001-2   | 0.00 Cu. Yd. | 75.37 Cu. Yd. | 75.37 Cu. Yd. <FHD> | 1          | 1           | 1.00 Cu. Yd.   | 75.37 Cu. Yd.   | 75.37 Cu. Yd. <FHD> | Stock File  |
| 3     | Base of 8-13-2010 Piles | GRN D9 3-5 002-1   | 0.00 Cu. Yd. | 78.91 Cu. Yd. | 78.91 Cu. Yd. <FHD> | 1          | 1           | 1.00 Cu. Yd.   | 78.91 Cu. Yd.   | 78.91 Cu. Yd. <FHD> | Stock File  |
| 4     | Base of 8-13-2010 Piles | GRN D9 3-5 002-2   | 0.00 Cu. Yd. | 79.15 Cu. Yd. | 79.15 Cu. Yd. <FHD> | 1          | 1           | 1.00 Cu. Yd.   | 79.15 Cu. Yd.   | 79.15 Cu. Yd. <FHD> | Stock File  |
| 5     | Base of 8-13-2010 Piles | GRN D9 3-5 003-1   | 0.00 Cu. Yd. | 73.20 Cu. Yd. | 73.20 Cu. Yd. <FHD> | 1          | 1           | 1.00 Cu. Yd.   | 73.20 Cu. Yd.   | 73.20 Cu. Yd. <FHD> | Stock File  |
| 6     | Base of 8-13-2010 Piles | GRN D9 3-5 003-2   | 0.00 Cu. Yd. | 66.98 Cu. Yd. | 66.98 Cu. Yd. <FHD> | 1          | 1           | 1.00 Cu. Yd.   | 66.98 Cu. Yd.   | 66.98 Cu. Yd. <FHD> | Stock File  |
| 7     | Base of 8-13-2010 Piles | GRN D9 3-5 004     | 0.00 Cu. Yd. | 72.44 Cu. Yd. | 72.44 Cu. Yd. <FHD> | 1          | 1           | 1.00 Cu. Yd.   | 72.44 Cu. Yd.   | 72.44 Cu. Yd. <FHD> | Stock File  |

8/18/2010

| Index | Base Surface            | Comparison Surface | Cut          | Fill          | Net           | Cut Factor | Fill Factor    | Cut (adjusted) | Fill (adjusted) | Net (adjusted) | Description |
|-------|-------------------------|--------------------|--------------|---------------|---------------|------------|----------------|----------------|-----------------|----------------|-------------|
| 1     | Base of 8.18-2010 Piles | GRN D9.3-6.003-1   | 0.00 Cu. Yd. | 54.98 Cu. Yd. | 54.98 Cu. Yd. | 1          | 1.0000 Cu. Yd. | 1.0000 Cu. Yd. | 54.98 Cu. Yd.   | 54.98 Cu. Yd.  | Stock Pile  |
| 2     | Base of 8.18-2010 Piles | GRN D9.3-6.004-2   | 0.00 Cu. Yd. | 58.10 Cu. Yd. | 58.10 Cu. Yd. | 1          | 1.0000 Cu. Yd. | 1.0000 Cu. Yd. | 58.10 Cu. Yd.   | 58.10 Cu. Yd.  | Stock Pile  |
| 3     | Base of 8.18-2010 Piles | GRN D9.3-6.002-1   | 0.00 Cu. Yd. | 52.75 Cu. Yd. | 52.75 Cu. Yd. | 1          | 1.0000 Cu. Yd. | 1.0000 Cu. Yd. | 52.75 Cu. Yd.   | 52.75 Cu. Yd.  | Stock Pile  |
| 4     | Base of 8.18-2010 Piles | GRN D9.3-6.003-2   | 0.00 Cu. Yd. | 51.52 Cu. Yd. | 51.52 Cu. Yd. | 1          | 1.0000 Cu. Yd. | 1.0000 Cu. Yd. | 51.52 Cu. Yd.   | 51.52 Cu. Yd.  | Stock Pile  |
| 5     | Base of 8.18-2010 Piles | GRN D9.3-6.003-1   | 0.00 Cu. Yd. | 48.22 Cu. Yd. | 48.22 Cu. Yd. | 1          | 1.0000 Cu. Yd. | 1.0000 Cu. Yd. | 48.22 Cu. Yd.   | 48.22 Cu. Yd.  | Stock Pile  |
| 6     | Base of 8.18-2010 Piles | GRN D9.3-6.003-2   | 0.00 Cu. Yd. | 47.15 Cu. Yd. | 47.15 Cu. Yd. | 1          | 1.0000 Cu. Yd. | 1.0000 Cu. Yd. | 47.15 Cu. Yd.   | 47.15 Cu. Yd.  | Stock Pile  |

8/18/2010

| Index | Base Surface      | Comparison Surface | Cut          | Fill          | Net           | Cut Factor | Fill Factor    | Cut (adjusted) | Fill (adjusted) | Net (adjusted) | Description |
|-------|-------------------|--------------------|--------------|---------------|---------------|------------|----------------|----------------|-----------------|----------------|-------------|
| 1     | Base of 8.18-2010 | GRN D9.3-3.001-1   | 0.00 Cu. Yd. | 55.68 Cu. Yd. | 55.68 Cu. Yd. | 1          | 1.0000 Cu. Yd. | 1.0000 Cu. Yd. | 55.68 Cu. Yd.   | 55.68 Cu. Yd.  | Stock Pile  |
| 2     | Base of 8.18-2010 | GRN D9.3-3.001-2   | 0.04 Cu. Yd. | 45.06 Cu. Yd. | 45.06 Cu. Yd. | 1          | 1.0000 Cu. Yd. | 1.0000 Cu. Yd. | 45.06 Cu. Yd.   | 45.06 Cu. Yd.  | Stock Pile  |
| 3     | Base of 8.18-2010 | GRN D9.3-3.002-1   | 0.00 Cu. Yd. | 44.70 Cu. Yd. | 44.70 Cu. Yd. | 1          | 1.0000 Cu. Yd. | 1.0000 Cu. Yd. | 44.70 Cu. Yd.   | 44.70 Cu. Yd.  | Stock Pile  |
| 4     | Base of 8.18-2010 | GRN D9.3-3.002-2   | 0.00 Cu. Yd. | 45.15 Cu. Yd. | 45.15 Cu. Yd. | 1          | 1.0000 Cu. Yd. | 1.0000 Cu. Yd. | 45.15 Cu. Yd.   | 45.15 Cu. Yd.  | Stock Pile  |
| 5     | Base of 8.18-2010 | GRN D9.3-3.003-1   | 0.00 Cu. Yd. | 45.48 Cu. Yd. | 45.48 Cu. Yd. | 1          | 1.0000 Cu. Yd. | 1.0000 Cu. Yd. | 45.48 Cu. Yd.   | 45.48 Cu. Yd.  | Stock Pile  |
| 6     | Base of 8.18-2010 | GRN D9.3-3.003-2   | 0.00 Cu. Yd. | 54.42 Cu. Yd. | 54.42 Cu. Yd. | 1          | 1.0000 Cu. Yd. | 1.0000 Cu. Yd. | 54.42 Cu. Yd.   | 54.42 Cu. Yd.  | Stock Pile  |

8/18/2010

| Index | Base Surface                          | Comparison Surface | Cut             | Fill         | Net             | Cut Factor | Fill Factor    | Cut (adjusted) | Fill (adjusted) | Net (adjusted)  | Description                              |
|-------|---------------------------------------|--------------------|-----------------|--------------|-----------------|------------|----------------|----------------|-----------------|-----------------|--|
| 1     | 201 RICE RT                           | GRN D9.3-2.001 RDS | 152.98 Cu. Yd.  | 0.00 Cu. Yd. | 152.98 Cu. Yd.  | 1          | 1.0000 Cu. Yd. | 1.0000 Cu. Yd. | 0.00 Cu. Yd.    | 152.98 Cu. Yd.  | Direct Load                              |
| 2     | EG-GRN AS-Build-5.14-2010-EG-5.1-2010 | Ramp Section       | 1010.46 Cu. Yd. | 0.00 Cu. Yd. | 1010.46 Cu. Yd. | 1          | 1.0000 Cu. Yd. | 1.0000 Cu. Yd. | 0.00 Cu. Yd.    | 1010.46 Cu. Yd. | Potentially Impacted Final Ramp Material |

8/18/2010

| Index | Base Surface              | Comparison Surface | Cut          | Fill          | Net           | Cut Factor | Fill Factor    | Cut (adjusted) | Fill (adjusted) | Net (adjusted) | Description |
|-------|---------------------------|--------------------|--------------|---------------|---------------|------------|----------------|----------------|-----------------|----------------|-------------|
| 1     | Base of 8.26-2010-Piles-3 | GRN D9.3-3.004-1   | 0.00 Cu. Yd. | 59.52 Cu. Yd. | 59.52 Cu. Yd. | 1          | 1.0000 Cu. Yd. | 1.0000 Cu. Yd. | 59.52 Cu. Yd.   | 59.52 Cu. Yd.  | Stock Pile  |
| 2     | Base of 8.26-2010-Piles-3 | GRN D9.3-3.004-2   | 0.00 Cu. Yd. | 58.55 Cu. Yd. | 58.55 Cu. Yd. | 1          | 1.0000 Cu. Yd. | 1.0000 Cu. Yd. | 58.55 Cu. Yd.   | 58.55 Cu. Yd.  | Stock Pile  |
| 3     | Base of 8.26-2010-Piles-3 | GRN D9.3-3.005-1   | 0.00 Cu. Yd. | 46.00 Cu. Yd. | 46.00 Cu. Yd. | 1          | 1.0000 Cu. Yd. | 1.0000 Cu. Yd. | 46.00 Cu. Yd.   | 46.00 Cu. Yd.  | Stock Pile  |
| 4     | Base of 8.26-2010-Piles-3 | GRN D9.3-3.005-2   | 0.00 Cu. Yd. | 31.32 Cu. Yd. | 31.32 Cu. Yd. | 1          | 1.0000 Cu. Yd. | 1.0000 Cu. Yd. | 31.32 Cu. Yd.   | 31.32 Cu. Yd.  | Stock Pile  |
| 5     | Base of 8.26-2010-Piles-4 | GRN D9.3-4.001-1   | 0.00 Cu. Yd. | 46.88 Cu. Yd. | 46.88 Cu. Yd. | 1          | 1.0000 Cu. Yd. | 1.0000 Cu. Yd. | 46.88 Cu. Yd.   | 46.88 Cu. Yd.  | Stock Pile  |
| 6     | Base of 8.26-2010-Piles-4 | GRN D9.3-4.001-2   | 0.00 Cu. Yd. | 48.18 Cu. Yd. | 48.18 Cu. Yd. | 1          | 1.0000 Cu. Yd. | 1.0000 Cu. Yd. | 48.18 Cu. Yd.   | 48.18 Cu. Yd.  | Stock Pile  |
| 7     | Base of 8.26-2010-Piles-4 | GRN D9.3-4.002-1   | 0.00 Cu. Yd. | 54.25 Cu. Yd. | 54.25 Cu. Yd. | 1          | 1.0000 Cu. Yd. | 1.0000 Cu. Yd. | 54.25 Cu. Yd.   | 54.25 Cu. Yd.  | Stock Pile  |
| 8     | Base of 8.26-2010-Piles-4 | GRN D9.3-4.002-2   | 0.00 Cu. Yd. | 54.92 Cu. Yd. | 54.92 Cu. Yd. | 1          | 1.0000 Cu. Yd. | 1.0000 Cu. Yd. | 54.92 Cu. Yd.   | 54.92 Cu. Yd.  | Stock Pile  |
| 9     | Base of 8.26-2010-Piles-4 | GRN D9.3-4.003-1   | 0.00 Cu. Yd. | 49.40 Cu. Yd. | 49.40 Cu. Yd. | 1          | 1.0000 Cu. Yd. | 1.0000 Cu. Yd. | 49.40 Cu. Yd.   | 49.40 Cu. Yd.  | Stock Pile  |
| 10    | Base of 8.26-2010-Piles-4 | GRN D9.3-4.003-2   | 0.00 Cu. Yd. | 59.17 Cu. Yd. | 59.17 Cu. Yd. | 1          | 1.0000 Cu. Yd. | 1.0000 Cu. Yd. | 59.17 Cu. Yd.   | 59.17 Cu. Yd.  | Stock Pile  |
| 11    | Base of 8.26-2010-Piles-4 | GRN D9.3-4.004     | 0.00 Cu. Yd. | 78.61 Cu. Yd. | 78.61 Cu. Yd. | 1          | 1.0000 Cu. Yd. | 1.0000 Cu. Yd. | 78.61 Cu. Yd.   | 78.61 Cu. Yd.  | Stock Pile  |

8/11/2010 REVISED

| Index | Base Surface                                | Comparison Surface | Cut          | Fill          | Net           | Cut Factor | Fill Factor    | Cut (adjusted) | Fill (adjusted) | Net (adjusted) | Description          |
|-------|---|--------------------|--------------|---------------|---------------|------------|----------------|----------------|-----------------|----------------|----------------------|
| 1     | Base of GRN D9.3-9.002-2 Minus Center Shots | GRN D9.3-9.002-2   | 0.00 Cu. Yd. | 23.16 Cu. Yd. | 23.16 Cu. Yd. | 1          | 1.0000 Cu. Yd. | 1.0000 Cu. Yd. | 23.16 Cu. Yd.   | 23.16 Cu. Yd.  | Stock Pile (Revised) |
| 2     | Base of GRN D9.3-1.001-2 Minus Center Shots | GRN D9.3-1.001-2   | 0.00 Cu. Yd. | 61.86 Cu. Yd. | 61.86 Cu. Yd. | 1          | 1.0000 Cu. Yd. | 1.0000 Cu. Yd. | 61.86 Cu. Yd.   | 61.86 Cu. Yd.  | Stock Pile (Revised) |

# Appendix D

Appendix D

S9P-0767

3M\_MN00716979

2318.0108

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**APPENDIX D**  
**SAMPLING RESULTS**

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3M\_MN00716980

2318.0109

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**SOIL BORING SAMPLE RESULTS**

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3M\_MN00716981

2318.0110

























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**EX SITU SAMPLE RESULTS**

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3M\_MN00716994

2318.0123



**Table 1: Soil Block D9 2-1 TCLP Metals Sampling Results  
Cottage Grove Site**

| Stockpile Manifest ID:          | N/A                          | N/A                           |
|---------------------------------|------------------------------|-------------------------------|
| Sample Type:                    | In Situ Composite            | In Situ Composite - Duplicate |
| Block ID:                       | D9 2-1                       | D9 2-1                        |
| Sample ID:                      | CGMN-ESC-D9201TCLPA-0-100713 | CGMN-ESC-D9201TCLPA-DB-100713 |
| Laboratory ID:                  | 10133367001                  | 10133367002                   |
| Sample Date & Time:             | 7/13/2010 8:36               | 7/13/2010 8:36                |
| <b>Metals, TCLP (mg/L, ppm)</b> |                              |                               |
| Arsenic, TCLP                   | < 0.050                      | < 0.050                       |
| Barium, TCLP                    | 0.50                         | 0.40                          |
| Cadmium, TCLP                   | < 0.0050                     | < 0.0050                      |
| Chromium, TCLP                  | < 0.050                      | < 0.050                       |
| Lead, TCLP                      | < 0.015                      | < 0.015                       |
| Selenium, TCLP                  | < 0.075                      | < 0.075                       |
| Silver, TCLP                    | < 0.050                      | < 0.050                       |
| Mercury, TCLP                   | < 0.00080                    | < 0.00080                     |

**Table Notes:**

N/A = Sample was collected in situ prior to excavation of soil block for profiling. There is no manifest ID associated with sample.

**Data Notes:**

Data tabulated by D. Armstrong of WESTON on 07/19/2010.

Data tabulation QA'd by J. Savage of WESTON on 07/19/2010.

Analytical data provided in Pace Analytical Services data packages #10133367.



**Table 2: Soil Block D9 1-3 Stockpile Sampling Results**  
Cottage Grove Site

| Stockpile Manifest ID:                        | Stockpile 001'              |                  | Stockpile 002'              |                  |
|---|-----------------------------|------------------|-----------------------------|------------------|
|   | D9 1-3 001-1 & D9 1-3 001-2 | Composite D9 1-3 | D9 1-3 002-1 & D9 1-3 002-2 | Composite D9 1-3 |
| Sample Type:                                  | Composite D9 1-3            |                  | Composite D9 1-3            |                  |
| Block ID:                                     | D9 1-3                      |                  | D9 1-3                      |                  |
| Sample ID:                                    | CGMN-ESC-D9103001A-0-100711 |                  | CGMN-ESC-D9103002A-0-100711 |                  |
| Laboratory ID:                                | 10133694001                 |                  | 10133694002                 |                  |
| Sample Date & Time:                           | 07/16/2010 11:45            |                  | 07/16/2010 11:54            |                  |
| <b>Polychlorinated Biphenyls (mg/kg, ppm)</b> |                             |                  |                             |                  |
| PCB-1016 (Aroclor 1016)                       | < 0.0411                    | < 0.0388         | < 0.0397                    | < 0.0388         |
| PCB-1221 (Aroclor 1221)                       | < 0.0411                    | < 0.0388         | < 0.0397                    | < 0.0388         |
| PCB-1232 (Aroclor 1232)                       | < 0.0411                    | < 0.0388         | < 0.0397                    | < 0.0388         |
| PCB-1242 (Aroclor 1242)                       | < 0.0411                    | < 0.0388         | < 0.0397                    | < 0.0388         |
| PCB-1248 (Aroclor 1248)                       | 9.72                        | 0.538            | 0.538                       | 0.463            |
| PCB-1254 (Aroclor 1254)                       | 3.82                        | 0.426            | 0.426                       | 0.463            |
| PCB-1260 (Aroclor 1260)                       | 1.15                        | 0.511            | 0.511                       | 1.56             |
| PCB-1262 (Aroclor 1262)                       | < 0.0411                    | < 0.0388         | < 0.0397                    | < 0.0388         |
| PCB-1268 (Aroclor 1268)                       | < 0.0411                    | < 0.0388         | < 0.0397                    | < 0.0388         |
| Total PCB                                     | 14.7                        | 1.48             | 1.48                        | 2.02             |
| <b>Metals, TCLP (mg/L, ppm)</b>               |                             |                  |                             |                  |
| Lead, TCLP                                    | < 0.015                     | < 0.015          | < 0.015                     | < 0.015          |
| Percent Moisture (%)                          | 19.6                        | 16.8             | 16.8                        | 15.0             |

**Table Notes:**

<sup>1</sup> Stockpile staged in two separate sub-piles.

**Data Notes:**

Data tabulated by D. Armstrong of WESTON on 07/22/2010.

Data tabulation QA'd by G. Wilmer of WESTON on 07/22/2010.

Analytical data provided in Pace Analytical Services data package #10133694.



Table 2: Soil Block D9 1-3 Stockpile Sampling Results  
Cottage Grove Site

| Stockpile Manifest ID:                        | Stockpile 003 <sup>1</sup>  | Stockpile 004               |
|---|-----------------------------|-----------------------------|
| D9 1-3 003-1 & D9 1-3 003-2                   | D9 1-3 003-2                | D9 1-3 004                  |
| Sample Type:                                  | Composite                   | Composite                   |
| Block ID:                                     | D9 1-3                      | D9 1-3                      |
| Sample ID:                                    | CGMN-ESC-D9103003A-0-100714 | CGMN-ESC-D9103004A-0-100714 |
| Laboratory ID:                                | 10133694004                 | 10133694005                 |
| Sample Date & Time:                           | 07/16/2010 11:52            | 07/16/2010 11:45            |
| <b>Polychlorinated Biphenyls (mg/kg, ppm)</b> |                             |                             |
| PCB-1016 (Aroclor 1016)                       | < 0.0367                    | < 0.0368                    |
| PCB-1221 (Aroclor 1221)                       | < 0.0367                    | < 0.0368                    |
| PCB-1232 (Aroclor 1232)                       | < 0.0367                    | < 0.0368                    |
| PCB-1242 (Aroclor 1242)                       | < 0.0367                    | < 0.0368                    |
| PCB-1248 (Aroclor 1248)                       | < 0.0367                    | < 0.0368                    |
| PCB-1254 (Aroclor 1254)                       | 0.199                       | 0.197                       |
| PCB-1260 (Aroclor 1260)                       | 0.165                       | 0.0805                      |
| PCB-1262 (Aroclor 1262)                       | < 0.0367                    | < 0.0368                    |
| PCB-1268 (Aroclor 1268)                       | < 0.0367                    | < 0.0368                    |
| Total PCB                                     | 0.364                       | 0.278                       |
| <b>Metals, TCLP (mg/L, ppm)</b>               |                             |                             |
| Lead, TCLP                                    | < 0.015                     | < 0.015                     |
| Percent Moisture (%)                          | 10.4                        | 10.4                        |

**Table Notes:**

<sup>1</sup> Stockpile staged in two separate sub-piles.

**Data Notes:**

Data tabulated by D. Armstrong of WESTON on 07/22/2010.  
Data tabulation QA'd by G. Wilmer of WESTON on 07/22/20  
Analytical data provided in Pace Analytical Services data pa



Table 3: Soil Block D9 2-2 Stockpile Sampling Results  
Cottage Grove Site

| Stockpile Manifest ID:                        |  | Stockpile 001 <sup>1</sup>  |  | Stockpile 002              |  |
|---|--|-----------------------------|--|----------------------------|--|
| Sample Type:                                  |  | D9 2-2 001-1 & D9 2-2 001-2 |  | D9 2-2 002                 |  |
| Block ID:                                     |  | Composite                   |  | Composite                  |  |
| Sample ID:                                    |  | D9 2-2                      |  | D9 2-2                     |  |
| Laboratory ID:                                |  | CGMN-ESC-D202001A-0-10072†  |  | CGMN-ESC-D202002A-0-10072† |  |
| Sample Date & Time:                           |  | 1013434201                  |  | 10134342002                |  |
|   |  | 07/26/2010 11:39            |  | 07/26/2010 11:33           |  |
| <b>Polychlorinated Biphenyls (mg/kg, ppm)</b> |  |                             |  |                            |  |
| PCB-1016 (Aroclor 1016)                       |  | < 0.0423                    |  | < 0.0393                   |  |
| PCB-1221 (Aroclor 1221)                       |  | < 0.0423                    |  | < 0.0393                   |  |
| PCB-1232 (Aroclor 1232)                       |  | < 0.0423                    |  | < 0.0393                   |  |
| PCB-1242 (Aroclor 1242)                       |  | < 0.0423                    |  | < 0.0393                   |  |
| PCB-1248 (Aroclor 1248)                       |  | < 0.0423                    |  | < 0.0393                   |  |
| PCB-1254 (Aroclor 1254)                       |  | 21.1                        |  | 6.06                       |  |
| PCB-1260 (Aroclor 1260)                       |  | 4.64                        |  | 1.22                       |  |
| PCB-1262 (Aroclor 1262)                       |  | < 0.0423                    |  | < 0.0393                   |  |
| PCB-1268 (Aroclor 1268)                       |  | < 0.0423                    |  | < 0.0393                   |  |
| Total PCB                                     |  | 25.7                        |  | 7.28                       |  |
| Percent Moisture (%)                          |  |                             |  |                            |  |
| Percent Moisture                              |  | 21.9                        |  | 16.3                       |  |

Table Notes:

<sup>1</sup> Stockpile staged in two separate sub-piles.

Data Notes:

Data tabulated by R. McLoughlin of WESTON on 07/30/2010.

Data tabulation C&I by J. Savage of WESTON on 07/30/2010.

Analytical data provided in Pace Analytical Services data package #10134342.



Table 4: Soil Block D9 2-7 Stockpiles 001 002 and Soil Block 2-9 Sampling Results  
Cottage Grove Site

| Stockpile Manifest ID:<br>Sample Type:<br>Block ID:<br>Sample ID:<br>Laboratory ID:<br>Sample Date & Time: | Stockpile 001 <sup>1</sup>                                     |   | Stockpile 002 <sup>1</sup>                                     |  |
|--|--|---|--|--|
|  | D9 2-7 001-1 & D9 2-7 001-2<br>Composite<br>D9 2-7             | D9 2-7 001-1 & D9 2-7 001-2<br>Composite - Duplicate<br>D9 2-7  | D9 2-7 002-1 & D9 2-7 002-2<br>Composite<br>D9 2-7             | D9 2-7 002-1 & D9 2-7 002-2<br>Composite<br>D9 2-7 |
|  | CGMN-ESC-D9207001A-0-100730<br>10134759003<br>07/30/2010 12:13 | CGMN-ESC-D9207001A-DB-100730<br>10134759004<br>07/30/2010 12:13 | CGMN-ESC-D9207002A-0-100730<br>10134759005<br>07/30/2010 12:21 |  |
| <b>Polychlorinated Biphenyls (mg/kg, ppm)</b>  |  |   |  |  |
| PCB-1016 (Aroclor 1016)  | < 0.711  | < 0.460   | < 0.460  | < 0.821  |
| PCB-1221 (Aroclor 1221)  | < 0.711  | < 0.460   | < 0.460  | < 0.821  |
| PCB-1232 (Aroclor 1232)  | < 0.711  | < 0.460   | < 0.460  | < 0.821  |
| PCB-1242 (Aroclor 1242)  | < 0.711  | < 0.460   | < 0.460  | < 0.821  |
| PCB-1248 (Aroclor 1248)  | < 0.711  | < 0.460   | < 0.460  | < 0.821  |
| PCB-1254 (Aroclor 1254)  | 38.5   | 29.8  | 17.5   | < 0.821  |
| PCB-1260 (Aroclor 1260)  | 7.76   | 6.54  | 3.91   | < 0.821  |
| PCB-1262 (Aroclor 1262)  | < 0.711  | < 0.460   | < 0.460  | < 0.821  |
| PCB-1268 (Aroclor 1268)  | < 0.711  | < 0.460   | < 0.460  | < 0.821  |
| Total PCB  | 46.3   | 36.3  | 21.4   |  |
| <b>Volatile Organic Compounds, TCLP (mg/L, ppm)</b>  |  |   |  |  |
| Benzene, TCLP  | 0.509  | 0.151   | 0.425  |  |
| pH (Standard Units)  |  |   |  |  |
| pH at 25 Degrees C   | 7.8  | 8.8   | 7.6  |  |
| Percent Moisture (%)   | 53.6   | 28.2  | 59.8   |  |

Table Notes:

<sup>1</sup> Stockpile staged in two separate sub-piles.  
— = Sample not analyzed for this constituent.

Data Notes:

Data tabulated by D. Armstrong of WESTON on 08/04/2010.  
Data tabulation QA'd by J. Savage of WESTON on 09/05/2010.  
Analytical data provided in Pace Analytical Services data package #10134759.



Table 4: Soil Block D9 2-7 Stockpiles 001 002 and Soil Block 2-9 Sampling Results  
Cottage Grove Site

| Stockpile Manifest ID:                              |                             | Stockpile 001 <sup>1</sup>  | Stockpile 002 <sup>1</sup> |
|---|-----------------------------|-----------------------------|----------------------------|
| Sample Type:  | D9 2-9 001-1 & D9 2-9 001-2 | D9 2-9 002-1 & D9 2-9 002-2 |                            |
| Block ID:   | D9 2-9                      | Composite                   | D9 2-9                     |
| Sample ID:  | CGMN-ESC-D9209001A-0-100730 | CGMN-ESC-D9209002A-0-100730 |                            |
| Laboratory ID:                                      | 10134759001                 | 10134759002                 |                            |
| Sample Date & Time:                                 | 07/30/2010 11:57            | 07/30/2010 12:04            |                            |
| <b>Polychlorinated Biphenyls (mg/kg, ppm)</b>       |                             |                             |                            |
| PCB-1016 (Aroclor 1016)                             | < 0.662                     | < 0.662                     | < 0.0353                   |
| PCB-1221 (Aroclor 1221)                             | < 0.662                     | < 0.662                     | < 0.0353                   |
| PCB-1232 (Aroclor 1232)                             | < 0.662                     | < 0.662                     | < 0.0353                   |
| PCB-1242 (Aroclor 1242)                             | < 0.662                     | < 0.662                     | < 0.0353                   |
| PCB-1248 (Aroclor 1248)                             | < 0.662                     | < 0.662                     | < 0.0353                   |
| PCB-1254 (Aroclor 1254)                             | 8.55                        | 0.277                       |                            |
| PCB-1260 (Aroclor 1260)                             | 3.55                        | 0.0752                      |                            |
| PCB-1262 (Aroclor 1262)                             | < 0.662                     | < 0.662                     | < 0.0353                   |
| PCB-1268 (Aroclor 1268)                             | < 0.662                     | < 0.662                     | < 0.0353                   |
| Total PCB   | 12.1                        | 0.352                       |                            |
| <b>Volatile Organic Compounds, TCLP (mg/L, ppm)</b> |                             |                             |                            |
| Benzene, TCLP                                       |                             |                             |                            |
| pH (Standard Units)                                 | 0.116                       |                             | < 0.05                     |
| pH at 25 Degrees C                                  |                             |                             |                            |
| Percent Moisture (%)                                |                             |                             |                            |
| Percent Moisture                                    | 50.2                        |                             | 6.5                        |

**Table Notes:**

<sup>1</sup> Stockpile staged in two separate sub-piles.

— = Sample not analyzed for this constituent.

**Data Notes:**

Data tabulated by D. Armstrong of WESTON on 06/04/2010.

Data tabulation QA'd by J. Savage of WESTON on 08/05/2010.

Analytical data provided in Pace Analytical Services data package 1



**Table 5: D9 Drummed Soil Cuttings Sampling Results  
Cottage Grove Site**

|   |                                  |
|---|----------------------------------|
| <b>Stockpile Manifest ID:</b>                       | <b>D9 Drums</b>                  |
| <b>Sample Type:</b>                                 | <b>Composite</b>                 |
| <b>Block ID:</b>                                    | N/A                              |
| <b>Sample ID:</b>                                   | <b>CGMN-SBC-D9DRUMS-0-100730</b> |
| <b>Laboratory ID:</b>                               | <b>10134759006</b>               |
| <b>Sample Date &amp; Time:</b>                      | <b>07/30/2010 11:45</b>          |
| <b>Polychlorinated Biphenyls (mg/kg, ppm)</b>       |                                  |
| PCB-1016 (Aroclor 1016)                             | < 0.468                          |
| PCB-1221 (Aroclor 1221)                             | < 0.468                          |
| PCB-1232 (Aroclor 1232)                             | < 0.468                          |
| PCB-1242 (Aroclor 1242)                             | < 0.468                          |
| PCB-1248 (Aroclor 1248)                             | 5.86                             |
| PCB-1254 (Aroclor 1254)                             | 4.26                             |
| PCB-1260 (Aroclor 1260)                             | 1.21                             |
| PCB-1262 (Aroclor 1262)                             | < 0.468                          |
| PCB-1268 (Aroclor 1268)                             | < 0.468                          |
| Total PCBs  | 11.3                             |
| <b>Volatile Organic Compounds, TCLP (mg/L, ppm)</b> |                                  |
| 1,1-Dichloroethene, TCLP                            | < 0.05                           |
| 1,2-Dichloroethane, TCLP                            | < 0.05                           |
| 1,4-Dichlorobenzene, TCLP                           | < 0.05                           |
| 2-Butanone (MEK), TCLP                              | < 0.2                            |
| Benzene, TCLP                                       | < 0.05                           |
| Carbon tetrachloride, TCLP                          | < 0.05                           |
| Chlorobenzene, TCLP                                 | < 0.05                           |
| Chloroform, TCLP                                    | < 0.05                           |
| Tetrachloroethene, TCLP                             | < 0.05                           |
| Trichloroethene, TCLP                               | < 0.05                           |
| Vinyl chloride, TCLP                                | < 0.02                           |
| <b>Percent Moisture (%)</b>                         |                                  |
| Percent Moisture                                    | 29.5                             |

**Data Notes:**

Data tabulated by D. Armstrong of WESTON on 08/04/2010.  
 Data tabulation QA'd by J. Savage of WESTON on 08/05/2010.  
 Analytical data provided in Pace Analytical Services data package #10134759.



Table 6: Soil Block D9 1-9 Stockpiles 001 and 002, Soil Block 2-4 Stockpile 001 and Soil Block 2-7 Stockpile 003, Sampling Results  
Cottage Grove Site

| Stockpile Manifest ID:<br>Sample Type:                           | Stockpile 001-1<br>D9 1-9 001-1<br>Composite                         | Stockpile 001-2<br>D9 1-9 001-2<br>Composite                         | Stockpile 001-2<br>D9 1-9 001-2<br>Composite Duplicate                | Stockpile 002-1<br>D9 1-9 002-1<br>Composite                         |
|--|--|--|---|--|
| Block ID:<br>Sample ID:<br>Laboratory ID:<br>Sample Date & Time: | D9 1-9<br>CGMN-ESC-D9109001D-0-100802<br>10134878001<br>8/2/10 12:01 | D9 1-9<br>CGMN-ESC-D9109001E-0-100802<br>10134878002<br>8/2/10 12:07 | D9 1-9<br>CGMN-ESC-D9109001E-DB-100802<br>10134878003<br>8/2/10 12:07 | D9 1-9<br>CGMN-ESC-D9109002D-0-100802<br>10134878004<br>8/2/10 12:12 |
| <b>Polychlorinated Biphenyls (mg/kg, ppm)</b>                    |  |  |   |  |
| PCB-1016 (Aroclor 1016)  |  |  |   |  |
| PCB-1221 (Aroclor 1221)  |  |  |   |  |
| PCB-1232 (Aroclor 1232)  |  |  |   |  |
| PCB-1242 (Aroclor 1242)  |  |  |   |  |
| PCB-1248 (Aroclor 1248)  |  |  |   |  |
| PCB-1254 (Aroclor 1254)  |  |  |   |  |
| PCB-1260 (Aroclor 1260)  |  |  |   |  |
| PCB-1262 (Aroclor 1262)  |  |  |   |  |
| PCB-1268 (Aroclor 1268)  |  |  |   |  |
| Total PCB  |  |  |   |  |
| <b>Volatle Organic Compounds, TCLP (mg/L, ppm)</b>               |  |  |   |  |
| 1,1-Dichloroethene, TCLP   |  |  |   | <0.0500  |
| 1,2-Dichloroethane, TCLP   |  |  |   | <0.0500  |
| 1,4-Dichlorobenzene, TCLP  |  |  |   | <0.0500  |
| 2-Butanone (MEK), TCLP   |  |  |   | <0.200   |
| Benzene, TCLP  |  |  |   | <0.0500  |
| Carbon tetrachloride, TCLP                                       |  |  |   | <0.0500  |
| Chlorobenzene, TCLP  |  |  |   | <0.0500  |
| Chloroform, TCLP   |  |  |   | <0.0500  |
| Tetrachloroethene, TCLP  |  |  |   | <0.0500  |
| Trichloroethene, TCLP  | 0.415  | 0.697  | 0.677   | 0.0718   |
| Vinyl chloride, TCLP   |  |  |   |  |
| pH (Standard Units)  |  |  |   |  |
| pH at 25 Degrees C   |  | 8.2  | 7.7   | 7.9  |
| Percent Moisture (%)   |  |  |   |  |
| Percent Moisture   |  |  |   |  |

Table Notes:

<sup>1</sup> Stockpile staged in two separate sub-piles.

Data Notes:

Date labulated by M Cairns of WESTON on 08/06/2010.

Date labulation QA'd by J. Savage of WESTON on 08/06/2010.

Analytical data provided in Pacos Analytical Services data package #10134878.

Z:\3m-cottage grove\01\_Construction\CCR\Appendices\Appendix D (Sample Results)\CGMN\_D9\_Excavator\_Soil\_Block\_Data - 1-9\_2-4\_001\_2-7\_002\_003



Table 6: Soil Block D9 1-9 Stockpiles 001 and 002, Soil Block 2-4 Stockpile 001 and Soil Block 2-7 Stockpile 003, Sampling Results  
Cottage Grove Site

| Stockpile Manifest ID:                              | Stockpile 002-2             | Stockpile 001 <sup>1</sup>            | Stockpile 003               |
|---|-----------------------------|---------------------------------------|-----------------------------|
| Sample Type:  | D9 1-9 Composite            | D9 2-4 001-1 & D9 2-4 001-2 Composite | D9 2-7 003 Composite        |
| Block ID:   | D9 1-9                      | D9 2-4                                | D9 2-7                      |
| Sample ID:  | CGMN-ESC-D9103002E-0-100802 | CGMN-ESC-D9704001A-0-100802           | CGMN-ESC-D9207003A-0-100802 |
| Laboratory ID:                                      | 10134878005                 | 10134878007                           | 10134878006                 |
| Sample Date & Time:                                 | 8/2/10 12:16                | 8/2/10 11:55                          | 8/2/10 11:46                |
| <b>Polychlorinated Biphenyls (mg/kg, ppm)</b>       |                             |                                       |                             |
| PCE-1016 (Aroclor 1016)                             |                             | <0.449                                | <1.05                       |
| PCE-1221 (Aroclor 1221)                             |                             | <0.449                                | <1.05                       |
| PCE-1232 (Aroclor 1232)                             |                             | <0.449                                | <1.05                       |
| PCE-1242 (Aroclor 1242)                             |                             | <0.449                                | <1.05                       |
| PCE-1248 (Aroclor 1248)                             |                             | <0.449                                | <1.05                       |
| PCE-1254 (Aroclor 1254)                             |                             | <0.449                                | <1.05                       |
| PCE-1260 (Aroclor 1260)                             |                             | 11.0                                  | 31.7                        |
| PCE-1262 (Aroclor 1262)                             |                             | 2.08                                  | 6.09                        |
| PCE-1268 (Aroclor 1268)                             |                             | <0.449                                | <1.05                       |
| Total PCB   |                             | <0.449                                | <1.05                       |
| <b>Volatile Organic Compounds, TCLP (mg/L, ppm)</b> |                             |                                       |                             |
| 1,1-Dichloroethene, TCLP                            |                             |                                       |                             |
| 1,2-Dichloroethane, TCLP                            |                             |                                       |                             |
| 1,4-Dichlorobenzene, TCLP                           |                             |                                       |                             |
| 2-Butanone (MEK), TCLP                              |                             |                                       |                             |
| Benzene, TCLP                                       |                             |                                       |                             |
| Carbon tetrachloride, TCLP                          | <0.0500                     |                                       | 0.536                       |
| Chlorobenzene, TCLP                                 |                             |                                       |                             |
| Chloroform, TCLP                                    |                             |                                       |                             |
| Tetrachloroethene, TCLP                             |                             |                                       |                             |
| Trichloroethene, TCLP                               | 0.0611                      |                                       |                             |
| Vinyl chloride, TCLP                                |                             |                                       |                             |
| <b>pH (Standard Units)</b>                          |                             |                                       |                             |
| pH at 25 Degrees C                                  |                             |                                       |                             |
| <b>Percent Moisture (%)</b>                         |                             |                                       |                             |
| Percent Moisture                                    |                             | 26.5                                  | 68.7                        |

Table Notes:

<sup>1</sup> Stockpile staged in two separate sub-piles.

Data Notes:

Data tabulated by M. Cairns of WESTON on 08/06/2010.

Data tabulation QAV'd by J. Savage of WESTON on 08/06/2010.

Analytical data provided in Phase Analytical Services data package 1



Table 7: Soil Block D9 2-4 Stockpile 002 and 003 Sampling Results  
Cottage Grove Site

| Stockpile Manifest ID:                        | Stockpile 002 <sup>1</sup>  | Stockpile 003 <sup>1</sup>  |
|---|-----------------------------|-----------------------------|
| Sample Type:                                  | D9 2-4 002-1 & D9 2-4 002-2 | D9 2-4 003-1 & D9 2-4 003-2 |
| Block ID:                                     | Composite<br>D9 2-4         | Composite<br>D9 2-4         |
| Sample ID:                                    | CGMN-ESC-D9204002A-0-10080- | CGMN-ESC-D9204003A-0-10080- |
| Laboratory ID:                                | 10135081001                 | 10135081002                 |
| Sample Date & Time:                           | 08/04/2010 08:00            | 08/04/2010 08:07            |
| <b>Polychlorinated Biphenyls (mg/kg, ppm)</b> |                             |                             |
| PCB-1016 (Aroclor 1016)                       | <0.259                      | <0.06                       |
| PCB-1221 (Aroclor 1221)                       | <0.259                      | <0.06                       |
| PCB-1232 (Aroclor 1232)                       | <0.259                      | <0.06                       |
| PCB-1242 (Aroclor 1242)                       | <0.259                      | <0.06                       |
| PCB-1248 (Aroclor 1248)                       | <0.259                      | <0.06                       |
| PCB-1254 (Aroclor 1254)                       | 5.68                        | 17.4                        |
| PCB-1260 (Aroclor 1260)                       | 1.17                        | 2.88                        |
| PCB-1262 (Aroclor 1262)                       | <0.259                      | <0.06                       |
| PCB-1268 (Aroclor 1268)                       | <0.259                      | <0.06                       |
| Total PCB                                     | 6.85                        | 20.3                        |
| <b>Percent Moisture (%)</b>                   |                             |                             |
| Percent Moisture                              | 36.4                        | 45.0                        |

Table Notes:  
<sup>1</sup> Stockpile staged in two separate sub-piles.

**Data Notes:**

Data tabulated by R. McLoughlin of WESTON on 08/10/2010.  
Data tabulation QA'd by D. Armstrong of WESTON on 08/10/2010.  
Analytical data provided in Pace Analytical Services data package #10135081.



Table 8: Soil Block D9 3-1 Sampling Results  
Cottage Grove Site

| Stockpile Manifest ID:<br>Sample Type:<br>Block ID:<br>Sample ID:<br>Laboratory ID:<br>Sample Date & Time: | Stockpile 001 <sup>1</sup>   | Stockpile 002 <sup>1</sup>   | Stockpile 003 <sup>1</sup>   |
|--|--|--|--|
|  | D9 3-1 001-1 & D9 3-1 001-2<br>Composite<br>D9 3-1<br>CGMN-ESC-D9301001A-0-100810<br>10135496001<br>08/10/2010 08:45 | D9 3-1 002-1 & D9 3-1 002-2<br>Composite<br>D9 3-1<br>CGMN-ESC-D9301002A-0-100810<br>10135496002<br>08/10/2010 08:53 | D9 3-1 003-1 & D9 3-1 003-2<br>Composite<br>D9 3-1<br>CGMN-ESC-D9301003A-0-100810<br>10135496003<br>08/10/2010 09:02 |
| Polychlorinated Biphenyls (mg/kg, ppm)   |  |  |  |
| PCB-1016 (Aroclor 1016)  | <0.755   | <0.416   | <0.615   |
| PCB-1221 (Aroclor 1221)  | <0.755   | <0.416   | <0.615   |
| PCB-1232 (Aroclor 1232)  | <0.755   | <0.416   | <0.615   |
| PCB-1242 (Aroclor 1242)  | <0.755   | <0.416   | <0.615   |
| PCB-1248 (Aroclor 1248)  | <0.755   | <0.416   | <0.615   |
| PCB-1254 (Aroclor 1254)  | 1.22   | 7.42   | 23.9   |
| PCB-1260 (Aroclor 1260)  | <0.755   | 1.62   | 5.34   |
| PCB-1262 (Aroclor 1262)  | <0.755   | <0.416   | <0.615   |
| PCB-1268 (Aroclor 1268)  | <0.755   | <0.416   | <0.615   |
| Total PCB  | 1.22   | 9.04   | 29.2   |
| Volatile Organic Compounds, TCLP (mg/L, ppm)   |  |  |  |
| Benzene, TOLP  | <0.05  | 0.0894   | 0.596  |
| Percent Moisture (%)   | 12.6   | 20.6   | 46.3   |

Table Notes:  
<sup>1</sup> Stockpile staged in two separate sub-piles.

Data Notes:  
Data tabulated by R. McLoughlin of WESTON on 08/16/2010.  
Data tabulation QA'd by J. Savage of WESTON on 08/16/2010.  
Analytical data provided in Price Analytical Services data package #10135496.



Table 9: Soil Block D9 1-9 Stockpile 001 and 002 Sampling Results  
Cottage Grove Site

| Stockpile Manifest ID:<br>Sample Type:<br>Block ID:<br>Sample ID:<br>Laboratory ID:<br>Sample Date & Time: | Stockpile 001                  |   | D9 1-9 001-2<br>Grab<br>D9 1-9 | D9 1-9 001-2<br>Grab - Duplicate<br>D9 1-9 |
|--|--------------------------------|---|--------------------------------|--|
|  | D9 1-9 001-1<br>Grab<br>D9 1-9 | D9 1-9<br>CGMN-ES-D9109001C-0-100811<br>10135603002<br>08/11/2010 09:46 |                                |  |
| <b>Volatile Organic Compounds (mg/kg, ppm)</b>   |                                |   |                                |  |
| 1,1,1,2-Tetrachloroethane  | < 0.0692                       |   | < 1.36                         | < 3.55                                     |
| 1,1,1-Trichloroethane  | 0.366                          | 1.41  | < 1.36                         | < 3.55                                     |
| 1,1,2,2-Tetrachloroethane  | < 0.0692                       |   | < 1.36                         | < 3.55                                     |
| 1,1,2-Trichloroethane  | < 0.0692                       |   | < 1.36                         | < 3.55                                     |
| 1,1,2-Trichlorofluoroethane  | < 0.0692                       |   | < 1.36                         | < 3.55                                     |
| 1,1-Dichloroethane   | < 0.0692                       |   | < 1.36                         | < 3.55                                     |
| 1,1-Dichloropropene  | < 0.0692                       |   | < 1.36                         | < 3.55                                     |
| 1,2,3-Trichlorobenzene   | < 0.0692                       |   | < 1.36                         | < 3.55                                     |
| 1,2,3-Trichloropropane   | < 0.0692                       |   | < 1.36                         | < 3.55                                     |
| 1,2,4-Trichlorobenzene   | < 0.0692                       |   | < 1.36                         | < 3.55                                     |
| 1,2,4-Trimethylbenzene   | 0.286                          |   | < 1.36                         | < 3.55                                     |
|  | 0.806                          | 12.3  |                                | 23.4                                       |
| 1,2-Dibromo-3-chloropropane  | < 0.277                        |   | < 5.42                         | < 14.2                                     |
| 1,2-Dibromoethane (EDB)  | < 0.0692                       |   | < 1.36                         | < 3.55                                     |
| 1,2-Dichlorobenzene  | 5.24                           | 22.6  |                                | 40.0                                       |
| 1,2-Dichloroethane   | < 0.0692                       |   | < 1.36                         | < 3.55                                     |
| 1,2-Dichloropropane  | < 0.0692                       |   | < 1.36                         | < 3.55                                     |
| 1,3,5-Trimethylbenzene   | 1.57                           | 9.32  |                                | 12.5                                       |
| 1,3-Dichlorobenzene  | 2.70                           | 4.69  |                                | 7.64                                       |
| 1,3-Dichloropropane  | < 0.0692                       |   | < 1.36                         | < 3.55                                     |
| 1,4-Dichlorobenzene  | 0.822                          | 2.69  |                                | 5.24                                       |
| 2,2-Dichloropropane  | < 0.277                        |   | < 5.42                         | < 14.2                                     |
| 2-Butanone (MEK)   | < 0.0692                       |   | < 1.36                         | < 3.55                                     |
| 2-Chlorotoluene  | < 0.0692                       |   | < 1.36                         | < 3.55                                     |
| 4-Chlorotoluene  | < 0.0692                       |   | < 1.36                         | < 3.55                                     |
| 4-Methyl-2-pentanone (MIBK)  | < 0.0692                       |   | < 1.36                         | < 3.55                                     |
| Acetone  | < 0.0692                       |   | < 1.36                         | < 3.55                                     |
| Allyl chloride   | < 0.277                        |   | < 5.42                         | < 14.2                                     |
| Benzene  | < 0.0277                       |   | < 0.542                        | < 1.42                                     |
| Bromobenzene   | < 0.0692                       |   | < 1.36                         | < 3.55                                     |
| Bromochloromethane   | < 0.0692                       |   | < 1.36                         | < 3.55                                     |
| Bromodichloromethane   | < 0.0692                       |   | < 1.36                         | < 3.55                                     |
| Bromoform  | < 0.554                        |   | < 10.8                         | < 28.4                                     |
| Bromomethane   | < 0.0692                       |   | < 1.36                         | < 3.55                                     |
| Carbon tetrachloride   | < 0.277                        |   | < 5.42                         | < 14.2                                     |
| Chlorobenzene  | < 0.0692                       |   | < 1.36                         | < 3.55                                     |
| Chloroethane   | < 0.0692                       |   | < 1.36                         | < 3.55                                     |
| Chloroform   | < 0.0692                       |   | < 1.36                         | < 3.55                                     |
| Chloromethane  | < 0.277                        |   | < 5.42                         | < 14.2                                     |
| cis-1,2-Dichloroethene   | 0.224                          |   | < 1.36                         | < 3.55                                     |
| cis-1,3-Dichloropropene  | < 0.0692                       |   | < 1.36                         | < 3.55                                     |

Z:\arc-cottage\_grow005\_Construction\CCR\Appendices\Appendix 9 (Sample Results)\CGMN\_C09\_Excavation\_Soil\_Block\_Data - 1-9\_001\_002(IV)



Table 9: Soil Block D9 1-9 Stockpile 001 and 002 Sampling Results  
Cottage Grove Site

| Stockpile Manifest ID:<br>Sample Type:<br>Block ID: | Stockpile 001 <sup>1</sup>                                    |   | D9 1-9 001-2<br>Grab<br>D9 1-9                                   | D9 1-9 001-2<br>Grab - Duplicate<br>D9 1-9 |
|---|---|---|--|--|
|   | D9 1-9 001-1<br>Grab<br>D9 1-9                                | D9 1-9 001-2<br>Grab<br>D9 1-9                                |  |  |
| Sample ID:<br>Laboratory ID:<br>Sample Date & Time: | CGMN-ES-D9109001B-0-100811<br>10135603001<br>08/11/2010 09:40 | CGMN-ES-D9109001C-0-100811<br>10135603002<br>08/11/2010 09:46 | CGMN-ES-D9109001C-DB-0-100811<br>10135603003<br>08/11/2010 09:46 |  |
| Dibromochloromethane                                | < 0.0692  | < 1.36  |  | < 3.55                                     |
| Dibromomethane                                      | < 0.0692  | < 1.36  |  | < 3.55                                     |
| Dichlorodifluoromethane                             | < 0.0692  | < 1.36  |  | < 3.55                                     |
| Dichlorofluoromethane                               | < 0.0692  | < 1.36  |  | < 3.55                                     |
| Diethyl ether (Ethyl ether)                         | < 0.277   | < 5.42  |  | < 14.2                                     |
| Ethylbenzene  | 2.81  | 22.6  |  | 123  |
| Hexachloro-1,3-butadiene                            | < 0.277   | < 5.42  |  | < 14.2                                     |
| Isopropylbenzene (Cumene)                           | 0.126   | < 1.36  |  | 3.76                                       |
| Methylene Chloride                                  | < 0.277   | < 5.42  |  | < 14.2                                     |
| Methyl-tert-butyl ether                             | < 0.0692  | < 1.36  |  | < 3.55                                     |
| Naphthalene   | < 0.277   | < 5.42  |  | < 14.2                                     |
| n-Butylbenzene                                      | < 0.0692  | < 1.36  |  | < 3.55                                     |
| n-Propylbenzene                                     | 0.131   | < 1.36  |  | 3.84                                       |
| p-Isopropyltoluene                                  | 0.155   | < 1.36  |  | < 3.55                                     |
| sec-Butylbenzene                                    | < 0.0692  | < 1.36  |  | < 3.55                                     |
| Styrene   | < 0.0692  | < 1.36  |  | < 3.55                                     |
| tert-Butylbenzene                                   | < 0.0692  | < 1.36  |  | < 3.55                                     |
| Tetrachloroethene                                   | 10.1  | 37.8  |  | 47.7                                       |
| Tetrahydrofuran                                     |   | < 13.6  |  | < 35.5                                     |
| Toluene   | 9.01  | 49.5  |  | 268  |
| trans-1,2-Dichloroethene                            | < 0.0692  | < 1.36  |  | < 3.55                                     |
| trans-1,3-Dichloropropene                           | < 0.0692  | < 1.36  |  | < 3.55                                     |
| Trichloroethene                                     | 0.141   | < 1.36  |  | < 3.55                                     |
| Trichlorofluoromethane                              | < 0.0692  | < 1.36  |  | < 3.55                                     |
| Vinyl chloride                                      | < 0.277   | < 5.42  |  | < 14.2                                     |
| Xylene (Total)                                      | 20.1  | 384   |  | 936  |
| Percent Moisture (%)                                | 25.2  | 28.5  |  | 27.9                                       |

Table Notes:

<sup>1</sup> Stockpile staged in two separate sub-piles.

Data Notes:

Data tabulated by U. Armstrong of WESTON on 08/16/2010.  
Data tabulation QAD by J. Savage of WESTON on 08/17/2010.  
Analytical data provided in Pace Analytical Services data package #10135603.



Table 9: Soil Block D9 1-9 Stockpile 001 and 002 Sampling Results  
Cottage Grove Site

| Stockpile Manifest ID:                         | D9 1-9 002-1               | Stockpile 002'             | D9 1-9 002-2               |
|--|----------------------------|----------------------------|----------------------------|
| Sample Type:                                   | Grab                       | Grab                       | Grab                       |
| Block ID:                                      | D9 1-9                     | D9 1-9                     | D9 1-9                     |
| Sample ID:                                     | CGMN-ES-D9109002B-0-100811 | CGMN-ES-D9109002C-0-100811 | CGMN-ES-D9109002C-0-100811 |
| Laboratory ID:                                 | 10135603004                | 10135603005                | 10135603005                |
| Sample Date & Time:                            | 08/11/2010 09:42           | 08/11/2010 09:49           | 08/11/2010 09:49           |
| <b>Volatile Organic Compounds (mg/kg, ppm)</b> |                            |                            |                            |
| 1,1,1,2-Tetrachloroethane                      | < 0.316                    | < 0.116                    | < 0.116                    |
| 1,1,1-Trichloroethane                          | < 0.316                    | < 0.116                    | < 0.116                    |
| 1,1,2,2-Tetrachloroethane                      | < 0.316                    | < 0.116                    | < 0.116                    |
| 1,1,2-Trichloroethane                          | < 0.316                    | < 0.116                    | < 0.116                    |
| 1,1,2-Trichlorotrifluoroethane                 | < 0.316                    | < 0.116                    | < 0.116                    |
| 1,1-Dichloroethane                             | < 0.316                    | < 0.116                    | < 0.116                    |
| 1,1-Dichloroethene                             | < 0.316                    | < 0.116                    | < 0.116                    |
| 1,1-Dichloropropene                            | < 0.316                    | < 0.116                    | < 0.116                    |
| 1,2,3-Trichlorobenzene                         | < 0.316                    | < 0.116                    | < 0.116                    |
| 1,2,3-Trichloropropane                         | < 0.316                    | < 0.116                    | < 0.116                    |
| 1,2,4-Trichlorobenzene                         | < 0.316                    | < 0.116                    | < 0.116                    |
| 1,2,4-Trimethylbenzene                         | 0.362                      | 0.460                      | 0.460                      |
| 1,2-Dibromo-3-chloropropane                    | < 1.26                     | 0.547                      | < 0.465                    |
| 1,2-Dibromoethane (EDB)                        | < 0.316                    | < 0.116                    | < 0.116                    |
| 1,2-Dichlorobenzene                            | 14.3                       | 7.08                       | < 0.116                    |
| 1,2-Dichloroethane                             | < 0.316                    | < 0.116                    | < 0.116                    |
| 1,2-Dichloropropane                            | < 0.316                    | < 0.116                    | < 0.116                    |
| 1,3,5-Trimethylbenzene                         | 2.80                       | 0.886                      | < 0.116                    |
| 1,3-Dichlorobenzene                            | 3.58                       | 3.78                       | < 0.116                    |
| 1,3-Dichloropropane                            | < 0.316                    | < 0.116                    | < 0.116                    |
| 1,4-Dichlorobenzene                            | 1.14                       | 0.678                      | < 0.116                    |
| 2,2-Dichloropropane                            | < 1.26                     | < 0.465                    | < 0.465                    |
| 2-Butanone (MEK)                               | < 3.16                     | < 1.16                     | < 1.16                     |
| 2-Chlorotoluene                                | < 0.316                    | < 0.116                    | < 0.116                    |
| 4-Chlorotoluene                                | < 0.316                    | < 0.116                    | < 0.116                    |
| 4-Methyl-2-pentanone (MIBK)                    | < 3.16                     | < 1.16                     | < 1.16                     |
| Acetone  | < 3.16                     | < 1.16                     | < 1.16                     |
| Allyl chloride                                 | < 1.26                     | < 0.465                    | < 0.465                    |
| Benzene  | < 0.126                    | < 0.0465                   | < 0.0465                   |
| Bromobenzene                                   | < 0.316                    | < 0.116                    | < 0.116                    |
| Bromochloromethane                             | < 0.316                    | < 0.116                    | < 0.116                    |
| Bromodichloromethane                           | < 0.316                    | < 0.116                    | < 0.116                    |
| Bromoform                                      | < 2.53                     | < 0.929                    | < 0.929                    |
| Bromomethane                                   | < 3.16                     | < 1.16                     | < 1.16                     |
| Carbon tetrachloride                           | < 1.26                     | < 0.465                    | < 0.465                    |
| Chlorobenzene                                  | < 0.316                    | < 0.116                    | < 0.116                    |
| Chloroethane                                   | < 3.16                     | < 1.16                     | < 1.16                     |
| Chloroform                                     | < 0.316                    | < 0.116                    | < 0.116                    |
| Chloromethane                                  | < 1.26                     | < 0.465                    | < 0.465                    |
| cis-1,2-Dichloroethene                         | < 0.316                    | < 0.116                    | < 0.116                    |
| cis-1,3-Dichloropropene                        | < 0.316                    | < 0.116                    | < 0.116                    |

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Table 9: Soil Block D9 1-9 Stockpile 001 and 002 Sampling Results  
Cottage Grove Site

| Stockpile Manifest ID:      | D9 1-9 002-1               | Stockpile 002 <sup>1</sup> |
|-----------------------------|----------------------------|----------------------------|
| Sample Type:                | Grab                       | Grab                       |
| Block ID:                   | D9 1-9                     | D9 1-9                     |
| Sample ID:                  | CGMN-ES-D9109002B-D-100811 | CGMN-ES-D9109002C-0-100811 |
| Laboratory ID:              | 10135603004                | 10135603005                |
| Sample Date & Time:         | 08/11/2010 09:42           | 08/11/2010 09:49           |
| Dibromochloromethane        | < 0.316                    | < 0.116                    |
| Dibromomethane              | < 0.316                    | < 0.116                    |
| Dichlorodifluoromethane     | < 0.316                    | < 0.116                    |
| Dichlorofluoromethane       | < 0.316                    | < 0.116                    |
| Diethyl ether (Ethyl ether) | < 1.26                     | < 0.465                    |
| Ethylbenzene                | 0.946                      | 1.63                       |
| Hexachloro-1,3-butadiene    | < 1.26                     | < 0.465                    |
| Isopropylbenzene (Cumene)   | < 0.316                    | < 0.116                    |
| Methylene Chloride          | < 1.26                     | < 0.465                    |
| Methyl-tert-butyl ether     | < 0.316                    | < 0.116                    |
| Naphthalene                 | < 1.26                     | < 0.465                    |
| n-Butylbenzene              | < 0.316                    | < 0.116                    |
| n-Propylbenzene             | < 0.316                    | < 0.116                    |
| p-Isopropyltoluene          | < 0.316                    | < 0.116                    |
| sec-Butylbenzene            | < 0.316                    | < 0.116                    |
| Styrene                     | < 0.316                    | < 0.116                    |
| tert-Butylbenzene           | < 0.316                    | < 0.116                    |
| Tetrachloroethene           | 2.76                       | 1.53                       |
| Tetrahydrofuran             |                            |                            |
| Toluene                     | 2.75                       | 1.94                       |
| trans-1,2-Dichloroethane    | < 0.316                    | < 0.116                    |
| trans-1,3-Dichloropropene   | < 0.316                    | < 0.116                    |
| Trichloroethene             | < 0.316                    | < 0.116                    |
| Trichlorofluoromethane      | < 0.316                    | < 0.116                    |
| Vinyl chloride              | < 0.126                    | < 0.0465                   |
| Xylene (Total)              | 34.4                       | 16.0                       |
| Percent Moisture (%)        | 23.7                       | 30.6                       |

Table Notes:

<sup>1</sup> Stockpile staged in two separate sub-piles.

Data Notes:

Data tabulated by D. Armstrong of WESTON on 08/16/2010.

Data tabulation QA'd by J. Savage of WESTON on 08/17/2010.

Analytical data provided in Paper Analytical Services data package.



Table 10: Soil Block D9 3-7 Stockpile 001 and 002 Sampling Results  
Cottage Grove Site

| Stockpile Manifest ID:<br>Sample Type:<br>Block ID:<br>Sample ID:<br>Laboratory ID:<br>Sample Date & Time: | Stockpile 001 <sup>1</sup>                                      |  | Stockpile 002 <sup>1</sup>                         |  |
|--|---|--|--|--|
|  | D9 3-7 001-1 & D9 3-7 001-2<br>Composite<br>D9 3-7              | D9 3-7 001-1 & D9 3-7 001-2<br>Composite - Duplicate<br>D9 3-7 | D9 3-7 002-1 & D9 3-7 002-2<br>Composite<br>D9 3-7 | D9 3-7 002-1 & D9 3-7 002-2<br>Composite<br>D9 3-7 |
| CGMN-ESC-D9307001A-0-100811<br>10135603006<br>08/11/2010 09:58   | CGMN-ESC-D9307001A-DB-100811<br>10135603007<br>08/11/2010 09:58 | CGMN-ESC-D9307002A-0-100811<br>10135603008<br>08/11/2010 10:05 |  |  |
| <b>Polychlorinated Biphenyls (mg/kg, ppm)</b>  |   |  |  |  |
| PCB-1016 (Aroclor 1016)  | < 0.952   | < 2.34   | < 2.85   | < 2.85   |
| PCB-1221 (Aroclor 1221)  | < 0.952   | < 2.34   | < 2.85   | < 2.85   |
| PCB-1232 (Aroclor 1232)  | < 0.952   | < 2.34   | < 2.85   | < 2.85   |
| PCB-1242 (Aroclor 1242)  | < 0.952   | < 2.34   | < 2.85   | < 2.85   |
| PCB-1248 (Aroclor 1248)  | < 0.952   | < 2.34   | < 2.85   | < 2.85   |
| PCB-1254 (Aroclor 1254)  | 19.0  | 21.9   | 47.7   |  |
| PCB-1260 (Aroclor 1260)  | 4.51  | 4.89   | 10.8   |  |
| PCB-1262 (Aroclor 1262)  | < 0.952   | < 2.34   | < 2.85   | < 2.85   |
| PCB-1268 (Aroclor 1268)  | < 0.952   | < 2.34   | < 2.85   | < 2.85   |
| Total PCBs   | 23.5  | 26.8   | 58.5   |  |
| <b>Volatile Organic Compounds, TCLP (mg/L, ppm)</b>  |   |  |  |  |
| Benzene, TCLP  | 0.0591  | 0.0685   | 0.350  |  |
| <b>Metals, TCLP (mg/L, ppm)</b>  |   |  |  |  |
| Lead, TCLP   | < 0.015   | < 0.015  | < 0.015  | < 0.015  |
| <b>Percent Moisture (%)</b>  | 30.7  | 29.5   | 42.0   |  |

**Table Notes:**

<sup>1</sup> Stockpile staged in two separate sub-piles.

**Data Notes:**

Data tabulated by D. Armstrong of WESTON on 08/16/2010.

Data tabulation QA'd by J. Savage of WESTON on 08/17/2010.

Analytical data provided in Pace Analytical Services data package #10135603.

Z:\3n-cottage\_grove\D9\_Construction\CCR\Appendices\Appendix D (Sample Results)\CGMN\_D9\_Excavation\_Soil\_Block\_Data - 3-7\_001\_002(W)



Table 11: Soil Block D9 3-5 Sampling Results  
Cottage Grove Site

| Stockpile Manifest ID:<br>D9 3-5 001-1 & D9 3-5 001-2 |                     | Stockpile 002 <sup>1</sup><br>D9 3-5 002-1 & D9 3-5 002-2 |                     | Stockpile 003 <sup>1</sup><br>D9 3-5 003-1 & D9 3-5 003-2 |                     | Stockpile 004<br>D9 3-5 004               |                     |
|---|---------------------|---|---------------------|---|---------------------|---|---------------------|
| Sample Type:<br>Block ID:                             | Composite<br>D9 3-5 | Sample ID:<br>CGMN-ESC-D9305001A-0-100811                 | Composite<br>D9 3-5 | Sample ID:<br>CGMN-ESC-D9305003A-0-100811                 | Composite<br>D9 3-5 | Sample ID:<br>CGMN-ESC-D9305004A-0-100811 | Composite<br>D9 3-5 |
| Laboratory ID:  | 10135735001         | Laboratory ID:  | 10135735002         | Laboratory ID:  | 10135735003         | Laboratory ID:                            | 10135735004         |
| Sample Date & Time:                                   | 08/12/2010 16:28    | Sample Date & Time:                                       | 08/12/2010 16:32    | Sample Date & Time:                                       | 08/12/2010 16:36    | Sample Date & Time:                       | 08/12/2010 16:38    |
| <b>Polychlorinated Biphenyls (mg/kg, ppm)</b>         |                     |   |                     |   |                     |   |                     |
| PCB-1016 (Atoclor 1016)                               | <0.645              | <0.464  | <0.464              | <0.748  | <0.729              | <0.729                                    | <0.729              |
| PCB-1221 (Atoclor 1221)                               | <0.645              | <0.464  | <0.464              | <0.748  | <0.729              | <0.729                                    | <0.729              |
| PCB-1232 (Atoclor 1232)                               | <0.645              | <0.464  | <0.464              | <0.748  | <0.729              | <0.729                                    | <0.729              |
| PCB-1242 (Atoclor 1242)                               | <0.645              | <0.464  | <0.464              | <0.748  | <0.729              | <0.729                                    | <0.729              |
| PCB-1248 (Atoclor 1248)                               | <0.645              | <0.464  | <0.464              | <0.748  | <0.729              | <0.729                                    | <0.729              |
| PCB-1254 (Atoclor 1254)                               | 3.14                |   |                     |   |                     |   |                     |
| PCB-1260 (Atoclor 1260)                               | 0.780               | 2.00  |                     | 22.2  | 33.1                |   |                     |
| PCB-1262 (Atoclor 1262)                               | <0.645              | <0.464  | <0.464              | 5.23  | 7.53                | <0.729                                    | <0.729              |
| PCB-1268 (Atoclor 1268)                               | <0.645              | <0.464  | <0.464              | <0.748  | <0.748              | <0.729                                    | <0.729              |
| Total PCBs  | 3.92                | 2.00  |                     | 27.4  | 40.6                |   |                     |
| Percent Moisture (%)                                  | 48.8                | 28.9  |                     | 55.9  | 54.8                |   |                     |

Table Notes:

<sup>1</sup> Stockpile staged in two separate sub-piles.

Data Notes:

Data labulated by R. McLoughlin of WESTON on 08/18/2010.

Data labulation QA'd by D. Armstrong of WESTON on 08/19/2010.

Analytical data provided in Pace Analytical Services data package #10135735.



Table 12: Soil Block D9 3-3 Stockpiles 001 - 002 and Soil Block D9 3-6 Sampling Results  
Cottage Grove Site

| Stockpile Manifest ID:<br>Sample Type:              | Stockpile 001 <sup>1</sup><br>D9 3-3 001-1 & D9 3-3 001-2<br>Composite | Stockpile 002 <sup>1</sup><br>D9 3-3 002-1 & D9 3-3 002-2<br>Composite |
|---|--|--|
| Block ID:   | D9 3-3   | D9 3-3   |
| Sample ID:  | CGMN-ESC-D9303001A-0-100817  | CGMN-ESC-D8303002A-0-100817  |
| Laboratory ID:                                      | 10135995004  | 10135995005  |
| Sample Date & Time:                                 | 08/17/2010 16:26   | 08/17/2010 16:30   |
| <b>Polychlorinated Biphenyls (mg/kg, ppm)</b>       |  |  |
| PCB-1016 (Aroclor 1016)                             | < 0.855  | < 0.697  |
| PCB-1221 (Aroclor 1221)                             | < 0.855  | < 0.697  |
| PCB-1232 (Aroclor 1232)                             | < 0.855  | < 0.697  |
| PCB-1242 (Aroclor 1242)                             | < 0.855  | < 0.697  |
| PCB-1248 (Aroclor 1248)                             | < 0.855  | < 0.697  |
| PCB-1254 (Aroclor 1254)                             | 83.5   | 40.8   |
| PCB-1260 (Aroclor 1260)                             | 8.59   | 4.35   |
| PCB-1262 (Aroclor 1262)                             | < 0.855  | < 0.697  |
| PCB-1268 (Aroclor 1268)                             | < 0.855  | < 0.697  |
| Total PCBs  | 92.1   | 45.2   |
| <b>Volatile Organic Compounds, TCLP (mg/L, ppm)</b> |  |  |
| Benzene, TCLP                                       | 0.655  | 0.637  |
| Lead, TCLP  |  |  |
| Mercury, TCLP                                       |  |  |
| <b>Percent Moisture (%)</b>                         |  |  |
| Percent Moisture                                    | 61.6   | 52.7   |

**Table Notes:**

<sup>1</sup> Stockpile staged in two separate sub-piles.

-- = Sample not analyzed for corresponding compound.

**Data Notes:**

Data tabulated by D. Armstrong of WESTON on 08/24/2010.

Data tabulation QAC'd by R. McLoughlin of WESTON on 08/24/2010.

Analytical data provided in Pace Analytical Services data package #10135995.



Table 12: Soil Block D9 3-3 Stockpiles 001 - 002 and Soil Block D9 3-6 Sampling Results  
Cottage Grove Site

| Stockpile Manifest ID:                              | Stockpile 001 <sup>1</sup>  |                             | Stockpile 002 <sup>1</sup>  |                             | Stockpile 003 <sup>1</sup>  |  |
|---|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|--|
|   | Sample Type:                | D9 3-6 001-1 & D9 3-6 001-2 | D9 3-6 002-1 & D9 3-6 002-2 | D9 3-6 003-1 & D9 3-6 003-2 | Composite                   |  |
| Block ID:   | D9 3-6                      |                             | D9 3-6                      |                             | D9 3-6                      |  |
| Sample ID:  | CGMN-ESC-D9306001A-0-100817 |                             | CGMN-ESC-D9306002A-0-100817 |                             | CGMN-ESC-D9306003A-0-100817 |  |
| Laboratory ID:                                      | 10135995001                 |                             | 10135995002                 |                             | 10135995003                 |  |
| Sample Date & Time:                                 | 08/17/2010 16:22            |                             | 08/17/2010 16:14            |                             | 08/17/2010 16:15            |  |
| <b>Polychlorinated Biphenyls (mg/kg, ppm)</b>       |                             |                             |                             |                             |                             |  |
| PCB-1016 (Aroclor 1016)                             | < 0.629                     | < 0.629                     | < 0.751                     | < 0.835                     |                             |  |
| PCB-1221 (Aroclor 1221)                             | < 0.629                     | < 0.629                     | < 0.751                     | < 0.835                     |                             |  |
| PCB-1232 (Aroclor 1232)                             | < 0.629                     | < 0.629                     | < 0.751                     | < 0.835                     |                             |  |
| PCB-1242 (Aroclor 1242)                             | < 0.629                     | < 0.629                     | < 0.751                     | < 0.835                     |                             |  |
| PCB-1248 (Aroclor 1248)                             | < 0.629                     | < 0.629                     | < 0.751                     | < 0.835                     |                             |  |
| PCB-1254 (Aroclor 1254)                             | 47.0                        |                             | 166                         | 60.5                        |                             |  |
| PCB-1260 (Aroclor 1260)                             | 5.36                        |                             | 16.1                        | 6.98                        |                             |  |
| PCB-1262 (Aroclor 1262)                             | < 0.629                     | < 0.629                     | < 0.751                     | < 0.835                     |                             |  |
| PCB-1268 (Aroclor 1268)                             | < 0.629                     | < 0.629                     | < 0.751                     | < 0.835                     |                             |  |
| Total PCBs  | 52.4                        |                             | 182                         | 67.5                        |                             |  |
| <b>Volatile Organic Compounds, TCLP (mg/L, ppm)</b> |                             |                             |                             |                             |                             |  |
| Benzene, TCLP                                       | 0.621                       |                             | 0.821                       | 0.700                       |                             |  |
| <b>Metals, TCLP (mg/L, ppm)</b>                     |                             |                             |                             |                             |                             |  |
| Lead, TCLP  | < 0.015                     | < 0.015                     | < 0.015                     | < 0.015                     |                             |  |
| Mercury, TCLP                                       | < 0.0008                    | < 0.0008                    | < 0.0008                    | < 0.0008                    |                             |  |
| Percent Moisture (%)                                | 47.6                        |                             | 56.2                        | 60.5                        |                             |  |

**Table Notes:**

<sup>1</sup> Stockpile staged in two separate sub-piles.

-- = Sample not analyzed for corresponding compound.

**Data Notes:**

Date tabulated by D. Armstrong of WESTON on 08/24/2010.

Data tabulation QA'd by R. McLaughlin of WESTON on 08/24/2010.

Analytical data provided in Pace Analytical Services data package.



Table 13: Soil Block D9 3-3 Stockpiles 003 - 005 and Soil Block D9 3-4 Stockpile 001 Sampling Results  
Cottage Grove Site

| Stockpile Manifest ID:<br>Sample Type:<br>Block ID: | Stockpile 003 <sup>1</sup>                         |  | Stockpile 004 <sup>1</sup>                 |
|---|--|--|--|
|   | D9 3-3 003-1 & D9 3-3 003-2<br>Composite<br>D9 3-3 | D9 3-3 003-1 & D9 3-3 003-2<br>Composite - Duplicate<br>D9 3-3 |  |
| Sample ID:<br>Laboratory ID:                        | CGMN-ESC-D9303003A-0-100819<br>10136152001         | CGMN-ESC-D9303003A-DB-100819<br>10136152002                    | CGMN-ESC-D9303004A-0-100819<br>10136152003 |
| Sample Date & Time:                                 | 08/19/2010 11:35                                   | 08/19/2010 11:35   | 08/19/2010 11:42                           |
| <b>Polychlorinated Biphenyls (mg/kg, ppm)</b>       |  |  |  |
| PCB-1016 (Aroclor 1016)                             | < 0.581  | < 0.554  | < 0.793                                    |
| PCB-1221 (Aroclor 1221)                             | < 0.581  | < 0.554  | < 0.793                                    |
| PCB-1232 (Aroclor 1232)                             | < 0.581  | < 0.554  | < 0.793                                    |
| PCB-1242 (Aroclor 1242)                             | < 0.581  | < 0.554  | < 0.793                                    |
| PCB-1248 (Aroclor 1248)                             | < 0.581  | < 0.554  | < 0.793                                    |
| PCB-1254 (Aroclor 1254)                             | 42.8   | 35.6   | 93.8                                       |
| PCB-1260 (Aroclor 1260)                             | 4.22   | 3.41   | 9.16                                       |
| PCB-1262 (Aroclor 1262)                             | < 0.581  | < 0.554  | < 0.793                                    |
| PCB-1268 (Aroclor 1268)                             | < 0.581  | < 0.554  | < 0.793                                    |
| Total PCBs  | 47.0   | 39.0   | 103  |
| <b>Volatile Organic Compounds, TCLP (mg/L, ppm)</b> |  |  |  |
| Benzene, TCLP                                       | 0.152  | 0.119  | 0.904                                      |
| <b>Metals, TCLP (mg/L, ppm)</b>                     |  |  |  |
| Lead, TCLP  | ---  | ---  | ---  |
| <b>Percent Moisture (%)</b>                         |  |  |  |
| Percent Moisture                                    | 43.2   | 40.5   | 58.4                                       |

**Table Notes:**

<sup>1</sup> Stockpile staged in two separate sub-piles.

--- = Sample not analyzed for corresponding compound.

**Data Notes:**

Data tabulated by D. Armstrong of WESTON on 08/25/2010.

Data tabulation QA'd by R. McLoughlin of WESTON on 08/25/2010.

Analytical data provided in Pace Analytical Services data package #10136152.



Table 13: Soil Block D9 3-3 Stockpiles 003 - 005 and Soil Block D9 3-4 Stockpile 001 Sampling Results  
Cottage Grove Site

| Stockpile Manifest ID:<br>Sample Type:              | Stockpile 005 <sup>1</sup>               |                             | Stockpile 001 <sup>1</sup>               |         |
|---|--|-----------------------------|--|---------|
|   | D9 3-3 005-1 & D9 3-3 005-2<br>Composite | D9 3-3                      | D9 3-4 001-1 & D9 3-4 001-2<br>Composite | D9 3-4  |
| Block ID:   | CGMN-ESC-D9303005A-0-100819              | CGMN-ESC-D9304001A-0-100819 |  |         |
| Sample ID:  | 10136152004                              | 10136152005                 |  |         |
| Laboratory ID:                                      |  |                             |  |         |
| Sample Date & Time:                                 | 08/19/2010 11:48                         | 08/19/2010 11:53            |  |         |
| <b>Polychlorinated Biphenyls (mg/kg, ppm)</b>       |  |                             |  |         |
| PCB-1016 (Aroclor 1016)                             | < 0.763                                  | < 0.667                     | < 0.763                                  | < 0.667 |
| PCB-1221 (Aroclor 1221)                             | < 0.763                                  | < 0.667                     | < 0.763                                  | < 0.667 |
| PCB-1232 (Aroclor 1232)                             | < 0.763                                  | < 0.667                     | < 0.763                                  | < 0.667 |
| PCB-1242 (Aroclor 1242)                             | < 0.763                                  | < 0.667                     | < 0.763                                  | < 0.667 |
| PCB-1248 (Aroclor 1248)                             | < 0.763                                  | < 0.667                     | < 0.763                                  | < 0.667 |
| PCB-1254 (Aroclor 1254)                             | 70.4                                     | 28.8                        |  |         |
| PCB-1260 (Aroclor 1260)                             | 6.87                                     | 3.09                        |  |         |
| PCB-1262 (Aroclor 1262)                             | < 0.763                                  | < 0.667                     | < 0.763                                  | < 0.667 |
| PCB-1268 (Aroclor 1268)                             | < 0.763                                  | < 0.667                     | < 0.763                                  | < 0.667 |
| Total PCBs  | 77.3                                     | 31.9                        |  |         |
| <b>Volatile Organic Compounds, TCLP (mg/L, ppm)</b> |  |                             |  |         |
| Benzene, TCLP                                       |  |                             |  |         |
| Metals, TCLP (mg/L, ppm)                            | 0.734                                    | 0.167                       |  |         |
| Lead, TCLP  |  |                             |  |         |
| Percent Moisture (%)                                |  |                             |  |         |
| Percent Moisture                                    | 56.7                                     |                             |  | 50.5    |

**Table Notes:**

<sup>1</sup> Stockpile staged in two separate sub-piles.

--- = Sample not analyzed for corresponding compound.

**Data Notes:**

Data labulated by D. Armstrong of WESTON on 08/25/2010.

Data labulation QA'd by R. McLoughlin of WESTON on 08/23/2010.

Analytical data provided in Pease Analytical Services data package #



Table 14: Soil Block D9 3-4 Stockpiles 002 - 004 Sampling Results  
Cottage Grove Site

| Stockpile Manifest ID:                              | Stockpile 002 <sup>1</sup><br>D9 3-4 002-1 & D9 3-4 002-2<br>Composite<br>D9 3-4 | Stockpile 003 <sup>1</sup><br>D9 3-4 003-1 & D9 3-4 003-2<br>Composite<br>D9 3-4 | Stockpile 004<br>D9 3-4 004<br>Composite<br>D9 3-4 |
|---|--|--|--|
| Sample Type:  |  |  |  |
| Block ID:   |  |  |  |
| Sample ID:  | CGMN-ESC-D9304002A-0-100820  | CGMN-ESC-D9304003A-0-100820  | CGMN-ESC-D9304004A-0-100821                        |
| Laboratory ID:                                      | 10136202001  | 10136202002  | 10136202003  |
| Sample Date & Time:                                 | 08/20/2010 08:41   | 08/20/2010 08:50   | 08/20/2010 09:00                                   |
| <b>Polychlorinated Biphenyls (mg/kg, ppm)</b>       |  |  |  |
| PCB-1016 (Aroclor 1016)                             | < 0.576  | < 0.585  | < 0.351  |
| PCB-1221 (Aroclor 1221)                             | < 0.576  | < 0.585  | < 0.351  |
| PCB-1232 (Aroclor 1232)                             | < 0.576  | < 0.585  | < 0.351  |
| PCB-1242 (Aroclor 1242)                             | < 0.576  | < 0.585  | < 0.351  |
| PCB-1248 (Aroclor 1248)                             | < 0.576  | < 0.585  | < 0.351  |
| PCB-1254 (Aroclor 1254)                             | 48.1   | < 0.585  | < 0.351  |
| PCB-1260 (Aroclor 1260)                             | 4.95   | 50.5   | < 0.351  |
| PCB-1262 (Aroclor 1262)                             | 4.64   | 4.64   | < 0.351  |
| PCB-1268 (Aroclor 1268)                             | < 0.576  | < 0.585  | < 0.351  |
| Total PCBs  | < 0.576  | < 0.585  | < 0.351  |
| <b>Volatile Organic Compounds, TCLP (mg/L, ppm)</b> |  |  |  |
| Benzene, TCLP                                       | 53.1   | 55.1   | < 0.351  |
| Metals, TCLP (mg/L, ppm)                            | 0.230  | 0.478  | < 0.05   |
| Lead, TCLP  | 0.015  | 0.015  | < 0.015  |
| Percent Moisture (%)                                | 42.7   | 43.6   | 5.9  |

Table Notes:

<sup>1</sup> Stockpiles staged in two separate sub-piles.

Data Notes:

Data tabulated by R. McLoughlin of WESTON on 08/28/2010.  
Data tabulation QA'd by D. Armstrong of WESTON on 08/27/2010.  
Analytical data provided in Pace Analytical Services data package # 10136202



Table 15: Soil Block D9 2-7 Stockpiles 001-1 and 001-2 Sampling Results  
Cottage Grove Site

| Stockpile Manifest ID:<br>Sample Type:<br>Block ID:<br>Sample ID:<br>Laboratory ID:<br>Sample Date & Time: | Stockpile 001  |   | Stockpile 001-1   |                                     | Stockpile 001-2                     |                                     |
|--|--|---|---|-------------------------------------|-------------------------------------|-------------------------------------|
|  | D9 2-7 001-1 & D9 2-7 001-2<br>Composite<br>D9 2-7               | D9 2-7 001-1 & D9 2-7 001-2<br>Composite - Duplicate<br>D9 2-7  | D9 2-7 001-1<br>Composite<br>D9 2-7                             | D9 2-7 001-1<br>Composite<br>D9 2-7 | D9 2-7 001-2<br>Composite<br>D9 2-7 | D9 2-7 001-2<br>Composite<br>D9 2-7 |
| CGMNI-ESC-D9207001A-0-100730<br>10134759003<br>07/30/2010 12:13  | CGMNI-ESC-D9207001A-D9-100730<br>10134759004<br>07/30/2010 12:13 | CGMNI-ESC-D9207001D-0-100908<br>10137533001<br>09/08/2010 11:36 | CGMNI-ESC-D9207001E-0-100908<br>10137533002<br>09/08/2010 11:38 |                                     |                                     |                                     |
| Polychlorinated Biphenyls (mg/kg, ppm)   |  |   |   |                                     |                                     |                                     |
| FCB-1016 (Aroclor 1016)  | < 0.711  | < 0.460   |   |                                     |                                     |                                     |
| FCB-1221 (Aroclor 1221)  | < 0.711  | < 0.460   |   |                                     |                                     |                                     |
| FCB-1232 (Aroclor 1232)  | < 0.711  | < 0.460   |   |                                     |                                     |                                     |
| FCB-1242 (Aroclor 1242)  | < 0.711  | < 0.460   |   |                                     |                                     |                                     |
| FCB-1248 (Aroclor 1248)  | < 0.711  | < 0.460   |   |                                     |                                     |                                     |
| FCB-1254 (Aroclor 1254)  | 38.5   | 29.8  |   |                                     |                                     |                                     |
| FCB-1260 (Aroclor 1260)  | 7.76   | 6.54  |   |                                     |                                     |                                     |
| FCB-1262 (Aroclor 1262)  | < 0.711  | < 0.460   |   |                                     |                                     |                                     |
| FCB-1268 (Aroclor 1268)  | < 0.711  | < 0.460   |   |                                     |                                     |                                     |
| Total PCB  | 46.3   | 36.3  |   |                                     |                                     |                                     |
| Volatile Organic Compounds, TCLP (mg/L, ppm)   |  |   |   |                                     |                                     |                                     |
| Benzene, TCLP  | See Note 2   | See Note 2  |   |                                     |                                     |                                     |
| pH (Standard Units)  |  |   |   |                                     | 0.116                               |                                     |
| pH at 25 Degrees C   | 7.8  | 8.9   |   |                                     |                                     |                                     |
| Percent Moisture (%)   |  |   |   |                                     |                                     |                                     |
| Percent Moisture   | 53.6   | 28.2  |   |                                     |                                     |                                     |

**Table Notes:**

- <sup>1</sup> Sample from the stockpile collected after conditioning the stockpile with Lime Kiln Dust (LKD) to reduce VOCs.
- <sup>2</sup> This VOC TCLP result is from a sample collected prior to conditioning the stockpiles to reduce VOCs. It has been superseded by the VOC TCLP results of samples collected after conditioning the stockpiles to reduce VOCs. See results for Stockpiles D9 2-7 001-1 and D9 2-7 001-2 (collected on 09/08/2010).  
--- = Sample not analyzed for this constituent.

**Data Notes:**

Data tabulated by R. McLoughlin of WESTON on 09/14/2010.  
Data tabulation QAD by J. Savage of WESTON on 09/15/2010.  
Analytical data provided in Pace Analytical Services data package #10134759 & #10137533.



Table 16: Soil Block D9 2-7 Stockpile 003 Sampling Results  
Cottage Grove Site

| Stockpile Manifest ID:                              | Stockpile 003               | Stockpile 003 <sup>1</sup>  |
|---|-----------------------------|-----------------------------|
| Sample Type:  | D9 2-7 003                  | D9 2-7 003                  |
| Block ID:   | Composite                   | Composite                   |
| Sample ID:  | D9 2-7                      | D9 2-7                      |
| Laboratory ID:                                      | CGMN-ESC-D9207003A-0-100802 | CGMN-ESC-D9207003A-0-100908 |
| Sample Date & Time:                                 | 10134878006                 | 10137533003                 |
| Sample Date & Time:                                 | 8/2/10 11:46                | 09/08/2010 11:41            |
| <b>Polychlorinated Biphenyls (mg/kg, ppm)</b>       |                             |                             |
| PCB-1016 (Aroclor 1016)                             | <1.05                       | ---                         |
| PCB-1221 (Aroclor 1221)                             | <1.05                       | ---                         |
| PCB-1232 (Aroclor 1232)                             | <1.05                       | ---                         |
| PCB-1242 (Aroclor 1242)                             | <1.05                       | ---                         |
| PCB-1248 (Aroclor 1248)                             | <1.05                       | ---                         |
| PCB-1254 (Aroclor 1254)                             | 31.7                        | ---                         |
| PCB-1260 (Aroclor 1260)                             | 6.09                        | ---                         |
| PCB-1262 (Aroclor 1262)                             | <1.05                       | ---                         |
| PCB-1268 (Aroclor 1268)                             | <1.05                       | ---                         |
| Total PCB   | 37.8                        | ---                         |
| <b>Volatile Organic Compounds, TCLP (mg/L, ppm)</b> |                             |                             |
| Benzene, TCLP                                       | See Note 2                  | < 0.050                     |
| Percent Moisture (%)                                | 68.7                        | ---                         |

**Table Notes:**

- <sup>1</sup> Sample from the stockpile collected after conditioning the stockpile with Lime Kiln Dust (LKD) to reduce VOCs.
- <sup>2</sup> This VOC TCLP result is from a sample collected prior to conditioning the stockpiles to reduce VOCs. It has been superseded by the VOC TCLP results of samples collected after conditioning the stockpiles to reduce VOCs. See results for Stockpiles D9 2-7 003 (collected on 09/08/2010).
- = Sample not analyzed for this constituent.

**Data Notes:**

Data tabulated by R. McLoughlin of WESTON on 09/14/2010.  
Data tabulation QA'd by J. Savage of WESTON on 09/15/2010.  
Analytical data provided in Pace Analytical Services data package #10134878 & #10137533.



Table 17: Soil Block D9 3-1 Stockpiles 003-1 and 003-2 Sampling Results  
Cottage Grove Site

| Stockpile Manifest ID:<br>Sample Type:<br>Block ID: | Stockpile 003               |                  | Stockpile 003-1 <sup>1</sup> | Stockpile 003-2 <sup>2</sup> |
|---|-----------------------------|------------------|------------------------------|------------------------------|
|   | D9 3-1 003-1 & D9 3-1 003-2 | Composite        | D9 3-1 003-1                 | D9 3-1 003-2                 |
| Sample ID:<br>Laboratory ID:                        | D9 3-1                      | Composite        | D9 3-1                       | Composite                    |
| Sample ID:<br>Laboratory ID:                        | CGMN-ESC-D9301003A-0-100810 | D9 3-1           | CGMN-ESC-D9301003D-0-100908  | CGMN-ESC-D9301003E-0-100908  |
| Sample Date & Time:                                 | 10135496003                 | 08/10/2010 09:02 | 10137533004                  | 10137533005                  |
| Sample Date & Time:                                 |                             |                  | 09/08/2010 11:44             | 09/08/2010 11:47             |
| <b>Polychlorinated Biphenyls (mg/kg, ppm)</b>       |                             |                  |                              |                              |
| PCB-1016 (Aroclor 1016)                             |                             | <0.615           |                              |                              |
| PCB-1221 (Aroclor 1221)                             |                             | <0.615           |                              |                              |
| PCB-1232 (Aroclor 1232)                             |                             | <0.615           |                              |                              |
| PCB-1242 (Aroclor 1242)                             |                             | <0.615           |                              |                              |
| PCB-1248 (Aroclor 1248)                             |                             | <0.615           |                              |                              |
| PCB-1254 (Aroclor 1254)                             |                             | 23.9             |                              |                              |
| PCB-1260 (Aroclor 1260)                             |                             | 5.34             |                              |                              |
| PCB-1262 (Aroclor 1262)                             |                             | <0.615           |                              |                              |
| PCB-1268 (Aroclor 1268)                             |                             | <0.615           |                              |                              |
| Total PCB   |                             | 29.2             |                              |                              |
| <b>Volatile Organic Compounds, TCLP (mg/L, ppm)</b> |                             |                  |                              |                              |
| Benzene, TCLP                                       |                             | See Note 2       | < 0.050                      | < 0.050                      |
| Percent Moisture (%)                                |                             | 46.3             |                              |                              |

**Table Notes:**

<sup>1</sup> Sample from the stockpile collected after conditioning to reduce VOCs.

<sup>2</sup> This VOC TCLP result is from a sample collected prior to conditioning the stockpiles to reduce VOCs. It has been superseded by the VOC TCLP results of samples collected after conditioning the stockpiles to reduce VOCs. See results for Stockpiles D9 3-1 003-1 & D9 3-1 003-2 (collected on 09/08/2010).  
--- = Sample not analyzed for this constituent.

**Data Notes:**

Data tabulated by R. McLoughlin of WESTON on 09/14/2010.  
Data tabulation QA'd by J. Savage of WESTON on 09/15/2010.

Analytical data provided in Pace Analytical Services data package #10135496 & #10137533.



Table 18: Soil Block D9 3-3 Stockpiles 001-1 and 001-2 Sampling Results  
Cottage Grove Site

| Stockpile Manifest ID:                              | Stockpile 001<br>D9 3-3 001-1 & D9 3-3 001-2 | Stockpile 001-1 <sup>1</sup><br>D9 3-3 001-1 | Stockpile 001-2 <sup>2</sup><br>D9 3-3 001-2 |
|---|--|--|--|
| Sample Type:<br>Block ID:                           | Composite<br>D9 3-3                          | Composite<br>D9 3-3                          | Composite<br>D9 3-3                          |
| Sample ID:<br>Laboratory ID:                        | CGMN-ESC-D9303001A-0-100817<br>10135995004   | CGMN-ESC-D9303001D-0-100908<br>10137533006   | CGMN-ESC-D9303001E-0-100908<br>10137533007   |
| Sample Date & Time:                                 | 08/17/2010 16:26                             | 09/08/2010 09:50                             | 09/08/2010 11:33                             |
| <b>Polychlorinated Biphenyls (mg/kg, ppm)</b>       |  |  |  |
| PCB-1016 (Aroclor 1016)                             | < 0.855                                      | ---  | ---  |
| PCB-1221 (Aroclor 1221)                             | < 0.855                                      | ---  | ---  |
| PCB-1232 (Aroclor 1232)                             | < 0.855                                      | ---  | ---  |
| PCB-1242 (Aroclor 1242)                             | < 0.855                                      | ---  | ---  |
| PCB-1248 (Aroclor 1248)                             | < 0.855                                      | ---  | ---  |
| PCB-1254 (Aroclor 1254)                             | 83.5   | ---  | ---  |
| PCB-1260 (Aroclor 1260)                             | 8.59   | ---  | ---  |
| PCB-1262 (Aroclor 1262)                             | < 0.855                                      | ---  | ---  |
| PCB-1268 (Aroclor 1268)                             | < 0.855                                      | ---  | ---  |
| Total PCBs  | 92.1   | ---  | ---  |
| <b>Volatile Organic Compounds, TCLP (mg/L, ppm)</b> |  |  |  |
| Benzene, TCLP                                       | See Note 2                                   | < 0.050                                      | < 0.050                                      |
| Percent Moisture (%)                                | 61.6   | ---  | ---  |

**Table Notes:**

- <sup>1</sup> Sample from the stockpile collected after conditioning the stockpile with Lime Kiln Dust (LKD) to reduce VOCs.
- <sup>2</sup> This VOC TCLP result is from a sample collected prior to conditioning the stockpiles to reduce VOCs. It has been superseded by the VOC TCLP results of samples collected after conditioning the stockpiles to reduce VOCs. See results for Stockpiles D9 3-3 001-1 & D9 3-3 001-2 (collected on 09/08/2010).
- = Sample not analyzed for this constituent.

**Data Notes:**

Data tabulated by R. McLoughlin of WESTON on 09/14/2010.  
Data tabulation QA'd by J. Savage of WESTON on 09/15/2010.  
Analytical data provided in Pace Analytical Services data package #10135995 & #10137533.



Table 19: Soil Block D9 3-3 Stockpiles 002-1 and 002-2 Sampling Results  
Cottage Grove Site

| Stockpile Manifest ID:                              | Stockpile 002<br>D9 3-3 002-1 & D9 3-3 002-2 | Stockpile 002-1 <sup>1</sup><br>D9 3-3 002-1 | Stockpile 002-2 <sup>1</sup><br>D9 3-3 002-2 |
|---|--|--|--|
| Sample Type:  | Composite                                    | Composite                                    | Composite                                    |
| Block ID:   | D9 3-3                                       | D9 3-3                                       | D9 3-3                                       |
| Sample ID:  | CGMN-ESC-D9303002A-0-100817                  | CGMN-ESC-D9303002D-0-100908                  | CGMN-ESC-D9303002E-0-100908                  |
| Laboratory ID:                                      | 10135995005                                  | 10137533008                                  | 10137533009                                  |
| Sample Date & Time:                                 | 08/17/2010 16:30                             | 09/08/2010 11:30                             | 09/08/2010 11:28                             |
| <b>Polychlorinated Biphenyls (mg/kg, ppm)</b>       |  |  |  |
| PCB-1016 (Aroclor 1016)                             | < 0.697                                      |  |  |
| PCB-1221 (Aroclor 1221)                             | < 0.697                                      |  |  |
| PCB-1232 (Aroclor 1232)                             | < 0.697                                      |  |  |
| PCB-1242 (Aroclor 1242)                             | < 0.697                                      |  |  |
| PCB-1248 (Aroclor 1248)                             | < 0.697                                      |  |  |
| PCB-1254 (Aroclor 1254)                             | 40.8   |  |  |
| PCB-1260 (Aroclor 1260)                             | 4.35   |  |  |
| PCB-1262 (Aroclor 1262)                             | < 0.697                                      |  |  |
| PCB-1268 (Aroclor 1268)                             | < 0.697                                      |  |  |
| Total PCBs  | 45.2   |  |  |
| <b>Volatile Organic Compounds, TCLP (mg/L, ppm)</b> |  |  |  |
| Benzene, TCLP                                       | See Note 2                                   |  | < 0.050                                      |
| Percent Moisture (%)                                |  |  | < 0.050                                      |
| Percent Moisture                                    | 52.7   |  |  |

**Table Notes:**

- <sup>1</sup> Sample from the stockpile collected after conditioning the stockpile with Lime Kiln Dust (LKD) to reduce VOCs.
- <sup>2</sup> This VOC TCLP result is from a sample collected prior to conditioning the stockpiles to reduce VOCs. It has been superseded by the VOC TCLP results of samples collected after conditioning the stockpiles to reduce VOCs. See results for Stockpiles D9 3-3 002-1 & D9 3-3 002-2 (collected on 09/08/2010).
- = Sample not analyzed for this constituent.

**Data Notes:**

Data tabulated by R. McLoughlin of WESTON on 09/14/2010.  
Data tabulation QA'd by J. Savage of WESTON on 09/15/2010.  
Analytical data provided in Pace Analytical Services data package #10135995 & #10137533.



Table 20: Soil Block D9 3-3 Stockpiles 004-1 and 004-2 Sampling Results  
Cottage Grove Site

| Stockpile Manifest ID:                              | Stockpile 004<br>D9 3-3 004-1 & D9 3-3 004-2 | Stockpile 004-1 <sup>1</sup><br>D9 3-3 004-1 | Stockpile 004-2 <sup>1</sup><br>D9 3-3 004-2 |
|---|--|--|--|
| Sample Type:<br>Block ID:                           | Composite<br>D9 3-3                          | Composite<br>D9 3-3                          | Composite<br>D9 3-3                          |
| Sample ID:<br>Laboratory ID:                        | CGMN-ESC-D9303004A-0-100819<br>10136152003   | CGMN-ESC-D9303004D-0-100908<br>10137533010   | CGMN-ESC-D9303004E-0-100908<br>10137533011   |
| Sample Date & Time:                                 | 08/19/2010 11:42                             | 09/08/2010 09:44                             | 09/08/2010 09:38                             |
| <b>Polychlorinated Biphenyls (mg/kg, ppm)</b>       |  |  |  |
| PCB-1016 (Aroclor 1016)                             | < 0.793                                      | ---  | ---  |
| PCB-1221 (Aroclor 1221)                             | < 0.793                                      | ---  | ---  |
| PCB-1232 (Aroclor 1232)                             | < 0.793                                      | ---  | ---  |
| PCB-1242 (Aroclor 1242)                             | < 0.793                                      | ---  | ---  |
| PCB-1248 (Aroclor 1248)                             | < 0.793                                      | ---  | ---  |
| PCB-1254 (Aroclor 1254)                             | 93.8   | ---  | ---  |
| PCB-1260 (Aroclor 1260)                             | 9.16   | ---  | ---  |
| PCB-1262 (Aroclor 1262)                             | < 0.793                                      | ---  | ---  |
| PCB-1268 (Aroclor 1268)                             | < 0.793                                      | ---  | ---  |
| Total PCBs  | 103  | ---  | ---  |
| <b>Volatile Organic Compounds, TCLP (mg/L, ppm)</b> |  |  |  |
| Benzene, TCLP                                       | See Note 2                                   | < 0.050                                      | < 0.050                                      |
| Percent Moisture (%)                                | 58.4   | ---  | ---  |

**Table Notes:**

- <sup>1</sup> Sample from the stockpile collected after conditioning the stockpile with Lime Kiln Dust (LKD) to reduce VOCs.
- <sup>2</sup> This VOC TCLP result is from a sample collected prior to conditioning the stockpiles to reduce VOCs. It has been superseded by the VOC TCLP results of samples collected after conditioning the stockpiles to reduce VOCs. See results for Stockpiles D9 3-3 004-1 & D9 3-3 004-2 (collected on 09/08/2010).  
--- = Sample not analyzed for this constituent.

**Data Notes:**

Data tabulated by R. McLoughlin of WESTON on 09/14/2010.  
Data tabulation QA'd by J. Savage of WESTON on 09/15/2010.  
Analytical data provided in Pace Analytical Services data package #10136152 & #10137533.



Table 21: Soil Block D9 3-3 Stockpiles 005-1 and 005-2 Sampling Results  
Cottage Grove Site

| Stockpile Manifest ID:                              | Stockpile 005               | Stockpile 005-1 <sup>1</sup> | Stockpile 005-2 <sup>1</sup> |
|---|-----------------------------|------------------------------|------------------------------|
| Sample Type:  | D9 3-3 005-1 & D9 3-3 005-2 | D9 3-3 005-1                 | D9 3-3 005-2                 |
| Block ID:   | Composite                   | Composite                    | Composite                    |
| Sample ID:  | D9 3-3                      | D9 3-3                       | D9 3-3                       |
| Laboratory ID:                                      | CGMN-ESC-D9303005A-0-100819 | CGMN-ESC-D9303005D-0-100908  | CGMN-ESC-D9303005E-0-100908  |
| Sample Date & Time:                                 | 10136152004                 | 10137533012                  | 10137533013                  |
|   | 08/19/2010 11:48            | 09/08/2010 11:25             | 09/08/2010 11:23             |
| <b>Polychlorinated Biphenyls (mg/kg, ppm)</b>       |                             |                              |                              |
| PCB-1016 (Aroclor 1016)                             | < 0.763                     | ---                          | ---                          |
| PCB-1221 (Aroclor 1221)                             | < 0.763                     | ---                          | ---                          |
| PCB-1232 (Aroclor 1232)                             | < 0.763                     | ---                          | ---                          |
| PCB-1242 (Aroclor 1242)                             | < 0.763                     | ---                          | ---                          |
| PCB-1248 (Aroclor 1248)                             | < 0.763                     | ---                          | ---                          |
| PCB-1254 (Aroclor 1254)                             | 70.4                        | ---                          | ---                          |
| PCB-1260 (Aroclor 1260)                             | 6.87                        | ---                          | ---                          |
| PCB-1262 (Aroclor 1262)                             | < 0.763                     | ---                          | ---                          |
| PCB-1268 (Aroclor 1268)                             | < 0.763                     | ---                          | ---                          |
| Total PCBs  | 77.3                        | ---                          | ---                          |
| <b>Volatile Organic Compounds, TCLP (mg/L, ppm)</b> |                             |                              |                              |
| Benzene, TCLP                                       | See Note 2                  | < 0.050                      | < 0.050                      |
| Percent Moisture (%)                                | 56.7                        | ---                          | ---                          |

**Table Notes:**

- <sup>1</sup> Sample from the stockpile collected after conditioning the stockpile with Lime Kiln Dust (LKD) to reduce VOCs.
- <sup>2</sup> This VOC TCLP result is from a sample collected prior to conditioning the stockpiles to reduce VOCs. It has been superseded by the VOC TCLP results of samples collected after conditioning the stockpiles to reduce VOCs. See results for Stockpiles D9 3-3 005-1 & D9 3-3 005-2 (collected on 09/08/2010).
- = Sample not analyzed for this constituent.

**Data Notes:**

Data tabulated by R. McLoughlin of WESTON on 09/14/2010.  
Data tabulation QA'd by J. Savage of WESTON on 09/15/2010.  
Analytical data provided in Pace Analytical Services data package #10136152 & #10137533.



Table 22: Soil Block D9 3-6 Stockpiles 001-1 and 001-2 Sampling Results  
Cottage Grove Site

| Stockpile Manifest ID:<br>Sample Type:<br>Block ID:<br>Sample ID:<br>Laboratory ID:<br>Sample Date & Time: | Stockpile 001                                      |                               | Stockpile 001-1 <sup>1</sup>                    |   | Stockpile 001-2 <sup>1</sup>        |                                     |
|--|--|-------------------------------|---|---|-------------------------------------|-------------------------------------|
|  | D9 3-6 001-1 & D9 3-6 001-2<br>Composite<br>D9 3-6 | D9 3-6<br>Composite<br>D9 3-6 | D9 3-6 001-1<br>Composite - Duplicate<br>D9 3-6 | D9 3-6 001-1<br>Composite - Duplicate<br>D9 3-6 | D9 3-6 001-2<br>Composite<br>D9 3-6 | D9 3-6 001-2<br>Composite<br>D9 3-6 |
|  | CGMN-ESC-D9306001A-0-100817                        | CGMN-ESC-D9306001D-0-100908   | CGMN-ESC-D9306001D-DB-100908                    | CGMN-ESC-D9306001D-DB-100908                    | CGMN-ESC-D9306001E-0-100908         | CGMN-ESC-D9306001E-0-100908         |
|  | 10135955001  | 10137533014                   | 10137533014                                     | 10137533015                                     | 10137533016                         | 10137533016                         |
|  | 08/17/2010 16:22                                   | 09/08/2010 09:32              | 09/08/2010 09:32                                | 09/08/2010 09:32                                | 09/08/2010 09:27                    | 09/08/2010 09:27                    |
| <b>Polychlorinated Biphenyls (mg/kg, ppm)</b>  |  |                               |   |   |                                     |                                     |
| PCE-1016 (Aroclor 1016)  | <0.629   | <0.629                        | <0.629  | <0.629  | <0.629                              | <0.629                              |
| PCE-1221 (Aroclor 1221)  | <0.629   | <0.629                        | <0.629  | <0.629  | <0.629                              | <0.629                              |
| PCE-1232 (Aroclor 1232)  | <0.629   | <0.629                        | <0.629  | <0.629  | <0.629                              | <0.629                              |
| PCE-1242 (Aroclor 1242)  | <0.629   | <0.629                        | <0.629  | <0.629  | <0.629                              | <0.629                              |
| PCE-1248 (Aroclor 1248)  | <0.629   | <0.629                        | <0.629  | <0.629  | <0.629                              | <0.629                              |
| PCE-1254 (Aroclor 1254)  | 47.0   | 47.0                          | 47.0  | 47.0  | 47.0                                | 47.0                                |
| PCE-1260 (Aroclor 1260)  | 5.36   | 5.36                          | 5.36  | 5.36  | 5.36                                | 5.36                                |
| PCE-1262 (Aroclor 1262)  | <0.629   | <0.629                        | <0.629  | <0.629  | <0.629                              | <0.629                              |
| PCE-1268 (Aroclor 1268)  | <0.629   | <0.629                        | <0.629  | <0.629  | <0.629                              | <0.629                              |
| Total PCBs   | 52.4   | 52.4                          | 52.4  | 52.4  | 52.4                                | 52.4                                |
| <b>Volatile Organic Compounds, TCLP (mg/L, ppm)</b>  |  |                               |   |   |                                     |                                     |
| Benzene, TCLP  | See Note 2   | See Note 2                    | See Note 2                                      | See Note 2                                      | See Note 2                          | See Note 2                          |
| Metals, TCLP (mg/L, ppm)   |  |                               |   |   |                                     |                                     |
| Lead, TCLP   | <0.015   | <0.015                        | <0.015  | <0.015  | <0.015                              | <0.015                              |
| Mercury, TCLP  | <0.0008  | <0.0008                       | <0.0008   | <0.0008   | <0.0008                             | <0.0008                             |
| Percent Moisture (%)   |  |                               |   |   |                                     |                                     |
| Percent Moisture   | 47.6   | 47.6                          | 47.6  | 47.6  | 47.6                                | 47.6                                |

**Table Notes:**

- <sup>1</sup> Sample from the stockpile collected after conditioning the stockpile with Lime Kiln Dust (LKD) to reduce VOCs.
- <sup>2</sup> This VOC TCLP result is from a sample collected prior to conditioning the stockpiles to reduce VOCs. It has been superseded by the VOC TCLP results of samples collected after conditioning the stockpiles to reduce VOCs. See results for Stockpiles D9 3-6 001-1 & D9 3-6 001-2 (collected on 09/08/2010).
- = Sample not analyzed for this constituent.

**Data Notes:**

- Data tabulated by R. Mcloughlin of WESTON on 09/14/2010.
- Data tabulation QA'd by J. Savage of WESTON on 09/15/2010.
- Analytical data provided in Pace Analytical Services data package #10135955 & #10137533.



Table 23: Soil Block D9 3-6 Stockpiles 002-1 and 002-2 Sampling Results  
Cottage Grove Site

| Stockpile Manifest ID:<br>Sample Type:<br>Block ID:<br>Sample ID:<br>Laboratory ID:<br>Sample Date & Time: | Stockpile 002                                      |   | Stockpile 002-1 <sup>1</sup>  | Stockpile 002-2 <sup>1</sup>  |
|--|--|---|---|---|
|  | D9 3-6 002-1 & D9 3-6 002-2<br>Composite<br>D9 3-6 | D9 3-6<br>CGMN-ESC-D9306002A-0-100817<br>101359595002 | D9 3-6 002-1<br>Composite<br>D9 3-6<br>CGMN-ESC-D9306002D-0-100908<br>10137533017 | D9 3-6 002-2<br>Composite<br>D9 3-6<br>CGMN-ESC-D9306002E-0-100908<br>10137533018 |
| <b>Polychlorinated Biphenyls (mg/kg, ppm)</b>  |  | 08/17/2010 16:14                                      | 09/08/2010 09:23  | 09/08/2010 09:18  |
| PCB-1016 (Aroclor 1016)  | < 0.751  |   |   |   |
| PCB-1221 (Aroclor 1221)  | < 0.751  |   |   |   |
| PCB-1232 (Aroclor 1232)  | < 0.751  |   |   |   |
| PCB-1242 (Aroclor 1242)  | < 0.751  |   |   |   |
| PCB-1248 (Aroclor 1248)  | < 0.751  |   |   |   |
| PCB-1254 (Aroclor 1254)  | 166  |   |   |   |
| PCB-1260 (Aroclor 1260)  | 16.1   |   |   |   |
| PCB-1262 (Aroclor 1262)  | < 0.751  |   |   |   |
| PCB-1268 (Aroclor 1268)  | < 0.751  |   |   |   |
| Total PCBs   | 182  |   |   |   |
| <b>Volatile Organic Compounds, TCLP (mg/L, ppm)</b>  |  |   |   |   |
| Benzene, TCLP  | See Note 2   |   | < 0.050   | < 0.050   |
| <b>Metals, TCLP (mg/L, ppm)</b>  |  |   |   |   |
| Lead, TCLP   | < 0.015  |   |   |   |
| Mercury, TCLP  | < 0.0008   |   |   |   |
| <b>Percent Moisture (%)</b>  |  |   |   |   |
| Percent Moisture   | 56.2   |   |   |   |

**Table Notes:**

- <sup>1</sup> Sample from the stockpile collected after conditioning the stockpile with Lime Kiln Dust (LKD) to reduce VOCs.
- <sup>2</sup> This VOC TCLP result is from a sample collected prior to conditioning the stockpiles to reduce VOCs. It has been superseded by the VOC TCLP results of samples collected after conditioning the stockpiles to reduce VOCs. See results for Stockpiles D9 3-6 002-1 & D9 3-6 002-2 (collected on 09/08/2010).  
--- = Sample not analyzed for this constituent.

**Data Notes:**

Data tabulated by R. McLoughlin of WESTON on 09/14/2010.  
Data tabulation QA'd by J. Savage of WESTON on 09/15/2010.  
Analytical data provided in Pace Analytical Services data package #101359595 & #101375333.



Table 24: Soil Block D9 3-6 Stockpiles 003-1 and 003-2 Sampling Results  
Cottage Grove Site

| Stockpile Manifest ID:<br>Sample Type:<br>Block ID:<br>Sample ID:<br>Laboratory ID:<br>Sample Date & Time: | Stockpile 003               |                             | Stockpile 003-1 <sup>1</sup> | Stockpile 003-2 <sup>2</sup> |
|--|-----------------------------|-----------------------------|------------------------------|------------------------------|
|  | D9 3-6 003-1 & D9 3-6 003-2 | Composite                   | D9 3-6 003-1                 | D9 3-6 003-2                 |
|  | D9 3-6                      | Composite                   | D9 3-6                       | Composite                    |
|  | CGMN-ESC-D9306003A-0-100817 | CGMN-ESC-D9306003D-0-100908 | CGMN-ESC-D9306003E-0-100908  | CGMN-ESC-D9306003E-0-100908  |
|  | 10135995003                 | 10137533019                 | 10137533019                  | 10137533020                  |
|  | 08/17/2010 16:15            | 09/08/2010 09:12            | 09/08/2010 09:07             | 09/08/2010 09:07             |
| <b>Polychlorinated Biphenyls (mg/kg, ppm)</b>  |                             |                             |                              |                              |
| PCB-1016 (Aroclor 1016)  | < 0.835                     |                             |                              |                              |
| PCB-1221 (Aroclor 1221)  | < 0.835                     |                             |                              |                              |
| PCB-1232 (Aroclor 1232)  | < 0.835                     |                             |                              |                              |
| PCB-1242 (Aroclor 1242)  | < 0.835                     |                             |                              |                              |
| PCB-1248 (Aroclor 1248)  | < 0.835                     |                             |                              |                              |
| PCB-1254 (Aroclor 1254)  | 60.5                        |                             |                              |                              |
| PCB-1260 (Aroclor 1260)  | 6.98                        |                             |                              |                              |
| PCB-1262 (Aroclor 1262)  | < 0.835                     |                             |                              |                              |
| PCB-1268 (Aroclor 1268)  | < 0.835                     |                             |                              |                              |
| Total PCBs   | 67.5                        |                             |                              |                              |
| <b>Volatile Organic Compounds, TCLP (mg/L, ppm)</b>  |                             |                             |                              |                              |
| Benzene, TCLP  | See Note 2                  |                             | < 0.050                      | < 0.050                      |
| <b>Metals, TCLP (mg/L, ppm)</b>  |                             |                             |                              |                              |
| Lead, TCLP   |                             |                             | < 0.015                      |                              |
| Mercury, TCLP  |                             |                             | < 0.0008                     |                              |
| <b>Percent Moisture (%)</b>  |                             |                             |                              |                              |
| Percent Moisture   | 60.5                        |                             |                              |                              |

**Table Notes:**

- Sample from the stockpile collected after conditioning the stockpile with Lime Kiln Dust (LKD) to reduce VOCs.
- This VOC TCLP result is from a sample collected prior to conditioning the stockpiles to reduce VOCs. It has been superseded by the VOC TCLP results of samples collected after conditioning the stockpiles to reduce VOCs. See results for Stockpiles D9 3-6 003-1 & D9 3-6 003-2 (collected on 09/08/2010). --- = Sample not analyzed for this constituent.

**Data Notes:**

Data tabulated by R. McLoughlin of WESTON on 09/14/2010.  
Data tabulation QA'd by J. Savage of WESTON on 09/15/2010.  
Analytical data provided in Pace Analytical Services data package #10135995 & #10137533.

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**BACKFILL SAMPLING RESULTS**

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3M\_MN00717027

2318.0156



Table 1: SKB Clean Fill Soils Analytical Data  
July 2009

| Sample ID:   | OKMN-SS-SKB01-0-090723 | OKMN-SS-SKB02-0-090723 | OKMN-SS-SKB03-0-090723 | OKMN-SS-SKB03-DB-090723 | OKMN-SS-SKB04-0-090723 |
|--|------------------------|------------------------|------------------------|-------------------------|------------------------|
| Laboratory ID:                                       | 1099973001             | 1099973002             | 1099973003             | 1099973004              | 1099973005             |
| Sample Date:   | 23-Jul-09              | 23-Jul-09              | 23-Jul-09              | 23-Jul-09               | 23-Jul-09              |
| <b>Volatile Organic Compounds (mg/kg, ppm)</b>       |                        |                        |                        |                         |                        |
| 1,1-Dichloroethane                                   | < 0.202                | < 0.205                | < 0.206                | < 0.206                 | < 0.21                 |
| 1,2-Dichloroethane                                   | < 0.202                | < 0.205                | < 0.206                | < 0.206                 | < 0.21                 |
| 1,4-Dichlorobenzene                                  | < 0.202                | < 0.205                | < 0.206                | < 0.206                 | < 0.21                 |
| 2-Butanone (MEK)                                     | < 0.505                | < 0.513                | < 0.514                | < 0.514                 | < 0.525                |
| Benzene  | < 0.0505               | < 0.0513               | < 0.0514               | < 0.0514                | < 0.0525               |
| Carbon tetrachloride                                 | < 0.202                | < 0.205                | < 0.206                | < 0.206                 | < 0.21                 |
| Chlorobenzene  | < 0.202                | < 0.205                | < 0.206                | < 0.206                 | < 0.21                 |
| Tetrachloroethene                                    | < 0.202                | < 0.205                | < 0.206                | < 0.206                 | < 0.21                 |
| Trichloroethene                                      | < 0.202                | < 0.205                | < 0.206                | < 0.206                 | < 0.21                 |
| Vinyl chloride                                       | < 0.0505               | < 0.0513               | < 0.0514               | < 0.0514                | < 0.0525               |
| <b>Polychlorinated Biphenyls (PCBs) (mg/kg, ppm)</b> |                        |                        |                        |                         |                        |
| PCB-1016 (Aroclor 1016)                              | < 0.034                | < 0.0339               | < 0.0339               | < 0.0339                | < 0.0346               |
| PCB-1221 (Aroclor 1221)                              | < 0.034                | < 0.0339               | < 0.0339               | < 0.0339                | < 0.0346               |
| PCB-1232 (Aroclor 1232)                              | < 0.034                | < 0.0339               | < 0.0339               | < 0.0339                | < 0.0346               |
| PCB-1242 (Aroclor 1242)                              | < 0.034                | < 0.0339               | < 0.0339               | < 0.0339                | < 0.0346               |
| PCB-1248 (Aroclor 1248)                              | < 0.034                | < 0.0339               | < 0.0339               | < 0.0339                | < 0.0346               |
| PCB-1254 (Aroclor 1254)                              | < 0.034                | < 0.0339               | < 0.0339               | < 0.0339                | < 0.0346               |
| PCB-1260 (Aroclor 1260)                              | < 0.034                | < 0.0339               | < 0.0339               | < 0.0339                | < 0.0346               |
| PCB-1262 (Aroclor 1262)                              | < 0.034                | < 0.0339               | < 0.0339               | < 0.0339                | < 0.0346               |
| PCB-1268 (Aroclor 1268)                              | < 0.034                | < 0.0339               | < 0.0339               | < 0.0339                | < 0.0346               |
| <b>Pesticides and Herbicides (mg/kg, ppm)</b>        |                        |                        |                        |                         |                        |
| 1,4-Dichlorobenzene                                  | < 0.34                 | < 0.339                | < 0.339                | < 0.339                 | < 0.346                |
| 2,4,5-Trichlorophenol                                | < 1.75                 | < 1.74                 | < 1.75                 | < 1.75                  | < 1.78                 |
| 2,4,6-Trichlorophenol                                | < 0.34                 | < 0.339                | < 0.339                | < 0.339                 | < 0.346                |
| 2,4-Dinitrotoluene                                   | < 0.34                 | < 0.339                | < 0.339                | < 0.339                 | < 0.346                |
| 2-Methylpheno(p-Cresol)                              | < 0.34                 | < 0.339                | < 0.339                | < 0.339                 | < 0.346                |
| 3&4-Methylphenol                                     | < 0.68                 | < 0.677                | < 0.678                | < 0.678                 | < 0.692                |
| Hexachloro-1,3-butadiene                             | < 0.34                 | < 0.339                | < 0.339                | < 0.339                 | < 0.346                |
| Hexachlorobenzene                                    | < 0.34                 | < 0.339                | < 0.339                | < 0.339                 | < 0.346                |
| Hexachloroethane                                     | < 0.34                 | < 0.339                | < 0.339                | < 0.339                 | < 0.346                |
| Nitrobenzene   | < 0.34                 | < 0.339                | < 0.339                | < 0.339                 | < 0.346                |
| Pentachlorophenol                                    | < 1.75                 | < 1.74                 | < 1.75                 | < 1.75                  | < 1.78                 |
| Pyridine   | < 1.75                 | < 1.74                 | < 1.75                 | < 1.75                  | < 1.78                 |
| <b>Metals (mg/kg, ppm)</b>                           |                        |                        |                        |                         |                        |
| Arsenic  | 3.5                    | 3.5                    | 3.3                    | 2.9                     | 2.3                    |
| Barium   | 14.5                   | 13.4                   | 13.2                   | 10.2                    | 14.2                   |
| Cadmium  | 0.061                  | 0.051                  | 0.22                   |                         | < 0.041                |
| Chromium   | 6.7                    | 4.9                    | 6.5                    | 4.0                     | 3.5                    |
| Lead   | 2.0                    | 1.8                    | 2.0                    | 1.5                     | 1.8                    |
| Selenium   | < 0.72                 | < 0.65                 | < 0.64                 | < 0.61                  | < 0.68                 |
| Silver   | < 0.48                 | < 0.43                 | < 0.43                 | < 0.41                  | < 0.46                 |
| Mercury  | < 0.021                | < 0.018                | < 0.018                | < 0.02                  | < 0.019                |
| Percent Moisture                                     | 2.9                    | 2.5                    | 2.7                    | 2.7                     | 4.7                    |

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Table 2: SKB Topsoil Analytical Data  
September 2009

| Sample ID:   | WBMN-ESC-SKB001A 0 090914 | WBMN-ESC-SKB002A 0 090914 |
|--|---------------------------|---------------------------|
| Laboratory ID:                                       | 10112422001               | 10112422002               |
| Sample Date & Time:                                  | 09/14/2009 16:05          | 09/14/2009 16:40          |
| <b>Volatile Organic Compounds (mg/kg, ppm)</b>       |                           |                           |
| 1,1-Dichloroethene                                   | < 0.0395                  | < 0.0427                  |
| 1,2-Dichloroethane                                   | < 0.0395                  | < 0.0427                  |
| 1,4-Dichlorobenzene                                  | < 0.0395                  | < 0.0427                  |
| 2-Butanone (MEK)                                     | < 0.197                   | < 0.213                   |
| Benzene  | < 0.0395                  | < 0.0427                  |
| Carbon tetrachloride                                 | < 0.0395                  | < 0.0427                  |
| Chlorobenzene  | < 0.0395                  | < 0.0427                  |
| Tetrachloroethene                                    | < 0.0395                  | < 0.0427                  |
| Trichloroethene                                      | < 0.0395                  | < 0.0427                  |
| Vinyl chloride                                       | < 0.0395                  | < 0.0427                  |
| <b>Polychlorinated Biphenyls (PCBs) (mg/kg, ppm)</b> |                           |                           |
| PCB-1016 (Aroclor 1016)                              | < 0.211                   | < 0.207                   |
| PCB-1221 (Aroclor 1221)                              | < 0.211                   | < 0.207                   |
| PCB-1232 (Aroclor 1232)                              | < 0.211                   | < 0.207                   |
| PCB-1242 (Aroclor 1242)                              | < 0.211                   | < 0.207                   |
| PCB-1248 (Aroclor 1248)                              | < 0.211                   | < 0.207                   |
| PCB-1254 (Aroclor 1254)                              | < 0.211                   | < 0.207                   |
| PCB-1260 (Aroclor 1260)                              | < 0.211                   | < 0.207                   |
| PCB-1262 (Aroclor 1262)                              | < 0.211                   | < 0.207                   |
| PCB-1268 (Aroclor 1268)                              | < 0.211                   | < 0.207                   |
| Total PCBs   | < 0.211                   | < 0.207                   |
| <b>Pesticides and Herbicides (mg/kg, ppm)</b>        |                           |                           |
| Chlordane (Technical)                                | < 0.0355                  | < 0.0348                  |
| Endrin   | < 0.0036                  | < 0.0035                  |
| gamma-BHC (Lindane)                                  | < 0.0018                  | < 0.0017                  |
| Heptachlor   | < 0.0018                  | < 0.0017                  |
| Methoxychlor   | < 0.0178                  | < 0.0174                  |
| Toxaphene  | < 0.107                   | < 0.104                   |
| <b>Metals (mg/kg, ppm)</b>                           |                           |                           |
| Arsenic  | 5.0                       | 5.7                       |
| Barium   | 67.5                      | 77.8                      |
| Cadmium  | 0.79                      | 0.97                      |
| Chromium   | 12.3                      | 11.5                      |
| Lead   | 9.9                       | 10.5                      |
| Selenium   | 2.5                       | 2.7                       |
| Silver   | < 0.49                    | < 0.42                    |
| Mercury  | 0.022                     | 0.036                     |
| <b>Percent Moisture (%)</b>                          |                           |                           |
| Percent Moisture                                     | 6.2                       | 4.3                       |

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**PAINT FILTER TEST SAMPLING RESULTS**

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3M\_MN00717030

2318.0159



**D9 Area Excavation Paint Filter Free Liquids Test and pH Results  
Cottage Grove Site**

| Sample ID                    | Sample Date | Sample Time | Sample No. | LKD Added (Y/N) | Paint Filter Free Liquids (mL/5 min) | pH  |
|------------------------------|-------------|-------------|------------|-----------------|--------------------------------------|-----|
| <b>Soil Block: D9 1-1</b>    |             |             |            |                 |                                      |     |
| CGMN-ESC-D9101PF1A-0-100701  | 01-Jul-10   | 9:49        | 1A         | N               | ND                                   | 7.7 |
| <b>Soil Block: D9 1-2</b>    |             |             |            |                 |                                      |     |
| CGMN-ESC-D9102PF1A-0-100701  | 01-Jul-10   | 9:46        | 1A         | N               | ND                                   | 7.4 |
| <b>Soil Block: D9 1-3</b>    |             |             |            |                 |                                      |     |
| CGMN-ESC-D9103PF1A-0-100701  | 01-Jul-10   | 10:05       | 1A         | N               | ND                                   | 8.4 |
| <b>Soil Block: D9 1-4</b>    |             |             |            |                 |                                      |     |
| CGMN-ESC-D9104PF1A-0-100701  | 01-Jul-10   | 9:42        | 1A         | N               | ND                                   | 7.4 |
| <b>Soil Block: D9 1-5</b>    |             |             |            |                 |                                      |     |
| CGMN-ESC-D9105PF1A-0-100701  | 01-Jul-10   | 10:12       | 1A         | N               | ND                                   | 7.6 |
| <b>Soil Block: D9 1-6</b>    |             |             |            |                 |                                      |     |
| CGMN-ESC-D9106PF1A-0-100701  | 01-Jul-10   | 10:08       | 1A         | N               | ND                                   | 7.4 |
| <b>Soil Block: D9 1-7</b>    |             |             |            |                 |                                      |     |
| CGMN-ESC-D9107PF1A-0-100701  | 01-Jul-10   | 10:15       | 1A         | N               | ND                                   | 7.2 |
| <b>Soil Block: D9 1-8</b>    |             |             |            |                 |                                      |     |
| CGMN-ESC-D9108PF1A-0-100701  | 01-Jul-10   | 9:51        | 1A         | N               | ND                                   | 7.4 |
| <b>Soil Block: D9 1-9</b>    |             |             |            |                 |                                      |     |
| CGMN-ESC-D9109PF1A-0-100701  | 01-Jul-10   | 9:59        | 1A         | N               | ND                                   | 7.0 |
| <b>Soil Block: D9 1-10</b>   |             |             |            |                 |                                      |     |
| CGMN-ESC-D9110PF1A-0-100701  | 01-Jul-10   | 10:18       | 1A         | N               | ND                                   | 6.5 |
| CGMN-ESC-D9110PF1A-DB-100701 | 01-Jul-10   | 10:18       | 1A (DB)    | N               | ND                                   | 6.8 |
| <b>Soil Block: D9 2-1</b>    |             |             |            |                 |                                      |     |
| CGMN-ESC-D9201PF1A-0-100721  | 21-Jul-10   | 8:35        | 1A         | N               | ND                                   | 8.0 |
| <b>Soil Block: D9 2-2</b>    |             |             |            |                 |                                      |     |
| CGMN-ESC-D9202PF1A-0-100721  | 21-Jul-10   | 8:40        | 1A         | N               | ND                                   | 7.2 |
| <b>Soil Block: D9 2-3</b>    |             |             |            |                 |                                      |     |
| CGMN-ESC-D9203PF1A-0-100721  | 21-Jul-10   | 8:45        | 1A         | N               | ND                                   | 8.0 |
| <b>Soil Block: D9 2-4</b>    |             |             |            |                 |                                      |     |
| CGMN-ESC-D9204PF1A-0-100721  | 21-Jul-10   | 8:48        | 1A         | N               | ND                                   | 8.0 |
| <b>Soil Block: D9 2-5</b>    |             |             |            |                 |                                      |     |
| CGMN-ESC-D9205PF1A-0-100721  | 21-Jul-10   | 8:52        | 1A         | N               | ND                                   | 7.4 |
| CGMN-ESC-D9205PF1A-DB-100721 | 21-Jul-10   | 8:52        | 1A (DB)    | N               | ND                                   | 7.4 |
| <b>Soil Block: D9 2-6</b>    |             |             |            |                 |                                      |     |
| CGMN-ESC-D9206PF1A-0-100721  | 21-Jul-10   | 8:56        | 1A         | N               | ND                                   | 8.0 |
| <b>Soil Block: D9 2-7</b>    |             |             |            |                 |                                      |     |
| CGMN-ESC-D9207PF1A-0-100721  | 21-Jul-10   | 9:00        | 1A         | N               | ND                                   | 7.1 |
| <b>Soil Block: D9 2-8</b>    |             |             |            |                 |                                      |     |
| CGMN-ESC-D9208PF1A-0-100721  | 21-Jul-10   | 9:04        | 1A         | N               | ND                                   | 7.6 |
| <b>Soil Block: D9 2-9</b>    |             |             |            |                 |                                      |     |
| CGMN-ESC-D9209PF1A-0-100721  | 21-Jul-10   | 9:09        | 1A         | N               | ND                                   | 6.9 |
| <b>Soil Block: D9 3-1</b>    |             |             |            |                 |                                      |     |
| CGMN-ESC-D9301PF1A-0-100805  | 05-Aug-10   | 11:36       | 1A         | N               | ND                                   | 6.9 |
| <b>Soil Block: D9 3-2</b>    |             |             |            |                 |                                      |     |
| CGMN-ESC-D9302PF1A-0-100805  | 05-Aug-10   | 11:40       | 1A         | N               | ND                                   | 6.9 |



D9 Area Excavation Paint Filter Free Liquids Test and pH Results  
Cottage Grove Site

| Sample ID                    | Sample Date | Sample Time | Sample No. | LKD Added (Y/N) | Paint Filter Free Liquids (mL/5 min) | pH  |
|------------------------------|-------------|-------------|------------|-----------------|--------------------------------------|-----|
| <b>Soil Block: D9 3-3</b>    |             |             |            |                 |                                      |     |
| CGMN-ESC-D9303PF1A-0-100805  | 05-Aug-10   | 11:15       | 1A         | N               | ND                                   | 6.7 |
| CGMN-ESC-D9303PF1A-DB-100805 | 05-Aug-10   | 11:15       | 1A (DB)    | N               | ND                                   | 6.8 |
| <b>Soil Block: D9 3-4</b>    |             |             |            |                 |                                      |     |
| CGMN-ESC-D9304PF1A-0-100805  | 05-Aug-10   | 11:31       | 1A         | N               | ND                                   | 7.2 |
| <b>Soil Block: D9 3-5</b>    |             |             |            |                 |                                      |     |
| CGMN-ESC-D9305PF1A-0-100805  | 05-Aug-10   | 11:18       | 1A         | N               | ND                                   | 7.8 |
| <b>Soil Block: D9 3-6</b>    |             |             |            |                 |                                      |     |
| CGMN-ESC-D9306PF1A-0-100805  | 05-Aug-10   | 11:27       | 1A         | N               | ND                                   | 7.6 |
| <b>Soil Block: D9 3-7</b>    |             |             |            |                 |                                      |     |
| CGMN-ESC-D9307PF1A-0-100805  | 05-Aug-10   | 11:24       | 1A         | N               | ND                                   | 6.7 |

**Notes:**

"A" samples collected prior to addition of Lime Kiln Dust to soils.  
"B" samples collected after the addition of Lime Kiln Dust to soils.  
ND = Not detected at or above the reporting limit (RL) of 1 mL.  
LKD = Lime Kiln Dust.  
DB = Field duplicate sample.

# Appendix E

Appendix E

3M\_MN00717033

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**APPENDIX E**  
**CONSTRUCTION DOCUMENTATION**

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**APPENDIX E-1**  
**LANDFILL LOAD ACCEPTANCE SUMMARIES**

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3M\_MN00717035

2318.0164

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**EQ LOAD ACCEPTANCE SUMMARIES**

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Approval: F104077WDI  
 Receipt Status: All  
 Trans Mode (Inbound/Outbound): Both  
 Bulk Mode (Bulk/Non-Bulk): Both

# Receipt List

Wayne Disposal, Inc.  
 1 Wayne Disposal, Inc.

| Receipt ID | Manifest/BOL / Customer | Generator          | Waste Stream                  | Approval / Product<br>TSDF Approval | Waste<br>Code | Bill Unit | Quantity | Rec.Status | Fpr. Status /<br>Outbound | Date      |
|------------|-------------------------|--------------------|-------------------------------|-------------------------------------|---------------|-----------|----------|------------|---------------------------|-----------|
| 1188520-1  | 007755458JJK 3260       | 3M - COTTAGE GROVE | MND006172969 3M COTTAGE GROVE | F104077WDI                          | PCB1          | TONS      | 23.77    | Accepted   | Accepted                  | 8/24/2010 |
| 1188624-1  | 007755455JJK 3260       | 3M - COTTAGE GROVE | MND006172969 3M COTTAGE GROVE | F104077WDI                          | PCB1          | TONS      | 23.14    | Accepted   | Accepted                  | 8/25/2010 |
| 1188629-1  | 007755452JJK 3260       | 3M - COTTAGE GROVE | MND006172969 3M COTTAGE GROVE | F104077WDI                          | PCB1          | TONS      | 23.62    | Accepted   | Accepted                  | 8/25/2010 |
| 1188656-1  | 007755454JJK 3260       | 3M - COTTAGE GROVE | MND006172969 3M COTTAGE GROVE | F104077WDI                          | PCB1          | TONS      | 23.60    | Accepted   | Accepted                  | 8/26/2010 |
| 1188657-1  | 007755451JJK 3260       | 3M - COTTAGE GROVE | MND006172969 3M COTTAGE GROVE | F104077WDI                          | PCB1          | TONS      | 23.49    | Accepted   | Accepted                  | 8/26/2010 |
| 1188660-1  | 007755456JJK 3260       | 3M - COTTAGE GROVE | MND006172969 3M COTTAGE GROVE | F104077WDI                          | PCB1          | TONS      | 23.67    | Accepted   | Accepted                  | 8/26/2010 |
| 1188662-1  | 007755453JJK 3260       | 3M - COTTAGE GROVE | MND006172969 3M COTTAGE GROVE | F104077WDI                          | PCB1          | TONS      | 23.50    | Accepted   | Accepted                  | 8/26/2010 |
| 1188753-1  | 007755457JJK 3260       | 3M - COTTAGE GROVE | MND006172969 3M COTTAGE GROVE | F104077WDI                          | PCB1          | TONS      | 23.28    | Accepted   | Accepted                  | 8/30/2010 |
| 1188909-1  | 007755459JJK 3260       | 3M - COTTAGE GROVE | MND006172969 3M COTTAGE GROVE | F104077WDI                          | PCB1          | TONS      | 20.90    | Accepted   | Accepted                  | 9/2/2010  |
| 1188915-1  | 007755460JJK 3260       | 3M - COTTAGE GROVE | MND006172969 3M COTTAGE GROVE | F104077WDI                          | PCB1          | TONS      | 22.59    | Accepted   | Accepted                  | 9/2/2010  |
| 1188929-1  | 007755461JJK 3260       | 3M - COTTAGE GROVE | MND006172969 3M COTTAGE GROVE | F104077WDI                          | PCB1          | TONS      | 22.28    | Accepted   | Accepted                  | 9/2/2010  |
| 1188946-1  | 007755463JJK 3260       | 3M - COTTAGE GROVE | MND006172969 3M COTTAGE GROVE | F104077WDI                          | PCB1          | TONS      | 22.55    | Accepted   | Accepted                  | 9/3/2010  |
| 1188959-1  | 007755464JJK 3260       | 3M - COTTAGE GROVE | MND006172969 3M COTTAGE GROVE | F104077WDI                          | PCB1          | TONS      | 22.76    | Accepted   | Accepted                  | 9/3/2010  |
| 1188975-1  | 007755465JJK 3260       | 3M - COTTAGE GROVE | MND006172969 3M COTTAGE GROVE | F104077WDI                          | PCB1          | TONS      | 22.41    | Accepted   | Accepted                  | 9/7/2010  |
| 1189033-1  | 007755462JJK 3260       | 3M - COTTAGE GROVE | MND006172969 3M COTTAGE GROVE | F104077WDI                          | PCB1          | TONS      | 22.52    | Accepted   | Accepted                  | 9/7/2010  |
| 1189116-1  | 007755469JJK 3260       | 3M - COTTAGE GROVE | MND006172969 3M COTTAGE GROVE | F104077WDI                          | PCB1          | TONS      | 24.20    | Accepted   | Accepted                  | 9/9/2010  |
| 1189125-1  | 007755471JJK 3260       | 3M - COTTAGE GROVE | MND006172969 3M COTTAGE GROVE | F104077WDI                          | PCB1          | TONS      | 21.42    | Accepted   | Accepted                  | 9/9/2010  |
| 1189126-1  | 007755467JJK 3260       | 3M - COTTAGE GROVE | MND006172969 3M COTTAGE GROVE | F104077WDI                          | PCB1          | TONS      | 23.37    | Accepted   | Accepted                  | 9/9/2010  |
| 1189128-1  | 007755470JJK 3260       | 3M - COTTAGE GROVE | MND006172969 3M COTTAGE GROVE | F104077WDI                          | PCB1          | TONS      | 22.62    | Accepted   | Accepted                  | 9/9/2010  |
| 1189218-1  | 007755468JJK 3260       | 3M - COTTAGE GROVE | MND006172969 3M COTTAGE GROVE | F104077WDI                          | PCB1          | TONS      | 23.39    | Accepted   | Accepted                  | 9/13/2010 |
| 1189219-1  | 007755466JJK 3260       | 3M - COTTAGE GROVE | MND006172969 3M COTTAGE GROVE | F104077WDI                          | PCB1          | TONS      | 22.30    | Accepted   | Accepted                  | 9/13/2010 |
| 1189628-1  | 007755472JJK 3260       | 3M - COTTAGE GROVE | MND006172969 3M COTTAGE GROVE | F104077WDI                          | PCB1          | TONS      | 22.56    | Accepted   | Accepted                  | 9/22/2010 |
| 1189888-1  | 007755476JJK 3260       | 3M - COTTAGE GROVE | MND006172969 3M COTTAGE GROVE | F104077WDI                          | PCB1          | TONS      | 23.02    | Accepted   | Accepted                  | 9/22/2010 |
| 1189727-1  | 007755478JJK 3260       | 3M - COTTAGE GROVE | MND006172969 3M COTTAGE GROVE | F104077WDI                          | PCB1          | TONS      | 23.30    | Accepted   | Accepted                  | 9/23/2010 |
| 1189752-1  | 007755480JJK 3260       | 3M - COTTAGE GROVE | MND006172969 3M COTTAGE GROVE | F104077WDI                          | PCB1          | TONS      | 22.26    | Accepted   | Accepted                  | 9/23/2010 |
| 1189754-1  | 007755477JJK 3260       | 3M - COTTAGE GROVE | MND006172969 3M COTTAGE GROVE | F104077WDI                          | PCB1          | TONS      | 22.23    | Accepted   | Accepted                  | 9/23/2010 |
| 1189791-1  | 007755481JJK 3260       | 3M - COTTAGE GROVE | MND006172969 3M COTTAGE GROVE | F104077WDI                          | PCB1          | TONS      | 23.19    | Accepted   | Accepted                  | 9/24/2010 |
| 1189811-1  | 007755474JJK 3260       | 3M - COTTAGE GROVE | MND006172969 3M COTTAGE GROVE | F104077WDI                          | PCB1          | TONS      | 23.51    | Accepted   | Accepted                  | 9/24/2010 |
| 1189854-1  | 007755484JJK 3260       | 3M - COTTAGE GROVE | MND006172969 3M COTTAGE GROVE | F104077WDI                          | PCB1          | TONS      | 22.63    | Accepted   | Accepted                  | 9/27/2010 |
| 1189857-1  | 007755485JJK 3260       | 3M - COTTAGE GROVE | MND006172969 3M COTTAGE GROVE | F104077WDI                          | PCB1          | TONS      | 22.34    | Accepted   | Accepted                  | 9/27/2010 |
| 1189865-1  | 007755479JJK 3260       | 3M - COTTAGE GROVE | MND006172969 3M COTTAGE GROVE | F104077WDI                          | PCB1          | TONS      | 22.93    | Accepted   | Accepted                  | 9/27/2010 |
| 1189870-1  | 007755483JJK 3260       | 3M - COTTAGE GROVE | MND006172969 3M COTTAGE GROVE | F104077WDI                          | PCB1          | TONS      | 23.34    | Accepted   | Accepted                  | 9/27/2010 |
| 1189901-1  | 007755486JJK 3260       | 3M - COTTAGE GROVE | MND006172969 3M COTTAGE GROVE | F104077WDI                          | PCB1          | TONS      | 24.10    | Accepted   | Accepted                  | 9/28/2010 |
| 1189940-1  | 007755473JJK 3260       | 3M - COTTAGE GROVE | MND006172969 3M COTTAGE GROVE | F104077WDI                          | PCB1          | TONS      | 23.69    | Accepted   | Accepted                  | 9/28/2010 |
| 1190018-1  | 007755492JJK 3260       | 3M - COTTAGE GROVE | MND006172969 3M COTTAGE GROVE | F104077WDI                          | PCB1          | TONS      | 23.34    | Accepted   | Accepted                  | 9/29/2010 |

Approval: F104077WDI  
 Receipt Status: All  
 Trans Mode (Inbound/Outbound): Both  
 Bulk Mode (Bulk/Non-Bulk): Both

# Receipt List

Wayne Disposal, Inc.  
 1 Wayne Disposal, Inc.

| Receipt ID | Manifest/BOL / Customer | Generator          | Waste Stream                  | Approval / Product | Waste Code | Bill Unit | Quantity | Rec.Status | Fpr. Status / Outbound | Date       |
|------------|-------------------------|--------------------|-------------------------------|--------------------|------------|-----------|----------|------------|------------------------|------------|
| 1190041-1  | 007755488JJK 3260       | 3M - COTTAGE GROVE | MND006172969 3M COTTAGE GROVE | F104077WDI         | PCB1       | TONS      | 22.74    | Accepted   | Accepted               | 9/29/2010  |
| 1190042-1  | 007755489JJK 3260       | 3M - COTTAGE GROVE | MND006172969 3M COTTAGE GROVE | F104077WDI         | PCB1       | TONS      | 21.92    | Accepted   | Accepted               | 9/29/2010  |
| 1190043-1  | 007755482JJK 3260       | 3M - COTTAGE GROVE | MND006172969 3M COTTAGE GROVE | F104077WDI         | PCB1       | TONS      | 22.49    | Accepted   | Accepted               | 9/29/2010  |
| 1190102-1  | 007755490JJK 3260       | 3M - COTTAGE GROVE | MND006172969 3M COTTAGE GROVE | F104077WDI         | PCB1       | TONS      | 22.88    | Accepted   | Accepted               | 9/30/2010  |
| 1190131-1  | 007755496JJK 3260       | 3M - COTTAGE GROVE | MND006172969 3M COTTAGE GROVE | F104077WDI         | PCB1       | TONS      | 22.63    | Accepted   | Accepted               | 9/30/2010  |
| 1190134-1  | 007755498JJK 3260       | 3M - COTTAGE GROVE | MND006172969 3M COTTAGE GROVE | F104077WDI         | PCB1       | TONS      | 22.52    | Accepted   | Accepted               | 9/30/2010  |
| 1190144-1  | 007755494JJK 3260       | 3M - COTTAGE GROVE | MND006172969 3M COTTAGE GROVE | F104077WDI         | PCB1       | TONS      | 23.47    | Accepted   | Accepted               | 9/30/2010  |
| 1190146-1  | 007755475JJK 3260       | 3M - COTTAGE GROVE | MND006172969 3M COTTAGE GROVE | F104077WDI         | PCB1       | TONS      | 23.09    | Accepted   | Accepted               | 9/30/2010  |
| 1190359-1  | 007796734JJK 3260       | 3M - COTTAGE GROVE | MND006172969 3M COTTAGE GROVE | F104077WDI         | PCB1       | TONS      | 24.47    | Accepted   | Accepted               | 10/4/2010  |
| 1190401-1  | 007755500JJK 3260       | 3M - COTTAGE GROVE | MND006172969 3M COTTAGE GROVE | F104077WDI         | PCB1       | TONS      | 22.89    | Accepted   | Accepted               | 10/4/2010  |
| 1190404-1  | 007755497JJK 3260       | 3M - COTTAGE GROVE | MND006172969 3M COTTAGE GROVE | F104077WDI         | PCB1       | TONS      | 23.24    | Accepted   | Accepted               | 10/4/2010  |
| 1190405-1  | 007755495JJK 3260       | 3M - COTTAGE GROVE | MND006172969 3M COTTAGE GROVE | F104077WDI         | PCB1       | TONS      | 23.41    | Accepted   | Accepted               | 10/4/2010  |
| 1190488-1  | 007796731JJK 3260       | 3M - COTTAGE GROVE | MND006172969 3M COTTAGE GROVE | F104077WDI         | PCB1       | TONS      | 21.82    | Accepted   | Accepted               | 10/5/2010  |
| 1190653-1  | 007755491JJK 3260       | 3M - COTTAGE GROVE | MND006172969 3M COTTAGE GROVE | F104077WDI         | PCB1       | TONS      | 23.23    | Accepted   | Accepted               | 10/7/2010  |
| 1190660-1  | 007755493JJK 3260       | 3M - COTTAGE GROVE | MND006172969 3M COTTAGE GROVE | F104077WDI         | PCB1       | TONS      | 23.56    | Accepted   | Accepted               | 10/7/2010  |
| 1190667-1  | 007755499JJK 3260       | 3M - COTTAGE GROVE | MND006172969 3M COTTAGE GROVE | F104077WDI         | PCB1       | TONS      | 23.06    | Accepted   | Accepted               | 10/7/2010  |
| 1190792-1  | 007796730JJK 3260       | 3M - COTTAGE GROVE | MND006172969 3M COTTAGE GROVE | F104077WDI         | PCB1       | TONS      | 22.78    | Accepted   | Accepted               | 10/11/2010 |
| 1190794-1  | 007796733JJK 3260       | 3M - COTTAGE GROVE | MND006172969 3M COTTAGE GROVE | F104077WDI         | PCB1       | TONS      | 22.59    | Accepted   | Accepted               | 10/11/2010 |
| 1190795-1  | 007796732JJK 3260       | 3M - COTTAGE GROVE | MND006172969 3M COTTAGE GROVE | F104077WDI         | PCB1       | TONS      | 22.87    | Accepted   | Accepted               | 10/11/2010 |
| 1190803-1  | 007755487JJK 3260       | 3M - COTTAGE GROVE | MND006172969 3M COTTAGE GROVE | F104077WDI         | PCB1       | TONS      | 23.40    | Accepted   | Accepted               | 10/11/2010 |

Total quantity for bill unit TONS: 1,262.88

10/13/2010

Page 2 of 2

3:45 PM

Approval: F104077WDI  
 Receipt Date: 10/13/10  
 Receipt Status: All  
 Trans Mode (Inbound/Outbound): Both  
 Bulk Mode (Bulk/Non-Bulk): Both

**Receipt List**  
 Wayne Disposal, Inc.  
 1 Wayne Disposal, Inc.

| Receipt ID                                | Manifest/BOL / Customer | Generator                       | Waste Stream     | Approval / Product       | Waste Code | Bill Unit | Quantity     | Rec.Status | For. Status / Outbound | Date       |
|---|-------------------------|---------------------------------|------------------|--------------------------|------------|-----------|--------------|------------|------------------------|------------|
| 1190963-1                                 | 007796729JJK 3260       | 3M - COTTAGE GROVE MND006172969 | 3M COTTAGE GROVE | TSDI Approval F104077WDI | PCB1       | TONS      | 22.47        | Accepted   | Accepted               | 10/13/2010 |
| 1190964-1                                 | 007796728JJK 3260       | 3M - COTTAGE GROVE MND006172969 | 3M COTTAGE GROVE | F104077WDI               | PCB1       | TONS      | 21.79        | Accepted   | Accepted               | 10/13/2010 |
| <b>Total quantity for bill unit TONS:</b> |                         |                                 |                  |                          |            |           | <b>44.26</b> |            |                        |            |

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## **SKB LOAD ACCEPTANCE SUMMARIES**

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3M\_MN00717040

2318.0169

REPORT NAME: **Tons Each Load By WSID**  
 DESCRIPTION: **Tonnage for EACH LOAD, grouped by customer**  
 DATE RANGE: **07/08/2010 to 07/08/2010**  
 PRINTED ON (DATE): **Tuesday, July 20, 2010**

**3MC35**

3M Company  
 Innovation Rd & Rt 61  
 Cottage Grove MN 55016

| LOAD #    | MANIFEST | ARRIVED  | WASTE STREAM | WASTE NAME                   | CELL | SPOT | LIFT | TONS  |
|-----------|----------|----------|--------------|------------------------------|------|------|------|-------|
| 16366 (A) | 739700   | 7/8/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y3   | 855  | 23.42 |
| 16367 (A) | 739701   | 7/8/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y3   | 855  | 24.25 |
| 16369 (A) | 739702   | 7/8/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y3   | 855  | 25.51 |
| 16371 (A) | 739703   | 7/8/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z3   | 855  | 27.76 |
| 16378 (A) | 739704   | 7/8/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z3   | 855  | 24.62 |
| 16383 (A) | 739705   | 7/8/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z3   | 855  | 24.36 |
| 16391 (A) | 739706   | 7/8/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y4   | 855  | 23.40 |
| 16392 (A) | 739707   | 7/8/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y4   | 855  | 22.26 |
| 16404 (A) | 739708   | 7/8/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y4   | 855  | 23.59 |
| 16405 (A) | 739709   | 7/8/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z4   | 855  | 21.86 |
| 16423 (A) | 739710   | 7/8/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z4   | 855  | 24.33 |
| 16427 (A) | 739711   | 7/8/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z4   | 855  | 23.43 |
| 16430 (A) | 739712   | 7/8/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y5   | 855  | 22.10 |
| 16434 (A) | 739713   | 7/8/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y5   | 855  | 24.94 |
| 16443 (A) | 739714   | 7/8/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y5   | 855  | 21.85 |
| 16444 (A) | 739715   | 7/8/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z5   | 855  | 24.66 |
| 16455 (A) | 739716   | 7/8/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z5   | 855  | 24.66 |
| 16457 (A) | 739717   | 7/8/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z5   | 855  | 23.68 |
| 16459 (A) | 739718   | 7/8/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y6   | 855  | 24.07 |
| 16468 (A) | 739719   | 7/8/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y6   | 855  | 27.53 |
| 16476 (A) | 739720   | 7/8/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y6   | 855  | 24.53 |
| 16485 (A) | 739721   | 7/8/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z6   | 855  | 23.39 |
| 16486 (A) | 739722   | 7/8/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z6   | 855  | 25.04 |
| 16492 (A) | 739723   | 7/8/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z6   | 855  | 26.72 |
| 16502 (A) | 739724   | 7/8/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y3   | 855  | 23.98 |
| 16507 (A) | 739725   | 7/8/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z3   | 855  | 23.47 |
| 16515 (A) | 739726   | 7/8/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z3   | 855  | 26.31 |
| 16517 (A) | 739727   | 7/8/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z3   | 855  | 23.77 |
| 16522 (A) | 739728   | 7/8/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y4   | 855  | 24.43 |
| 16528 (A) | 739729   | 7/8/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y4   | 855  | 23.76 |
| 16530 (A) | 739730   | 7/8/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z4   | 855  | 25.53 |
| 16544 (A) | 739731   | 7/8/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z4   | 855  | 25.01 |
| 16550 (A) | 739732   | 7/8/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y5   | 855  | 22.19 |
| 16556 (A) | 739733   | 7/8/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y5   | 855  | 22.17 |
| 16559 (A) | 739734   | 7/8/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z5   | 855  | 23.12 |
| 16564 (A) | 739735   | 7/8/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z5   | 855  | 23.87 |
| 16571 (A) | 739736   | 7/8/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y6   | 855  | 20.58 |

**Total # of Loads: 37** **Total Tons: 890.15**

**Grand Total (Tons): 890.15**  
**Grand Total (Loads): 37**



ROSEMOUNT INDUSTRIAL

REPORT NAME: **Tons Each Load By WSID**  
 DESCRIPTION: **Tonnage for EACH LOAD, grouped by customer**  
 DATE RANGE: **07/12/2010 to 07/12/2010**  
 PRINTED ON (DATE): **Tuesday, July 20, 2010**

**3MC35**

3M Company

Innovation Rd &amp; Rt 61

Cottage Grove MN 55016

| LOAD #    | MANIFEST | ARRIVED   | WASTE STREAM | WASTE NAME                   | CELL | SPOT | LIFT | TONS  |
|-----------|----------|-----------|--------------|------------------------------|------|------|------|-------|
| 16915 (A) | 739738   | 7/12/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y3   | 855  | 23.46 |
| 16918 (A) | 739739   | 7/12/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y3   | 855  | 24.55 |
| 16920 (A) | 739740   | 7/12/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y3   | 855  | 21.60 |
| 16926 (A) | 739741   | 7/12/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y3   | 855  | 25.61 |
| 16928 (A) | 739742   | 7/12/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y3   | 855  | 22.81 |
| 16930 (A) | 739745   | 7/12/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z3   | 855  | 22.59 |
| 16931 (A) | 739744   | 7/12/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z3   | 855  | 21.12 |
| 16936 (A) | 739746   | 7/12/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z3   | 855  | 24.51 |
| 16940 (A) | 739747   | 7/12/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z3   | 855  | 23.05 |
| 16943 (A) | 739743   | 7/12/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z3   | 855  | 21.09 |
| 16964 (A) | 739748   | 7/12/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y4   | 855  | 24.42 |
| 16977 (A) | 739749   | 7/12/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y4   | 855  | 25.03 |
| 16979 (A) | 739750   | 7/12/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y4   | 855  | 21.17 |
| 16982 (A) | 739751   | 7/12/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y4   | 855  | 25.31 |
| 16985 (A) | 739752   | 7/12/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y4   | 855  | 23.59 |
| 16986 (A) | 739753   | 7/12/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z4   | 855  | 23.15 |
| 16989 (A) | 739754   | 7/12/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z4   | 855  | 24.88 |
| 16992 (A) | 739755   | 7/12/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z4   | 855  | 22.62 |
| 16997 (A) | 739756   | 7/12/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z4   | 855  | 26.02 |
| 16998 (A) | 739757   | 7/12/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z4   | 855  | 23.38 |
| 17011 (A) | 739758   | 7/12/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y5   | 855  | 24.13 |
| 17024 (A) | 739759   | 7/12/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y5   | 855  | 25.59 |
| 17029 (A) | 739760   | 7/12/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y5   | 855  | 23.73 |
| 17035 (A) | 739761   | 7/12/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y5   | 855  | 24.57 |
| 17037 (A) | 739762   | 7/12/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y5   | 855  | 23.83 |
| 17043 (A) | 739763   | 7/12/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z5   | 855  | 22.80 |
| 17046 (A) | 739764   | 7/12/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z5   | 855  | 25.34 |
| 17051 (A) | 739765   | 7/12/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z5   | 855  | 23.68 |
| 17056 (A) | 739766   | 7/12/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z5   | 855  | 23.32 |
| 17058 (A) | 739767   | 7/12/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z5   | 855  | 22.36 |
| 17064 (A) | 739768   | 7/12/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y6   | 855  | 24.58 |
| 17082 (A) | 739769   | 7/12/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y6   | 855  | 23.79 |
| 17088 (A) | 739770   | 7/12/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y6   | 855  | 23.64 |
| 17092 (A) | 739771   | 7/12/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y6   | 855  | 24.85 |
| 17096 (A) | 739772   | 7/12/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z6   | 855  | 21.26 |
| 17104 (A) | 739773   | 7/12/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z6   | 855  | 23.83 |
| 17106 (A) | 739774   | 7/12/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z6   | 855  | 21.46 |

**Total # of Loads: 37****Total Tons: 873.32****Grand Total (Tons): 873.32****Grand Total (Loads): 37**



ROSEMOUNT INDUSTRIAL

REPORT NAME:  
DESCRIPTION:  
DATE RANGE:  
PRINTED ON (DATE):

**Tons Each Load By WSID**  
**Tonnage for EACH LOAD, grouped by customer**  
**07/14/2010 to 07/14/2010**  
**Tuesday, July 20, 2010**

**3MC35**

3M Company  
Innovation Rd & Rt 61  
Cottage Grove MN 55016

| LOAD #    | MANIFEST | ARRIVED   | WASTE STREAM | WASTE NAME                   | CELL | SPOT. | LIFT | TONS  |
|-----------|----------|-----------|--------------|------------------------------|------|-------|------|-------|
| 17366 (A) | 739776   | 7/14/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y3    | 855  | 24.82 |
| 17368 (A) | 739777   | 7/14/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y3    | 855  | 26.37 |
| 17371 (A) | 739778   | 7/14/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y3    | 855  | 23.98 |
| 17373 (A) | 739779   | 7/14/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y3    | 855  | 22.88 |
| 17375 (A) | 739780   | 7/14/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z3    | 855  | 24.21 |
| 17376 (A) | 739781   | 7/14/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z3    | 855  | 24.60 |
| 17379 (A) | 739782   | 7/14/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z3    | 855  | 22.90 |
| 17384 (A) | 739783   | 7/14/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z3    | 855  | 22.72 |
| 17387 (A) | 739784   | 7/14/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y4    | 855  | 25.63 |
| 17392 (A) | 739785   | 7/14/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y4    | 855  | 21.74 |
| 17404 (A) | 739786   | 7/14/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y4    | 855  | 24.26 |
| 17406 (A) | 739787   | 7/14/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y4    | 855  | 22.59 |
| 17407 (A) | 739788   | 7/14/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z4    | 855  | 24.23 |
| 17409 (A) | 739789   | 7/14/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z4    | 855  | 25.13 |
| 17418 (A) | 739791   | 7/14/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z4    | 855  | 25.17 |
| 17420 (A) | 739790   | 7/14/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z4    | 855  | 27.61 |
| 17425 (A) | 739792   | 7/14/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y5    | 855  | 26.18 |
| 17428 (A) | 739793   | 7/14/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y5    | 855  | 25.09 |
| 17431 (A) | 739795   | 7/14/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y5    | 855  | 21.93 |
| 17432 (A) | 739794   | 7/14/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y5    | 855  | 25.99 |
| 17443 (A) | 739796   | 7/14/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z5    | 855  | 21.59 |
| 17445 (A) | 739797   | 7/14/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z5    | 855  | 23.01 |
| 17447 (A) | 739798   | 7/14/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z5    | 855  | 24.48 |
| 17449 (A) | 739799   | 7/14/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z5    | 855  | 23.71 |
| 17459 (A) | 739800   | 7/14/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y6    | 855  | 21.73 |
| 17463 (A) | 739801   | 7/14/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y6    | 855  | 25.77 |
| 17465 (A) | 739802   | 7/14/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y6    | 855  | 24.60 |
| 17467 (A) | 739803   | 7/14/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y6    | 855  | 23.31 |
| 17468 (A) | 739804   | 7/14/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z6    | 855  | 23.95 |
| 17472 (A) | 739805   | 7/14/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z6    | 855  | 24.27 |
| 17474 (A) | 739806   | 7/14/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z6    | 855  | 24.11 |
| 17475 (A) | 739807   | 7/14/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z6    | 855  | 24.60 |
| 17481 (A) | 739808   | 7/14/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z6    | 855  | 25.65 |
| 17482 (A) | 739809   | 7/14/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z3    | 855  | 24.51 |
| 17496 (A) | 739810   | 7/14/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y6    | 855  | 22.22 |
| 17497 (A) | 739811   | 7/14/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y3    | 855  | 22.43 |

**Total # of Loads: 36****Total Tons: 867.97**

**Grand Total (Tons): 867.97**  
**Grand Total (Loads): 36**



ROSEMOUNT INDUSTRIAL

REPORT NAME: **Tons Each Load By WSID**  
 DESCRIPTION: **Tonnage for EACH LOAD, grouped by customer**  
 DATE RANGE: **07/19/2010 to 07/19/2010**  
 PRINTED ON (DATE): **Tuesday, July 20, 2010**

**3MC35**

3M Company

Innovation Rd &amp; Rt 61

Cottage Grove MN 55016

| LOAD #    | MANIFEST | ARRIVED   | WASTE STREAM | WASTE NAME                   | CELL | SPOT | LIFT | TONS  |
|-----------|----------|-----------|--------------|------------------------------|------|------|------|-------|
| 17838 (A) | 739813   | 7/19/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X4   | 855  | 21.08 |
| 17852 (A) | 739816   | 7/19/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y4   | 855  | 23.65 |
| 17854 (A) | 739814   | 7/19/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y4   | 855  | 23.30 |
| 17860 (A) | 739817   | 7/19/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z4   | 855  | 24.90 |
| 17866 (A) | 739818   | 7/19/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | W3   | 855  | 21.45 |
| 17869 (A) | 739819   | 7/19/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | W3   | 855  | 26.00 |
| 17870 (A) | 739820   | 7/19/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | W3   | 855  | 24.95 |
| 17872 (A) | 739815   | 7/19/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | W3   | 855  | 27.36 |
| 17888 (A) | 739821   | 7/19/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | W3   | 855  | 23.84 |
| 17905 (A) | 739822   | 7/19/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X3   | 855  | 23.77 |
| 17908 (A) | 739823   | 7/19/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X3   | 855  | 23.66 |
| 17915 (A) | 739824   | 7/19/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X3   | 855  | 24.69 |
| 17928 (A) | 739825   | 7/19/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X3   | 855  | 23.28 |
| 17936 (A) | 739826   | 7/19/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X3   | 855  | 24.65 |
| 17938 (A) | 739827   | 7/19/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | W4   | 855  | 24.34 |
| 17943 (A) | 739828   | 7/19/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | W4   | 855  | 24.21 |
| 17960 (A) | 739829   | 7/19/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | W4   | 855  | 24.78 |
| 17971 (A) | 739830   | 7/19/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | W4   | 855  | 25.94 |
| 17974 (A) | 739831   | 7/19/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | W4   | 855  | 23.88 |
| 17985 (A) | 739832   | 7/19/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X4   | 855  | 26.07 |
| 17990 (A) | 739833   | 7/19/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X4   | 855  | 25.37 |
| 17998 (A) | 739834   | 7/19/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X4   | 855  | 25.41 |
| 18006 (A) | 739835   | 7/19/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X4   | 855  | 24.72 |
| 18013 (A) | 739836   | 7/19/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X4   | 855  | 21.45 |
| 18017 (A) | 739837   | 7/19/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | W5   | 855  | 21.13 |
| 18028 (A) | 739838   | 7/19/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | W5   | 855  | 23.83 |
| 18035 (A) | 739839   | 7/19/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | W5   | 855  | 21.17 |
| 18036 (A) | 739840   | 7/19/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | W5   | 855  | 22.39 |
| 18040 (A) | 739841   | 7/19/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | W5   | 855  | 24.21 |
| 18047 (A) | 739842   | 7/19/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X5   | 855  | 23.92 |
| 18056 (A) | 739843   | 7/19/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X5   | 855  | 23.46 |
| 18060 (A) | 739844   | 7/19/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X5   | 855  | 23.11 |
| 18071 (A) | 739845   | 7/19/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X5   | 855  | 22.53 |
| 18077 (A) | 739846   | 7/19/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X5   | 855  | 23.67 |

**Total # of Loads: 34****Total Tons: 812.17****Grand Total (Tons): 812.17****Grand Total (Loads): 34**

REPORTNAME: **Tons Each Load By WSID**  
 DESCRIPTION: **Tonnage for EACH LOAD, grouped by customer**  
 DATE RANGE: **07/27/2010 to 07/27/2010**  
 PRINTED ON (DATE): **Thursday, July 29, 2010**

**3MC35**  
 3M Company  
 Innovation Rd & Rt 61  
 Cottage Grove MN 55016

| LOAD #    | MANIFEST | ARRIVED   | WASTE STREAM | WASTE NAME                   | CELL | SPOT | LIFT | TONS  |
|-----------|----------|-----------|--------------|------------------------------|------|------|------|-------|
| 19370 (A) | 739849   | 7/27/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | W3   | 855  | 22.86 |
| 19375 (A) | 739847   | 7/27/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | W3   | 855  | 23.99 |
| 19378 (A) | 739848   | 7/27/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | W3   | 855  | 22.58 |
| 19381 (A) | 739850   | 7/27/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | W3   | 855  | 20.12 |
| 19386 (A) | 739851   | 7/27/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X3   | 855  | 22.24 |
| 19390 (A) | 739852   | 7/27/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X3   | 855  | 23.63 |
| 19394 (A) | 739853   | 7/27/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X3   | 855  | 22.11 |
| 19397 (A) | 739854   | 7/27/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X3   | 855  | 23.40 |
| 19430 (A) | 739855   | 7/27/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | W4   | 855  | 23.76 |
| 19432 (A) | 739856   | 7/27/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | W4   | 855  | 22.59 |
| 19443 (A) | 739857   | 7/27/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | W4   | 855  | 24.30 |
| 19446 (A) | 739858   | 7/27/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | W4   | 855  | 22.54 |
| 19455 (A) | 739859   | 7/27/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X4   | 855  | 25.85 |
| 19456 (A) | 739860   | 7/27/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X4   | 855  | 24.30 |
| 19457 (A) | 739861   | 7/27/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X4   | 855  | 24.34 |
| 19458 (A) | 739862   | 7/27/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X4   | 855  | 24.40 |
| 19481 (A) | 739863   | 7/27/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | W5   | 855  | 24.01 |
| 19486 (A) | 739864   | 7/27/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | W5   | 855  | 25.05 |
| 19499 (A) | 739865   | 7/27/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | W5   | 855  | 23.38 |
| 19500 (A) | 739866   | 7/27/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | W5   | 855  | 23.17 |
| 19503 (A) | 739867   | 7/27/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X5   | 855  | 22.13 |
| 19506 (A) | 739868   | 7/27/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X5   | 855  | 24.52 |
| 19508 (A) | 739869   | 7/27/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X5   | 855  | 23.64 |
| 19510 (A) | 739870   | 7/27/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X5   | 855  | 22.81 |
| 19528 (A) | 739871   | 7/27/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | W6   | 855  | 24.19 |
| 19530 (A) | 739872   | 7/27/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | W6   | 855  | 24.79 |
| 19549 (A) | 739873   | 7/27/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | W6   | 855  | 23.25 |
| 19554 (A) | 739874   | 7/27/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | W6   | 855  | 20.88 |
| 19559 (A) | 739875   | 7/27/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X6   | 855  | 23.17 |
| 19569 (A) | 739877   | 7/27/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3A   | JJ3  | 925  | 24.15 |
| 19572 (A) | 739876   | 7/27/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X6   | 855  | 23.13 |
| 19578 (A) | 739878   | 7/27/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X6   | 855  | 24.20 |
| 19591 (A) | 739879   | 7/27/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X6   | 855  | 25.09 |
| 19594 (A) | 739880   | 7/27/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | W6   | 855  | 24.81 |
| 19608 (A) | 739881   | 7/27/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X5   | 855  | 23.16 |
| 19613 (A) | 739882   | 7/27/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | W5   | 855  | 25.72 |
| 19614 (A) | 739883   | 7/27/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X4   | 855  | 22.68 |
| 19620 (A) | 739884   | 7/27/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | W4   | 855  | 22.48 |
| 19621 (A) | 739885   | 7/27/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X3   | 855  | 23.45 |
| 19622 (A) | 739886   | 7/27/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | W3   | 855  | 23.91 |
| 19631 (A) | 739887   | 7/27/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | W3   | 855  | 23.05 |
| 19641 (A) | 739888   | 7/27/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X3   | 855  | 25.59 |
| 19653 (A) | 739889   | 7/27/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | W4   | 855  | 24.28 |

**Total # of Loads: 43** **Total Tons: 1,013.70**

**Grand Total (Tons): 1,013.70**  
**Grand Total (Loads): 43**



REPORT NAME: **Tons Each Load By WSID**  
 DESCRIPTION: **Tonnage for EACH LOAD, grouped by customer**  
 DATE RANGE: **07/29/2010 to 07/29/2010**  
 PRINTED ON (DATE): **Wednesday, August 04, 2010**

**3MC35**

3M Company

Innovation Rd &amp; Rt 61

Cottage Grove MN 55016

| LOAD #    | MANIFEST | ARRIVED   | WASTE STREAM | WASTE NAME                   | CELL | SPOT | LIFT | TONS  |
|-----------|----------|-----------|--------------|------------------------------|------|------|------|-------|
| 19872 (A) | 739890   | 7/29/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y3   | 870  | 21.87 |
| 19875 (A) | 739891   | 7/29/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y3   | 870  | 23.67 |
| 19879 (A) | 739892   | 7/29/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y3   | 870  | 21.78 |
| 19881 (A) | 739893   | 7/29/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y3   | 870  | 22.25 |
| 19884 (A) | 739894   | 7/29/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y3   | 870  | 22.95 |
| 19886 (A) | 739895   | 7/29/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z3   | 870  | 24.44 |
| 19888 (A) | 739896   | 7/29/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z3   | 870  | 24.11 |
| 19889 (A) | 739897   | 7/29/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z3   | 870  | 25.77 |
| 19890 (A) | 739898   | 7/29/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z3   | 870  | 23.49 |
| 19911 (A) | 739899   | 7/29/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z3   | 870  | 23.05 |
| 19912 (A) | 739900   | 7/29/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y4   | 870  | 26.12 |
| 19917 (A) | 739901   | 7/29/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y4   | 870  | 23.18 |
| 19925 (A) | 739902   | 7/29/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y4   | 870  | 22.60 |
| 19927 (A) | 739903   | 7/29/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y4   | 870  | 24.53 |
| 19929 (A) | 739904   | 7/29/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y4   | 870  | 23.06 |
| 19930 (A) | 739905   | 7/29/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z4   | 870  | 24.22 |
| 19931 (A) | 739906   | 7/29/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z4   | 870  | 23.33 |
| 19935 (A) | 739907   | 7/29/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z4   | 870  | 23.84 |
| 19949 (A) | 739908   | 7/29/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z4   | 870  | 24.55 |
| 19950 (A) | 739909   | 7/29/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z4   | 870  | 23.95 |
| 19952 (A) | 739910   | 7/29/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z4   | 870  | 22.75 |
| 19961 (A) | 739911   | 7/29/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z4   | 870  | 23.13 |
| 19968 (A) | 739913   | 7/29/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z4   | 870  | 24.58 |
| 19974 (A) | 739912   | 7/29/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z4   | 870  | 24.47 |
| 19978 (A) | 739914   | 7/29/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z4   | 870  | 25.95 |
| 19980 (A) | 739915   | 7/29/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y4   | 870  | 25.72 |
| 19982 (A) | 739916   | 7/29/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y4   | 870  | 22.44 |
| 19993 (A) | 739917   | 7/29/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y4   | 870  | 22.75 |
| 19996 (A) | 739918   | 7/29/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y4   | 870  | 22.23 |
| 19999 (A) | 739919   | 7/29/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y4   | 870  | 23.92 |
| 20009 (A) | 739921   | 7/29/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z3   | 870  | 23.43 |
| 20011 (A) | 739920   | 7/29/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z3   | 870  | 21.84 |
| 20016 (A) | 739922   | 7/29/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z3   | 870  | 22.34 |
| 20018 (A) | 739923   | 7/29/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z3   | 870  | 23.68 |
| 20021 (A) | 739924   | 7/29/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y3   | 870  | 26.40 |
| 20023 (A) | 739925   | 7/29/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y3   | 870  | 25.75 |
| 20029 (A) | 739926   | 7/29/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z3   | 870  | 23.23 |
| 20038 (A) | 739927   | 7/29/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y3   | 870  | 24.05 |
| 20040 (A) | 739928   | 7/29/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y3   | 870  | 23.76 |
| 20056 (A) | 739929   | 7/29/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y3   | 870  | 22.10 |
| 20059 (A) | 739930   | 7/29/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y3   | 870  | 23.97 |
| 20062 (A) | 739931   | 7/29/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y3   | 870  | 23.82 |
| 20066 (A) | 739932   | 7/29/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z3   | 870  | 24.92 |
| 20067 (A) | 739933   | 7/29/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z3   | 870  | 24.16 |
| 20069 (A) | 739934   | 7/29/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y4   | 870  | 22.95 |
| 20072 (A) | 739935   | 7/29/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y4   | 870  | 21.35 |
| 20075 (A) | 739936   | 7/29/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z4   | 870  | 22.04 |
| 20077 (A) | 739937   | 7/29/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z4   | 870  | 24.15 |
| 20082 (A) | 739938   | 7/29/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y3   | 870  | 23.83 |
| 20087 (A) | 739939   | 7/29/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z3   | 870  | 23.46 |

|           |        |           |           |                              |    |    |     |       |
|-----------|--------|-----------|-----------|------------------------------|----|----|-----|-------|
| 20092 (A) | 739940 | 7/29/2010 | MI10-0093 | Cottage Grove Soil - D9 Area | 3M | Y4 | 870 | 24.27 |
| 20093 (A) | 739941 | 7/29/2010 | MI10-0093 | Cottage Grove Soil - D9 Area | 3M | Z4 | 870 | 23.86 |
| 20094 (A) | 739942 | 7/29/2010 | MI10-0093 | Cottage Grove Soil - D9 Area | 3M | Y4 | 870 | 22.08 |

**Total # of Loads: 53**

**Total Tons: 1,252.14**

**Grand Total (Tons): 1,252.14**  
**Grand Total (Loads): 53**



ROSEMOUNT INDUSTRIAL

REPORT NAME: **Tons Each Load By WSID**  
 DESCRIPTION: **Tonnage for EACH LOAD, grouped by customer**  
 DATE RANGE: **08/04/2010 to 08/04/2010**  
 PRINTED ON (DATE): **Thursday, August 05, 2010**

**3MC35**

3M Company  
 Innovation Rd & Rt 61  
 Cottage Grove MN 55016

| LOAD #    | MANIFEST | ARRIVED  | WASTE STREAM | WASTE NAME                   | CELL | SPOT | LIFT | TONS  |
|-----------|----------|----------|--------------|------------------------------|------|------|------|-------|
| 20784 (A) | 739943   | 8/4/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X2   | 870  | 23.45 |
| 20788 (A) | 739944   | 8/4/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X2   | 870  | 24.45 |
| 20790 (A) | 739945   | 8/4/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X2   | 870  | 23.91 |
| 20795 (A) | 739946   | 8/4/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X2   | 870  | 25.50 |
| 20798 (A) | 739947   | 8/4/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X2   | 870  | 23.61 |
| 20799 (A) | 739948   | 8/4/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y2   | 870  | 21.59 |
| 20800 (A) | 739949   | 8/4/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y2   | 870  | 23.53 |
| 20803 (A) | 739950   | 8/4/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y2   | 870  | 24.21 |
| 20810 (A) | 739951   | 8/4/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y2   | 870  | 23.32 |
| 20825 (A) | 739952   | 8/4/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y2   | 870  | 21.96 |
| 20828 (A) | 739953   | 8/4/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z2   | 870  | 23.20 |
| 20833 (A) | 739954   | 8/4/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z2   | 870  | 23.02 |
| 20840 (A) | 739955   | 8/4/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z2   | 870  | 21.97 |
| 20842 (A) | 739956   | 8/4/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z2   | 870  | 21.96 |
| 20844 (A) | 739957   | 8/4/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z2   | 870  | 25.64 |
| 20846 (A) | 739958   | 8/4/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X3   | 870  | 23.69 |
| 20847 (A) | 739959   | 8/4/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X3   | 870  | 24.41 |
| 20850 (A) | 739960   | 8/4/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X3   | 870  | 23.17 |
| 20866 (A) | 739961   | 8/4/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X3   | 870  | 23.07 |
| 20870 (A) | 739962   | 8/4/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X3   | 870  | 23.81 |
| 20875 (A) | 739964   | 8/4/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y3   | 870  | 23.07 |
| 20877 (A) | 739965   | 8/4/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y3   | 870  | 24.69 |
| 20880 (A) | 739966   | 8/4/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y3   | 870  | 23.83 |
| 20883 (A) | 739968   | 8/4/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y3   | 870  | 23.28 |
| 20884 (A) | 739969   | 8/4/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z3   | 870  | 23.73 |
| 20887 (A) | 739967   | 8/4/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z3   | 870  | 25.88 |
| 20899 (A) | 739970   | 8/4/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z3   | 870  | 23.72 |
| 20903 (A) | 739971   | 8/4/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X4   | 870  | 23.87 |
| 20906 (A) | 739972   | 8/4/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z4   | 870  | 22.76 |
| 20914 (A) | 739973   | 8/4/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z4   | 870  | 19.18 |
| 20915 (A) | 739974   | 8/4/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y4   | 870  | 22.57 |
| 20917 (A) | 739975   | 8/4/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y4   | 870  | 22.14 |
| 20919 (A) | 739976   | 8/4/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z3   | 870  | 24.73 |
| 20920 (A) | 739977   | 8/4/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y3   | 870  | 23.60 |
| 20923 (A) | 739978   | 8/4/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y4   | 870  | 23.13 |
| 20930 (A) | 739979   | 8/4/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X4   | 870  | 25.31 |
| 20933 (A) | 739980   | 8/4/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X4   | 870  | 23.90 |
| 20936 (A) | 739981   | 8/4/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X4   | 870  | 23.03 |
| 20939 (A) | 739982   | 8/4/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X4   | 870  | 23.10 |
| 20940 (A) | 739983   | 8/4/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y4   | 870  | 22.18 |
| 20947 (A) | 739984   | 8/4/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y4   | 870  | 24.40 |
| 20949 (A) | 739985   | 8/4/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z4   | 870  | 24.38 |
| 20952 (A) | 739986   | 8/4/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z4   | 870  | 23.83 |
| 20956 (A) | 739987   | 8/4/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z4   | 870  | 22.60 |
| 20960 (A) | 739988   | 8/4/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z4   | 870  | 22.48 |

**Total # of Loads: 45****Total Tons: 1,054.86**

**Grand Total (Tons): 1,054.86**  
**Grand Total (Loads): 45**

Page 1 of 1

3M\_MN00717048

2318.0177



ROSEMOUNT INDUSTRIAL

REPORT NAME: **Tons Each Load By WSID**  
 DESCRIPTION: **Tonnage for EACH LOAD, grouped by customer**  
 DATE RANGE: **08/10/2010 to 08/10/2010**  
 PRINTED ON (DATE): **Wednesday, August 11, 2010**

**3MC35**

3M Company

Innovation Rd &amp; Rt 61

Cottage Grove MN 55016

| LOAD #    | MANIFEST | ARRIVED   | WASTE STREAM | WASTE NAME                   | CELL | SPOT. | LIFT | TONS  |
|-----------|----------|-----------|--------------|------------------------------|------|-------|------|-------|
| 21629 (A) | 739989   | 8/10/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X4    | 870  | 25.82 |
| 21631 (A) | 739990   | 8/10/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X4    | 870  | 20.25 |
| 21634 (A) | 739991   | 8/10/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X4    | 870  | 23.05 |
| 21636 (A) | 739992   | 8/10/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y4    | 870  | 24.61 |
| 21640 (A) | 739993   | 8/10/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y4    | 870  | 24.09 |
| 21645 (A) | 739994   | 8/10/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y4    | 870  | 23.38 |
| 21650 (A) | 739995   | 8/10/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z4    | 870  | 24.02 |
| 21651 (A) | 739996   | 8/10/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z4    | 870  | 24.61 |
| 21659 (A) | 739997   | 8/10/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z4    | 870  | 24.95 |
| 21692 (A) | 739998   | 8/10/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X3    | 870  | 25.98 |
| 21694 (A) | 739999   | 8/10/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X3    | 870  | 22.73 |
| 21696 (A) | 740000   | 8/10/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X3    | 870  | 26.47 |
| 21698 (A) | 740001   | 8/10/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y3    | 870  | 24.48 |
| 21702 (A) | 740002   | 8/10/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y3    | 870  | 24.01 |
| 21703 (A) | 740003   | 8/10/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y3    | 870  | 23.77 |
| 21705 (A) | 740004   | 8/10/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z3    | 870  | 26.12 |
| 21713 (A) | 740006   | 8/10/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z3    | 870  | 24.66 |
| 21716 (A) | 740005   | 8/10/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z3    | 870  | 24.14 |
| 21728 (A) | 740007   | 8/10/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X4    | 870  | 23.13 |
| 21731 (A) | 740008   | 8/10/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X4    | 870  | 22.57 |
| 21739 (A) | 740012   | 8/10/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y4    | 870  | 24.63 |
| 21744 (A) | 740009   | 8/10/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y4    | 870  | 21.02 |
| 21747 (A) | 740010   | 8/10/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z4    | 870  | 22.05 |
| 21750 (A) | 740011   | 8/10/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z4    | 870  | 24.60 |
| 21754 (A) | 740014   | 8/10/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X3    | 870  | 24.36 |
| 21755 (A) | 740013   | 8/10/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X3    | 870  | 22.74 |
| 21756 (A) | 740015   | 8/10/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y3    | 870  | 22.81 |
| 21758 (A) | 740016   | 8/10/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y3    | 870  | 23.90 |
| 21760 (A) | 740017   | 8/10/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z3    | 870  | 21.81 |

**Total # of Loads: 29****Total Tons: 690.76**

**Grand Total (Tons): 690.76**  
**Grand Total (Loads): 29**



ROSEMOUNT INDUSTRIAL

REPORT NAME: **Tons Each Load By WSID**  
 DESCRIPTION: **Tonnage for EACH LOAD, grouped by customer**  
 DATE RANGE: **08/16/2010 to 08/16/2010**  
 PRINTED ON (DATE): **Friday, August 20, 2010**

**3MC35**

3M Company

Innovation Rd &amp; Rt 61

Cottage Grove MN 55016

| LOAD #    | MANIFEST | ARRIVED   | WASTE STREAM | WASTE NAME                   | CELL | SPOT | LIFT | TONS  |
|-----------|----------|-----------|--------------|------------------------------|------|------|------|-------|
| 22395 (A) | 740019   | 8/16/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X4   | 870  | 23.16 |
| 22398 (A) | 740018   | 8/16/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X4   | 870  | 22.68 |
| 22399 (A) | 740020   | 8/16/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X4   | 870  | 23.83 |
| 22401 (A) | 740021   | 8/16/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X4   | 870  | 21.65 |
| 22404 (A) | 740022   | 8/16/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X4   | 870  | 23.18 |
| 22408 (A) | 740023   | 8/16/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y4   | 870  | 23.94 |
| 22411 (A) | 740024   | 8/16/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y4   | 870  | 24.26 |
| 22426 (A) | 740025   | 8/16/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y4   | 870  | 23.80 |
| 22427 (A) | 740026   | 8/16/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y4   | 870  | 25.48 |
| 22451 (A) | 740027   | 8/16/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y4   | 870  | 23.96 |
| 22453 (A) | 740028   | 8/16/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z4   | 870  | 30.90 |
| 22458 (A) | 740029   | 8/16/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z4   | 870  | 22.82 |
| 22467 (A) | 740030   | 8/16/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z4   | 870  | 23.42 |
| 22473 (A) | 740031   | 8/16/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z4   | 870  | 25.59 |
| 22478 (A) | 740032   | 8/16/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z4   | 870  | 25.99 |
| 22482 (A) | 740033   | 8/16/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X3   | 870  | 23.67 |
| 22495 (A) | 740035   | 8/16/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X3   | 870  | 25.27 |
| 22498 (A) | 740034   | 8/16/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X3   | 870  | 24.50 |
| 22500 (A) | 740036   | 8/16/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X3   | 870  | 24.63 |
| 22504 (A) | 740037   | 8/16/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X3   | 870  | 23.28 |
| 22510 (A) | 740038   | 8/16/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y3   | 870  | 23.29 |
| 22528 (A) | 740039   | 8/16/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y3   | 870  | 26.55 |
| 22535 (A) | 740040   | 8/16/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y3   | 870  | 24.35 |
| 22538 (A) | 740041   | 8/16/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y3   | 870  | 23.98 |
| 22543 (A) | 740042   | 8/16/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y3   | 870  | 24.17 |
| 22565 (A) | 740044   | 8/16/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z3   | 870  | 23.75 |
| 22567 (A) | 740045   | 8/16/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z3   | 870  | 24.80 |
| 22569 (A) | 740043   | 8/16/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z3   | 870  | 23.44 |
| 22572 (A) | 740046   | 8/16/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z3   | 870  | 23.77 |
| 22574 (A) | 740047   | 8/16/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X2   | 870  | 26.45 |
| 22583 (A) | 740048   | 8/16/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X2   | 870  | 21.04 |
| 22589 (A) | 740049   | 8/16/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X2   | 870  | 25.40 |
| 22595 (A) | 736886   | 8/16/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X2   | 870  | 23.25 |
| 22598 (A) | 736885   | 8/16/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y2   | 870  | 24.86 |
| 22617 (A) | 736884   | 8/16/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y2   | 870  | 25.65 |
| 22618 (A) | 736883   | 8/16/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y2   | 870  | 22.51 |
| 22624 (A) | 736882   | 8/16/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y2   | 870  | 25.45 |
| 22628 (A) | 736881   | 8/16/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z2   | 870  | 26.48 |
| 22630 (A) | 736880   | 8/16/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z2   | 870  | 26.39 |

Total # of Loads: 39

Total Tons: 951.59

Grand Total (Tons): 951.59  
 Grand Total (Loads): 39



ROSEMOUNT INDUSTRIAL

REPORT NAME: **Tons Each Load By WSID**  
 DESCRIPTION: **Tonnage for EACH LOAD, grouped by customer**  
 DATE RANGE: **08/20/2010 to 08/20/2010**  
 PRINTED ON (DATE): **Monday, August 23, 2010**

**3MC35**

3M Company

Innovation Rd &amp; Rt 61

Cottage Grove MN 55016

| LOAD #    | MANIFEST | ARRIVED   | WASTE STREAM | WASTE NAME                   | CELL | SPOT. | LIFT | TONS  |
|-----------|----------|-----------|--------------|------------------------------|------|-------|------|-------|
| 23265 (A) | 736879   | 8/20/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X2    | 870  | 26.26 |
| 23269 (A) | 736878   | 8/20/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X2    | 870  | 27.91 |
| 23272 (A) | 736876   | 8/20/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X2    | 870  | 22.65 |
| 23274 (A) | 736877   | 8/20/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X2    | 870  | 26.38 |
| 23275 (A) | 736875   | 8/20/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X2    | 870  | 25.00 |
| 23280 (A) | 736874   | 8/20/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y2    | 870  | 22.51 |
| 23282 (A) | 736787   | 8/20/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y2    | 870  | 23.78 |
| 23285 (A) | 736788   | 8/20/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y2    | 870  | 25.77 |
| 23287 (A) | 736789   | 8/20/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y2    | 870  | 25.12 |
| 23307 (A) | 736790   | 8/20/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z2    | 870  | 21.90 |
| 23314 (A) | 736791   | 8/20/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z2    | 870  | 21.34 |
| 23317 (A) | 736792   | 8/20/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z2    | 870  | 24.42 |
| 23321 (A) | 736793   | 8/20/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z2    | 870  | 24.01 |
| 23326 (A) | 736794   | 8/20/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z2    | 870  | 24.32 |
| 23329 (A) | 736795   | 8/20/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y2    | 870  | 26.18 |
| 23334 (A) | 736796   | 8/20/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X3    | 870  | 23.46 |
| 23336 (A) | 736797   | 8/20/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X3    | 870  | 23.39 |
| 23339 (A) | 736798   | 8/20/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X3    | 870  | 23.10 |
| 23355 (A) | 736799   | 8/20/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X3    | 870  | 24.55 |
| 23359 (A) | 736800   | 8/20/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X3    | 870  | 20.89 |
| 23362 (A) | 736801   | 8/20/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y3    | 870  | 24.11 |
| 23368 (A) | 736802   | 8/20/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y3    | 870  | 24.43 |
| 23369 (A) | 736804   | 8/20/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y3    | 870  | 23.05 |
| 23371 (A) | 736805   | 8/20/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y3    | 870  | 24.93 |
| 23382 (A) | 736806   | 8/20/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y3    | 870  | 25.27 |

**Total # of Loads: 25****Total Tons: 604.73**

**Grand Total (Tons): 604.73**  
**Grand Total (Loads): 25**

REPORT NAME: **Tons Each Load By WSID**  
 DESCRIPTION: **Tonnage for EACH LOAD, grouped by customer**  
 DATE RANGE: **08/24/2010 to 08/24/2010**  
 PRINTED ON (DATE): **Wednesday, September 08, 2010**

**3MC35**

3M Company  
 Innovation Rd & Rt 61  
 Cottage Grove MN 55016

| LOAD #    | MANIFEST | ARRIVED   | WASTE STREAM | WASTE NAME                   | CELL | SPOT. | LIFT | TONS  |
|-----------|----------|-----------|--------------|------------------------------|------|-------|------|-------|
| 23739 (A) | 736815   | 8/24/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X2    | 870  | 23.32 |
| 23744 (A) | 736816   | 8/24/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X2    | 870  | 26.23 |
| 23749 (A) | 736817   | 8/24/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X2    | 870  | 25.23 |
| 23753 (A) | 736819   | 8/24/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X2    | 870  | 26.99 |
| 23754 (A) | 736818   | 8/24/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X2    | 870  | 25.15 |
| 23756 (A) | 736820   | 8/24/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y2    | 870  | 23.98 |
| 23763 (A) | 736821   | 8/24/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y2    | 870  | 24.08 |
| 23782 (A) | 736822   | 8/24/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y2    | 870  | 24.45 |
| 23788 (A) | 736823   | 8/24/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y2    | 870  | 26.38 |
| 23795 (A) | 736824   | 8/24/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y2    | 870  | 25.66 |
| 23801 (A) | 736825   | 8/24/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z2    | 870  | 26.78 |
| 23805 (A) | 736826   | 8/24/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z2    | 870  | 23.61 |
| 23807 (A) | 736827   | 8/24/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z2    | 870  | 23.92 |
| 23812 (A) | 736828   | 8/24/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z2    | 870  | 27.20 |
| 23819 (A) | 736829   | 8/24/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y3    | 870  | 22.86 |
| 23821 (A) | 736830   | 8/24/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y3    | 870  | 23.45 |
| 23843 (A) | 736831   | 8/24/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y3    | 870  | 24.27 |
| 23845 (A) | 736832   | 8/24/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y3    | 870  | 24.87 |
| 23848 (A) | 736833   | 8/24/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X2    | 870  | 23.76 |
| 23856 (A) | 736834   | 8/24/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X2    | 870  | 22.11 |
| 23863 (A) | 736835   | 8/24/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X2    | 870  | 24.27 |
| 23866 (A) | 736836   | 8/24/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X2    | 870  | 25.15 |
| 23868 (A) | 736838   | 8/24/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X2    | 870  | 24.48 |
| 23873 (A) | 736839   | 8/24/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y3    | 870  | 24.06 |
| 23875 (A) | 736840   | 8/24/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z3    | 870  | 23.16 |
| 23891 (A) | 736841   | 8/24/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X3    | 870  | 24.37 |
| 23895 (A) | 736842   | 8/24/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X3    | 870  | 22.87 |
| 23904 (A) | 736843   | 8/24/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X3    | 870  | 23.33 |
| 23911 (A) | 736844   | 8/24/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X3    | 870  | 22.16 |
| 23922 (A) | 736845   | 8/24/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X3    | 870  | 23.14 |
| 23926 (A) | 736846   | 8/24/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X3    | 870  | 24.73 |
| 23931 (A) | 736847   | 8/24/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z3    | 870  | 25.69 |
| 23936 (A) | 736848   | 8/24/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z3    | 870  | 24.30 |
| 23938 (A) | 736849   | 8/24/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z3    | 870  | 25.12 |
| 23941 (A) | 736850   | 8/24/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z3    | 870  | 23.67 |
| 23945 (A) | 736851   | 8/24/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y2    | 870  | 23.73 |
| 23953 (A) | 736852   | 8/24/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y2    | 870  | 24.79 |
| 23957 (A) | 736853   | 8/24/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y2    | 870  | 24.49 |
| 23974 (A) | 736854   | 8/24/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X3    | 870  | 24.54 |
| 23980 (A) | 736855   | 8/24/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y3    | 870  | 24.56 |
| 23984 (A) | 736856   | 8/24/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X3    | 870  | 23.12 |
| 23985 (A) | 736857   | 8/24/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y3    | 870  | 23.21 |
| 23988 (A) | 736858   | 8/24/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z2    | 870  | 24.14 |
| 23992 (A) | 736859   | 8/24/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z2    | 870  | 22.50 |
| 23997 (A) | 736860   | 8/24/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z2    | 870  | 20.92 |

**Total # of Loads: 45** **Total Tons: 1,090.80**

**Grand Total (Tons): 1,090.80**  
**Grand Total (Loads): 45**

REPORT NAME: **Tons Each Load By WSID**  
 DESCRIPTION: **Tonnage for EACH LOAD, grouped by customer**  
 DATE RANGE: **09/01/2010 to 09/01/2010**  
 PRINTED ON (DATE): **Wednesday, September 08, 2010**

**3MC35**  
 3M Company  
 Innovation Rd & Rt 61  
 Cottage Grove MN 55016

| LOAD #    | MANIFEST | ARRIVED  | WASTE STREAM | WASTE NAME                   | CELL | SPOT | LIFT | TONS  |
|-----------|----------|----------|--------------|------------------------------|------|------|------|-------|
| 25491 (A) | 736861   | 9/1/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X2   | 870  | 24.12 |
| 25495 (A) | 736862   | 9/1/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X2   | 870  | 26.39 |
| 25497 (A) | 736863   | 9/1/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X2   | 870  | 25.05 |
| 25500 (A) | 736864   | 9/1/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y2   | 870  | 24.35 |
| 25548 (A) | 736865   | 9/1/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y2   | 870  | 23.93 |
| 25553 (A) | 736866   | 9/1/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y2   | 870  | 20.85 |
| 25560 (A) | 736867   | 9/1/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z2   | 870  | 21.32 |
| 25563 (A) | 736868   | 9/1/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y2   | 870  | 23.69 |
| 25607 (A) | 736869   | 9/1/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z2   | 870  | 24.81 |
| 25613 (A) | 736870   | 9/1/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z2   | 870  | 23.26 |
| 25619 (A) | 736871   | 9/1/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z2   | 870  | 22.81 |
| 25626 (A) | 736872   | 9/1/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z2   | 870  | 24.06 |
| 25687 (A) | 736873   | 9/1/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3A   | FF4  | 925  | 24.37 |
| 25673 (A) | 743850   | 9/1/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | X2   | 870  | 22.62 |
| 25678 (A) | 743851   | 9/1/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y2   | 870  | 23.25 |
| 25679 (A) | 743852   | 9/1/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z2   | 870  | 24.10 |
| 25709 (A) | 743853   | 9/1/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y2   | 870  | 24.60 |

**Total # of Loads: 17** **Total Tons: 403.58**

**Grand Total (Tons): 403.58**  
**Grand Total (Loads): 17**



ROSEMOUNT INDUSTRIAL

REPORT NAME: **Tons Each Load By WSID**  
 DESCRIPTION: **Tonnage for EACH LOAD, grouped by customer**  
 DATE RANGE: **09/24/2010 to 09/24/2010**  
 PRINTED ON (DATE): **Tuesday, September 28, 2010**

**3MC35**

3M Company

Innovation Rd &amp; Rt 61

Cottage Grove MN 55016

| LOAD #               | MANIFEST          | ARRIVED              | WASTE STREAM         | WASTE NAME                              | CELL          | SPOT.         | LIFT           | TONS             |
|----------------------|-------------------|----------------------|----------------------|---|---------------|---------------|----------------|------------------|
| <del>29433 (A)</del> | <del>743854</del> | <del>9/24/2010</del> | <del>MI10-0093</del> | <del>Cottage Grove Soil - D9 Area</del> | <del>3M</del> | <del>Y4</del> | <del>870</del> | <del>28.20</del> |
| <del>29434 (A)</del> | <del>743856</del> | <del>9/24/2010</del> | <del>MI10-0093</del> | <del>Cottage Grove Soil - D9 Area</del> | <del>3M</del> | <del>Y4</del> | <del>870</del> | <del>22.00</del> |
| <del>29435 (A)</del> | <del>743855</del> | <del>9/24/2010</del> | <del>MI10-0093</del> | <del>Cottage Grove Soil - D9 Area</del> | <del>3M</del> | <del>Y4</del> | <del>870</del> | <del>23.62</del> |
| <del>29437 (A)</del> | <del>743857</del> | <del>9/24/2010</del> | <del>MI10-0093</del> | <del>Cottage Grove Soil - D9 Area</del> | <del>3M</del> | <del>Y4</del> | <del>870</del> | <del>24.97</del> |
| <del>29440 (A)</del> | <del>743858</del> | <del>9/24/2010</del> | <del>MI10-0093</del> | <del>Cottage Grove Soil - D9 Area</del> | <del>3M</del> | <del>Y4</del> | <del>870</del> | <del>24.67</del> |
| <del>29444 (A)</del> | <del>743859</del> | <del>9/24/2010</del> | <del>MI10-0093</del> | <del>Cottage Grove Soil - D9 Area</del> | <del>3M</del> | <del>Z4</del> | <del>870</del> | <del>25.84</del> |
| <del>29447 (A)</del> | <del>743860</del> | <del>9/24/2010</del> | <del>MI10-0093</del> | <del>Cottage Grove Soil - D9 Area</del> | <del>3M</del> | <del>Z4</del> | <del>870</del> | <del>25.60</del> |
| <del>29461 (A)</del> | <del>743861</del> | <del>9/24/2010</del> | <del>MI10-0093</del> | <del>Cottage Grove Soil - D9 Area</del> | <del>3M</del> | <del>Z4</del> | <del>870</del> | <del>24.08</del> |
| <del>29462 (A)</del> | <del>743862</del> | <del>9/24/2010</del> | <del>MI10-0093</del> | <del>Cottage Grove Soil - D9 Area</del> | <del>3M</del> | <del>Z4</del> | <del>870</del> | <del>25.40</del> |
| <del>29463 (A)</del> | <del>743863</del> | <del>9/24/2010</del> | <del>MI10-0093</del> | <del>Cottage Grove Soil - D9 Area</del> | <del>3M</del> | <del>Z4</del> | <del>870</del> | <del>23.36</del> |
| 29466 (A)            | 743864            | 9/24/2010            | MI10-0093            | Cottage Grove Soil - D9 Area            | 3M            | Y5            | 870            | 25.14            |
| 29469 (A)            | 743866            | 9/24/2010            | MI10-0093            | Cottage Grove Soil - D9 Area            | 3M            | Y5            | 870            | 22.92            |
| 29471 (A)            | 743867            | 9/24/2010            | MI10-0093            | Cottage Grove Soil - D9 Area            | 3M            | Y5            | 870            | 24.63            |
| 29472 (A)            | 743865            | 9/24/2010            | MI10-0093            | Cottage Grove Soil - D9 Area            | 3M            | Y5            | 870            | 23.23            |
| 29473 (A)            | 743868            | 9/24/2010            | MI10-0093            | Cottage Grove Soil - D9 Area            | 3M            | Y5            | 870            | 25.28            |
| 29484 (A)            | 743869            | 9/24/2010            | MI10-0093            | Cottage Grove Soil - D9 Area            | 3M            | Z5            | 870            | 24.09            |
| 29486 (A)            | 743870            | 9/24/2010            | MI10-0093            | Cottage Grove Soil - D9 Area            | 3M            | Z5            | 870            | 20.77            |
| 29487 (A)            | 743871            | 9/24/2010            | MI10-0093            | Cottage Grove Soil - D9 Area            | 3M            | Z5            | 870            | 23.60            |
| 29494 (A)            | 743872            | 9/24/2010            | MI10-0093            | Cottage Grove Soil - D9 Area            | 3M            | Z5            | 870            | 24.46            |
| 29496 (A)            | 743873            | 9/24/2010            | MI10-0093            | Cottage Grove Soil - D9 Area            | 3M            | Z5            | 870            | 24.85            |
| 29497 (A)            | 743874            | 9/24/2010            | MI10-0093            | Cottage Grove Soil - D9 Area            | 3M            | Z5            | 870            | 23.21            |
| 29499 (A)            | 743875            | 9/24/2010            | MI10-0093            | Cottage Grove Soil - D9 Area            | 3M            | Z5            | 870            | 23.57            |
| 29501 (A)            | 743876            | 9/24/2010            | MI10-0093            | Cottage Grove Soil - D9 Area            | 3A            | Y6            | 870            | 24.46            |
| 29506 (A)            | 743877            | 9/24/2010            | MI10-0093            | Cottage Grove Soil - D9 Area            | 3M            | Y6            | 870            | 23.49            |
| 29511 (A)            | 743878            | 9/24/2010            | MI10-0093            | Cottage Grove Soil - D9 Area            | 3M            | Y6            | 870            | 23.10            |
| 29513 (A)            | 743879            | 9/24/2010            | MI10-0093            | Cottage Grove Soil - D9 Area            | 3M            | Y6            | 870            | 24.99            |
| 29514 (A)            | 743881            | 9/24/2010            | MI10-0093            | Cottage Grove Soil - D9 Area            | 3M            | Y6            | 870            | 21.79            |
| 29515 (A)            | 743880            | 9/24/2010            | MI10-0093            | Cottage Grove Soil - D9 Area            | 3M            | Z6            | 870            | 23.33            |
| 29516 (A)            | 743883            | 9/24/2010            | MI10-0093            | Cottage Grove Soil - D9 Area            | 3M            | Z6            | 870            | 23.66            |
| 29517 (A)            | 743882            | 9/24/2010            | MI10-0093            | Cottage Grove Soil - D9 Area            | 3M            | Z6            | 870            | 23.37            |
| 29520 (A)            | 743884            | 9/24/2010            | MI10-0093            | Cottage Grove Soil - D9 Area            | 3M            | Z6            | 870            | 25.03            |
| 29522 (A)            | 743885            | 9/24/2010            | MI10-0093            | Cottage Grove Soil - D9 Area            | 3M            | Z6            | 870            | 24.05            |
| 29523 (A)            | 743886            | 9/24/2010            | MI10-0093            | Cottage Grove Soil - D9 Area            | 3M            | Y4            | 870            | 23.54            |
| 29524 (A)            | 743887            | 9/24/2010            | MI10-0093            | Cottage Grove Soil - D9 Area            | 3M            | Z4            | 870            | 21.95            |
| <del>29528 (A)</del> | <del>743888</del> | <del>9/24/2010</del> | <del>MI10-0093</del> | <del>Cottage Grove Soil - D9 Area</del> | <del>3M</del> | <del>Y5</del> | <del>870</del> | <del>25.38</del> |
| <del>29533 (A)</del> | <del>743889</del> | <del>9/24/2010</del> | <del>MI10-0093</del> | <del>Cottage Grove Soil - D9 Area</del> | <del>3M</del> | <del>Z6</del> | <del>870</del> | <del>24.68</del> |
| <del>29536 (A)</del> | <del>743890</del> | <del>9/24/2010</del> | <del>MI10-0093</del> | <del>Cottage Grove Soil - D9 Area</del> | <del>3M</del> | <del>Y4</del> | <del>870</del> | <del>24.22</del> |
| <del>29540 (A)</del> | <del>743891</del> | <del>9/24/2010</del> | <del>MI10-0093</del> | <del>Cottage Grove Soil - D9 Area</del> | <del>3M</del> | <del>Z4</del> | <del>870</del> | <del>25.22</del> |
| <del>29542 (A)</del> | <del>743892</del> | <del>9/24/2010</del> | <del>MI10-0093</del> | <del>Cottage Grove Soil - D9 Area</del> | <del>3M</del> | <del>Y5</del> | <del>870</del> | <del>24.06</del> |
| <del>29546 (A)</del> | <del>743893</del> | <del>9/24/2010</del> | <del>MI10-0093</del> | <del>Cottage Grove Soil - D9 Area</del> | <del>3M</del> | <del>Z5</del> | <del>870</del> | <del>23.21</del> |
| <del>29547 (A)</del> | <del>743894</del> | <del>9/24/2010</del> | <del>MI10-0093</del> | <del>Cottage Grove Soil - D9 Area</del> | <del>3M</del> | <del>Y6</del> | <del>870</del> | <del>24.37</del> |

Total # of Loads: ~~41~~Total Tons: ~~988.51~~Grand Total (Tons): ~~988.51~~Grand Total (Loads): ~~41~~



REPORT NAME: **Tons Each Load By WSID**  
 DESCRIPTION: **Tonnage for EACH LOAD, grouped by customer**  
 DATE RANGE: **09/24/2010 to 09/24/2010**  
 PRINTED ON (DATE): **Tuesday, September 28, 2010**

**3MC35**

3M Company

Innovation Rd &amp; Rt 61

Cottage Grove MN 55016

| LOAD #               | MANIFEST          | ARRIVED              | WASTE STREAM         | WASTE NAME                              | CELL          | SPOT          | LIFT           | TONS             |
|----------------------|-------------------|----------------------|----------------------|---|---------------|---------------|----------------|------------------|
| 29433 (A)            | 743854            | 9/24/2010            | MI10-0093            | Cottage Grove Soil - D9 Area            | 3M            | Y4            | 870            | 28.20            |
| 29434 (A)            | 743856            | 9/24/2010            | MI10-0093            | Cottage Grove Soil - D9 Area            | 3M            | Y4            | 870            | 22.99            |
| 29435 (A)            | 743855            | 9/24/2010            | MI10-0093            | Cottage Grove Soil - D9 Area            | 3M            | Y4            | 870            | 23.62            |
| 29437 (A)            | 743857            | 9/24/2010            | MI10-0093            | Cottage Grove Soil - D9 Area            | 3M            | Y4            | 870            | 24.97            |
| 29440 (A)            | 743858            | 9/24/2010            | MI10-0093            | Cottage Grove Soil - D9 Area            | 3M            | Y4            | 870            | 24.67            |
| 29444 (A)            | 743859            | 9/24/2010            | MI10-0093            | Cottage Grove Soil - D9 Area            | 3M            | Z4            | 870            | 25.84            |
| 29447 (A)            | 743860            | 9/24/2010            | MI10-0093            | Cottage Grove Soil - D9 Area            | 3M            | Z4            | 870            | 25.69            |
| 29461 (A)            | 743861            | 9/24/2010            | MI10-0093            | Cottage Grove Soil - D9 Area            | 3M            | Z4            | 870            | 24.08            |
| 29462 (A)            | 743862            | 9/24/2010            | MI10-0093            | Cottage Grove Soil - D9 Area            | 3M            | Z4            | 870            | 25.49            |
| 29463 (A)            | 743863            | 9/24/2010            | MI10-0093            | Cottage Grove Soil - D9 Area            | 3M            | Z4            | 870            | 23.36            |
| <del>29466 (A)</del> | <del>743864</del> | <del>9/24/2010</del> | <del>MI10-0093</del> | <del>Cottage Grove Soil - D9 Area</del> | <del>3M</del> | <del>Y5</del> | <del>870</del> | <del>25.14</del> |
| <del>29469 (A)</del> | <del>743866</del> | <del>9/24/2010</del> | <del>MI10-0093</del> | <del>Cottage Grove Soil - D9 Area</del> | <del>3M</del> | <del>Y5</del> | <del>870</del> | <del>22.92</del> |
| <del>29471 (A)</del> | <del>743867</del> | <del>9/24/2010</del> | <del>MI10-0093</del> | <del>Cottage Grove Soil - D9 Area</del> | <del>3M</del> | <del>Y5</del> | <del>870</del> | <del>24.63</del> |
| <del>29472 (A)</del> | <del>743865</del> | <del>9/24/2010</del> | <del>MI10-0093</del> | <del>Cottage Grove Soil - D9 Area</del> | <del>3M</del> | <del>Y5</del> | <del>870</del> | <del>23.23</del> |
| <del>29473 (A)</del> | <del>743868</del> | <del>9/24/2010</del> | <del>MI10-0093</del> | <del>Cottage Grove Soil - D9 Area</del> | <del>3M</del> | <del>Y5</del> | <del>870</del> | <del>25.28</del> |
| <del>29484 (A)</del> | <del>743869</del> | <del>9/24/2010</del> | <del>MI10-0093</del> | <del>Cottage Grove Soil - D9 Area</del> | <del>3M</del> | <del>Z5</del> | <del>870</del> | <del>24.09</del> |
| <del>29486 (A)</del> | <del>743870</del> | <del>9/24/2010</del> | <del>MI10-0093</del> | <del>Cottage Grove Soil - D9 Area</del> | <del>3M</del> | <del>Z5</del> | <del>870</del> | <del>20.77</del> |
| <del>29487 (A)</del> | <del>743871</del> | <del>9/24/2010</del> | <del>MI10-0093</del> | <del>Cottage Grove Soil - D9 Area</del> | <del>3M</del> | <del>Z5</del> | <del>870</del> | <del>23.69</del> |
| <del>29494 (A)</del> | <del>743872</del> | <del>9/24/2010</del> | <del>MI10-0093</del> | <del>Cottage Grove Soil - D9 Area</del> | <del>3M</del> | <del>Z5</del> | <del>870</del> | <del>24.46</del> |
| <del>29496 (A)</del> | <del>743873</del> | <del>9/24/2010</del> | <del>MI10-0093</del> | <del>Cottage Grove Soil - D9 Area</del> | <del>3M</del> | <del>Z5</del> | <del>870</del> | <del>24.85</del> |
| <del>29497 (A)</del> | <del>743874</del> | <del>9/24/2010</del> | <del>MI10-0093</del> | <del>Cottage Grove Soil - D9 Area</del> | <del>3M</del> | <del>Z5</del> | <del>870</del> | <del>23.21</del> |
| <del>29499 (A)</del> | <del>743875</del> | <del>9/24/2010</del> | <del>MI10-0093</del> | <del>Cottage Grove Soil - D9 Area</del> | <del>3M</del> | <del>Z5</del> | <del>870</del> | <del>23.57</del> |
| <del>29501 (A)</del> | <del>743876</del> | <del>9/24/2010</del> | <del>MI10-0093</del> | <del>Cottage Grove Soil - D9 Area</del> | <del>3A</del> | <del>Y6</del> | <del>870</del> | <del>24.46</del> |
| <del>29506 (A)</del> | <del>743877</del> | <del>9/24/2010</del> | <del>MI10-0093</del> | <del>Cottage Grove Soil - D9 Area</del> | <del>3M</del> | <del>Y6</del> | <del>870</del> | <del>23.40</del> |
| <del>29511 (A)</del> | <del>743878</del> | <del>9/24/2010</del> | <del>MI10-0093</del> | <del>Cottage Grove Soil - D9 Area</del> | <del>3M</del> | <del>Y6</del> | <del>870</del> | <del>23.10</del> |
| <del>29513 (A)</del> | <del>743879</del> | <del>9/24/2010</del> | <del>MI10-0093</del> | <del>Cottage Grove Soil - D9 Area</del> | <del>3M</del> | <del>Y6</del> | <del>870</del> | <del>24.99</del> |
| <del>29514 (A)</del> | <del>743881</del> | <del>9/24/2010</del> | <del>MI10-0093</del> | <del>Cottage Grove Soil - D9 Area</del> | <del>3M</del> | <del>Y6</del> | <del>870</del> | <del>21.79</del> |
| <del>29515 (A)</del> | <del>743880</del> | <del>9/24/2010</del> | <del>MI10-0093</del> | <del>Cottage Grove Soil - D9 Area</del> | <del>3M</del> | <del>Z6</del> | <del>870</del> | <del>23.63</del> |
| <del>29516 (A)</del> | <del>743883</del> | <del>9/24/2010</del> | <del>MI10-0093</del> | <del>Cottage Grove Soil - D9 Area</del> | <del>3M</del> | <del>Z6</del> | <del>870</del> | <del>23.66</del> |
| <del>29517 (A)</del> | <del>743882</del> | <del>9/24/2010</del> | <del>MI10-0093</del> | <del>Cottage Grove Soil - D9 Area</del> | <del>3M</del> | <del>Z6</del> | <del>870</del> | <del>23.37</del> |
| <del>29520 (A)</del> | <del>743884</del> | <del>9/24/2010</del> | <del>MI10-0093</del> | <del>Cottage Grove Soil - D9 Area</del> | <del>3M</del> | <del>Z6</del> | <del>870</del> | <del>25.03</del> |
| <del>29522 (A)</del> | <del>743885</del> | <del>9/24/2010</del> | <del>MI10-0093</del> | <del>Cottage Grove Soil - D9 Area</del> | <del>3M</del> | <del>Z6</del> | <del>870</del> | <del>24.05</del> |
| <del>29523 (A)</del> | <del>743886</del> | <del>9/24/2010</del> | <del>MI10-0093</del> | <del>Cottage Grove Soil - D9 Area</del> | <del>3M</del> | <del>Y4</del> | <del>870</del> | <del>23.54</del> |
| <del>29524 (A)</del> | <del>743887</del> | <del>9/24/2010</del> | <del>MI10-0093</del> | <del>Cottage Grove Soil - D9 Area</del> | <del>3M</del> | <del>Z4</del> | <del>870</del> | <del>21.95</del> |
| 29528 (A)            | 743888            | 9/24/2010            | MI10-0093            | Cottage Grove Soil - D9 Area            | 3M            | Y5            | 870            | 25.38            |
| 29533 (A)            | 743889            | 9/24/2010            | MI10-0093            | Cottage Grove Soil - D9 Area            | 3M            | Z6            | 870            | 24.63            |
| 29536 (A)            | 743890            | 9/24/2010            | MI10-0093            | Cottage Grove Soil - D9 Area            | 3M            | Y4            | 870            | 24.22            |
| 29540 (A)            | 743891            | 9/24/2010            | MI10-0093            | Cottage Grove Soil - D9 Area            | 3M            | Z4            | 870            | 25.22            |
| 29542 (A)            | 743892            | 9/24/2010            | MI10-0093            | Cottage Grove Soil - D9 Area            | 3M            | Y5            | 870            | 24.06            |
| 29546 (A)            | 743893            | 9/24/2010            | MI10-0093            | Cottage Grove Soil - D9 Area            | 3M            | Z5            | 870            | 23.21            |
| 29547 (A)            | 743894            | 9/24/2010            | MI10-0093            | Cottage Grove Soil - D9 Area            | 3M            | Y6            | 870            | 24.37            |

**Total # of Loads: 41****Total Tons: 988.51****Grand Total (Tons): -988.51****Grand Total (Loads): -41**

REPORT NAME: **Tons Each Load By WSID**  
 DESCRIPTION: **Tonnage for EACH LOAD, grouped by customer**  
 DATE RANGE: **10/05/2010 to 10/05/2010**  
 PRINTED ON (DATE): **Wednesday, October 06, 2010**

**3MC35**  
 3M Company  
 Innovation Rd & Rt 61  
 Cottage Grove MN 55016

| LOAD #    | MANIFEST | ARRIVED   | WASTE STREAM | WASTE NAME                   | CELL | SPOT. | LIFT | TONS  |
|-----------|----------|-----------|--------------|------------------------------|------|-------|------|-------|
| 31274 (A) | 743895   | 10/5/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y2    | 870  | 22.52 |
| 31280 (A) | 743896   | 10/5/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y2    | 870  | 24.34 |
| 31289 (A) | 743898   | 10/5/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y2    | 870  | 24.40 |
| 31291 (A) | 743899   | 10/5/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y2    | 870  | 24.40 |
| 31293 (A) | 743900   | 10/5/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y2    | 870  | 24.65 |
| 31296 (A) | 743901   | 10/5/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z2    | 870  | 26.10 |
| 31302 (A) | 743902   | 10/5/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z2    | 870  | 24.62 |
| 31310 (A) | 743905   | 10/5/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z2    | 870  | 25.34 |
| 31321 (A) | 743903   | 10/5/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z2    | 870  | 24.76 |
| 31334 (A) | 743906   | 10/5/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z2    | 870  | 24.90 |
| 31345 (A) | 743907   | 10/5/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y3    | 870  | 25.79 |
| 31348 (A) | 743904   | 10/5/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y3    | 870  | 24.43 |
| 31353 (A) | 743908   | 10/5/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y3    | 870  | 24.94 |
| 31357 (A) | 743909   | 10/5/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y3    | 870  | 24.88 |
| 31365 (A) | 743910   | 10/5/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y3    | 870  | 24.15 |
| 31366 (A) | 743911   | 10/5/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z3    | 870  | 23.89 |
| 31374 (A) | 743912   | 10/5/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z3    | 870  | 26.31 |
| 31375 (A) | 743913   | 10/5/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z3    | 870  | 25.53 |
| 31386 (A) | 743914   | 10/5/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z3    | 870  | 24.84 |
| 31402 (A) | 743915   | 10/5/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z3    | 870  | 24.26 |
| 31406 (A) | 743916   | 10/5/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y2    | 870  | 25.80 |
| 31408 (A) | 743917   | 10/5/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y2    | 870  | 24.57 |
| 31413 (A) | 743918   | 10/5/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y2    | 870  | 22.35 |
| 31414 (A) | 743919   | 10/5/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y2    | 870  | 23.70 |
| 31428 (A) | 743920   | 10/5/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y2    | 870  | 24.06 |
| 31435 (A) | 743921   | 10/5/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z2    | 870  | 24.97 |
| 31440 (A) | 743922   | 10/5/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z2    | 870  | 25.17 |
| 31443 (A) | 743923   | 10/5/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z2    | 870  | 24.75 |
| 31449 (A) | 743924   | 10/5/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z2    | 870  | 24.91 |
| 31473 (A) | 743925   | 10/5/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z2    | 870  | 24.11 |
| 31476 (A) | 743926   | 10/5/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y3    | 870  | 24.44 |
| 31477 (A) | 743927   | 10/5/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y3    | 870  | 24.33 |
| 31478 (A) | 743928   | 10/5/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y3    | 870  | 23.82 |
| 31483 (A) | 743929   | 10/5/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y3    | 870  | 23.94 |
| 31490 (A) | 743930   | 10/5/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y3    | 870  | 23.48 |
| 31494 (A) | 743931   | 10/5/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z3    | 870  | 24.96 |
| 31495 (A) | 743932   | 10/5/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z3    | 870  | 20.94 |
| 31499 (A) | 743933   | 10/5/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z3    | 870  | 25.89 |
| 31507 (A) | 743934   | 10/5/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z3    | 870  | 24.50 |
| 31559 (A) | 743936   | 10/5/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z3    | 870  | 20.47 |
| 31561 (A) | 743935   | 10/5/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Z3    | 870  | 25.81 |
| 31565 (A) | 743937   | 10/5/2010 | MI10-0093    | Cottage Grove Soil - D9 Area | 3M   | Y3    | 870  | 24.71 |

**Total # of Loads: 42**

**Total Tons: 1,026.73**

**Grand Total (Tons): 1,026.73**  
**Grand Total (Loads): 42**

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**APPENDIX E-2**  
**UNIFORM HAZARDOUS WASTE MANIFESTS (EQ MANIFESTS)**

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(provided on disk at the end of the report)

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**APPENDIX E-3  
SKB WASTE MANIFESTS**

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(provided on disk at the end of the report)

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**APPENDIX E-4**  
**SKB MANIFESTS - INCIDENTAL MATERIAL**

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(provided on disk at the end of the report)

# Appendix F

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**APPENDIX F**  
**FIELD SAMPLING SHEETS**

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BLOCK NO: D9 1-1

SAMPLE DATE: 7/1/2010

STOCKPILE NO: N/A

BLOCK PARAMETERS: Paint Filter Test / pH

Weather: Clear (  ) Cloudy (  ) Rain/Snow (  ) Windy (  ) TEMP.: 61 °F

Stockpile Description (Check all that apply)

Soil Moisture: (  ) Dry

(  ) Soil

*handwritten* (  ) Moist

(  ) C&D Debris (Concrete, Asphalt, etc)

(  ) Wet

(  ) Mfg. Debris

(  ) Staining

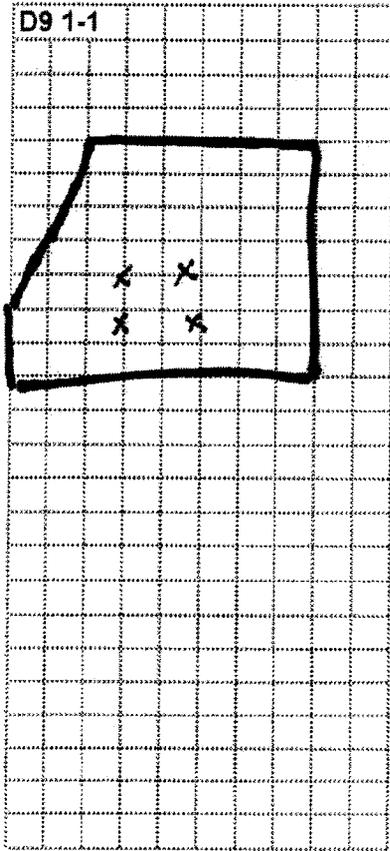
Odor: Strong (  ) Mild (  ) None (  )

1. Sketch Stockpile, Establish Dimensions, Describe Soil, and Locate Sample Locations.
2. Screen Stockpile with PID and Record GPS Coordinates for selected sample locations.
3. Provide a Sketch of the Stockpile, indicate north, and show PID readings and Sample Stations.
4. Collect Samples, Record ALL Data, Prepare COC, Count Bottles.

Designate Sample Locations on the Sketch with Reference Letter.

**SAMPLE DATA**

↑ N



1A CGMN-ESC-D9101PF1A-0-100701

Sample Time: 9:49  
 Sample Parameters: Paint Filter / pH  
 Sampled By: W. Westley  
 \*\*In-Place Sample Before Lime Kiln Dust was Added\*\*  
SAMPLE TAKEN @ 2-3' DEEP

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

X Composite Location for "1A" Sample

RINSATE SAMPLE:

from

Parameters: B (Benzene); X (Total Xylenes); T (Toluene); P (PCBs)

BLOCK NO: D9 1-2

SAMPLE DATE: 7/1/2010

STOCKPILE NO: N/A

BLOCK PARAMETERS: Paint Filter Test / pH

Weather: Clear (  ) Cloudy (  ) Rain/Snow (  ) Windy (  ) TEMP.: 61 °F

Stockpile Description (Check all that apply) Soil Moisture: (  ) Dry

(  ) Soil (  ) Moist

(  ) C&D Debris (Concrete, Asphalt, etc) (  ) Wet

(  ) Mfg. Debris

(  ) Staining Odor: Strong (  ) Mild (  ) None (  )

1. Sketch Stockpile. Establish Dimensions, Describe Soil, and Locate Sample Locations.
2. Screen Stockpile with PID and Record GPS Coordinates for selected sample locations.
3. Provide a Sketch of the Stockpile, indicate north, and show PID readings and Sample Stations.
4. Collect Samples. Record ALL Data, Prepare COC, Count Bottles.

Designate Sample Locations on the Sketch with Reference Letter.

**SAMPLE DATA**

1A CGMN-ESC-D9102PF1A-0-100701

Sample Time: 9:46

Sample Parameters: Paint Filter / pH

Sampled By: W. Westley

*\*\*In-Place Sample Before Lime Kiln Dust was Added\*\**

SAMPLE TAKEN @ 2-3' DEEP

Sample Time: \_\_\_\_\_

Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_

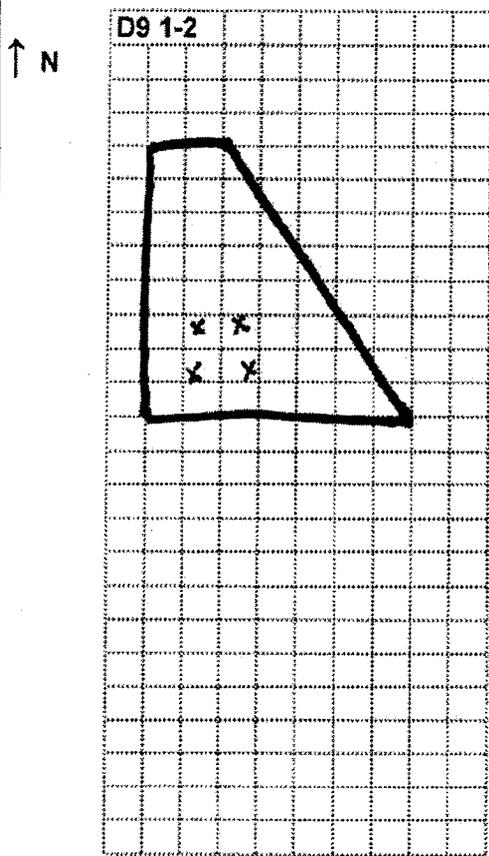
Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_

Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_



X Composite Location for "1A" Sample

RINSATE SAMPLE: \_\_\_\_\_ from \_\_\_\_\_

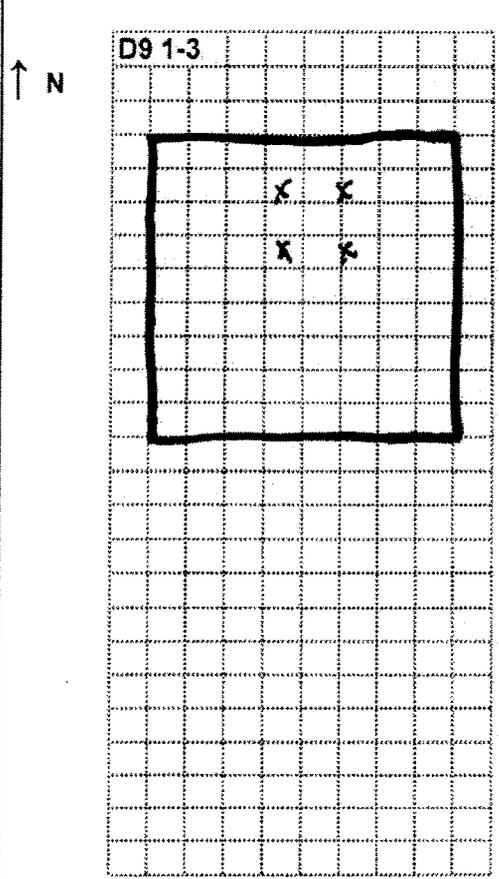
Parameters: B (Benzene); X (Total Xylenes); T (Toluene); P (PCBs)

BLOCK NO: D9 1-3 SAMPLE DATE: 7/1/2010  
 STOCKPILE NO: N/A BLOCK PARAMETERS: Paint Filter Test / pH

Weather: Clear (  ) Cloudy (  ) Rain/Snow (  ) Windy (  ) TEMP.: 61 °F  
 Stockpile Description (Check all that apply) Soil Moisture: (  ) Dry  
 (  ) Soil *mo* (  ) Moist  
 (  ) C&D Debris (Concrete, Asphalt, etc) (  ) Wet  
 (  ) Mfg. Debris  
 (  ) Staining Odor: Strong (  ) Mild (  ) None (  )

1. Sketch Stockpile, Establish Dimensions, Describe Soil, and Locate Sample Locations.
2. Screen Stockpile with PID and Record GPS Coordinates for selected sample locations.
3. Provide a Sketch of the Stockpile, indicate north, and show PID readings and Sample Stations.
4. Collect Samples, Record ALL Data, Prepare COC, Count Bottles.

Designate Sample Locations on the Sketch with Reference Letter.



X Composite Location for "1A" Sample

**SAMPLE DATA**

1A CGMN-ESC-D9103PF1A-0-100701

Sample Time: 10:05  
 Sample Parameters: Paint Filter / pH  
 Sampled By: W. Westley  
 \*\*In-Place Sample Before Lime Kiln Dust was Added\*\*  
SAMPLE TAKEN @ 2-3' DEEP

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Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

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Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

---

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

RINSATE SAMPLE: \_\_\_\_\_ from \_\_\_\_\_

Parameters: B (Benzene); X (Total Xylenes); T (Toluene); P (PCBs)

|  |  |
|--|--|
| <b>BLOCK NO:</b> <u>      D9 1-4      </u>   | <b>SAMPLE DATE:</b> <u>      7/1/2010      </u>  |
| <b>STOCKPILE NO:</b> <u>      N/A      </u>  | <b>BLOCK PARAMETERS:</b> <u>      Paint Filter Test / pH      </u>   |
| <b>Weather:</b> Clear ( <input checked="" type="checkbox"/> ) Cloudy ( <input type="checkbox"/> ) Rain/Snow ( <input type="checkbox"/> ) Windy ( <input type="checkbox"/> ) <b>TEMP.:</b> <u>      61      </u> °F   |  |
| <b>Stockpile Description</b> (Check all that apply) <b>Soil Moisture:</b> ( <input type="checkbox"/> ) Dry   |  |
| ( <input checked="" type="checkbox"/> ) Soil   | ( <input checked="" type="checkbox"/> ) Moist  |
| ( <input checked="" type="checkbox"/> ) C&D Debris (Concrete, Asphalt, etc)  | ( <input type="checkbox"/> ) Wet   |
| ( <input type="checkbox"/> ) Mfg. Debris   |  |
| ( <input type="checkbox"/> ) Staining  | <b>Odor:</b> Strong ( <input type="checkbox"/> ) Mild ( <input checked="" type="checkbox"/> ) None ( <input type="checkbox"/> )  |
| 1. Sketch Stockpile, Establish Dimensions, Describe Soil, and Locate Sample Locations.<br>2. Screen Stockpile with PID and Record GPS Coordinates for selected sample locations.<br>3. Provide a Sketch of the Stockpile, indicate north, and show PID readings and Sample Stations.<br>4. Collect Samples, Record ALL Data, Prepare COC, Count Bottles. |  |
| <b>Designate Sample Locations on the Sketch with Reference Letter.</b>   |  |
| <div style="display: flex; align-items: center;"> <div style="margin-right: 10px;">↑ N</div> <div style="border: 1px dashed black; padding: 5px;"> <p style="margin: 0;">D9 1-4</p> </div> </div>  | <p style="text-align:center;"><b>SAMPLE DATA</b></p> <p><b>1A</b>    <u>      CGMN-ESC-D9104PF1A-0-100701      </u></p> <hr/> <p>Sample Time: <u>      9:42      </u></p> <p>Sample Parameters: <u>      Paint Filter / pH      </u></p> <p>Sampled By: <u>      W. Westley      </u></p> <p style="font-size: small;">**In-Place Sample Before Lime Kiln Dust was Added**</p> <p><u>      SAMPLE TAKEN @ 2-3' DEEP      </u></p> <hr/> <p>Sample Time: _____</p> <p>Sample Parameters: _____</p> <p>Sampled By: _____</p> <hr/> <p>Sample Time: _____</p> <p>Sample Parameters: _____</p> <p>Sampled By: _____</p> <hr/> <p>Sample Time: _____</p> <p>Sample Parameters: _____</p> <p>Sampled By: _____</p> |
| <p>X Composite Location for "1A" Sample</p>  |  |
| <b>RINSATE SAMPLE:</b> _____ from _____  |  |

Parameters: B (Benzene); X (Total Xylenes); T (Toluene); P (PCBs)

**BLOCK NO:** D9 1-5      **SAMPLE DATE:** 7/1/2010

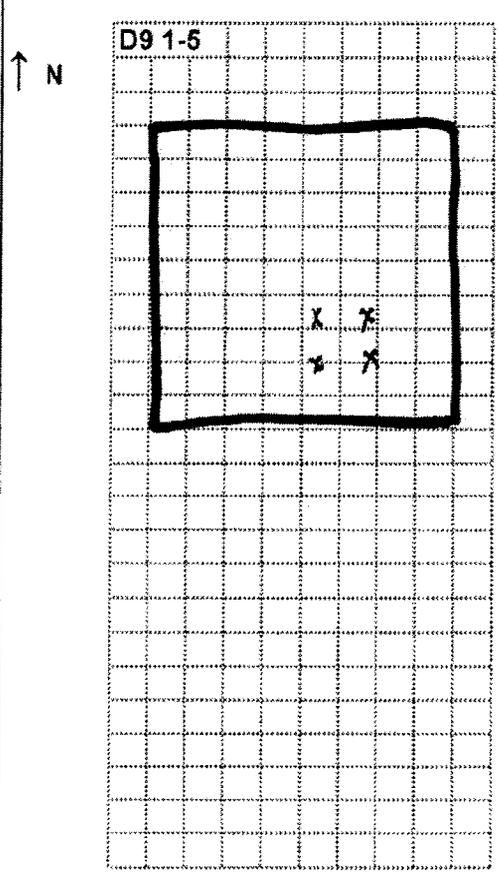
**STOCKPILE NO:** N/A      **BLOCK PARAMETERS:** Paint Filter Test / pH

**Weather:** Clear (  ) Cloudy (  ) Rain/Snow (  ) Windy (  ) **TEMP.:** 61 °F

**Stockpile Description** (Check all that apply)      **Soil Moisture:** (  ) Dry  
 (  ) Soil      (  ) Moist  
 (  ) C&D Debris (Concrete, Asphalt, etc)      (  ) Wet  
 (  ) Mfg. Debris  
 (  ) Staining      **Odor:** Strong (  ) Mild (  ) None (  )

1. Sketch Stockpile, Establish Dimensions, Describe Soil, and Locate Sample Locations.
2. Screen Stockpile with PID and Record GPS Coordinates for selected sample locations.
3. Provide a Sketch of the Stockpile, indicate north, and show PID readings and Sample Stations.
4. Collect Samples, Record ALL Data, Prepare COC, Count Bottles.

**Designate Sample Locations on the Sketch with Reference Letter.**



X Composite Location for "1A" Sample

**SAMPLE DATA**

**1A**      **CGMN-ESC-D9105PF1A-0-100701**

Sample Time: 10:12

Sample Parameters: Paint Filter / pH

Sampled By: W. Westley

\*\*In-Place Sample Before Lime Kiln Dust was Added\*\*

SAMPLE TAKEN @ 2-3' DEEP

Sample Time: \_\_\_\_\_

Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_

Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_

Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_

**RINSATE SAMPLE:** \_\_\_\_\_ from \_\_\_\_\_

Parameters: B (Benzene); X (Total Xylenes); T (Toluene); P (PCBs)

BLOCK NO: D9 1-6

SAMPLE DATE: 7/1/2010

STOCKPILE NO: N/A

BLOCK PARAMETERS: Paint Filter Test / pH

Weather: Clear (  ) Cloudy (  ) Rain/Snow (  ) Windy (  ) TEMP.: 61 °F

Stockpile Description (Check all that apply)

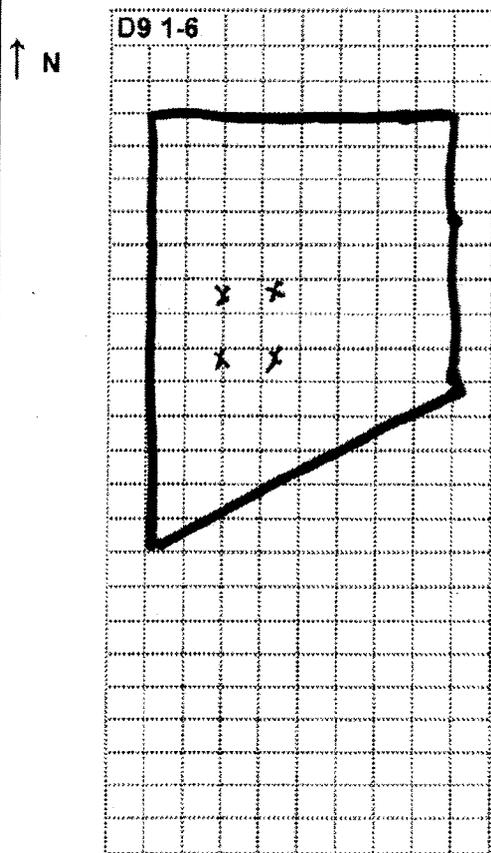
- (  ) Soil
- (  ) C&D Debris (Concrete, Asphalt, etc)
- (  ) Mfg. Debris
- (  ) Staining

Soil Moisture: (  ) Dry  
 (  ) Moist  
 (  ) Wet

Odor: Strong (  ) Mild (  ) None (  )

1. Sketch Stockpile, Establish Dimensions, Describe Soil, and Locate Sample Locations.
2. Screen Stockpile with PID and Record GPS Coordinates for selected sample locations.
3. Provide a Sketch of the Stockpile, indicate north, and show PID readings and Sample Stations.
4. Collect Samples, Record ALL Data, Prepare COC, Count Bottles.

Designate Sample Locations on the Sketch with Reference Letter.



X Composite Location for "1A" Sample

SAMPLE DATA

1A CGMN-ESC-D9106PF1A-0-100701

Sample Time: 10:08  
 Sample Parameters: Paint Filter / pH  
 Sampled By: W. Westley

\*\*In-Place Sample Before Lime Kiln Dust was Added\*\*

SAMPLE TAKEN @ 2-3' DEEP

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

RINSATE SAMPLE: \_\_\_\_\_ from \_\_\_\_\_

Parameters: B (Benzene); X (Total Xylenes); T (Toluene); P (PCBs)

BLOCK NO: D9 1-7

SAMPLE DATE: 7/1/2010

STOCKPILE NO: N/A

BLOCK PARAMETERS: Paint Filter Test / pH

Weather: Clear (  ) Cloudy (  ) Rain/Snow (  ) Windy (  ) TEMP.: 61 °F

Stockpile Description (Check all that apply)

Soil Moisture: (  ) Dry

(  ) Soil

(  ) Moist

(  ) C&D Debris (Concrete, Asphalt, etc)

(  ) Wet

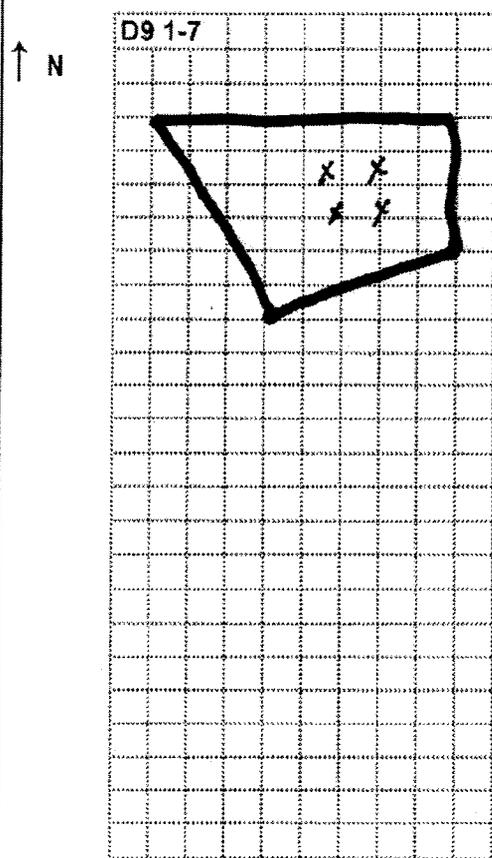
(  ) Mfg. Debris

(  ) Staining

Odor: Strong (  ) Mild (  ) None (  )

1. Sketch Stockpile, Establish Dimensions, Describe Soil, and Locate Sample Locations.
2. Screen Stockpile with PID and Record GPS Coordinates for selected sample locations.
3. Provide a Sketch of the Stockpile, indicate north, and show PID readings and Sample Stations.
4. Collect Samples, Record ALL Data, Prepare COC, Count Bottles.

Designate Sample Locations on the Sketch with Reference Letter.



**SAMPLE DATA**

1A CGMN-ESC-D9107PF1A-0-100701

Sample Time: 10:15

Sample Parameters: Paint Filter / pH

Sampled By: W. Westley

\*\*In-Place Sample Before Lime Kiln Dust was Added\*\*

SAMPLE TAKEN @ 2-3' DEEP

Sample Time: \_\_\_\_\_

Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_

Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_

Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_

X Composite Location for "1A" Sample

RINSATE SAMPLE:

from

Parameters: B (Benzene); X (Total Xylenes); T (Toluene); P (PCBs)

BLOCK NO: D9 1-8

SAMPLE DATE: 7/1/2010

STOCKPILE NO: N/A

BLOCK PARAMETERS: Paint Filter Test / pH

Weather: Clear (  ) Cloudy (  ) Rain/Snow (  ) Windy (  ) TEMP.: 61 °F

Stockpile Description (Check all that apply)

Soil Moisture: (  ) Dry

(  ) Soil

(  ) Moist

(  ) C&D Debris (Concrete, Asphalt, etc)

(  ) Wet

(  ) Mfg. Debris

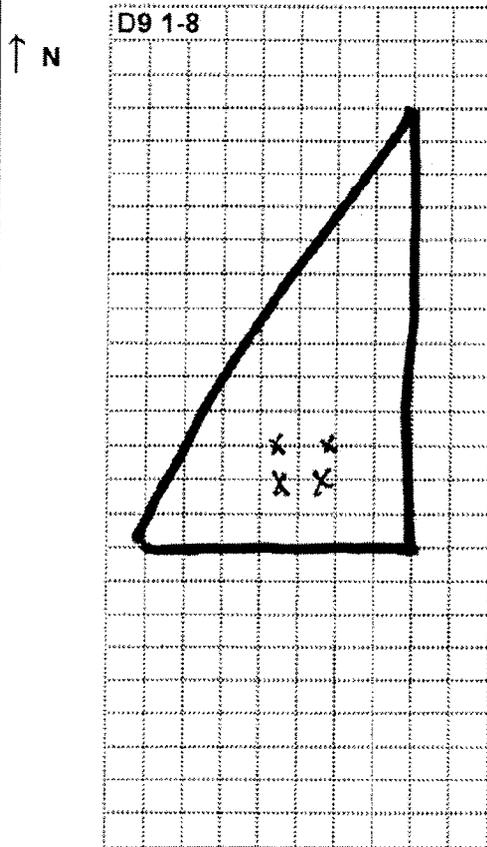
(  ) Staining

Odor: Strong (  ) Mild (  ) None (  )

1. Sketch Stockpile. Establish Dimensions, Describe Soil, and Locate Sample Locations.
2. Screen Stockpile with PID and Record GPS Coordinates for selected sample locations.
3. Provide a Sketch of the Stockpile, indicate north, and show PID readings and Sample Stations.
4. Collect Samples, Record ALL Data, Prepare COC. Count Bottles.

Designate Sample Locations on the Sketch with Reference Letter.

SAMPLE DATA



1A CGMN-ESC-D9108PF1A-0-100701

Sample Time: 9:51

Sample Parameters: Paint Filter / pH

Sampled By: W. Westley

\*\*In-Place Sample Before Lime Kiln Dust was Added\*\*

SAMPLE TAKEN @ 2-3' DEEP

Sample Time: \_\_\_\_\_

Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_

Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_

Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_

X Composite Location for "1A" Sample

RINSATE SAMPLE:

from \_\_\_\_\_

Parameters: B (Benzene); X (Total Xylenes); T (Toluene); P (PCBs)

BLOCK NO: D9 1-9

SAMPLE DATE: 7/1/2010

STOCKPILE NO: N/A

BLOCK PARAMETERS: Paint Filter Test / pH

Weather: Clear (  ) Cloudy (  ) Rain/Snow (  ) Windy (  ) TEMP.: 61 °F

Stockpile Description (Check all that apply)

Soil Moisture: (  ) Dry

(  ) Soil

(  ) Moist

(  ) C&D Debris (Concrete, Asphalt, etc)

(  ) Wet

(  ) Mfg. Debris

(  ) Staining

Odor: Strong (  ) Mild (  ) None (  )

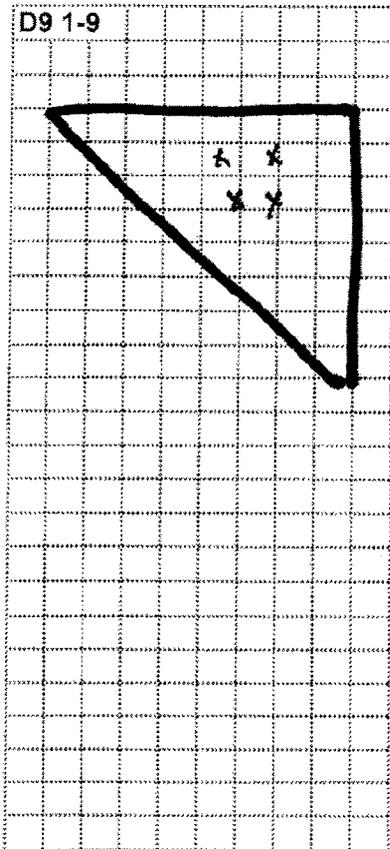
1. Sketch Stockpile, Establish Dimensions, Describe Soil, and Locate Sample Locations.
2. Screen Stockpile with PID and Record GPS Coordinates for selected sample locations.
3. Provide a Sketch of the Stockpile, indicate north, and show PID readings and Sample Stations.
4. Collect Samples, Record ALL Data, Prepare COC, Count Bottles.

Designate Sample Locations on the Sketch with Reference Letter.

**SAMPLE DATA**

**1A** CGMN-ESC-D9109PF1A-0-100701

↑ N



Sample Time: 9:59

Sample Parameters: Paint Filter / pH

Sampled By: W. Westley

**\*\*In-Place Sample Before Lime Kiln Dust was Added\*\***

SAMPLE TAKEN @ 2-3' DEEP

Sample Time: \_\_\_\_\_

Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_

Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_

Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_

X Composite Location for "1A" Sample

RINSATE SAMPLE:

from \_\_\_\_\_

Parameters: B (Benzene); X (Total Xylenes); T (Toluene); P (PCBs)

BLOCK NO: D9 1-10

SAMPLE DATE: 7/1/2010

STOCKPILE NO: N/A

BLOCK PARAMETERS: Paint Filter Test / pH

Weather: Clear (  ) Cloudy (  ) Rain/Snow (  ) Windy (  ) TEMP.: 61 °F

Stockpile Description (Check all that apply)

- (  ) Soil
- (  ) C&D Debris (Concrete, Asphalt, etc)
- (  ) Mfg. Debris
- (  ) Staining

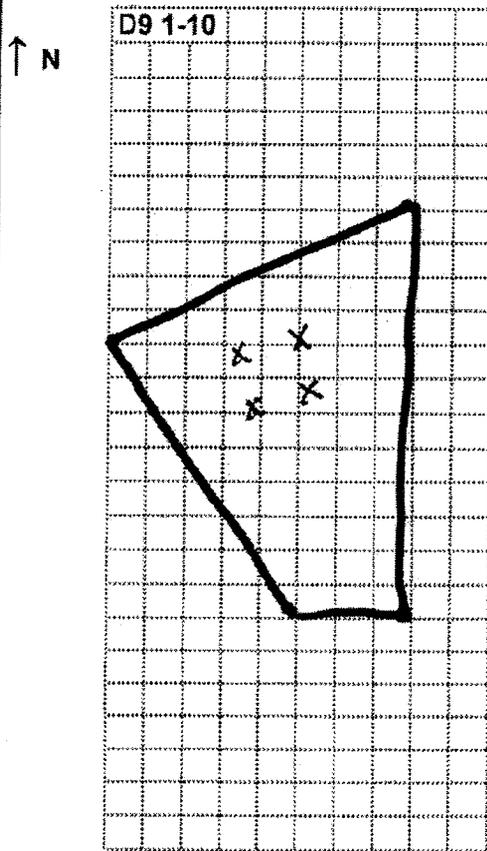
Soil Moisture: (  ) Dry  
 (  ) Moist  
 (  ) Wet

Odor: Strong (  ) Mild (  ) None (  )

1. Sketch Stockpile, Establish Dimensions, Describe Soil, and Locate Sample Locations.
2. Screen Stockpile with PID and Record GPS Coordinates for selected sample locations.
3. Provide a Sketch of the Stockpile, indicate north, and show PID readings and Sample Stations.
4. Collect Samples, Record ALL Data, Prepare COC, Count Bottles.

Designate Sample Locations on the Sketch with Reference Letter.

**SAMPLE DATA**



**1A** CGMN-ESC-D9110PF1A-0-100701  
CGMN-ESC-D9110PF1A-DB-100701

Sample Time: 10:18  
 Sample Parameters: Paint Filter / pH  
 Sampled By: W. Westley

\*\*In-Place Sample Before Lime Kiln Dust was Added\*\*

SAMPLE TAKEN @ 2-3' DEEP

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

X Composite Location for "1A" Sample

RINSATE SAMPLE: \_\_\_\_\_ from \_\_\_\_\_

Parameters: B (Benzene); X (Total Xylenes); T (Toluene); P (PCBs)

BLOCK NO: D9 2-1

SAMPLE DATE: 7/13/2010

STOCKPILE NO: N/A

BLOCK PARAMETERS: TCLP Metals

Weather: Clear (  ) Cloudy (  ) Rain/Snow (  ) Windy (  ) TEMP.: 73 °F

Stockpile Description (Check all that apply)

Soil Moisture: (  ) Dry

(  ) Soil

(  ) Moist

(  ) C&D Debris (Concrete, Asphalt, etc)

(  ) Wet

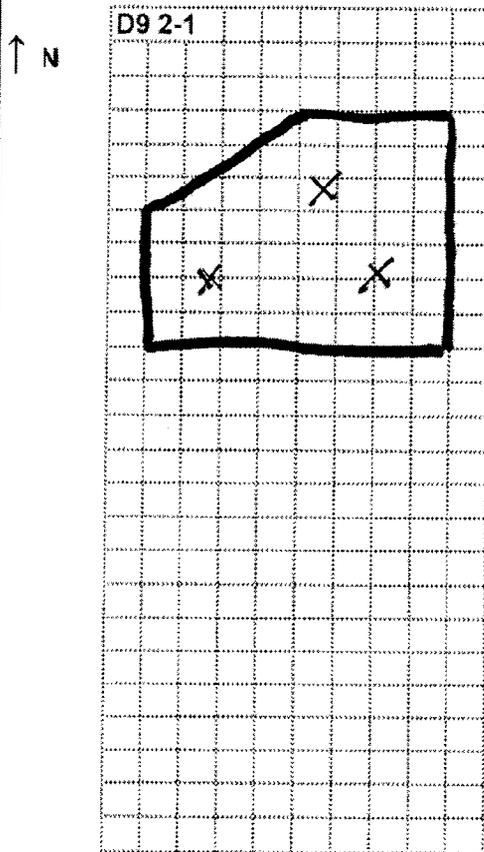
(  ) Mfg. Debris

(  ) Staining

Odor: Strong (  ) Mild (  ) None (  )

1. Sketch Stockpile, Establish Dimensions, Describe Soil, and Locate Sample Locations.
2. Screen Stockpile with PID and Record GPS Coordinates for selected sample locations.
3. Provide a Sketch of the Stockpile, indicate north, and show PID readings and Sample Stations.
4. Collect Samples, Record ALL Data, Prepare COC, Count Bottles.

Designate Sample Locations on the Sketch with Reference Letter.



**SAMPLE DATA**

A **CGMN-ESC-D9201TCLPA-0-100713**  
**CGMN-ESC-D9201TCLPA-DB-100713**  
**CGMN-ESC-D9201TCLPA-MS-100713**  
**CGMN-ESC-D9201TCLPA-MSD-100713**

Sample Time: 8:36

Sample Parameters: TCLP Metals

Sampled By: W. Westley

SAMPLES TAKEN @ 2-3' DEPTHS @ LOCATION

Sample Time: \_\_\_\_\_

Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_

Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_

Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_

Composite Location for "A" Sample

RINSATE SAMPLE:

from

Parameters: B (Benzene); X (Total Xylenes); T (Toluene); P (PCBs); PCE (Tetrachloroethylene)

BLOCK NO: D9 1-3

SAMPLE DATE: 7/16/2010

STOCKPILE NO: 001

BLOCK PARAMETERS: P, TCLP METALS (Pb Only)

Weather: Clear (  ) Cloudy (  ) Rain/Snow (  ) Windy (  ) TEMP.: 83 °F

Stockpile Description (Check all that apply)

Soil Moisture: (  ) Dry

(  ) Soil

(  ) Moist

(  ) C&D Debris (Concrete, Asphalt, etc)

(  ) Wet

(  ) Mfg. Debris

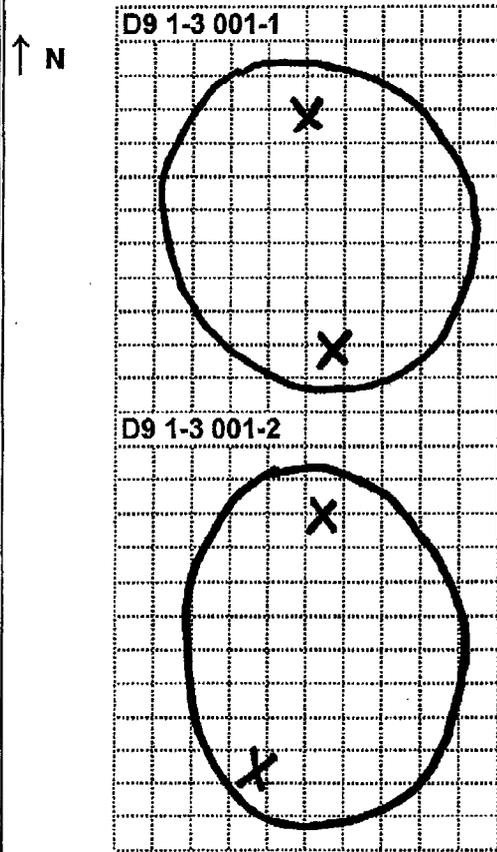
Odor: Strong (  ) Mild (  ) None (  )

(  ) Staining

1. Sketch Stockpile, Establish Dimensions, Describe Soil, and Locate Sample Locations.
2. Screen Stockpile with PID and Record GPS Coordinates for selected sample locations.
3. Provide a Sketch of the Stockpile, indicate north, and show PID readings and Sample Stations.
4. Collect Samples, Record ALL Data, Prepare COC, Count Bottles.

Designate Sample Locations on the Sketch with Reference Letter.

SAMPLE DATA



A CGMN-ESC-D9103001A-0-100716

Sample Time: 11:45  
 Sample Parameters: P & TCLP Pb  
 Sampled By: R. McLoughlin, W. Westley

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

**X** Composite Location for "A" Sample

RINSATE SAMPLE: \_\_\_\_\_ from \_\_\_\_\_

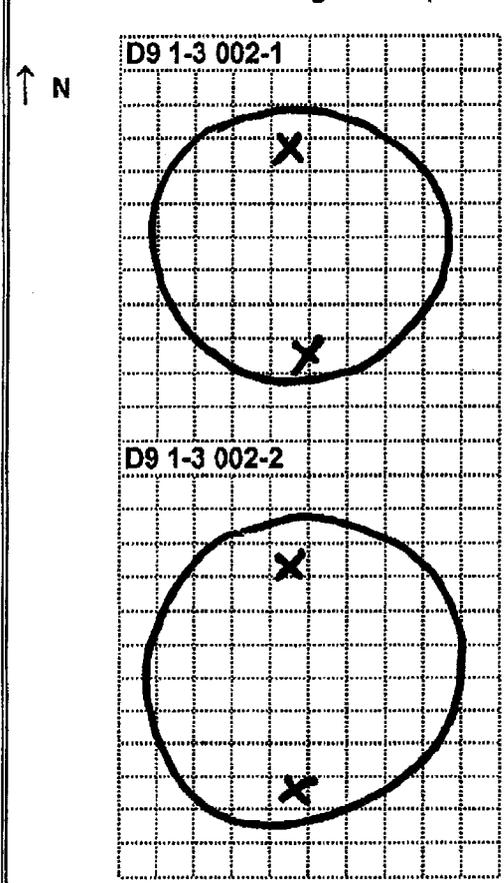
Parameters: B (Benzene); X (Total Xylenes); T (Toluene); P (PCBs); PCE (Tetrachloroethylene); Pb (Lead)

**BLOCK NO:** D9 1-3      **SAMPLE DATE:** 7/16/2010  
**STOCKPILE NO:** 002      **BLOCK PARAMETERS:** P, TCLP METALS (Pb Only)

**Weather:** Clear (  ) Cloudy (  ) Rain/Snow (  ) Windy (  )      **TEMP.:** 83 °F  
**Stockpile Description** (Check all that apply)      **Soil Moisture:** (  ) Dry  
(  ) Soil      (  ) Moist  
(  ) C&D Debris (Concrete, Asphalt, etc)      (  ) Wet  
(  ) Mfg. Debris  
(  ) Staining      **Odor:** Strong (  ) Mild (  ) None (  )

1. Sketch Stockpile, Establish Dimensions, Describe Soil, and Locate Sample Locations.
2. Screen Stockpile with PID and Record GPS Coordinates for selected sample locations.
3. Provide a Sketch of the Stockpile, indicate north, and show PID readings and Sample Stations.
4. Collect Samples, Record ALL Data, Prepare COC, Count Bottles.

**Designate Sample Locations on the Sketch with Reference Letter.**



**SAMPLE DATA**

**A**      CGMN-ESC-D9103002A-0-100716  
CGMN-ESC-D9103002A-DB-100716  
**Sample Time:** 11:54  
**Sample Parameters:** P & TCLP Pb  
**Sampled By:** R. McLoughlin, W. Westley

**Sample Time:** \_\_\_\_\_  
**Sample Parameters:** \_\_\_\_\_  
**Sampled By:** \_\_\_\_\_

**Sample Time:** \_\_\_\_\_  
**Sample Parameters:** \_\_\_\_\_  
**Sampled By:** \_\_\_\_\_

**Sample Time:** \_\_\_\_\_  
**Sample Parameters:** \_\_\_\_\_  
**Sampled By:** \_\_\_\_\_

**X** Composite Location for "A" Sample

**RINSATE SAMPLE:** \_\_\_\_\_ **from** \_\_\_\_\_

**Parameters:** B (Benzene); X (Total Xylenes); T (Toluene); P (PCBs); PCE (Tetrachloroethylene); Pb (Lead)

BLOCK NO: D9 1-3

SAMPLE DATE: 7/16/2010

STOCKPILE NO: 003

BLOCK PARAMETERS: P, TCLP METALS (Pb Only)

Weather: Clear (  ) Cloudy (  ) Rain/Snow (  ) Windy (  ) TEMP.: 83 °F

Stockpile Description (Check all that apply)

Soil Moisture: (  ) Dry

(  ) Soil

(  ) Moist

(  ) C&D Debris (Concrete, Asphalt, etc)

(  ) Wet

(  ) Mfg. Debris

(  ) Staining

Odor: Strong (  ) Mild (  ) None (  )

1. Sketch Stockpile, Establish Dimensions, Describe Soil, and Locate Sample Locations.
2. Screen Stockpile with PID and Record GPS Coordinates for selected sample locations.
3. Provide a Sketch of the Stockpile, indicate north, and show PID readings and Sample Stations.
4. Collect Samples, Record ALL Data, Prepare COC, Count Bottles.

Designate Sample Locations on the Sketch with Reference Letter.

**SAMPLE DATA**

**A** CGMN-ESC-D9103003A-0-100716

Sample Time: 11:52

Sample Parameters: P & TCLP Pb

Sampled By: R. McLoughlin, W. Westley

Sample Time: \_\_\_\_\_

Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_

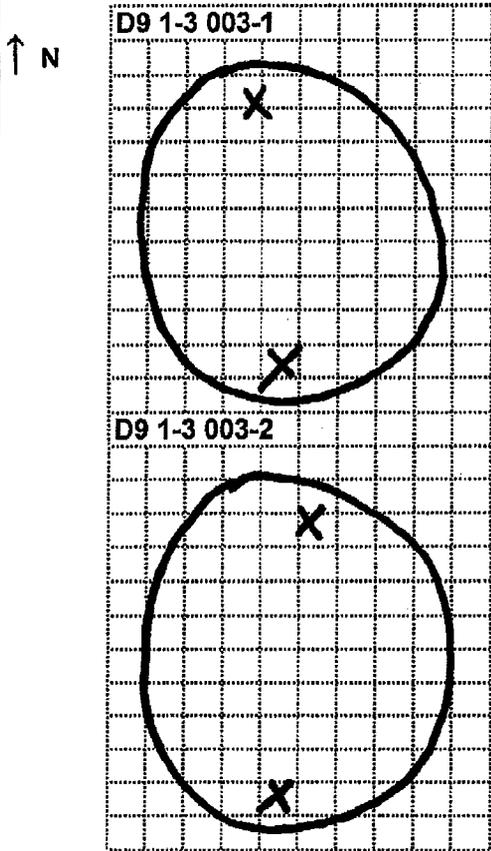
Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_

Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_



**X** Composite Location for "A" Sample

RINSATE SAMPLE: \_\_\_\_\_ from \_\_\_\_\_

Parameters: B (Benzene); X (Total Xylenes); T (Toluene); P (PCBs); PCE (Tetrachloroethylene); Pb (Lead)

BLOCK NO: D9 1-3

SAMPLE DATE: 7/16/2010

STOCKPILE NO: 004

BLOCK PARAMETERS: P, TCLP METALS (Pb Only)

Weather: Clear (  ) Cloudy (  ) Rain/Snow (  ) Windy (  ) TEMP.: 83 °F

Stockpile Description (Check all that apply)

Soil Moisture: (  ) Dry

(  ) Soil

(  ) Moist

(  ) C&D Debris (Concrete, Asphalt, etc)

(  ) Wet

(  ) Mfg. Debris

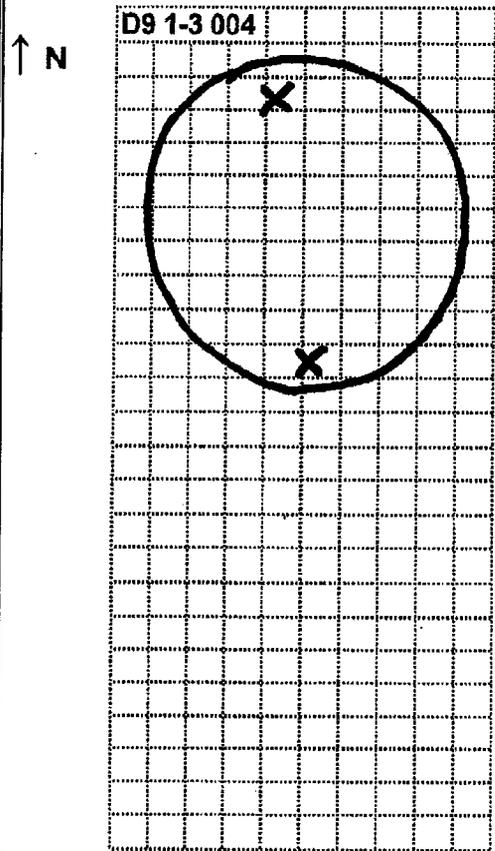
(  ) Staining

Odor: Strong (  ) Mild (  ) None (  )

1. Sketch Stockpile, Establish Dimensions, Describe Soil, and Locate Sample Locations.
2. Screen Stockpile with PID and Record GPS Coordinates for selected sample locations.
3. Provide a Sketch of the Stockpile, indicate north, and show PID readings and Sample Stations.
4. Collect Samples, Record ALL Data, Prepare COC, Count Bottles.

Designate Sample Locations on the Sketch with Reference Letter.

**SAMPLE DATA**



**A** CGMN-ESC-D9103004A-0-100716

Sample Time: 11:45

Sample Parameters: P & TCLP Pb

Sampled By: R. McLoughlin, W. Westley

Sample Time: \_\_\_\_\_

Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_

Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_

Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_

Composite Location for "A" Sample

RINSATE SAMPLE:

from

Parameters: B (Benzene); X (Total Xylenes); T (Toluene); P (PCBs); PCE (Tetrachloroethylene); Pb (Lead)

BLOCK NO: D9 1-2

SAMPLE DATE: 7/20/2010

STOCKPILE NO: -

BLOCK PARAMETERS: PFCs

Weather: Clear (  ) Cloudy (  ) Rain/Snow (  ) Windy (  ) TEMP.: 77 °F

Stockpile Description (Check all that apply)

Soil Moisture: (  ) Dry

(  ) Soil

(  ) Moist

(  ) C&D Debris (Concrete, Asphalt, etc)

(  ) Wet

(  ) Mfg. Debris

(  ) Staining

Odor: Strong (  ) Mild (  ) None (  )

1. Sketch Stockpile, Establish Dimensions, Describe Soil, and Locate Sample Locations.
2. Screen Stockpile with PID and Record GPS Coordinates for selected sample locations.
3. Provide a Sketch of the Stockpile, indicate north, and show PID readings and Sample Stations.
4. Collect Samples, Record ALL Data, Prepare COC, Count Bottles.

Designate Sample Locations on the Sketch with Reference Letter.

**SAMPLE DATA**

**AECOM Requested PFC Sample**

Sample Time: 10:50

Sample Parameters: PFCs

Sampled By: W. Westley

Notes:

- Samples double bagged in 4 quart Ziploc bags and not in plastic (nalgene) containers as per usual. Use of bags approved by C. Young (WESTON) & T. Coryell (AECOM). T. Coryell also informed AECOM the samples would arrive in Ziplocs.

- Sample collected from D9 1-2 (staged on EW-3)

- All samples labeled "D9 Area Excavation Soil Material - 7/20/10 @ 1050"

- Duplicate material retrieved and held onsite

- Sample collected per M. Gaetz instruction and approval

Sample Time: \_\_\_\_\_

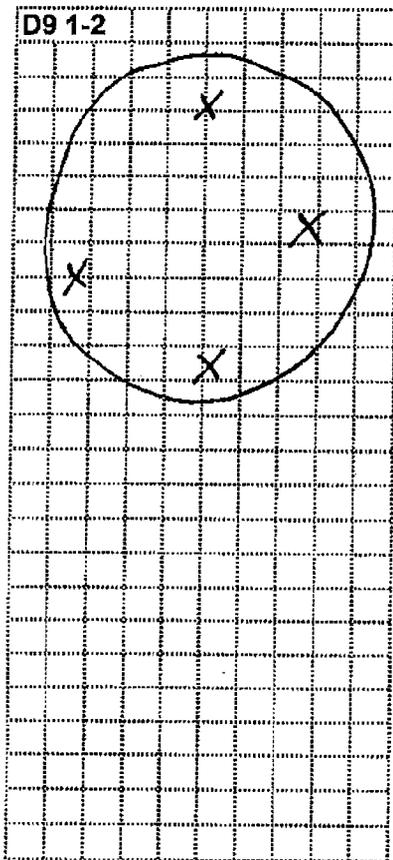
Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_

Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_



X Grab sample locations for individual AECOM Samples and for composite sample

RINSATE SAMPLE:

from

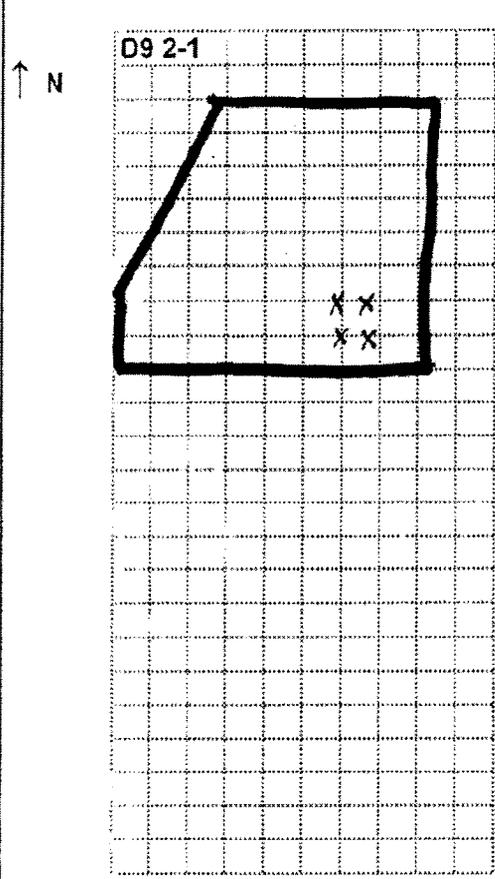
Parameters:

BLOCK NO: D9 2-1 SAMPLE DATE: 7/21/2010  
 STOCKPILE NO: - BLOCK PARAMETERS: Paint Filter Test, pH

Weather: Clear (  ) Cloudy (  ) Rain/Snow (  ) Windy (  ) TEMP.: 72 °F  
 Stockpile Description (Check all that apply) Soil Moisture: (  ) Dry  
 (  ) Soil (  ) Moist  
 (  ) C&D Debris (Concrete, Asphalt, etc) (  ) Wet  
 (  ) Mfg. Debris  
 (  ) Staining Odor: Strong (  ) Mild (  ) None (  )

1. Sketch Stockpile, Establish Dimensions, Describe Soil, and Locate Sample Locations.
2. Screen Stockpile with PID and Record GPS Coordinates for selected sample locations.
3. Provide a Sketch of the Stockpile, indicate north, and show PID readings and Sample Stations.
4. Collect Samples, Record ALL Data, Prepare COC, Count Bottles.

Designate Sample Locations on the Sketch with Reference Letter.



X Composite Location for "A" Sample

**SAMPLE DATA**

**A** CGMN-ESC-D9201PF1A-0-100721

Sample Time: 8:35  
 Sample Parameters: Paint Filter / pH  
 Sampled By: R. McLoughlin, W. Westley

---

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

---

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

---

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

RINSATE SAMPLE: \_\_\_\_\_ from \_\_\_\_\_

Parameters: B (Benzene); X (Total Xylenes); T (Toluene); P (PCBs); PCE (Tetrachloroethylene);

BLOCK NO: D9 2-2

SAMPLE DATE: 7/21/2010

STOCKPILE NO: -

BLOCK PARAMETERS: Paint Filter Test, pH

Weather: Clear (  ) Cloudy (  ) Rain/Snow (  ) Windy (  ) TEMP.: 72 °F

Stockpile Description (Check all that apply)

Soil Moisture: (  ) Dry

(  ) Soil

(  ) Moist

(  ) C&D Debris (Concrete, Asphalt, etc)

(  ) Wet

(  ) Mfg. Debris

(  ) Staining

Odor: Strong (  ) Mild (  ) None (  )

1. Sketch Stockpile, Establish Dimensions, Describe Soil, and Locate Sample Locations.
2. Screen Stockpile with PID and Record GPS Coordinates for selected sample locations.
3. Provide a Sketch of the Stockpile, indicate north, and show PID readings and Sample Stations.
4. Collect Samples, Record ALL Data, Prepare COC, Count Bottles.

Designate Sample Locations on the Sketch with Reference Letter.

**SAMPLE DATA**

A CGMN-ESC-D9202PF1A-0-100721

Sample Time: 8:40

Sample Parameters: Paint Filter / pH

Sampled By: R. McLoughlin, W. Westley

Sample Time: \_\_\_\_\_

Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_

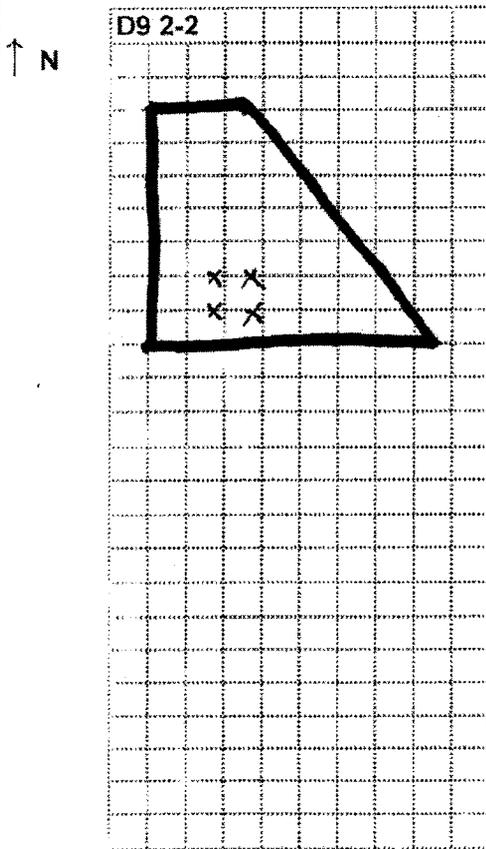
Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_

Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_



X Composite Location for "A" Sample

RINSATE SAMPLE:

from

Parameters: B (Benzene); X (Total Xylenes); T (Toluene); P (PCBs); PCE (Tetrachloro ethylene);

|  |   |
|--|---|
| <b>BLOCK NO:</b> <u>      D9 2-3      </u> | <b>SAMPLE DATE:</b> <u>      7/21/2010      </u>                  |
| <b>STOCKPILE NO:</b> <u>      -      </u>  | <b>BLOCK PARAMETERS:</b> <u>      Paint Filter Test, pH      </u> |

**Weather:** Clear (  ) Cloudy (  ) Rain/Snow (  ) Windy (  ) **TEMP.:**       72       °F

**Stockpile Description** (Check all that apply)      **Soil Moisture:** (  ) Dry  
 (  ) Soil      (  ) Moist  
 (  ) C&D Debris (Concrete, Asphalt, etc)      (  ) Wet  
 (  ) Mfg. Debris  
 (  ) Staining      **Odor:** Strong (  ) Mild (  ) None (  )

1. Sketch Stockpile, Establish Dimensions, Describe Soil, and Locate Sample Locations.
2. Screen Stockpile with PID and Record GPS Coordinates for selected sample locations.
3. Provide a Sketch of the Stockpile, indicate north, and show PID readings and Sample Stations.
4. Collect Samples, Record ALL Data, Prepare COC, Count Bottles.

**Designate Sample Locations on the Sketch with Reference Letter.**

|  |  |
|--|--|
| <div style="text-align: center;"> <p><b>D9 2-3</b></p> </div> <p style="margin-top: 20px;">X Composite Location for "A" Sample</p> | <p style="text-align: center;"><b>SAMPLE DATA</b></p> <p><b>A</b> <u>      CGMN-ESC-D9203PF1A-0-100721      </u></p> <hr/> <p>Sample Time: <u>      8:45      </u><br/>       Sample Parameters: <u>      Paint Filter / pH      </u><br/>       Sampled By: <u>      R McLoughlin, W. Westley      </u></p> <hr/> <p>Sample Time: _____<br/>       Sample Parameters: _____<br/>       Sampled By: _____</p> <hr/> <p>Sample Time: _____<br/>       Sample Parameters: _____<br/>       Sampled By: _____</p> |
|--|--|

**RINSATE SAMPLE:** \_\_\_\_\_ **from** \_\_\_\_\_

Parameters: B (Benzene); X (Total Xylenes); T (Toluene); P (PCBs); PCE (Tetrachloroethylene).

BLOCK NO: D9 2-4

SAMPLE DATE: 7/21/2010

STOCKPILE NO: -

BLOCK PARAMETERS: Paint Filter Test, pH

Weather: Clear (  ) Cloudy (  ) Rain/Snow (  ) Windy (  ) TEMP.: 72 °F

Stockpile Description (Check all that apply)

Soil Moisture: (  ) Dry

(  ) Soil

(  ) Moist

(  ) C&D Debris (Concrete, Asphalt, etc)

(  ) Wet

(  ) Mfg. Debris

(  ) Staining

Odor: Strong (  ) Mild (  ) None (  )

1. Sketch Stockpile, Establish Dimensions, Describe Soil, and Locate Sample Locations.
2. Screen Stockpile with PID and Record GPS Coordinates for selected sample locations.
3. Provide a Sketch of the Stockpile, indicate north, and show PID readings and Sample Stations.
4. Collect Samples, Record ALL Data, Prepare COC, Count Bottles.

Designate Sample Locations on the Sketch with Reference Letter.

**SAMPLE DATA**

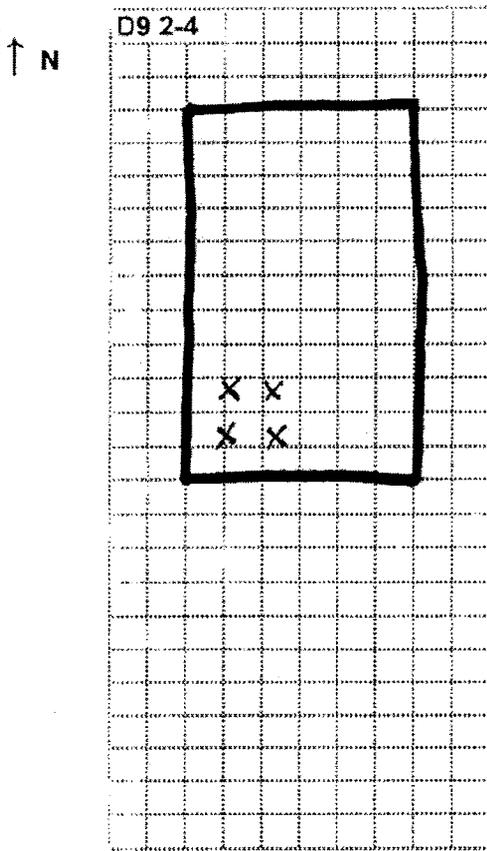
A CGMN-ESC-D9204PF1A-0-100721

Sample Time: 8:48  
 Sample Parameters: Paint Filter / pH  
 Sampled By: R. McLoughlin, W. Westley

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_



X Composite Location for "A" Sample

RINSATE SAMPLE: \_\_\_\_\_ from \_\_\_\_\_

Parameters: B (Benzene); X (Total Xylenes); T (Toluene); P (PCBs); PCE (Tetrachloroethylene);



BLOCK NO: D9 2-6

SAMPLE DATE: 7/21/2010

STOCKPILE NO: -

BLOCK PARAMETERS: Paint Filter Test, pH

Weather: Clear (  ) Cloudy (  ) Rain/Snow (  ) Windy (  ) TEMP.: 72 °F

Stockpile Description (Check all that apply)

Soil Moisture: (  ) Dry

(  ) Soil

(  ) Moist

(  ) C&D Debris (Concrete, Asphalt, etc)

(  ) Wet

(  ) Mfg. Debris

(  ) Staining

Odor: Strong (  ) Mild (  ) None (  )

1. Sketch Stockpile, Establish Dimensions, Describe Soil, and Locate Sample Locations.
2. Screen Stockpile with PID and Record GPS Coordinates for selected sample locations.
3. Provide a Sketch of the Stockpile, indicate north, and show PID readings and Sample Stations.
4. Collect Samples, Record ALL Data, Prepare COC, Count Bottles.

Designate Sample Locations on the Sketch with Reference Letter.

SAMPLE DATA

A CGMN-ESC-D9206PF1A-0-100721

Sample Time: 8:56

Sample Parameters: Paint Filter / pH

Sampled By: R. McLoughlin, W. Westley

Sample Time: \_\_\_\_\_

Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_

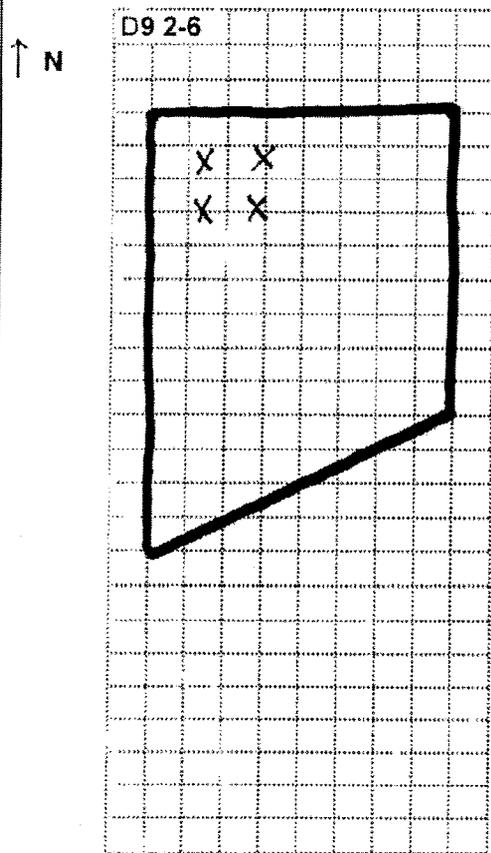
Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_

Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_



X Composite Location for "A" Sample

RINSATE SAMPLE: \_\_\_\_\_ from \_\_\_\_\_

Parameters: B (Benzene); X (Total Xylenes); T (Toluene); P (PCBs); PCE (Tetrachloroethylene).

|  |  |
|--|--|
| <b>BLOCK NO:</b> <u>    D9 2-7    </u>   | <b>SAMPLE DATE:</b> <u>    7/21/2010    </u>   |
| <b>STOCKPILE NO:</b> <u>    -    </u>  | <b>BLOCK PARAMETERS:</b> <u>    Paint Filter Test, pH    </u>  |
| <b>Weather:</b> Clear ( <input checked="" type="checkbox"/> ) Cloudy ( <input type="checkbox"/> ) Rain/Snow ( <input type="checkbox"/> ) Windy ( <input type="checkbox"/> ) <b>TEMP.:</b> <u>    72    </u> °F   |  |
| <b>Stockpile Description</b> (Check all that apply)  |  |
| ( <input checked="" type="checkbox"/> ) Soil   | <b>Soil Moisture:</b> ( <input type="checkbox"/> ) Dry   |
| ( <input checked="" type="checkbox"/> ) C&D Debris (Concrete, Asphalt, etc)  | ( <input checked="" type="checkbox"/> ) Moist  |
| ( <input checked="" type="checkbox"/> ) Mfg. Debris  | ( <input type="checkbox"/> ) Wet   |
| ( <input checked="" type="checkbox"/> ) Staining   | <b>Odor:</b> Strong ( <input type="checkbox"/> ) Mild ( <input type="checkbox"/> ) None ( <input checked="" type="checkbox"/> )  |
| <ol style="list-style-type: none"> <li>1. Sketch Stockpile. Establish Dimensions, Describe Soil, and Locate Sample Locations.</li> <li>2. Screen Stockpile with PID and Record GPS Coordinates for selected sample locations.</li> <li>3. Provide a Sketch of the Stockpile, indicate north, and show PID readings and Sample Stations.</li> <li>4. Collect Samples, Record ALL Data, Prepare COC, Count Bottles.</li> </ol> |  |
| <b>Designate Sample Locations on the Sketch with Reference Letter.</b>   |  |
| <div style="text-align: center;"><b>D9 2-7</b></div>   | <div style="text-align: center;"><b>SAMPLE DATA</b></div> <p><b>A</b> <u>    CGMN-ESC-D9207PF1A-0-100721    </u></p> <hr/> <p>Sample Time: <u>    9:00    </u></p> <p>Sample Parameters: <u>    Paint Filter / pH    </u></p> <p>Sampled By: <u>    R. McLoughlin, W. Westley    </u></p> <hr/> <p>Sample Time: _____</p> <p>Sample Parameters: _____</p> <p>Sampled By: _____</p> <hr/> <p>Sample Time: _____</p> <p>Sample Parameters: _____</p> <p>Sampled By: _____</p> <hr/> <p>Sample Time: _____</p> <p>Sample Parameters: _____</p> <p>Sampled By: _____</p> |
| <p><input checked="" type="checkbox"/> Composite Location for "A" Sample</p>   |  |
| <b>RINSATE SAMPLE:</b> _____ <b>from</b> _____   |  |

Parameters: B (Benzene); X (Total Xylenes); T (Toluene); P (PCBs); PCE (Tetrachloroethylene);

BLOCK NO: D9 2-8

SAMPLE DATE: 7/21/2010

STOCKPILE NO: -

BLOCK PARAMETERS: Paint Filter Test, pH

Weather: Clear (  ) Cloudy (  ) Rain/Snow (  ) Windy (  ) TEMP.: 72 °F

Stockpile Description (Check all that apply)

Soil Moisture: (  ) Dry

(  ) Soil

(  ) Moist

(  ) C&D Debris (Concrete, Asphalt, etc)

(  ) Wet

(  ) Mfg. Debris

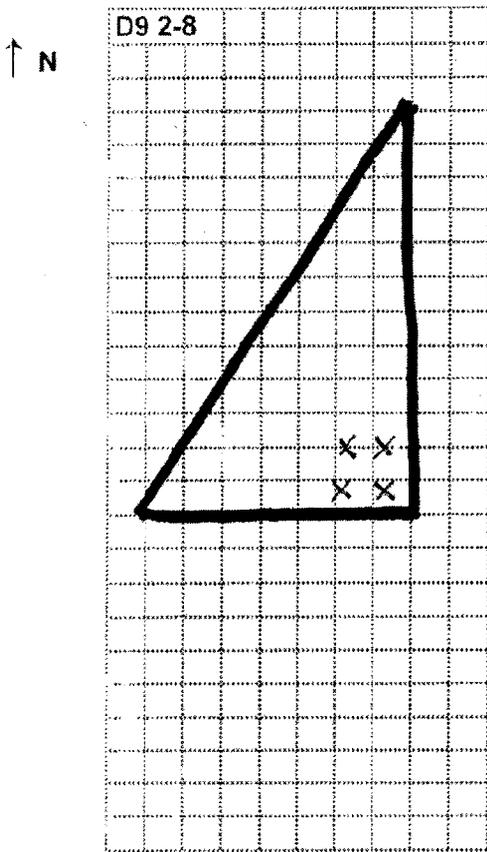
(  ) Staining

Odor: Strong (  ) Mild (  ) None (  )

1. Sketch Stockpile, Establish Dimensions, Describe Soil, and Locate Sample Locations.
2. Screen Stockpile with PID and Record GPS Coordinates for selected sample locations
3. Provide a Sketch of the Stockpile, indicate north, and show PID readings and Sample Stations.
4. Collect Samples, Record ALL Data, Prepare COC, Count Bottles.

Designate Sample Locations on the Sketch with Reference Letter.

SAMPLE DATA



A CGMN-ESC-D9208PF1A-0-100721

Sample Time: 9:04  
 Sample Parameters: Paint Filter / pH  
 Sampled By: R. McLoughlin, W. Westley

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

X Composite Location for "A" Sample

RINSATE SAMPLE: \_\_\_\_\_ from \_\_\_\_\_

Parameters: B (Benzene); X (Total Xylenes); T (Toluene); P (PCBs); PCE (Tetrachloroethylene);

BLOCK NO: D9 2-9

SAMPLE DATE: 7/21/2010

STOCKPILE NO: -

BLOCK PARAMETERS: Paint Filter Test, pH

Weather: Clear (  ) Cloudy (  ) Rain/Snow (  ) Windy (  ) TEMP.: 72 °F

Stockpile Description (Check all that apply)

Soil Moisture: (  ) Dry

(  ) Soil

(  ) Moist

(  ) C&D Debris (Concrete, Asphalt, etc)

(  ) Wet

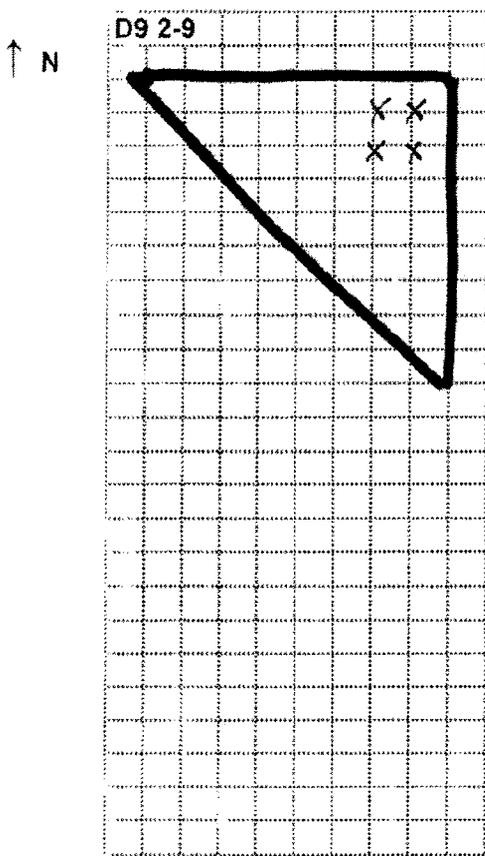
(  ) Mfg. Debris

(  ) Staining

Odor: Strong (  ) Mild (  ) None (  )

1. Sketch Stockpile, Establish Dimensions, Describe Soil, and Locate Sample Locations.
2. Screen Stockpile with PID and Record GPS Coordinates for selected sample locations.
3. Provide a Sketch of the Stockpile, indicate north, and show PID readings and Sample Stations.
4. Collect Samples, Record ALL Data, Prepare COC, Count Bottles.

Designate Sample Locations on the Sketch with Reference Letter.



X Composite Location for "A" Sample

**SAMPLE DATA**

**A** CGMN-ESC D9209PF1A-0-100721

Sample Time: 9:09  
 Sample Parameters: Paint Filter / pH  
 Sampled By: R. McLoughlin, W. Westley

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

RINSATE SAMPLE:

from

Parameters: B (Benzene); X (Total Xylenes); T (Toluene); P (PCBs); PCE (Tetrachloroethylene);

**BLOCK NO:** D9 2-2      **SAMPLE DATE:** 7/26/2010  
**STOCKPILE NO:** 001      **BLOCK PARAMETERS:** PCBs

**Weather:** Clear () Cloudy ( ) Rain/Snow ( ) Windy ( ) **TEMP.:** 83.9 °F  
**Stockpile Description** (Check all that apply)      **Soil Moisture:** () Dry  
 Soil      ( ) Moist  
( ) C&D Debris (Concrete, Asphalt, etc)      ( ) Wet  
( ) Mfg. Debris  
( ) Staining      **Odor:** Strong ( ) Mild ( ) None ()

1. Sketch Stockpile, Establish Dimensions, Describe Soil, and Locate Sample Locations.
2. Screen Stockpile with PID and Record GPS Coordinates for selected sample locations.
3. Provide a Sketch of the Stockpile, indicate north, and show PID readings and Sample Stations.
4. Collect Samples, Record ALL Data, Prepare COC, Count Bottles.

Designate Sample Locations on the Sketch with Reference Letter.

|   |   |
|---|---|
| <p style="text-align: center;"><b>D9 2-2 001-1</b></p> <p style="text-align: center;"><b>D9 2-2 001-2</b></p> | <p style="text-align: center;"><b>SAMPLE DATA</b></p> <p><b>A</b>    <u>CGMN-ESC-D9202001A-0-100726</u></p> <hr/> <p>Sample Time: <u>11:39</u><br/> Sample Parameters: <u>PCBs</u><br/> Sampled By: <u>D. Armstrong/W. Westley</u></p> <hr/> <p>Sample Time: _____<br/> Sample Parameters: _____<br/> Sampled By: _____</p> <hr/> <p>Sample Time: _____<br/> Sample Parameters: _____<br/> Sampled By: _____</p> <hr/> <p>Sample Time: _____<br/> Sample Parameters: _____<br/> Sampled By: _____</p> |
|---|---|

Headspace Readings (ppm) DLA  
\* Composite Location for PCBs

**RINSATE SAMPLE:** \_\_\_\_\_ from \_\_\_\_\_

Parameters: B (Benzene); X (Total Xylenes); T (Toluene); P (PCBs)

BLOCK NO: D9 2-2

SAMPLE DATE: 7/26/2010

STOCKPILE NO: 002

BLOCK PARAMETERS: PCBs

Weather: Clear (  ) Cloudy (  ) Rain/Snow (  ) Windy (  ) TEMP.: 83.9 °F

Stockpile Description (Check all that apply)

Soil Moisture: (  ) Dry

(  ) Soil

(  ) Moist

(  ) C&D Debris (Concrete, Asphalt, etc)

(  ) Wet

(  ) Mfg. Debris

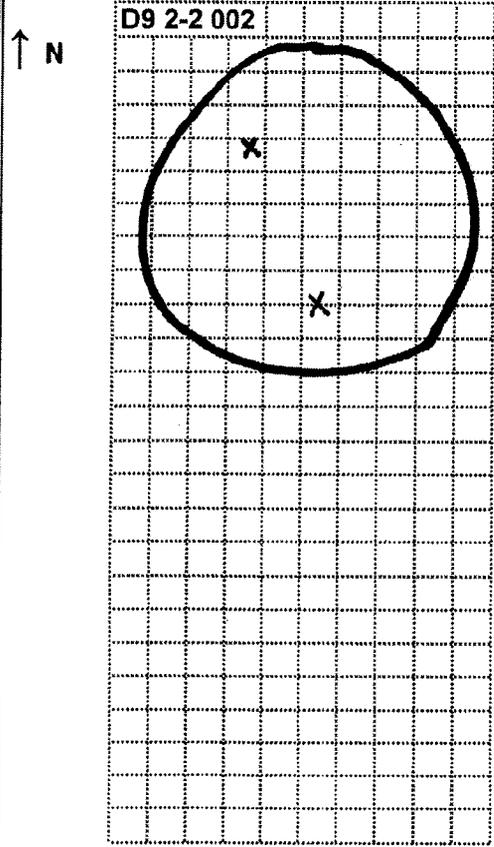
(  ) Staining

Odor: Strong (  ) Mild (  ) None (  )

1. Sketch Stockpile, Establish Dimensions, Describe Soil, and Locate Sample Locations.
2. Screen Stockpile with PID and Record GPS Coordinates for selected sample locations.
3. Provide a Sketch of the Stockpile, indicate north, and show PID readings and Sample Stations.
4. Collect Samples, Record ALL Data, Prepare COC, Count Bottles.

Designate Sample Locations on the Sketch with Reference Letter.

**SAMPLE DATA**



**A** CGMN-ESC-D9202002A-0-100726

Sample Time: 11:33

Sample Parameters: PCBs

Sampled By: D. Armstrong/W. Westley

Sample Time: \_\_\_\_\_

Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_

Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_

Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_

~~Headspace Readings (ppm) OLA~~

X Composite Location for PCBs

RINSATE SAMPLE: \_\_\_\_\_

from \_\_\_\_\_

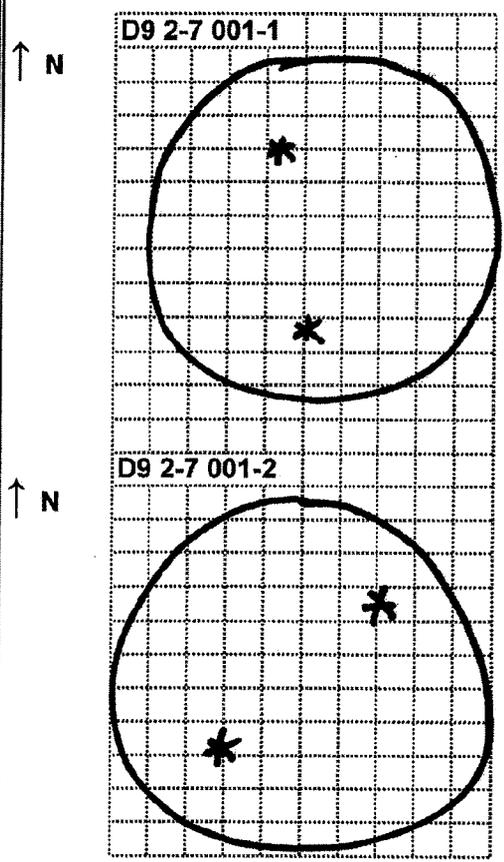
Parameters: B (Benzene); X (Total Xylenes); T (Toluene); P (PCBs)

**BLOCK NO:** D9 2-7      **SAMPLE DATE:** 7/30/2010  
**STOCKPILE NO:** 001      **BLOCK PARAMETERS:** PCB/TCLP Benzene/pH

**Weather:** Clear ( ) Cloudy ( X ) Rain/Snow ( ) Windy ( ) **TEMP.:** 72.2 °F  
**Stockpile Description** (Check all that apply)      **Soil Moisture:** ( ) Dry  
 ( X ) Soil      ( X ) Moist  
 ( ) C&D Debris (Concrete, Asphalt, etc)      ( ) Wet  
 ( ) Mfg. Debris  
 ( ) Staining      **Odor:** Strong ( X ) Mild ( ) None ( )

1. Sketch Stockpile, Establish Dimensions, Describe Soil, and Locate Sample Locations.
2. Screen Stockpile with PID and Record GPS Coordinates for selected sample locations.
3. Provide a Sketch of the Stockpile, indicate north, and show PID readings and Sample Stations.
4. Collect Samples, Record ALL Data, Prepare COC, Count Bottles.

Designate Sample Locations on the Sketch with Reference Letter.



**SAMPLE DATA**

**A**      CGMN-ESC-D9207001A-0-100730  
CGMN-ESC-D9207001A-DB-100730  
 Sample Time: 12:13  
 Sample Parameters: PCB/TCLP Benzene/pH  
 Sampled By: D. Armstrong

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Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

---

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

---

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

\*Composite Location for TCLP/PCBs

**RINSATE SAMPLE:** \_\_\_\_\_ from \_\_\_\_\_

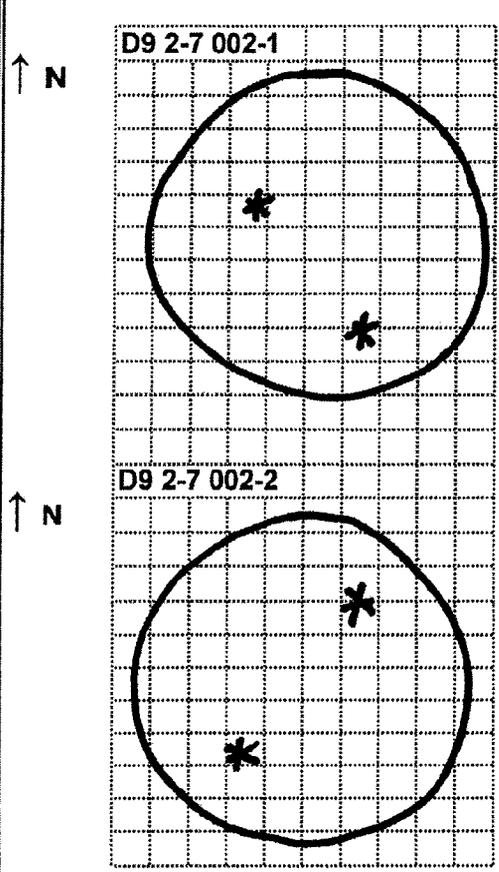
Parameters: B (Benzene); X (Total Xylenes); T (Toluene); P (PCBs)

**BLOCK NO:** D9 2-7      **SAMPLE DATE:** 7/30/2010  
**STOCKPILE NO:** 002      **BLOCK PARAMETERS:** PCB/TCLP Benzene/pH

**Weather:** Clear ( ) Cloudy ( X ) Rain/Snow ( ) Windy ( ) **TEMP.:** 72.2 °F  
**Stockpile Description** (Check all that apply)      **Soil Moisture:** ( ) Dry  
 ( X ) Soil      ( X ) Moist  
 ( ) C&D Debris (Concrete, Asphalt, etc)      ( ) Wet  
 ( ) Mfg. Debris  
 ( ) Staining      **Odor:** Strong ( X ) Mild ( ) None ( )

1. Sketch Stockpile, Establish Dimensions, Describe Soil, and Locate Sample Locations.
2. Screen Stockpile with PID and Record GPS Coordinates for selected sample locations.
3. Provide a Sketch of the Stockpile, indicate north, and show PID readings and Sample Stations.
4. Collect Samples, Record ALL Data, Prepare COC, Count Bottles.

**Designate Sample Locations on the Sketch with Reference Letter.**



**SAMPLE DATA**  
**A**      CGMN-ESC-D9207002A-0-100730

Sample Time: 12:21  
 Sample Parameters: PCB/TCLP Benzene/pH  
 Sampled By: D. Armstrong

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

\* Composite Location for TCLP/PCBs

**RINSATE SAMPLE:** \_\_\_\_\_ **from** \_\_\_\_\_

Parameters: B (Benzene); X (Total Xylenes); T (Toluene); P (PCBs)

BLOCK NO: D9 2-9

SAMPLE DATE: 7/30/2010

STOCKPILE NO: 001

BLOCK PARAMETERS: PCB/TCLP Benzene

Weather: Clear ( ) Cloudy ( X ) Rain/Snow ( ) Windy ( ) TEMP.: 72.2 °F

Stockpile Description (Check all that apply)

Soil Moisture: ( X ) Dry

( X ) Soil

( ) Moist

( ) C&D Debris (Concrete, Asphalt, etc)

( ) Wet

( ) Mfg. Debris

( ) Staining

Odor: Strong ( X ) Mild ( ) None ( )

1. Sketch Stockpile, Establish Dimensions, Describe Soil, and Locate Sample Locations.
2. Screen Stockpile with PID and Record GPS Coordinates for selected sample locations.
3. Provide a Sketch of the Stockpile, indicate north, and show PID readings and Sample Stations.
4. Collect Samples, Record ALL Data, Prepare COC, Count Bottles.

Designate Sample Locations on the Sketch with Reference Letter.

**SAMPLE DATA**

**A** CGMN-ESC-D9209001A-0-100730

Sample Time: 11:57

Sample Parameters: PCB/TCLP Benzene

Sampled By: D. Armstrong

Sample Time: \_\_\_\_\_

Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_

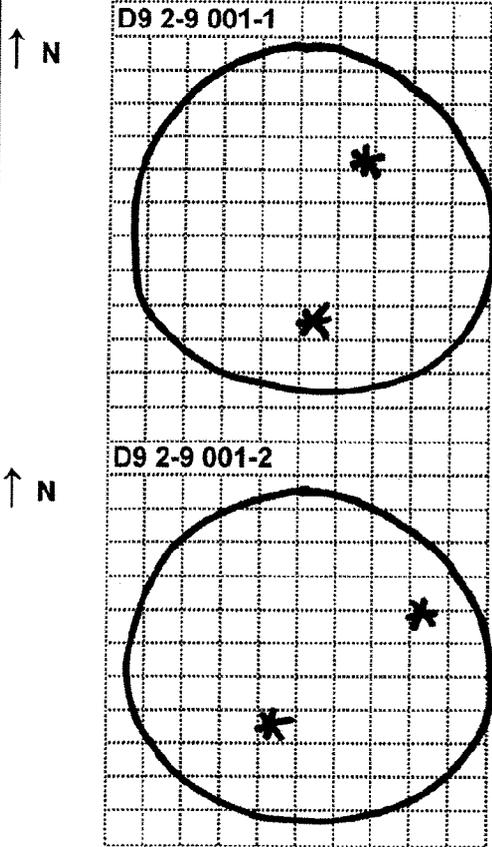
Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_

Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_



\* Composite Location for TCLP/PCBs

RINSATE SAMPLE: \_\_\_\_\_

from \_\_\_\_\_

Parameters: B (Benzene); X (Total Xylenes); T (Toluene); P (PCBs)

BLOCK NO: D9 2-9

SAMPLE DATE: 7/30/2010

STOCKPILE NO: 002

BLOCK PARAMETERS: PCB/TCLP Benzene

Weather: Clear ( ) Cloudy ( X ) Rain/Snow ( ) Windy ( ) TEMP.: 72.2 °F

Stockpile Description (Check all that apply)

Soil Moisture: ( X ) Dry

( X ) Soil

( ) Moist

( ) C&D Debris (Concrete, Asphalt, etc)

( ) Wet

( ) Mfg. Debris

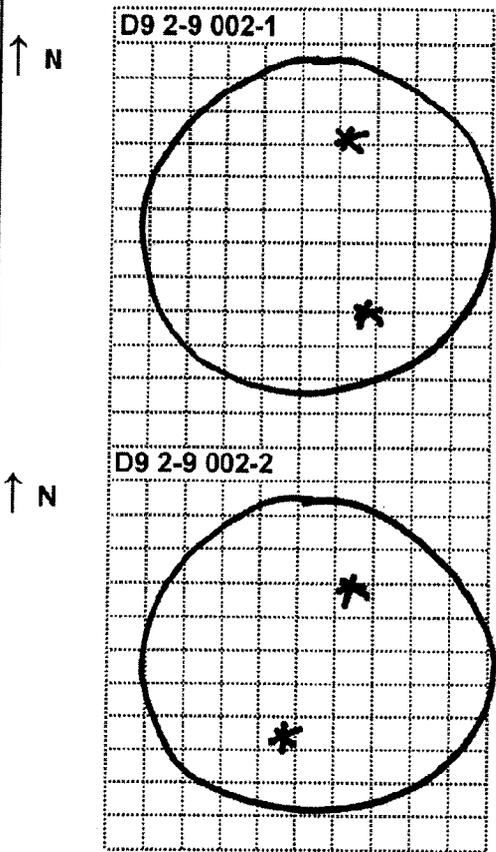
( ) Staining

Odor: Strong ( X ) Mild ( ) None ( )

1. Sketch Stockpile, Establish Dimensions, Describe Soil, and Locate Sample Locations.
2. Screen Stockpile with PID and Record GPS Coordinates for selected sample locations.
3. Provide a Sketch of the Stockpile, indicate north, and show PID readings and Sample Stations.
4. Collect Samples, Record ALL Data, Prepare COC, Count Bottles.

Designate Sample Locations on the Sketch with Reference Letter.

SAMPLE DATA



A CGMN-ESC-D9209002A-0-100730

Sample Time: 12:04

Sample Parameters: PCB/TCLP Benzene

Sampled By: D. Armstrong

Sample Time: \_\_\_\_\_

Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_

Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_

Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_

\* Composite Location for TCLP/PCBs

RINSATE SAMPLE:

from

Parameters: B (Benzene); X (Total Xylenes); T (Toluene); P (PCBs)

BLOCK NO: D9 1-9

SAMPLE DATE: 8/2/2010

STOCKPILE NO: 001

BLOCK PARAMETERS: TCLP VOCs (Benzene & PCE)/pH

Weather: Clear ( ) Cloudy ( X ) Rain/Snow ( ) Windy ( ) TEMP.: 81.4 °F

Stockpile Description (Check all that apply)      Soil Moisture: ( X ) Dry

( X ) Soil      ( ) Moist

( ) C&D Debris (Concrete, Asphalt, etc)      ( ) Wet

( ) Mfg. Debris

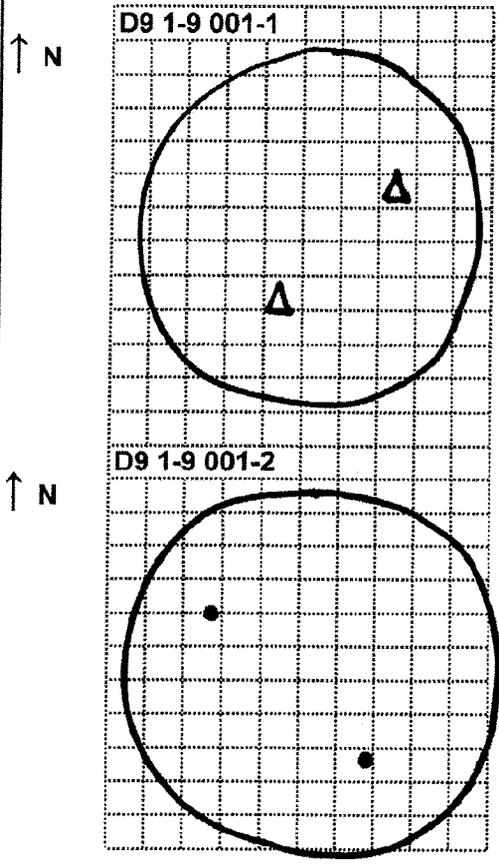
( ) Staining

Odor: Strong ( X ) Mild ( ) None ( )

1. Sketch Stockpile, Establish Dimensions, Describe Soil, and Locate Sample Locations.
2. Screen Stockpile with PID and Record GPS Coordinates for selected sample locations.
3. Provide a Sketch of the Stockpile, indicate north, and show PID readings and Sample Stations.
4. Collect Samples, Record ALL Data, Prepare COC, Count Bottles.

Designate Sample Locations on the Sketch with Reference Letter.

**SAMPLE DATA**



**D** CGMN-ESC-D9109001D-0-100802

Sample Time: 12:01

Sample Parameters: TCLP VOCS (Benzene & PCE)

Sampled By: D. Armstrong

**E** CGMN-ESC-D9109001E-0-100802  
CGMN-ESC-D9109001E-DB-100802

Sample Time: 12:07

Sample Parameters: TCLP VOCS (Benzene & PCE)/pH

Sampled By: D. Armstrong

MS/MSD collected from sample location.

Sample Time: \_\_\_\_\_

Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_

Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_

- ▲ Composite Location for "D" Sample.
- Composite Location for "E" Sample.

RINSATE SAMPLE: \_\_\_\_\_ from \_\_\_\_\_

Parameters: B (Benzene); X (Total Xylenes); T (Toluene); P (PCBs)

BLOCK NO: D9 1-9

SAMPLE DATE: 8/2/2010

STOCKPILE NO: 002

BLOCK PARAMETERS: TCLP VOCs (Benzene & PCE)/pH

Weather: Clear ( ) Cloudy ( X ) Rain/Snow ( ) Windy ( ) TEMP.: 81.4 °F

Stockpile Description (Check all that apply)

Soil Moisture: ( X ) Dry

( X ) Soil

( ) Moist

( ) C&D Debris (Concrete, Asphalt, etc)

( ) Wet

( ) Mfg. Debris

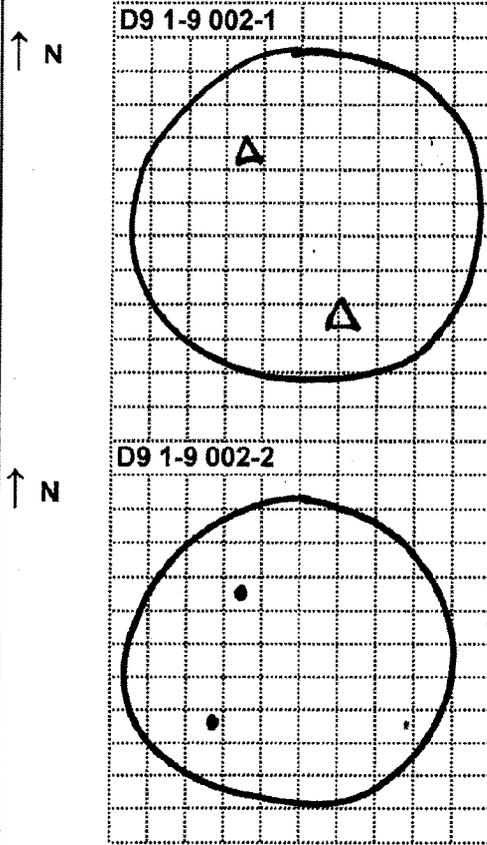
( ) Staining

Odor: Strong ( X ) Mild ( ) None ( )

1. Sketch Stockpile, Establish Dimensions, Describe Soil, and Locate Sample Locations.
2. Screen Stockpile with PID and Record GPS Coordinates for selected sample locations.
3. Provide a Sketch of the Stockpile, indicate north, and show PID readings and Sample Stations.
4. Collect Samples, Record ALL Data, Prepare COC, Count Bottles.

Designate Sample Locations on the Sketch with Reference Letter.

SAMPLE DATA



D CGMN-ESC-D9109002D-0-100802

Sample Time: 12:12  
 Sample Parameters: TCLP VOCs (Benzene & PCE)/pH  
 Sampled By: D. Armstrong

E CGMN-ESC-D9109002E-0-100802

Sample Time: 12:16  
 Sample Parameters: TCLP VOCs (Benzene & PCE)  
 Sampled By: D. Armstrong

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

- △ Composite Location for "D" Sample.
- Composite Location for "E" Sample.

RINSATE SAMPLE: \_\_\_\_\_ from \_\_\_\_\_

Parameters: B (Benzene); X (Total Xylenes); T (Toluene); P (PCBs)

BLOCK NO: D9 2-4

SAMPLE DATE: 8/2/2010

STOCKPILE NO: 001

BLOCK PARAMETERS: PCBs

Weather: Clear ( ) Cloudy ( X ) Rain/Snow ( ) Windy ( ) TEMP.: 81.4 °F

Stockpile Description (Check all that apply)

- ( X ) Soil
- ( ) C&D Debris (Concrete, Asphalt, etc)
- ( ) Mfg. Debris
- ( ) Staining

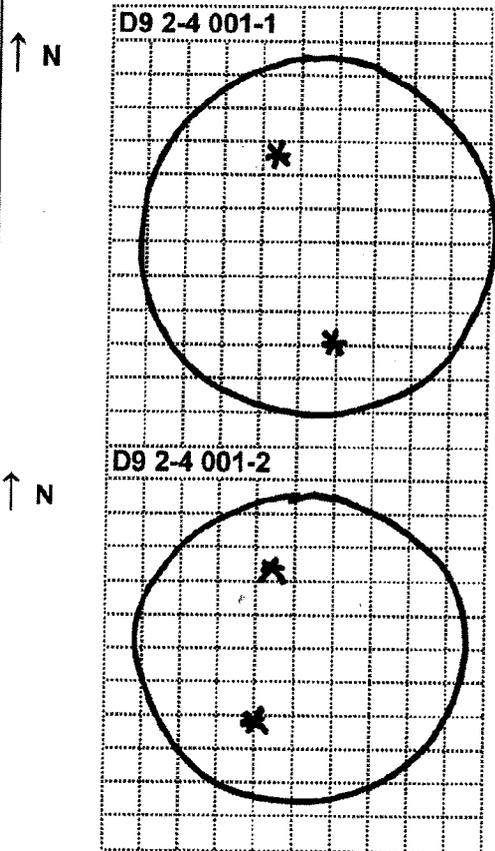
Soil Moisture: ( X ) Dry  
 ( ) Moist  
 ( ) Wet

Odor: Strong ( ) Mild ( X ) None ( )

1. Sketch Stockpile, Establish Dimensions, Describe Soil, and Locate Sample Locations.
2. Screen Stockpile with PID and Record GPS Coordinates for selected sample locations.
3. Provide a Sketch of the Stockpile, indicate north, and show PID readings and Sample Stations.
4. Collect Samples, Record ALL Data, Prepare COC, Count Bottles.

Designate Sample Locations on the Sketch with Reference Letter.

**SAMPLE DATA**



A CGMN-ESC-D9204001A-0-100802

Sample Time: 11:55  
 Sample Parameters: PCBs  
 Sampled By: D. Armstrong

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

\* Composite Location for PCBs.

RINSATE SAMPLE: \_\_\_\_\_ from \_\_\_\_\_

Parameters: B (Benzene); X (Total Xylenes); T (Toluene); P (PCBs)

BLOCK NO: D92-7

SAMPLE DATE: 8/2/2010

STOCKPILE NO: 003

BLOCK PARAMETERS: TCLP VOC (Benzene)/PCBs

Weather: Clear ( ) Cloudy ( X ) Rain/Snow ( ) Windy ( ) TEMP.: 81.4 °F

Stockpile Description (Check all that apply)

Soil Moisture: ( X ) Dry

( X ) Soil

( ) Moist

( ) C&D Debris (Concrete, Asphalt, etc)

( ) Wet

( ) Mfg. Debris

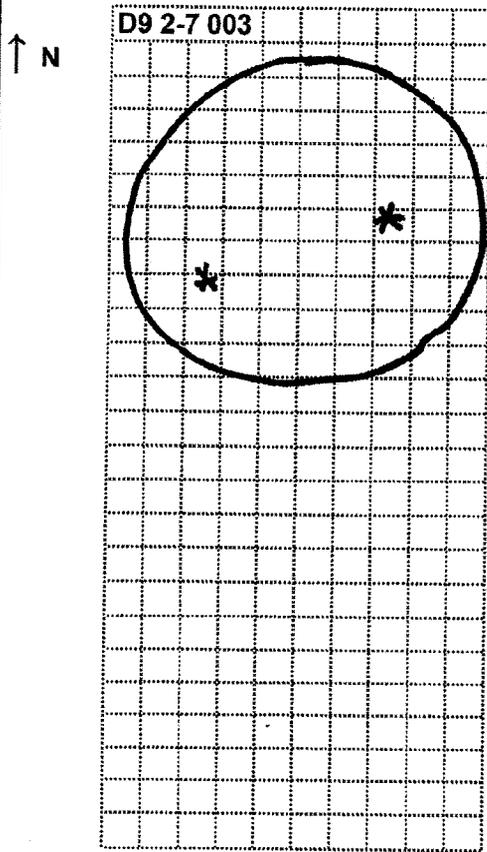
( ) Staining

Odor: Strong ( X ) Mild ( ) None ( )

1. Sketch Stockpile, Establish Dimensions, Describe Soil, and Locate Sample Locations.
2. Screen Stockpile with PID and Record GPS Coordinates for selected sample locations.
3. Provide a Sketch of the Stockpile, indicate north, and show PID readings and Sample Stations.
4. Collect Samples, Record ALL Data, Prepare COC, Count Bottles.

Designate Sample Locations on the Sketch with Reference Letter.

**SAMPLE DATA**



**A** CGMN-ESC-D9207003A-0-100802

Sample Time: 11:46

Sample Parameters: TCLP VOCs (Benzene)/PCBs

Sampled By: D. Armstrong

Sample Time: \_\_\_\_\_

Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_

Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_

Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_

\* Composite Location for TCLP VOCs & PCBs.

RINSATE SAMPLE:

from

Parameters: B (Benzene); X (Total Xylenes); T (Toluene); P (PCBs)

BLOCK NO: D9 2-4

SAMPLE DATE: 8/4/2010

STOCKPILE NO: 002

BLOCK PARAMETERS: PCBs

Weather: Clear ( ) Cloudy ( X ) Rain/Snow ( ) Windy ( ) TEMP.: 71.0 °F

Stockpile Description (Check all that apply)

Soil Moisture: ( X ) Dry

( X ) Soil

( ) Moist

( X ) C&D Debris (Concrete, Asphalt, etc)

( ) Wet

( ) Mfg. Debris

( ) Staining

Odor: Strong ( ) Mild ( ) None ( X )

1. Sketch Stockpile, Establish Dimensions, Describe Soil, and Locate Sample Locations.
2. Screen Stockpile with PID and Record GPS Coordinates for selected sample locations.
3. Provide a Sketch of the Stockpile, indicate north, and show PID readings and Sample Stations.
4. Collect Samples, Record ALL Data, Prepare COC, Count Bottles.

Designate Sample Locations on the Sketch with Reference Letter.

SAMPLE DATA

A CGMN-ESC-D9204002A-0-100804

Sample Time: 8:00

Sample Parameters: PCBs

Sampled By: D. Armstrong

Sample Time: \_\_\_\_\_

Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_

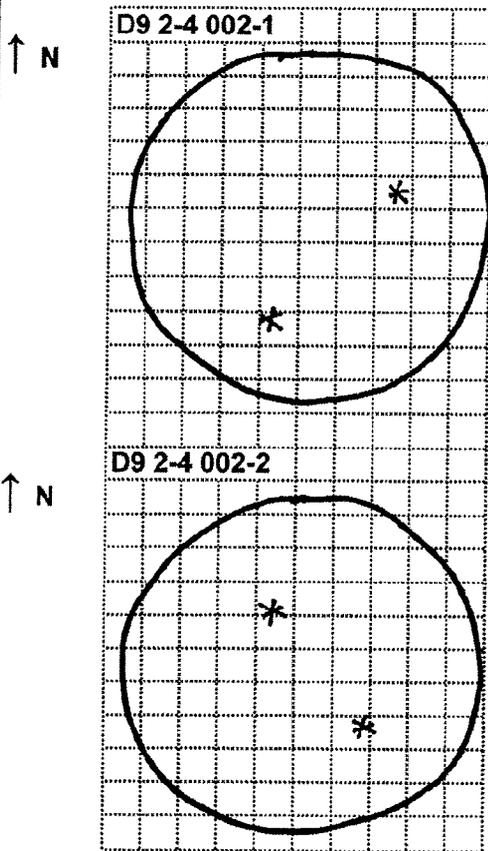
Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_

Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_



\* Composite Location for PCB

RINSATE SAMPLE: \_\_\_\_\_ from \_\_\_\_\_

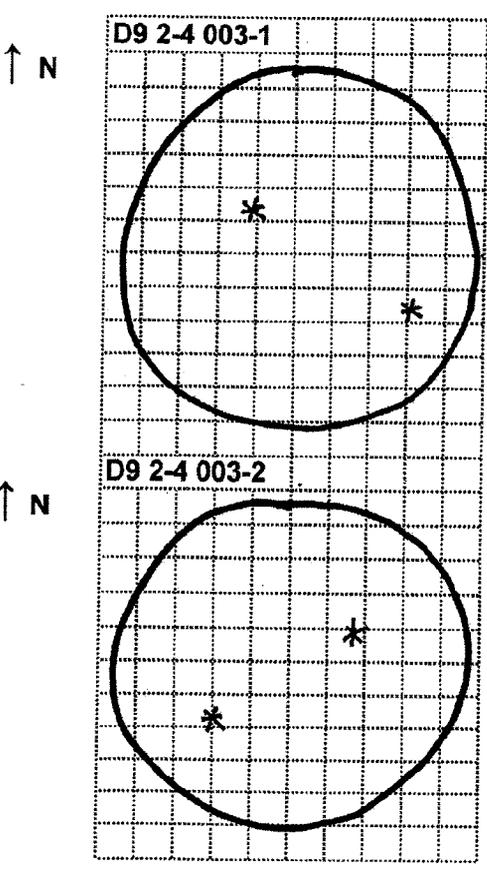
Parameters: B (Benzene); X (Total Xylenes); T (Toluene); P (PCBs)

**BLOCK NO:**  D9 2-4  **SAMPLE DATE:**  8/4/2010   
**STOCKPILE NO:**  003  **BLOCK PARAMETERS:**  PCBs

**Weather:** Clear ( ) Cloudy ( X ) Rain/Snow ( ) Windy ( ) **TEMP.:**  71.0  °F  
**Stockpile Description** (Check all that apply) **Soil Moisture:** ( X ) Dry  
 ( X ) Soil ( ) Moist  
 ( ) C&D Debris (Concrete, Asphalt, etc) ( ) Wet  
 ( ) Mfg. Debris  
 ( ) Staining **Odor:** Strong ( ) Mild ( ) None ( X )

1. Sketch Stockpile, Establish Dimensions, Describe Soil, and Locate Sample Locations.
2. Screen Stockpile with PID and Record GPS Coordinates for selected sample locations.
3. Provide a Sketch of the Stockpile, indicate north, and show PID readings and Sample Stations.
4. Collect Samples, Record ALL Data, Prepare COC, Count Bottles.

**Designate Sample Locations on the Sketch with Reference Letter.**



\* Composite Location for PCB

**SAMPLE DATA**

**A**  CGMN-ESC-D9204003A-0-100804

Sample Time:  8:07   
 Sample Parameters:  PCBs   
 Sampled By:  D. Armstrong   
 \*\*MS/MSD collected at location\*\*

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Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

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Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

**RINSATE SAMPLE:** \_\_\_\_\_ **from** \_\_\_\_\_  
 Parameters: B (Benzene); X (Total Xylenes); T (Toluene); P (PCBs)

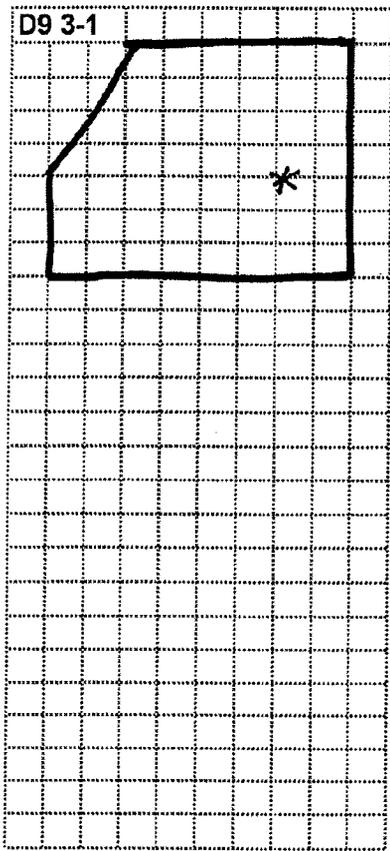
**BLOCK NO:** D9 3-1      **SAMPLE DATE:** 8/5/2010  
**STOCKPILE NO:** N/A      **BLOCK PARAMETERS:** Paint Filter / pH

**Weather:** Clear () Cloudy ( ) Rain/Snow ( ) Windy ()      **TEMP.:** 73.9 °F  
**Stockpile Description** (Check all that apply)      **Soil Moisture:** ( ) Dry  
 Soil      () Moist  
( ) C&D Debris (Concrete, Asphalt, etc)      ( ) Wet  
( ) Mfg. Debris  
( ) Staining      **Odor:** Strong () Mild ( ) None ( )

1. Sketch Stockpile, Establish Dimensions, Describe Soil, and Locate Sample Locations.
2. Screen Stockpile with PID and Record GPS Coordinates for selected sample locations.
3. Provide a Sketch of the Stockpile, indicate north, and show PID readings and Sample Stations.
4. Collect Samples, Record ALL Data, Prepare COC, Count Bottles.

Designate Sample Locations on the Sketch with Reference Letter.

| SAMPLE DATA        |                                    |
|--------------------|------------------------------------|
| <b>A</b>           | <b>CGMN-ESC-D9301PF1A-0-100805</b> |
| Sample Time:       | <u>1136</u>                        |
| Sample Parameters: | <u>Paint Filter / pH</u>           |
| Sampled By:        | <u>D. Armstrong / W. Westley</u>   |
|                    |                                    |
| Sample Time:       |                                    |
| Sample Parameters: |                                    |
| Sampled By:        |                                    |
|                    |                                    |
| Sample Time:       |                                    |
| Sample Parameters: |                                    |
| Sampled By:        |                                    |
|                    |                                    |
| Sample Time:       |                                    |
| Sample Parameters: |                                    |
| Sampled By:        |                                    |



~~Benzene Dräger Tube Reading Location DIA~~  
\*Composite Location for Paint Filter/pH Sample

**RINSATE SAMPLE:** \_\_\_\_\_ from \_\_\_\_\_

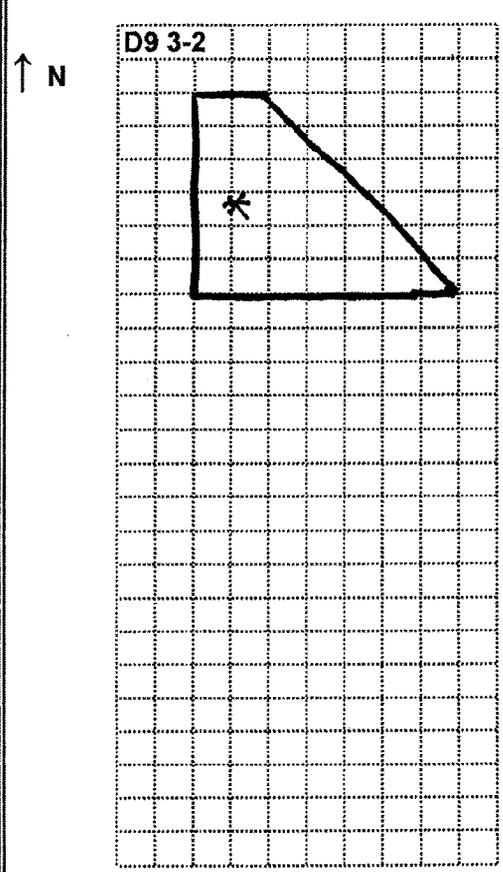
Parameters: B (Benzene); X (Total Xylenes); T (Toluene); P (PCBs)

**BLOCK NO:** D9 3-2      **SAMPLE DATE:** 8/5/2010  
**STOCKPILE NO:** N/A      **BLOCK PARAMETERS:** Paint Filter / pH

**Weather:** Clear () Cloudy () Rain/Snow () Windy () **TEMP.:** 73.9 °F  
**Stockpile Description** (Check all that apply)      **Soil Moisture:** () Dry  
 Soil      () Moist  
 C&D Debris (Concrete, Asphalt, etc)      () Wet  
 Mfg. Debris  
 Staining      **Odor:** Strong () Mild () None ()

1. Sketch Stockpile, Establish Dimensions, Describe Soil, and Locate Sample Locations.
2. Screen Stockpile with PID and Record GPS Coordinates for selected sample locations.
3. Provide a Sketch of the Stockpile, indicate north, and show PID readings and Sample Stations.
4. Collect Samples, Record ALL Data, Prepare COC, Count Bottles.

**Designate Sample Locations on the Sketch with Reference Letter.**



**SAMPLE DATA**

**A** CGMN-ESC-D9302PF1A-0-100805

Sample Time: 1140  
Sample Parameters: Paint Filter / pH  
Sampled By: D. Armstrong / W. Westley

Sample Time: \_\_\_\_\_  
Sample Parameters: \_\_\_\_\_  
Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_  
Sample Parameters: \_\_\_\_\_  
Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_  
Sample Parameters: \_\_\_\_\_  
Sampled By: \_\_\_\_\_

Benzene Dräger Tube Reading Location **▶**  
\* Composite Location for Paint Filter/pH Sample

**RINSATE SAMPLE:** \_\_\_\_\_ **from** \_\_\_\_\_

Parameters: B (Benzene); X (Total Xylenes); T (Toluene); P (PCBs)

BLOCK NO: D9 3-3

SAMPLE DATE: 8/5/2010

STOCKPILE NO: N/A

BLOCK PARAMETERS: Paint Filter / pH

Weather: Clear () Cloudy () Rain/Snow () Windy () TEMP.: 73.9 °F

Stockpile Description (Check all that apply)

Soil Moisture: () Dry

() Soil () Moist

() C&D Debris (Concrete, Asphalt, etc) () Wet

() Mfg. Debris

() Staining Odor: Strong () Mild () None ()

1. Sketch Stockpile, Establish Dimensions, Describe Soil, and Locate Sample Locations.
2. Screen Stockpile with PID and Record GPS Coordinates for selected sample locations.
3. Provide a Sketch of the Stockpile, indicate north, and show PID readings and Sample Stations.
4. Collect Samples, Record ALL Data, Prepare COC, Count Bottles.

Designate Sample Locations on the Sketch with Reference Letter.

**SAMPLE DATA**

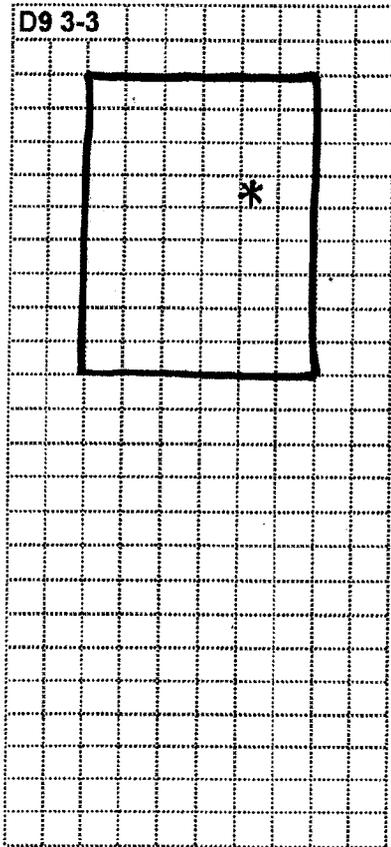
A CGMN-ESC-D9303PF1A-0-100805  
CGMN-ESC-D9303PF1A-DB-100805

Sample Time: 1115  
Sample Parameters: Paint Filter / pH  
Sampled By: D. Armstrong / W. Westley

Sample Time: \_\_\_\_\_  
Sample Parameters: \_\_\_\_\_  
Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_  
Sample Parameters: \_\_\_\_\_  
Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_  
Sample Parameters: \_\_\_\_\_  
Sampled By: \_\_\_\_\_



Benzene Dräger Tube Reading Location  $\rightarrow$  LA

\*Composite Location for Paint Filter/pH Sample

RINSATE SAMPLE: \_\_\_\_\_ from \_\_\_\_\_

Parameters: B (Benzene); X (Total Xylenes); T (Toluene); P (PCBs)

BLOCK NO: D9 3-4

SAMPLE DATE: 8/5/2010

STOCKPILE NO: N/A

BLOCK PARAMETERS: Paint Filter / pH

Weather: Clear () Cloudy () Rain/Snow () Windy () TEMP.: 73.9 °F

Stockpile Description (Check all that apply)

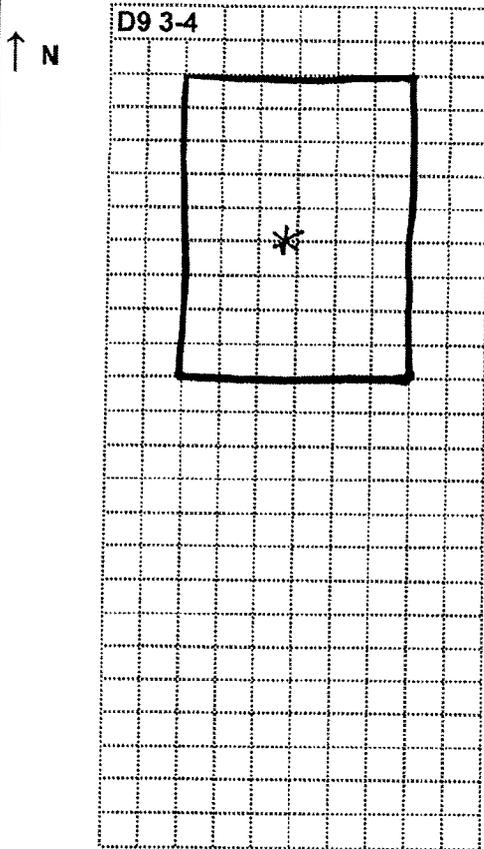
Soil Moisture: () Dry  
() Moist  
() Wet

() Soil  
() C&D Debris (Concrete, Asphalt, etc)  
() Mfg. Debris  
() Staining

Odor: Strong () Mild () None ()

1. Sketch Stockpile, Establish Dimensions, Describe Soil, and Locate Sample Locations.
2. Screen Stockpile with PID and Record GPS Coordinates for selected sample locations.
3. Provide a Sketch of the Stockpile, indicate north, and show PID readings and Sample Stations.
4. Collect Samples, Record ALL Data, Prepare COC, Count Bottles.

Designate Sample Locations on the Sketch with Reference Letter.



**SAMPLE DATA**

**A** CGMN-ESC-D9304PF1A-0-100805

Sample Time: 1131  
Sample Parameters: Paint Filter / pH  
Sampled By: D. Armstrong / W. Westley

Sample Time: \_\_\_\_\_  
Sample Parameters: \_\_\_\_\_  
Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_  
Sample Parameters: \_\_\_\_\_  
Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_  
Sample Parameters: \_\_\_\_\_  
Sampled By: \_\_\_\_\_

~~Benzene Dräger Tube Reading Location - DA~~

\*Composite Location for Paint Filter/pH Sample

RINSATE SAMPLE:

from

Parameters: B (Benzene); X (Total Xylenes); T (Toluene); P (PCBs)

BLOCK NO: D9 3-5

SAMPLE DATE: 8/5/2010

STOCKPILE NO: N/A

BLOCK PARAMETERS: Paint Filter / pH

Weather: Clear () Cloudy ( ) Rain/Snow ( ) Windy () TEMP.: 73.9 °F

Stockpile Description (Check all that apply)

Soil Moisture: (  ) Dry

(  ) Soil ( ) Moist

( ) C&D Debris (Concrete, Asphalt, etc) ( ) Wet

( ) Mfg. Debris

( ) Staining

Odor: Strong (  ) Mild ( ) None ( )

1. Sketch Stockpile, Establish Dimensions, Describe Soil, and Locate Sample Locations.
2. Screen Stockpile with PID and Record GPS Coordinates for selected sample locations.
3. Provide a Sketch of the Stockpile, indicate north, and show PID readings and Sample Stations.
4. Collect Samples, Record ALL Data, Prepare COC, Count Bottles.

Designate Sample Locations on the Sketch with Reference Letter.

**SAMPLE DATA**

A CGMN-ESC-D9305PF1A-0-100805

Sample Time: 1110

Sample Parameters: Paint Filter / pH

Sampled By: D. Armstrong / W. Westley

Sample Time: \_\_\_\_\_

Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_

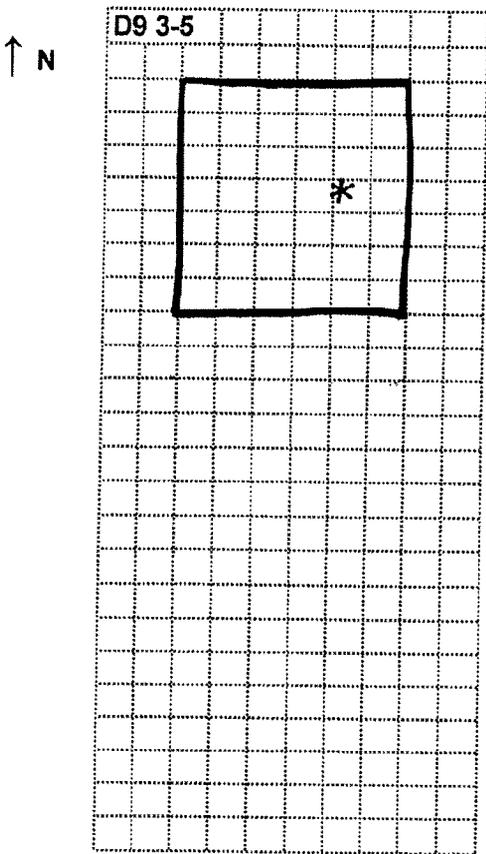
Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_

Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_



~~Benzene Dräger Tube Reading Location~~ **OLA**

\* Composite Location for Paint Filter/pH Sample

RINSATE SAMPLE:

from

Parameters: B (Benzene); X (Total Xylenes); T (Toluene); P (PCBs)

BLOCK NO: D9 3-6

SAMPLE DATE: 8/5/2010

STOCKPILE NO: N/A

BLOCK PARAMETERS: Paint Filter / pH

Weather: Clear () Cloudy ( ) Rain/Snow ( ) Windy () TEMP.: 73.9 °F

Stockpile Description (Check all that apply)

Soil Moisture: ( ) Dry

() Soil

() Moist

( ) C&D Debris (Concrete, Asphalt, etc)

( ) Wet

( ) Mfg. Debris

( ) Staining

Odor: Strong () Mild ( ) None ( )

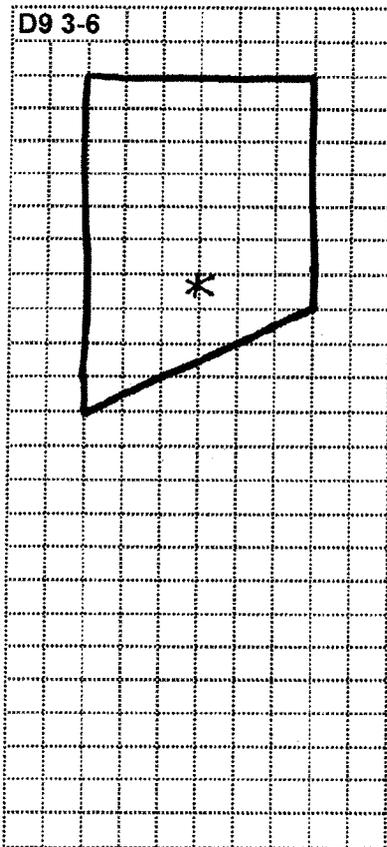
1. Sketch Stockpile, Establish Dimensions, Describe Soil, and Locate Sample Locations.
2. Screen Stockpile with PID and Record GPS Coordinates for selected sample locations.
3. Provide a Sketch of the Stockpile, indicate north, and show PID readings and Sample Stations.
4. Collect Samples, Record ALL Data, Prepare COC, Count Bottles.

Designate Sample Locations on the Sketch with Reference Letter.

SAMPLE DATA

A CGMN-ESC-D9306PF1A-0-100805

↑ N



Sample Time: 1127  
 Sample Parameters: Paint Filter / pH  
 Sampled By: D. Armstrong / W. Westley

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

~~Benzene Dräger Tube Reading Location DLA~~

\*Composite Location for Paint Filter/pH Sample

RINSATE SAMPLE:

from

Parameters: B (Benzene); X (Total Xylenes); T (Toluene); P (PCBs)

BLOCK NO: D9 3-7

SAMPLE DATE: 8/5/2010

STOCKPILE NO: N/A

BLOCK PARAMETERS: Paint Filter / pH

Weather: Clear () Cloudy () Rain/Snow () Windy () TEMP.: 73.9 °F

Stockpile Description (Check all that apply) Soil Moisture: () Dry

() Soil () Moist

() C&D Debris (Concrete, Asphalt, etc) () Wet

() Mfg. Debris

() Staining Odor: Strong () Mild () None ()

1. Sketch Stockpile, Establish Dimensions, Describe Soil, and Locate Sample Locations.
2. Screen Stockpile with PID and Record GPS Coordinates for selected sample locations.
3. Provide a Sketch of the Stockpile, indicate north, and show PID readings and Sample Stations.
4. Collect Samples, Record ALL Data, Prepare COC, Count Bottles.

Designate Sample Locations on the Sketch with Reference Letter.

SAMPLE DATA

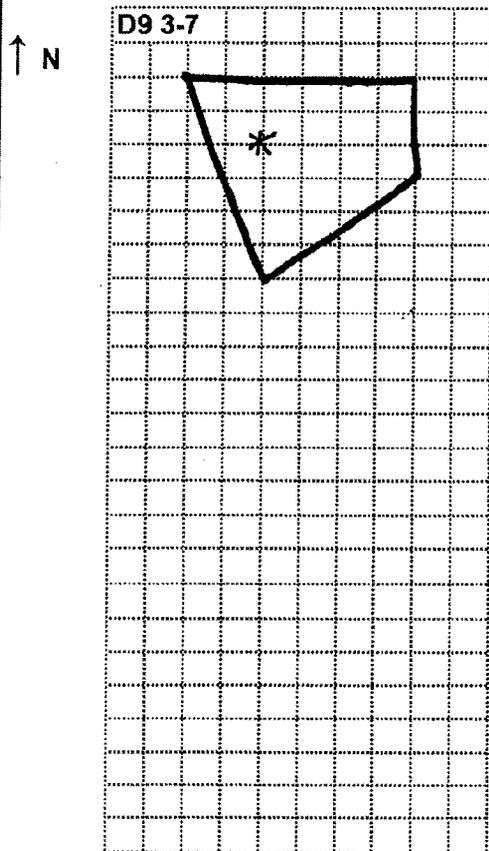
A CGMN-ESC-D9307PF1A-0-100805

Sample Time: 1124  
 Sample Parameters: Paint Filter / pH  
 Sampled By: D. Armstrong / W. Westley

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_



~~Benzene Dräger Tube Reading Location - DLA~~

\* Composite Location for Paint Filter/pH Sample

RINSATE SAMPLE: \_\_\_\_\_ from \_\_\_\_\_

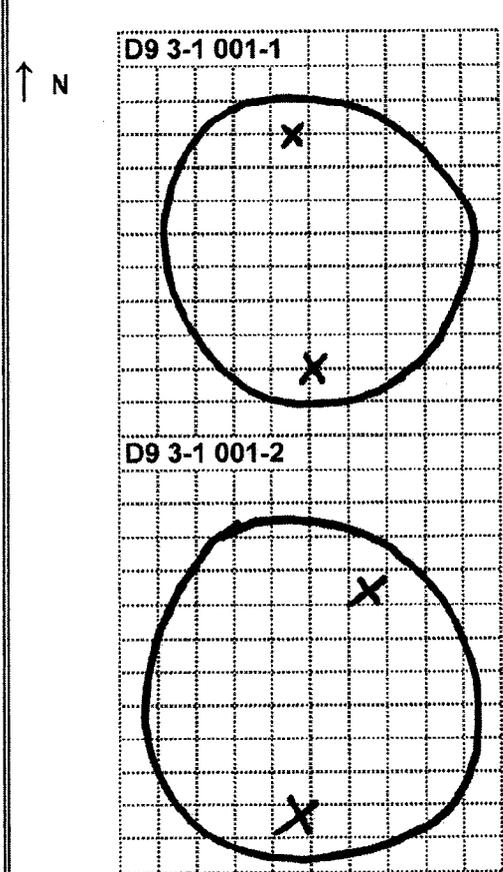
Parameters: B (Benzene); X (Total Xylenes); T (Toluene); P (PCBs)

**BLOCK NO:** D9 3-1      **SAMPLE DATE:** 8/10/2010  
**STOCKPILE NO:** 001      **BLOCK PARAMETERS:** P, TCLP VOC (Benzene Only)

**Weather:** Clear ( ) Cloudy ( X ) Rain/Snow ( ) Windy ( )      **TEMP.:** 76 °F  
**Stockpile Description** (Check all that apply)      **Soil Moisture:** ( ) Dry  
 ( X ) Soil      ( X ) Moist  
 ( ) C&D Debris (Concrete, Asphalt, etc)      ( ) Wet  
 ( ) Mfg. Debris  
 ( X ) Staining      **Odor:** Strong ( X ) Mild ( ) None ( )

1. Sketch Stockpile, Establish Dimensions, Describe Soil, and Locate Sample Locations.
2. Screen Stockpile with PID and Record GPS Coordinates for selected sample locations.
3. Provide a Sketch of the Stockpile, indicate north, and show PID readings and Sample Stations.
4. Collect Samples, Record ALL Data, Prepare COC, Count Bottles.

**Designate Sample Locations on the Sketch with Reference Letter.**



**X** Composite Location for A Sample

**SAMPLE DATA**

**A** CGMN-ESC-D9301001A-0-100810

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Sample Time: 8:45  
 Sample Parameters: P, TCLP VOC (Benzene)  
 Sampled By: R. McLoughlin

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Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

---

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

---

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

**RINSATE SAMPLE:** \_\_\_\_\_ **from** \_\_\_\_\_

**Parameters:** B (Benzene); X (Total Xylenes); T (Toluene); P (PCBs)

BLOCK NO: D9 3-1

SAMPLE DATE: 8/10/2010

STOCKPILE NO: 002

BLOCK PARAMETERS: P, TCLP VOC (Benzene Only)

Weather: Clear ( ) Cloudy ( X ) Rain/Snow ( ) Windy ( ) TEMP.: 76 °F

Stockpile Description (Check all that apply)

Soil Moisture: ( ) Dry

( X ) Soil

( X ) Moist

( ) C&D Debris (Concrete, Asphalt, etc)

( ) Wet

( ) Mfg. Debris

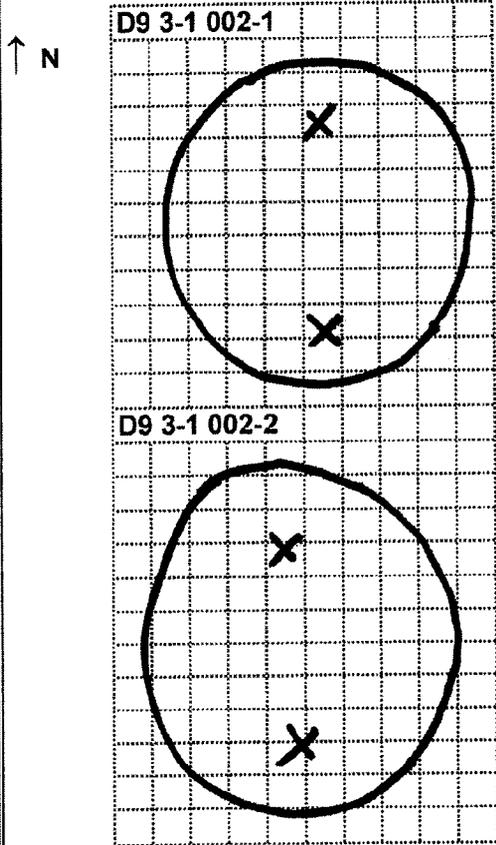
( X ) Staining

Odor: Strong ( X ) Mild ( ) None ( )

1. Sketch Stockpile, Establish Dimensions, Describe Soil, and Locate Sample Locations.
2. Screen Stockpile with PID and Record GPS Coordinates for selected sample locations.
3. Provide a Sketch of the Stockpile, indicate north, and show PID readings and Sample Stations.
4. Collect Samples, Record ALL Data, Prepare COC, Count Bottles.

Designate Sample Locations on the Sketch with Reference Letter.

SAMPLE DATA



A CGMN-ESC-D9301002A-0-100810

Sample Time: 8:53  
 Sample Parameters: P, TCLP VOC (Benzene)  
 Sampled By: R. McLoughlin

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

X Composite Location for A Sample

RINSATE SAMPLE: \_\_\_\_\_ from \_\_\_\_\_

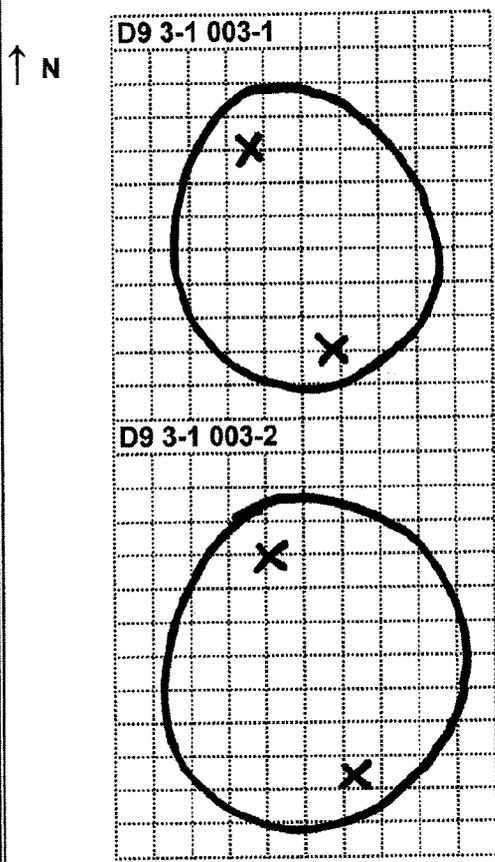
Parameters: B (Benzene); X (Total Xylenes); T (Toluene); P (PCBs)

BLOCK NO:     D9 3-1     SAMPLE DATE:     8/10/2010      
 STOCKPILE NO:     003     BLOCK PARAMETERS:     P, TCLP VOC (Benzene Only)    

Weather: Clear ( ) Cloudy ( X ) Rain/Snow ( ) Windy ( ) TEMP.:     76     °F  
 Stockpile Description (Check all that apply) Soil Moisture: ( ) Dry  
 ( X ) Soil ( X ) Moist  
 ( ) C&D Debris (Concrete, Asphalt, etc) ( ) Wet  
 ( ) Mfg. Debris  
 ( X ) Staining Odor: Strong ( X ) Mild ( ) None ( )

1. Sketch Stockpile, Establish Dimensions, Describe Soil, and Locate Sample Locations.
2. Screen Stockpile with PID and Record GPS Coordinates for selected sample locations.
3. Provide a Sketch of the Stockpile, indicate north, and show PID readings and Sample Stations.
4. Collect Samples, Record ALL Data, Prepare COC, Count Bottles.

Designate Sample Locations on the Sketch with Reference Letter.



X Composite Location for A Sample

**SAMPLE DATA**

**A CGMN-ESC-D9301003A-0-100810**

Sample Time:     9:02      
 Sample Parameters:     P, TCLP VOC (Benzene)      
 Sampled By:     R. McLoughlin    

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Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

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Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

---

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

RINSATE SAMPLE: \_\_\_\_\_ from \_\_\_\_\_

Parameters: B (Benzene); X (Total Xylenes); T (Toluene); P (PCBs)

BLOCK NO: D9 1-9

SAMPLE DATE: 8/11/2010

STOCKPILE NO: 001

BLOCK PARAMETERS: VOC (PCE Only)

Weather: Clear ( ) Cloudy ( X ) Rain/Snow ( ) Windy ( ) TEMP.: 74 °F

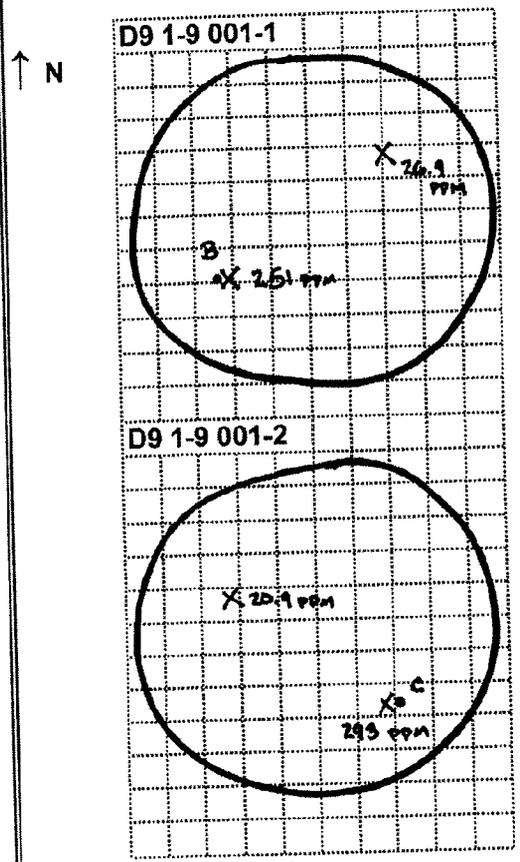
Stockpile Description (Check all that apply) Soil Moisture: ( ) Dry ( X ) Moist ( ) Wet

( X ) Soil ( ) C&D Debris (Concrete, Asphalt, etc) ( ) Mfg. Debris ( X ) Staining Odor: Strong ( X ) Mild ( ) None ( )

- 1. Sketch Stockpile, Establish Dimensions, Describe Soil, and Locate Sample Locations.
2. Screen Stockpile with PID and Record GPS Coordinates for selected sample locations.
3. Provide a Sketch of the Stockpile, indicate north, and show PID readings and Sample Stations.
4. Collect Samples, Record ALL Data, Prepare COC, Count Bottles.

Designate Sample Locations on the Sketch with Reference Letter.

SAMPLE DATA



B CGMN-ES-D9109001B-0-100811
Sample Time: 9:40
Sample Parameters: VOC (PCE Only)
Sampled By: D. Armstrong / R. McLoughlin

C CGMN-ES-D9109001C-0-100811
CGMN-ES-D9109001C-DB-100811
Sample Time: 9:46
Sample Parameters: VOC (PCE Only)
Sampled By: D. Armstrong / R. McLoughlin

Sample Time:
Sample Parameters:
Sampled By:

Sample Time:
Sample Parameters:
Sampled By:

X Headspace Reading (ppm)
• Sample Location for VOCs

RINSATE SAMPLE: from

Parameters: PCE (Tetrachloroethylene)

BLOCK NO: D9 1-9

SAMPLE DATE: 8/11/2010

STOCKPILE NO: 002

BLOCK PARAMETERS: VOC (PCE Only)

Weather: Clear ( ) Cloudy ( X ) Rain/Snow ( ) Windy ( ) TEMP.: 74 °F

Stockpile Description (Check all that apply)

- ( X ) Soil
- ( ) C&D Debris (Concrete, Asphalt, etc)
- ( ) Mfg. Debris
- ( X ) Staining

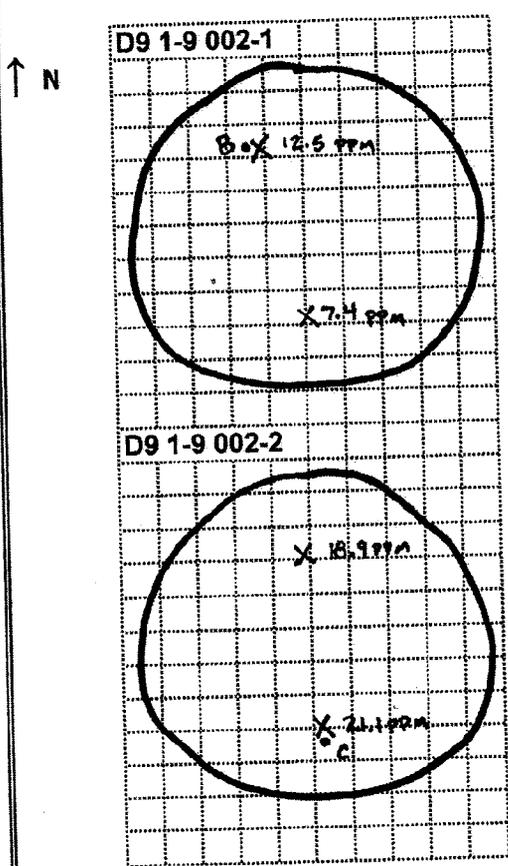
Soil Moisture: ( ) Dry  
( X ) Moist  
( ) Wet

Odor: Strong ( X ) Mild ( ) None ( )

1. Sketch Stockpile, Establish Dimensions, Describe Soil, and Locate Sample Locations.
2. Screen Stockpile with PID and Record GPS Coordinates for selected sample locations.
3. Provide a Sketch of the Stockpile, indicate north, and show PID readings and Sample Stations.
4. Collect Samples, Record ALL Data, Prepare COC, Count Bottles.

Designate Sample Locations on the Sketch with Reference Letter.

**SAMPLE DATA**



**B** CGMN-ES-D9109002B-0-100811

Sample Time: 9:42  
Sample Parameters: VOC (PCE Only)  
Sampled By: D. Armstrong / R. McLoughlin

**C** CGMN-ES-D9109002C-0-100811

Sample Time: 9:49  
Sample Parameters: VOC (PCE Only)  
Sampled By: D. Armstrong / R. McLoughlin

Sample Time: \_\_\_\_\_  
Sample Parameters: \_\_\_\_\_  
Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_  
Sample Parameters: \_\_\_\_\_  
Sampled By: \_\_\_\_\_

X Headspace Reading (ppm)  
• Sample Location for VOCs

RINSATE SAMPLE:

from

Parameters: PCE (Tetrachloroethylene)

BLOCK NO: D9 3-7

SAMPLE DATE: 8/11/2010

STOCKPILE NO: 001

BLOCK PARAMETERS: P, TCLP VOC (Benzene), TCLP Metals (Pb)

Weather: Clear ( ) Cloudy ( X ) Rain/Snow ( ) Windy ( ) TEMP.: 74 °F

Stockpile Description (Check all that apply)

- ( X ) Soil
- ( ) C&D Debris (Concrete, Asphalt, etc)
- ( ) Mfg. Debris
- ( X ) Staining

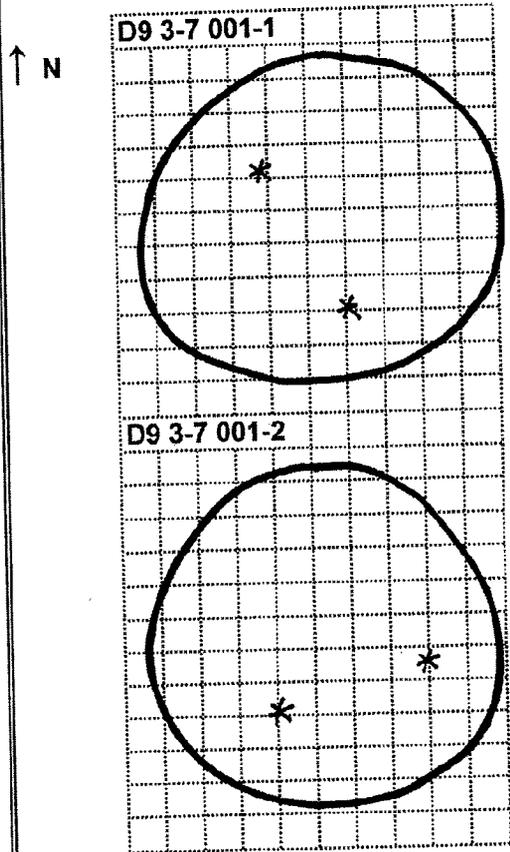
Soil Moisture: ( ) Dry ( X ) Moist ( ) Wet

Odor: Strong ( X ) Mild ( ) None ( )

1. Sketch Stockpile, Establish Dimensions, Describe Soil, and Locate Sample Locations.
2. Screen Stockpile with PID and Record GPS Coordinates for selected sample locations.
3. Provide a Sketch of the Stockpile, indicate north, and show PID readings and Sample Stations.
4. Collect Samples, Record ALL Data, Prepare COC, Count Bottles.

Designate Sample Locations on the Sketch with Reference Letter.

SAMPLE DATA



\* Composite Location for A Sample

**A** CGMN-ESC-D9307001A-0-100811  
CGMN-ESC-D9307001A-DB-100811  
 Sample Time: 9:58  
 Sample Parameters: P, TCLP VOC (Benzene), TCLP Metals (Pb)  
 Sampled By: D. Armstrong / R. McLoughlin

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Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

---

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

---

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

RINSATE SAMPLE:

from

Parameters: B (Benzene); Pb (Lead); P (PCBs)

BLOCK NO: D9 3-7

SAMPLE DATE: 8/11/2010

STOCKPILE NO: 002

BLOCK PARAMETERS: P, TCLP VOC (Benzene), TCLP Metals (Pb)

Weather: Clear ( ) Cloudy ( X ) Rain/Snow ( ) Windy ( ) TEMP.: 74 °F

Stockpile Description (Check all that apply)

- ( X ) Soil
- ( ) C&D Debris (Concrete, Asphalt, etc)
- ( ) Mfg. Debris
- ( X ) Staining

Soil Moisture: ( ) Dry  
 ( X ) Moist  
 ( ) Wet

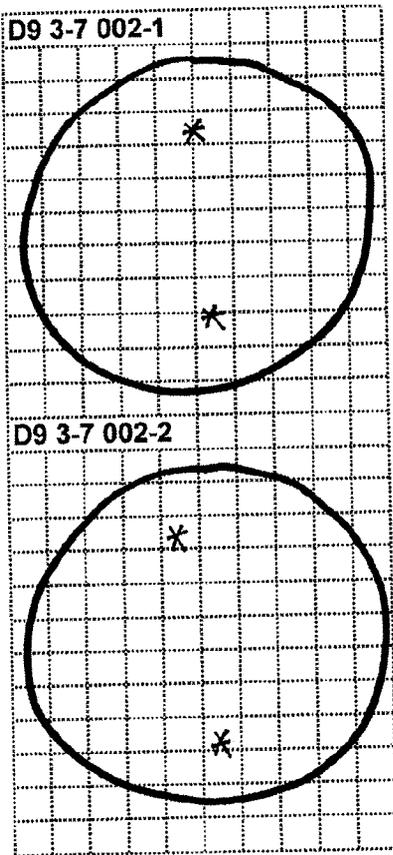
Odor: Strong ( X ) Mild ( ) None ( )

1. Sketch Stockpile, Establish Dimensions, Describe Soil, and Locate Sample Locations.
2. Screen Stockpile with PID and Record GPS Coordinates for selected sample locations.
3. Provide a Sketch of the Stockpile, indicate north, and show PID readings and Sample Stations.
4. Collect Samples, Record ALL Data, Prepare COC, Count Bottles.

Designate Sample Locations on the Sketch with Reference Letter.

**SAMPLE DATA**

↑ N



\* Composite Location for A Sample

**A CGMN-ESC-D9307002A-0-100811**

Sample Time: 10:05  
 Sample Parameters: P, TCLP VOC (Benzene),  
 TCLP Metals (Pb)  
 Sampled By: D. Armstrong / R. McLoughlin

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

RINSATE SAMPLE:

from

Parameters: B (Benzene); Pb (Lead); P (PCBs)

BLOCK NO: D9 3-5

SAMPLE DATE: 8/12/2010

STOCKPILE NO: 001

BLOCK PARAMETERS: PCBs

Weather: Clear ( X ) Cloudy ( ) Rain/Snow ( ) Windy ( ) TEMP.: 90.8 °F

Stockpile Description (Check all that apply)

Soil Moisture: ( X ) Dry

( X ) Soil

( ) Moist

( ) C&D Debris (Concrete, Asphalt, etc)

( ) Wet

( ) Mfg. Debris

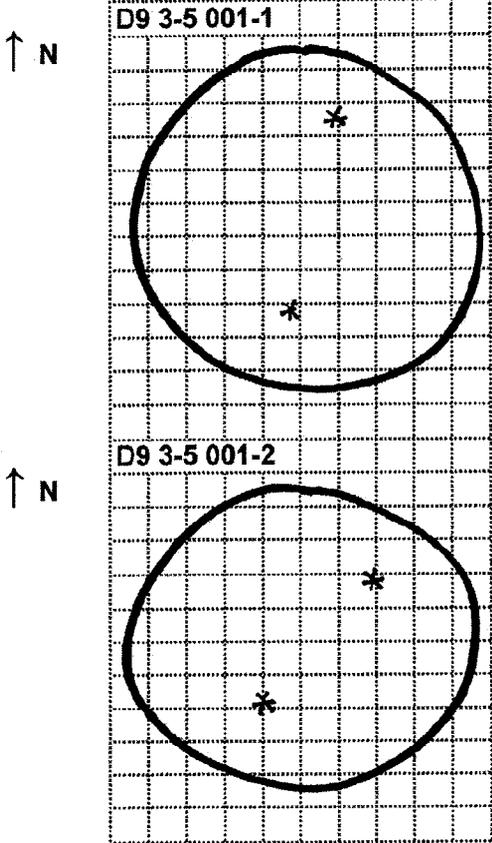
( ) Staining

Odor: Strong ( X ) Mild ( ) None ( )

1. Sketch Stockpile, Establish Dimensions, Describe Soil, and Locate Sample Locations.
2. Screen Stockpile with PID and Record GPS Coordinates for selected sample locations.
3. Provide a Sketch of the Stockpile, indicate north, and show PID readings and Sample Stations.
4. Collect Samples, Record ALL Data, Prepare COC, Count Bottles.

Designate Sample Locations on the Sketch with Reference Letter.

SAMPLE DATA



A CGMN-ESC-D9305001A-0-100812

Sample Time: 16:28  
 Sample Parameters: PCBs  
 Sampled By: R. McLoughlin / D. Armstrong  
 \*\*MS/MSD samples collected\*\*

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

\* Composite Location for PCBs

RINSATE SAMPLE: \_\_\_\_\_ from \_\_\_\_\_

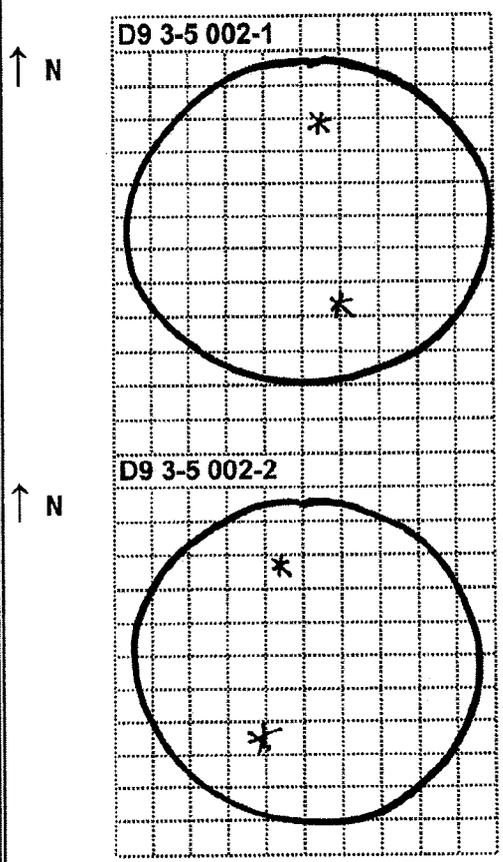
Parameters: B (Benzene); X (Total Xylenes); T (Toluene); P (PCBs)

BLOCK NO: D9 3-5 SAMPLE DATE: 8/12/2010  
 STOCKPILE NO: 002 BLOCK PARAMETERS: PCBs

Weather: Clear (  ) Cloudy (  ) Rain/Snow (  ) Windy (  ) TEMP.: 90.8 °F  
 Stockpile Description (Check all that apply) Soil Moisture: (  ) Dry  
 (  ) Soil (  ) Moist  
 (  ) C&D Debris (Concrete, Asphalt, etc) (  ) Wet  
 (  ) Mfg. Debris  
 (  ) Staining Odor: Strong (  ) Mild (  ) None (  )

1. Sketch Stockpile, Establish Dimensions, Describe Soil, and Locate Sample Locations.
2. Screen Stockpile with PID and Record GPS Coordinates for selected sample locations.
3. Provide a Sketch of the Stockpile, indicate north, and show PID readings and Sample Stations.
4. Collect Samples, Record ALL Data, Prepare COC, Count Bottles.

Designate Sample Locations on the Sketch with Reference Letter.



**SAMPLE DATA**

**A** CGMN-ESC-D9305002A-0-100812

Sample Time: 16:32  
 Sample Parameters: PCBs  
 Sampled By: R. McLoughlin / D. Armstrong

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Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

---

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

---

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

\* Composite Location for PCBs

RINSATE SAMPLE: \_\_\_\_\_ from \_\_\_\_\_

Parameters: B (Benzene); X (Total Xylenes); T (Toluene); P (PCBs)

BLOCK NO: D9 3-5

SAMPLE DATE: 8/12/2010

STOCKPILE NO: 003

BLOCK PARAMETERS: PCBs

Weather: Clear (  ) Cloudy (  ) Rain/Snow (  ) Windy (  ) TEMP.: 90.8 °F

Stockpile Description (Check all that apply)

Soil Moisture: (  ) Dry

(  ) Soil

(  ) Moist

(  ) C&D Debris (Concrete, Asphalt, etc)

(  ) Wet

(  ) Mfg. Debris

(  ) Staining

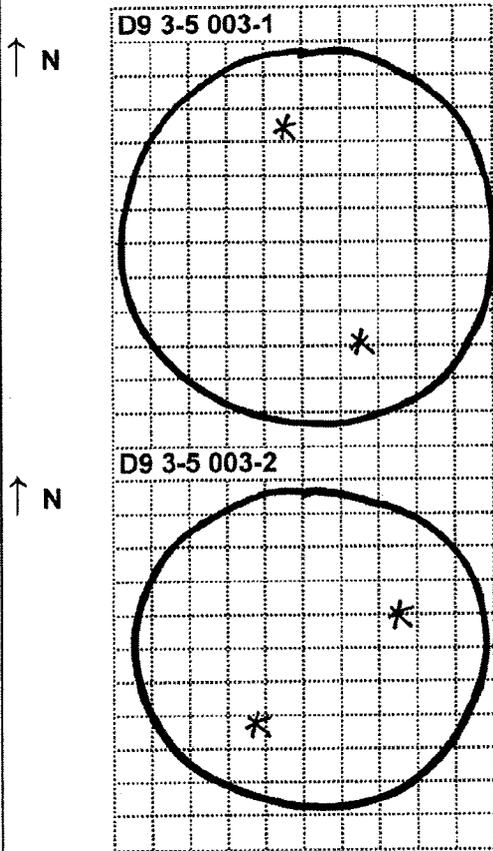
Odor: Strong (  ) Mild (  ) None (  )

1. Sketch Stockpile, Establish Dimensions, Describe Soil, and Locate Sample Locations.
2. Screen Stockpile with PID and Record GPS Coordinates for selected sample locations.
3. Provide a Sketch of the Stockpile, indicate north, and show PID readings and Sample Stations.
4. Collect Samples, Record ALL Data, Prepare COC, Count Bottles.

Designate Sample Locations on the Sketch with Reference Letter.

**SAMPLE DATA**

**A** CGMN-ESC-D9305003A-0-100812



Sample Time: 16:36  
 Sample Parameters: PCBs  
 Sampled By: R. McLoughlin / D. Armstrong

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

\* Composite Location for PCBs

RINSATE SAMPLE: \_\_\_\_\_ from \_\_\_\_\_

Parameters: B (Benzene); X (Total Xylenes); T (Toluene); P (PCBs)

|   |  |
|---|--|
| <b>BLOCK NO:</b> <u>      D9 3-5      </u>  | <b>SAMPLE DATE:</b> <u>      8/12/2010      </u> |
| <b>STOCKPILE NO:</b> <u>      004      </u> | <b>BLOCK PARAMETERS:</b> <u>      PCBs      </u> |

**Weather:** Clear (  ) Cloudy (  ) Rain/Snow (  ) Windy (  ) **TEMP.:**       90.8       °F

**Stockpile Description** (Check all that apply)      **Soil Moisture:** (  ) Dry  
 (  ) Soil      (  ) Moist  
 (  ) C&D Debris (Concrete, Asphalt, etc)      (  ) Wet  
 (  ) Mfg. Debris  
 (  ) Staining      **Odor:** Strong (  ) Mild (  ) None (  )

1. Sketch Stockpile, Establish Dimensions, Describe Soil, and Locate Sample Locations.
2. Screen Stockpile with PID and Record GPS Coordinates for selected sample locations.
3. Provide a Sketch of the Stockpile, indicate north, and show PID readings and Sample Stations.
4. Collect Samples, Record ALL Data, Prepare COC, Count Bottles.

**Designate Sample Locations on the Sketch with Reference Letter.**

|   | <b>SAMPLE DATA</b>   |                                    |                                    |              |                          |                    |                         |             |   |  |  |              |                           |                    |                           |             |                           |  |  |              |                           |                    |                           |             |                           |  |  |              |                           |                    |                           |             |                           |
|---|--|------------------------------------|------------------------------------|--------------|--------------------------|--------------------|-------------------------|-------------|---|--|--|--------------|---------------------------|--------------------|---------------------------|-------------|---------------------------|--|--|--------------|---------------------------|--------------------|---------------------------|-------------|---------------------------|--|--|--------------|---------------------------|--------------------|---------------------------|-------------|---------------------------|
| <div style="display: flex; align-items: center;"> <div style="margin-right: 10px;">↑ N</div> <div style="border: 1px solid black; padding: 5px;">D9 3-5 004</div> </div> <p style="margin-top: 20px;">* Composite Location for PCBs</p> | <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:5%;"><b>A</b></td> <td style="border-bottom: 1px solid black;"><b>CGMN-ESC-D9305004A-0-100812</b></td> </tr> <tr> <td>Sample Time:</td> <td><u>      16:38      </u></td> </tr> <tr> <td>Sample Parameters:</td> <td><u>      PCBs      </u></td> </tr> <tr> <td>Sampled By:</td> <td><u>      R. McLoughlin / D. Armstrong      </u></td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td>Sample Time:</td> <td><u>                  </u></td> </tr> <tr> <td>Sample Parameters:</td> <td><u>                  </u></td> </tr> <tr> <td>Sampled By:</td> <td><u>                  </u></td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td>Sample Time:</td> <td><u>                  </u></td> </tr> <tr> <td>Sample Parameters:</td> <td><u>                  </u></td> </tr> <tr> <td>Sampled By:</td> <td><u>                  </u></td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td>Sample Time:</td> <td><u>                  </u></td> </tr> <tr> <td>Sample Parameters:</td> <td><u>                  </u></td> </tr> <tr> <td>Sampled By:</td> <td><u>                  </u></td> </tr> </table> | <b>A</b>                           | <b>CGMN-ESC-D9305004A-0-100812</b> | Sample Time: | <u>      16:38      </u> | Sample Parameters: | <u>      PCBs      </u> | Sampled By: | <u>      R. McLoughlin / D. Armstrong      </u> |  |  | Sample Time: | <u>                  </u> | Sample Parameters: | <u>                  </u> | Sampled By: | <u>                  </u> |  |  | Sample Time: | <u>                  </u> | Sample Parameters: | <u>                  </u> | Sampled By: | <u>                  </u> |  |  | Sample Time: | <u>                  </u> | Sample Parameters: | <u>                  </u> | Sampled By: | <u>                  </u> |
|   | <b>A</b>   | <b>CGMN-ESC-D9305004A-0-100812</b> |                                    |              |                          |                    |                         |             |   |  |  |              |                           |                    |                           |             |                           |  |  |              |                           |                    |                           |             |                           |  |  |              |                           |                    |                           |             |                           |
|   | Sample Time:   | <u>      16:38      </u>           |                                    |              |                          |                    |                         |             |   |  |  |              |                           |                    |                           |             |                           |  |  |              |                           |                    |                           |             |                           |  |  |              |                           |                    |                           |             |                           |
|   | Sample Parameters:   | <u>      PCBs      </u>            |                                    |              |                          |                    |                         |             |   |  |  |              |                           |                    |                           |             |                           |  |  |              |                           |                    |                           |             |                           |  |  |              |                           |                    |                           |             |                           |
| Sampled By:   | <u>      R. McLoughlin / D. Armstrong      </u>  |                                    |                                    |              |                          |                    |                         |             |   |  |  |              |                           |                    |                           |             |                           |  |  |              |                           |                    |                           |             |                           |  |  |              |                           |                    |                           |             |                           |
|   |  |                                    |                                    |              |                          |                    |                         |             |   |  |  |              |                           |                    |                           |             |                           |  |  |              |                           |                    |                           |             |                           |  |  |              |                           |                    |                           |             |                           |
| Sample Time:  | <u>                  </u>  |                                    |                                    |              |                          |                    |                         |             |   |  |  |              |                           |                    |                           |             |                           |  |  |              |                           |                    |                           |             |                           |  |  |              |                           |                    |                           |             |                           |
| Sample Parameters:  | <u>                  </u>  |                                    |                                    |              |                          |                    |                         |             |   |  |  |              |                           |                    |                           |             |                           |  |  |              |                           |                    |                           |             |                           |  |  |              |                           |                    |                           |             |                           |
| Sampled By:   | <u>                  </u>  |                                    |                                    |              |                          |                    |                         |             |   |  |  |              |                           |                    |                           |             |                           |  |  |              |                           |                    |                           |             |                           |  |  |              |                           |                    |                           |             |                           |
|   |  |                                    |                                    |              |                          |                    |                         |             |   |  |  |              |                           |                    |                           |             |                           |  |  |              |                           |                    |                           |             |                           |  |  |              |                           |                    |                           |             |                           |
| Sample Time:  | <u>                  </u>  |                                    |                                    |              |                          |                    |                         |             |   |  |  |              |                           |                    |                           |             |                           |  |  |              |                           |                    |                           |             |                           |  |  |              |                           |                    |                           |             |                           |
| Sample Parameters:  | <u>                  </u>  |                                    |                                    |              |                          |                    |                         |             |   |  |  |              |                           |                    |                           |             |                           |  |  |              |                           |                    |                           |             |                           |  |  |              |                           |                    |                           |             |                           |
| Sampled By:   | <u>                  </u>  |                                    |                                    |              |                          |                    |                         |             |   |  |  |              |                           |                    |                           |             |                           |  |  |              |                           |                    |                           |             |                           |  |  |              |                           |                    |                           |             |                           |
|   |  |                                    |                                    |              |                          |                    |                         |             |   |  |  |              |                           |                    |                           |             |                           |  |  |              |                           |                    |                           |             |                           |  |  |              |                           |                    |                           |             |                           |
| Sample Time:  | <u>                  </u>  |                                    |                                    |              |                          |                    |                         |             |   |  |  |              |                           |                    |                           |             |                           |  |  |              |                           |                    |                           |             |                           |  |  |              |                           |                    |                           |             |                           |
| Sample Parameters:  | <u>                  </u>  |                                    |                                    |              |                          |                    |                         |             |   |  |  |              |                           |                    |                           |             |                           |  |  |              |                           |                    |                           |             |                           |  |  |              |                           |                    |                           |             |                           |
| Sampled By:   | <u>                  </u>  |                                    |                                    |              |                          |                    |                         |             |   |  |  |              |                           |                    |                           |             |                           |  |  |              |                           |                    |                           |             |                           |  |  |              |                           |                    |                           |             |                           |

**RINSATE SAMPLE:** \_\_\_\_\_ **from** \_\_\_\_\_

Parameters: B (Benzene); X (Total Xylenes); T (Toluene); P (PCBs)

BLOCK NO: D9 3-6

SAMPLE DATE: 8/17/2010

STOCKPILE NO: 001

BLOCK PARAMETERS: PCBs, TCLP VOC (Benzene),  
TCLP Metals (Lead and Mercury)

Weather: Clear (  ) Cloudy (  ) Rain/Snow (  ) Windy (  ) TEMP.: 78 °F

Stockpile Description (Check all that apply) Soil Moisture: (  ) Dry

(  ) Soil (  ) Moist

(  ) C&D Debris (Concrete, Asphalt, etc) (  ) Wet

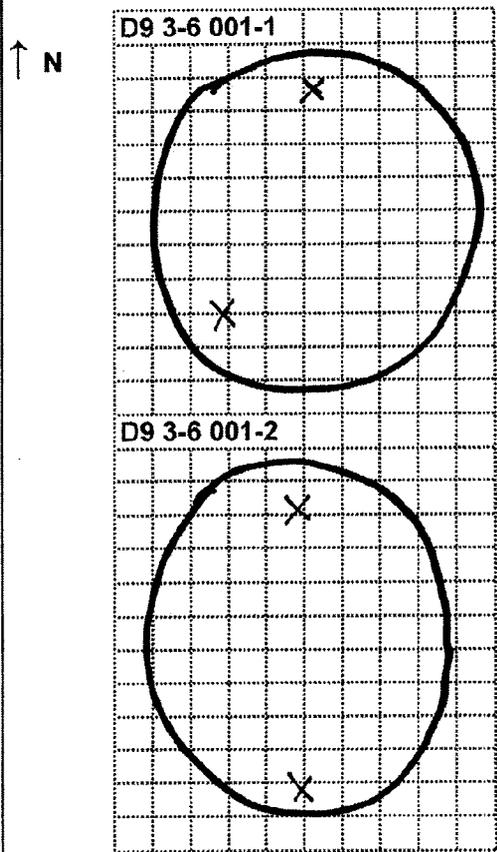
(  ) Mfg. Debris

(  ) Staining Odor: Strong (  ) Mild (  ) None (  )

1. Sketch Stockpile, Establish Dimensions, Describe Soil, and Locate Sample Locations.
2. Screen Stockpile with PID and Record GPS Coordinates for selected sample locations.
3. Provide a Sketch of the Stockpile, indicate north, and show PID readings and Sample Stations.
4. Collect Samples, Record ALL Data, Prepare COC, Count Bottles.

Designate Sample Locations on the Sketch with Reference Letter.

**SAMPLE DATA**



**A** CGMN-ESC-D9306001A-0-100817

Sample Time: 16:22

Sample Parameters: P, TCLP VOC (Benzene),  
TCLP Metals (Pb & Hg)

Sampled By: D. Armstrong / R. McLoughlin

Sample Time: \_\_\_\_\_

Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_

Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_

Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_

**X** Composite Location for A Sample

RINSATE SAMPLE: \_\_\_\_\_ from \_\_\_\_\_

Parameters: **B** (Benzene); **Pb** (Lead); **Hg** (Mercury); **P** (PCBs)

BLOCK NO: D9 3-6

SAMPLE DATE: 8/17/2010

STOCKPILE NO: 002

BLOCK PARAMETERS: PCBs, TCLP VOC (Benzene),  
TCLP Metals (Lead and Mercury)

Weather: Clear (  ) Cloudy (  ) Rain/Snow (  ) Windy (  ) TEMP.: 78 °F

Stockpile Description (Check all that apply)

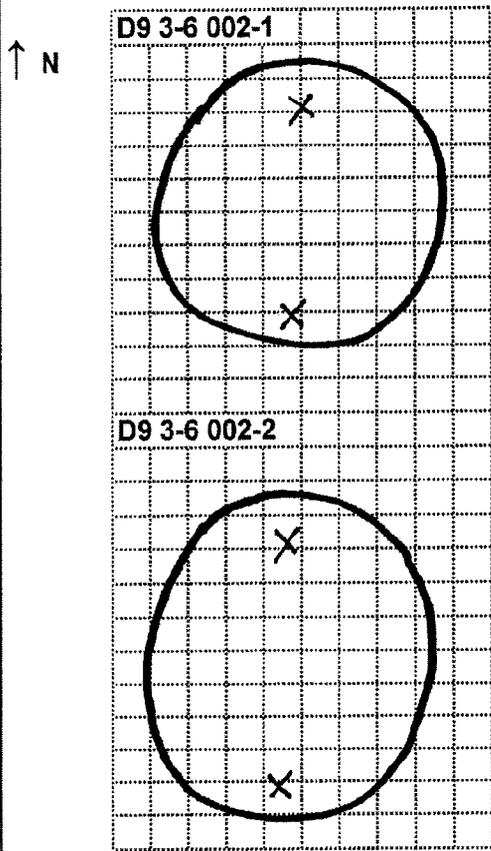
- (  ) Soil
- (  ) C&D Debris (Concrete, Asphalt, etc)
- (  ) Mfg. Debris
- (  ) Staining

Soil Moisture: (  ) Dry  
 (  ) Moist  
 (  ) Wet

Odor: Strong (  ) Mild (  ) None (  )

1. Sketch Stockpile, Establish Dimensions, Describe Soil, and Locate Sample Locations.
2. Screen Stockpile with PID and Record GPS Coordinates for selected sample locations.
3. Provide a Sketch of the Stockpile, indicate north, and show PID readings and Sample Stations.
4. Collect Samples, Record ALL Data, Prepare COC, Count Bottles.

Designate Sample Locations on the Sketch with Reference Letter.



X Composite Location for A Sample

**SAMPLE DATA**

A CGMN-ESC-D9306002A-0-100817

Sample Time: 16:14

Sample Parameters: P, TCLP VOC (Benzene),  
TCLP Metals (Pb & Hg)  
 Sampled By: D. Armstrong / R. McLoughlin

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

RINSATE SAMPLE: \_\_\_\_\_ from \_\_\_\_\_

Parameters: B (Benzene); Pb (Lead); Hg (Mercury); P (PCBs)

BLOCK NO: D9 3-6

SAMPLE DATE: 8/17/2010

STOCKPILE NO: 003

BLOCK PARAMETERS: PCBs, TCLP VOC (Benzene),  
TCLP Metals (Lead and Mercury)

Weather: Clear (  ) Cloudy (  ) Rain/Snow (  ) Windy(  ) TEMP.: 78 °F

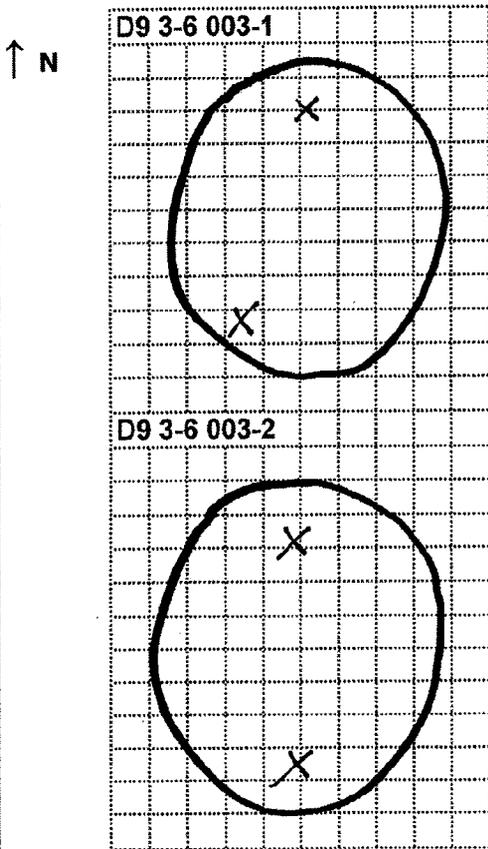
Stockpile Description (Check all that apply) Soil Moisture: (  ) Dry  
(  ) Soil (  ) Moist  
(  ) C&D Debris (Concrete, Asphalt, etc) (  ) Wet  
(  ) Mfg. Debris  
(  ) Staining

Odor: Strong (  ) Mild (  ) None (  )

1. Sketch Stockpile, Establish Dimensions, Describe Soil, and Locate Sample Locations.
2. Screen Stockpile with PID and Record GPS Coordinates for selected sample locations.
3. Provide a Sketch of the Stockpile, indicate north, and show PID readings and Sample Stations.
4. Collect Samples, Record ALL Data, Prepare COC, Count Bottles.

Designate Sample Locations on the Sketch with Reference Letter.

**SAMPLE DATA**



**A** CGMN-ESC-D9306003A-0-100817

Sample Time: 16:15

Sample Parameters: P, TCLP VOC (Benzene),  
TCLP Metals (Pb & Hg)

Sampled By: D. Armstrong / R. McLoughlin

Sample Time: \_\_\_\_\_

Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_

Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_

Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_

**X** Composite Location for A Sample

RINSATE SAMPLE: \_\_\_\_\_ from \_\_\_\_\_

Parameters: **B** (Benzene); **Pb** (Lead); **Hg** (Mercury); **P** (PCBs)

|   |  |
|---|--|
| <b>BLOCK NO:</b> <u>    D9 3-3    </u>  | <b>SAMPLE DATE:</b> <u>    8/17/2010    </u>                     |
| <b>STOCKPILE NO:</b> <u>    001    </u> | <b>BLOCK PARAMETERS:</b> <u>    PCBs, TCLP VOC (Benzene)    </u> |

**Weather:** Clear (  ) Cloudy (  ) Rain/Snow (  ) Windy(  ) **TEMP.:**     78     °F

**Stockpile Description** (Check all that apply)      **Soil Moisture:** (  ) Dry  
(  ) Soil      (  ) Moist  
(  ) C&D Debris (Concrete, Asphalt, etc)      (  ) Wet  
(  ) Mfg. Debris  
(  ) Staining      **Odor:** Strong (  ) Mild (  ) None (  )

1. Sketch Stockpile, Establish Dimensions, Describe Soil, and Locate Sample Locations.
2. Screen Stockpile with PID and Record GPS Coordinates for selected sample locations.
3. Provide a Sketch of the Stockpile, indicate north, and show PID readings and Sample Stations.
4. Collect Samples, Record ALL Data, Prepare COC, Count Bottles.

**Designate Sample Locations on the Sketch with Reference Letter.**

**D9 3-3 001-1**

**D9 3-3 001-2**

X Composite Location for A Sample

**SAMPLE DATA**

**A**     CGMN-ESC-D9303001A-0-100817    

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Sample Time:     16:26    

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Sample Parameters:     P, TCLP VOC (Benzene),      
Sampled By:     D. Armstrong / R. McLoughlin    

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Sample Time: \_\_\_\_\_

Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_

---

Sample Time: \_\_\_\_\_

Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_

---

Sample Time: \_\_\_\_\_

Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_

**RINSATE SAMPLE:** \_\_\_\_\_ from \_\_\_\_\_

Parameters: B (Benzene); P (PCBs)

BLOCK NO: D9 3-3

SAMPLE DATE: 8/17/2010

STOCKPILE NO: 002

BLOCK PARAMETERS: PCBs, TCLP VOC (Benzene)

Weather: Clear (  ) Cloudy (  ) Rain/Snow (  ) Windy (  ) TEMP.: 78 °F

Stockpile Description (Check all that apply)

Soil Moisture: (  ) Dry

(  ) Soil

(  ) Moist

(  ) C&D Debris (Concrete, Asphalt, etc)

(  ) Wet

(  ) Mfg. Debris

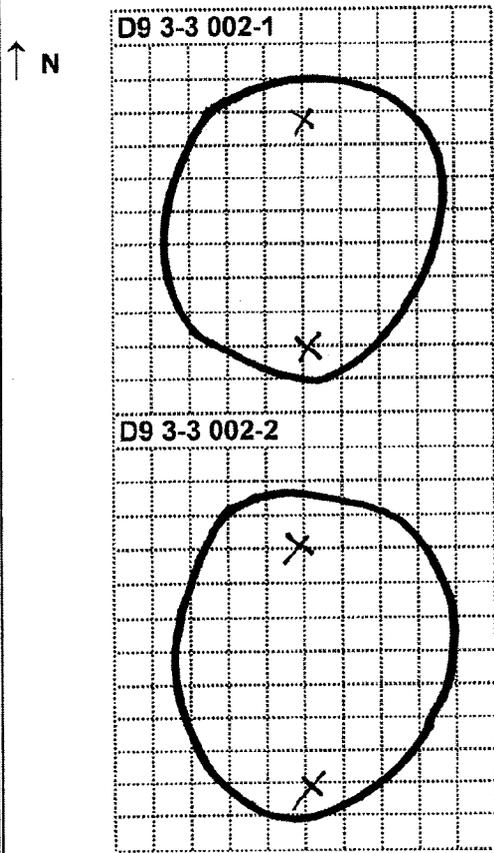
(  ) Staining

Odor: Strong (  ) Mild (  ) None (  )

1. Sketch Stockpile, Establish Dimensions, Describe Soil, and Locate Sample Locations.
2. Screen Stockpile with PID and Record GPS Coordinates for selected sample locations.
3. Provide a Sketch of the Stockpile, indicate north, and show PID readings and Sample Stations.
4. Collect Samples, Record ALL Data, Prepare COC, Count Bottles.

Designate Sample Locations on the Sketch with Reference Letter.

**SAMPLE DATA**



**A** CGMN-ESC-D9303002A-0-100817

Sample Time: 16:30

Sample Parameters: P, TCLP VOC (Benzene)

Sampled By: D. Armstrong / R. McLoughlin

Sample Time: \_\_\_\_\_

Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_

Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_

Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_

X Composite Location for A Sample

RINSATE SAMPLE:

from

Parameters: B (Benzene); P (PCBs)

BLOCK NO: D9 3-3

SAMPLE DATE: 8/19/2010

STOCKPILE NO: 003

BLOCK PARAMETERS: PCBs, TCLP VOC (Benzene)

Weather: Clear ( ) Cloudy ( X ) Rain/Snow ( ) Windy ( ) TEMP.: 77 °F

Stockpile Description (Check all that apply)

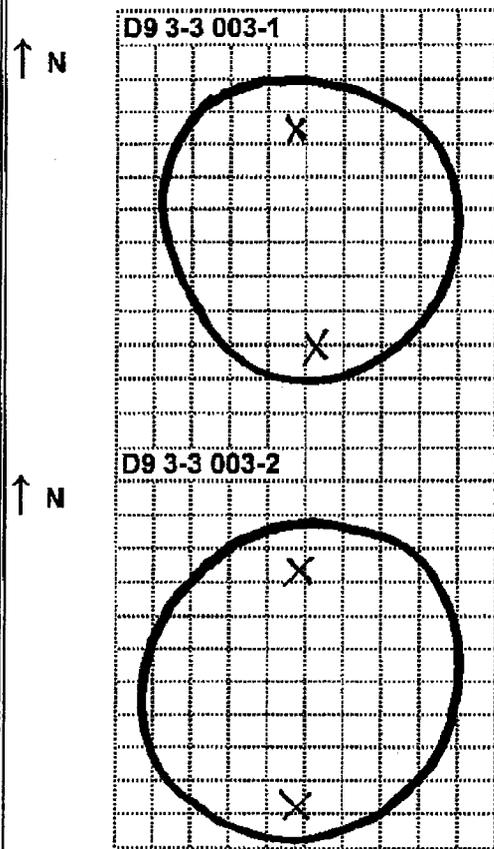
- ( X ) Soil
- ( ) C&D Debris (Concrete, Asphalt, etc)
- ( ) Mfg. Debris
- ( X ) Staining

Soil Moisture: ( ) Dry ( X ) Moist ( ) Wet

Odor: Strong ( X ) Mild ( ) None ( )

1. Sketch Stockpile, Establish Dimensions, Describe Soil, and Locate Sample Locations.
2. Screen Stockpile with PID and Record GPS Coordinates for selected sample locations.
3. Provide a Sketch of the Stockpile, Indicate north, and show PID readings and Sample Stations.
4. Collect Samples, Record ALL Data, Prepare COC, Count Bottles.

Designate Sample Locations on the Sketch with Reference Letter.



X Composite Location for A Sample

SAMPLE DATA

A CGMN-ESC-D9303003A-0-100819  
CGMN-ESC-D9303003A-DB-100819

Sample Time: 11:35

Sample Parameters: P, TCLP VOC (Benzene),  
 Sampled By: D. Armstrong / R. McLoughlin

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

RINSATE SAMPLE: \_\_\_\_\_ from \_\_\_\_\_

Parameters: B (Benzene); P (PCBs)

BLOCK NO: D9 3-3

SAMPLE DATE: 8/19/2010

STOCKPILE NO: 004

BLOCK PARAMETERS: PCBs, TCLP VOC (Benzene)

Weather: Clear ( ) Cloudy ( X ) Rain/Snow ( ) Windy ( ) TEMP.: 77 °F

Stockpile Description (Check all that apply)

Soil Moisture: ( ) Dry

( X ) Soil

( X ) Moist

( ) C&D Debris (Concrete, Asphalt, etc)

( ) Wet

( ) Mfg. Debris

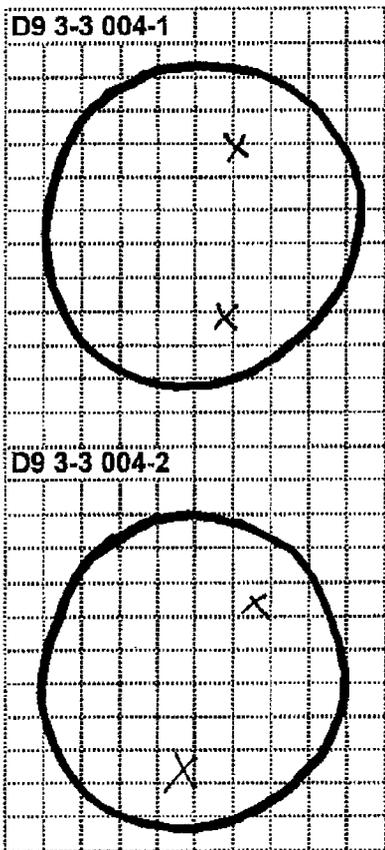
( X ) Staining

Odor: Strong ( X ) Mild ( ) None ( )

1. Sketch Stockpile, Establish Dimensions, Describe Soil, and Locate Sample Locations.
2. Screen Stockpile with PID and Record GPS Coordinates for selected sample locations.
3. Provide a Sketch of the Stockpile, indicate north, and show PID readings and Sample Stations.
4. Collect Samples, Record ALL Data, Prepare COC, Count Bottles.

Designate Sample Locations on the Sketch with Reference Letter.

**SAMPLE DATA**



**A** CGMN-ESC-D9303004A-0-100819

Sample Time: 11:42

Sample Parameters: P, TCLP VOC (Benzene),

Sampled By: D. Armstrong / R. McLoughlin

Sample Time: \_\_\_\_\_

Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_

Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_

Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_

X Composite Location for A Sample

RINSATE SAMPLE: \_\_\_\_\_ from \_\_\_\_\_

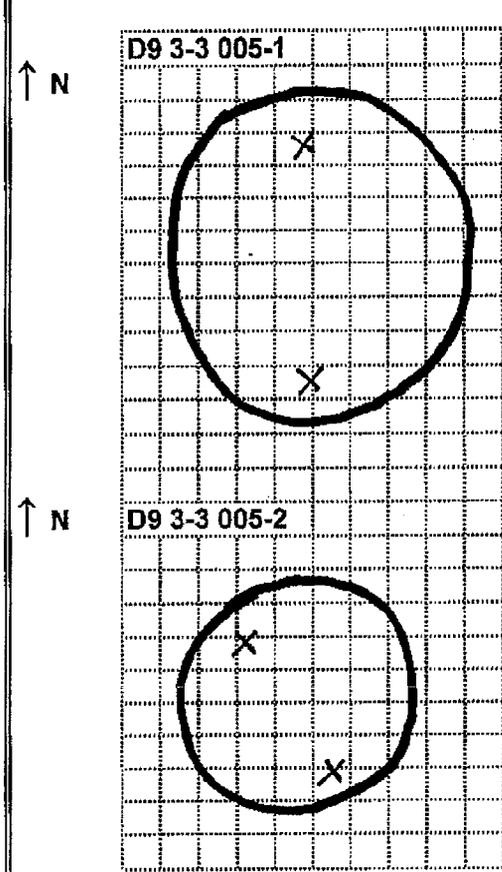
Parameters: B (Benzene); P (PCBs)

**BLOCK NO:** D9 3-3      **SAMPLE DATE:** 8/19/2010  
**STOCKPILE NO:** 005      **BLOCK PARAMETERS:** PCBs, TCLP VOC (Benzene)

**Weather:** Clear ( ) Cloudy ( X ) Rain/Snow ( ) Windy ( ) **TEMP.:** 77 °F  
**Stockpile Description** (Check all that apply)      **Soil Moisture:** ( ) Dry  
 ( X ) Soil      ( X ) Moist  
 ( ) C&D Debris (Concrete, Asphalt, etc)      ( ) Wet  
 ( ) Mfg. Debris  
 ( X ) Staining      **Odor:** Strong ( X ) Mild ( ) None ( )

1. Sketch Stockpile, Establish Dimensions, Describe Soil, and Locate Sample Locations.
2. Screen Stockpile with PID and Record GPS Coordinates for selected sample locations.
3. Provide a Sketch of the Stockpile, indicate north, and show PID readings and Sample Stations.
4. Collect Samples, Record ALL Data, Prepare COC, Count Bottles.

Designate Sample Locations on the Sketch with Reference Letter.



X Composite Location for A Sample

**SAMPLE DATA**

**A** CGMN-ESC-D9303005A-0-100819

Sample Time: 11:48

Sample Parameters: P, TCLP VOC (Benzene),  
 Sampled By: D. Armstrong / R. McLoughlin

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Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

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Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

**RINSATE SAMPLE:** \_\_\_\_\_ from \_\_\_\_\_

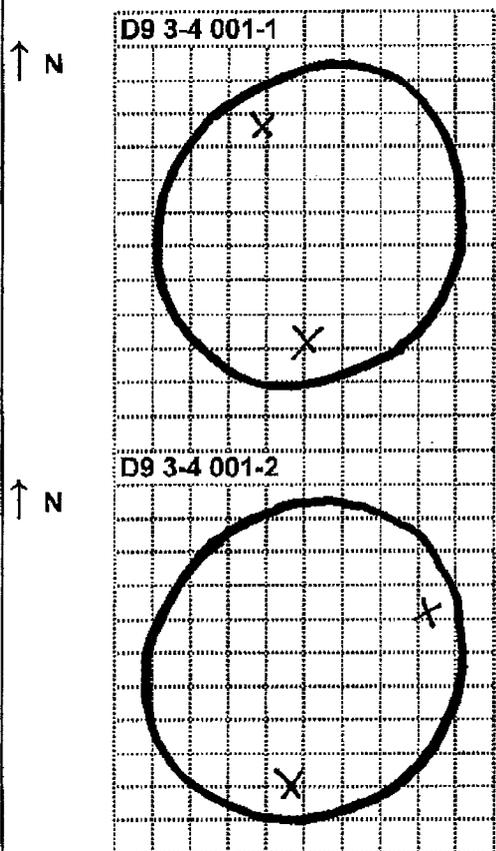
Parameters: B (Benzene); P (PCBs)

**BLOCK NO:** D9 3-4      **SAMPLE DATE:** 8/19/2010  
**STOCKPILE NO:** 001      **BLOCK PARAMETERS:** PCBs, TCLP VOC (Benzene), TCLP Metals (Lead)

**Weather:** Clear ( ) Cloudy ( X ) Rain/Snow ( ) Windy ( ) **TEMP.:** 77 °F  
**Stockpile Description** (Check all that apply)      **Soil Moisture:** ( ) Dry  
 ( X ) Soil      ( X ) Moist  
 ( ) C&D Debris (Concrete, Asphalt, etc)      ( ) Wet  
 ( ) Mfg. Debris  
 ( X ) Staining      **Odor:** Strong ( X ) Mild ( ) None ( )

1. Sketch Stockpile, Establish Dimensions, Describe Soil, and Locate Sample Locations.
2. Screen Stockpile with PID and Record GPS Coordinates for selected sample locations.
3. Provide a Sketch of the Stockpile, indicate north, and show PID readings and Sample Stations.
4. Collect Samples, Record ALL Data, Prepare COC, Count Bottles.

Designate Sample Locations on the Sketch with Reference Letter.



X Composite Location for A Sample

**SAMPLE DATA**

**A**      **CGMN-ESC-D9304001A-0-100819**

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Sample Time: 11:53  
 Sample Parameters: P, TCLP VOC (B Only),  
 TCLP Metals (Pb Only)  
 Sampled By: D. Armstrong / R. McLoughlin

---

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

---

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

---

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

**RINSATE SAMPLE:** \_\_\_\_\_ from \_\_\_\_\_  
 Parameters: **B** (Benzene); **P** (PCBs); **Pb** (Lead)

BLOCK NO: D9 3-4

SAMPLE DATE: 8/20/2010

STOCKPILE NO: 002

BLOCK PARAMETERS: PCBs, TCLP VOC (Benzene), TCLP Metals (Lead)

Weather: Clear ( ) Cloudy ( X ) Rain/Snow ( ) Windy ( ) TEMP.: 76 °F

Stockpile Description (Check all that apply)

Soil Moisture: ( ) Dry

( X ) Soil

( X ) Moist

( ) C&D Debris (Concrete, Asphalt, etc)

( ) Wet

( ) Mfg. Debris

( X ) Staining

Odor: Strong ( X ) Mild ( ) None ( )

1. Sketch Stockpile, Establish Dimensions, Describe Soil, and Locate Sample Locations.
2. Screen Stockpile with PID and Record GPS Coordinates for selected sample locations.
3. Provide a Sketch of the Stockpile, indicate north, and show PID readings and Sample Stations.
4. Collect Samples, Record ALL Data, Prepare COC, Count Bottles.

Designate Sample Locations on the Sketch with Reference Letter.

SAMPLE DATA

A CGMN-ESC-D9304002A-0-100820

Sample Time: 8:41

Sample Parameters: P, TCLP VOC (B Only),  
TCLP Metals (Pb Only)

Sampled By: R. McLoughlin

Sample Time: \_\_\_\_\_

Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_

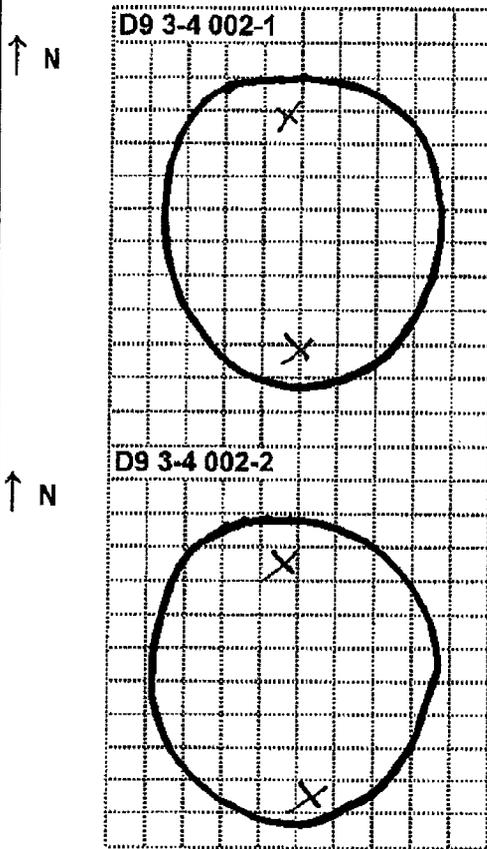
Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_

Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_



X Composite Location for A Sample

RINSATE SAMPLE:

from

Parameters: B (Benzene); P (PCBs); Pb (Lead)

BLOCK NO: D9 3-4

SAMPLE DATE: 8/20/2010

STOCKPILE NO: 003

BLOCK PARAMETERS: PCBs, TCLP VOC (Benzene), TCLP Metals (Lead)

Weather: Clear ( ) Cloudy ( X ) Rain/Snow ( ) Windy ( ) TEMP.: 76 °F

Stockpile Description (Check all that apply)

- ( X ) Soil
- ( ) C&D Debris (Concrete, Asphalt, etc)
- ( ) Mfg. Debris
- ( X ) Staining

Soil Moisture: ( ) Dry  
 ( X ) Moist  
 ( ) Wet

Odor: Strong ( X ) Mild ( ) None ( )

1. Sketch Stockpile, Establish Dimensions, Describe Soil, and Locate Sample Locations.
2. Screen Stockpile with PID and Record GPS Coordinates for selected sample locations.
3. Provide a Sketch of the Stockpile, indicate north, and show PID readings and Sample Stations.
4. Collect Samples, Record ALL Data, Prepare COC, Count Bottles.

Designate Sample Locations on the Sketch with Reference Letter.

**SAMPLE DATA**

**A** CGMN-ESC-D9304003A-0-100820

Sample Time: 8:50

Sample Parameters: P, TCLP VOC (B Only),  
TCLP Metals (Pb Only)

Sampled By: R. McLoughlin

Sample Time: \_\_\_\_\_

Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_

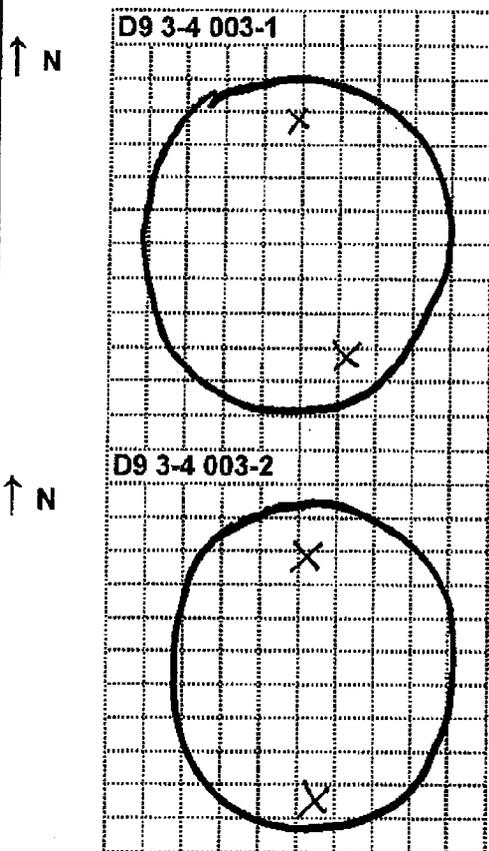
Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_

Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_



X Composite Location for A Sample

RINSATE SAMPLE:

from

Parameters: **B** (Benzene); **P** (PCBs); **Pb** (Lead)

BLOCK NO: D9 3-4

SAMPLE DATE: 8/20/2010

STOCKPILE NO: 004

BLOCK PARAMETERS: PCBs, TCLP VOC (Benzene), TCLP Metals (Lead)

Weather: Clear ( ) Cloudy ( X ) Rain/Snow ( ) Windy ( ) TEMP.: 76 °F

Stockpile Description (Check all that apply)

Soil Moisture: ( X ) Dry

( X ) Soil

( ) Moist

( ) C&D Debris (Concrete, Asphalt, etc)

( ) Wet

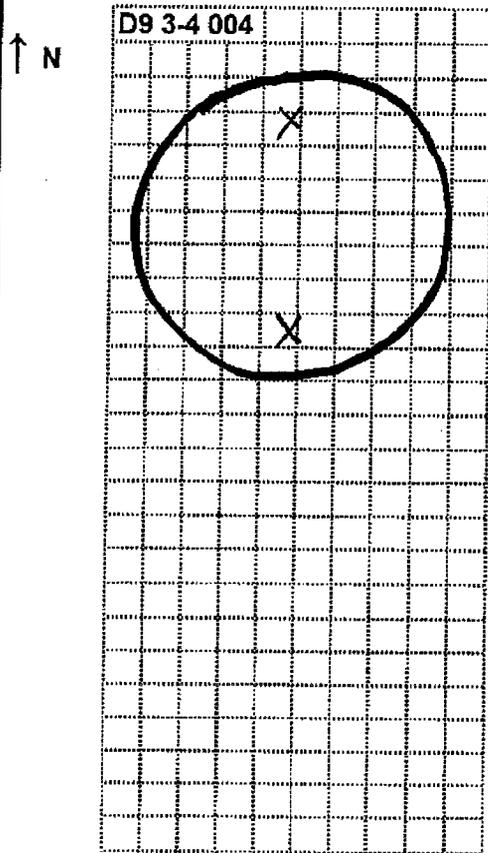
( ) Mfg. Debris

( X ) Staining

Odor: Strong ( X ) Mild ( ) None ( )

1. Sketch Stockpile, Establish Dimensions, Describe Soil, and Locate Sample Locations.
2. Screen Stockpile with PID and Record GPS Coordinates for selected sample locations.
3. Provide a Sketch of the Stockpile, Indicate north, and show PID readings and Sample Stations.
4. Collect Samples, Record ALL Data, Prepare COC, Count Bottles.

Designate Sample Locations on the Sketch with Reference Letter.



X Composite Location for A Sample

**SAMPLE DATA**

A CGMN-ESC-D9304004A-0-100820

CGMN-ESC-D9304004A-MS-100820

CGMN-ESC-D9304004A-MSD-100820

Sample Time: 9:00

Sample

P, TCLP VOC (B Only),  
TCLP Metals (Pb Only)

Parameters:

Sampled By:

R. McLoughlin

Sample Time: \_\_\_\_\_

Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_

Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_

Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_

RINSATE SAMPLE:

from

Parameters: B (Benzene); P (PCBs); Pb (Lead)

BLOCK NO: D9 2-7

SAMPLE DATE: 9/8/2010

STOCKPILE NO: 001

BLOCK PARAMETERS: TCLP VOC (Benzene)

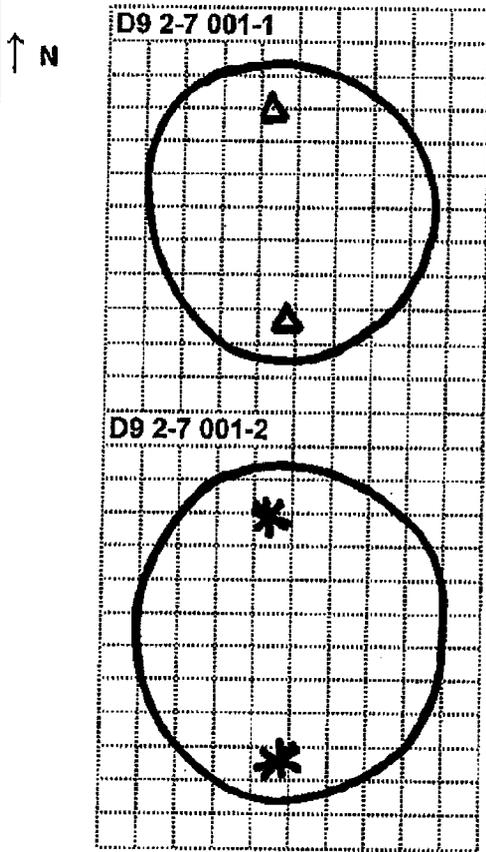
Weather: Clear (  ) Cloudy (  ) Rain/Snow (  ) Windy (  ) TEMP.: 60 °F

Stockpile Description (Check all that apply) Soil Moisture: (  ) Dry  
(  ) Soil (  ) Moist  
(  ) C&D Debris (Concrete, Asphalt, etc) (  ) Wet  
(  ) Mfg. Debris  
(  ) Staining Odor: Strong (  ) Mild (  ) None (  )

1. Sketch Stockpile, Establish Dimensions, Describe Soil, and Locate Sample Locations.
2. Screen Stockpile with PID and Record GPS Coordinates for selected sample locations.
3. Provide a Sketch of the Stockpile, indicate north, and show PID readings and Sample Stations.
4. Collect Samples, Record ALL Data, Prepare COC, Count Bottles.

Designate Sample Locations on the Sketch with Reference Letter.

**SAMPLE DATA**



**D** CGMN-ESC-D9207001D-0-100908

Sample Time: 11:36  
 Sample Parameters: TCLP VOC (Benzene Only)  
 Sampled By: R. McLoughlin / W. Westley

**E** CGMN-ESC-D9207001E-0-100908

Sample Time: 11:38  
 Sample Parameters: TCLP VOC (Benzene Only)  
 Sampled By: R. McLoughlin / W. Westley

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

Composite Location for D Sample  
 Composite Location for E Sample

RINSATE SAMPLE: \_\_\_\_\_ from \_\_\_\_\_

Parameters: B (Benzene)

BLOCK NO: D9 2-7

SAMPLE DATE: 9/8/2010

STOCKPILE NO: 003

BLOCK PARAMETERS: TCLP VOC (Benzene)

Weather: Clear (  ) Cloudy (  ) Rain/Snow (  ) Windy (  ) TEMP.: 60 °F

Stockpile Description (Check all that apply)

Soil Moisture: (  ) Dry

(  ) Soil

(  ) Moist

(  ) C&D Debris (Concrete, Asphalt, etc)

(  ) Wet

(  ) Mfg. Debris

(  ) Staining

Odor: Strong (  ) Mild (  ) None (  )

1. Sketch Stockpile, Establish Dimensions, Describe Soil, and Locate Sample Locations.
2. Screen Stockpile with PID and Record GPS Coordinates for selected sample locations.
3. Provide a Sketch of the Stockpile, indicate north, and show PID readings and Sample Stations.
4. Collect Samples, Record ALL Data, Prepare COC, Count Bottles.

Designate Sample Locations on the Sketch with Reference Letter.

**SAMPLE DATA**

A CGMN-ESC-D9207003A-0-100908

Sample Time: 11:41

Sample Parameters: TCLP VOC (Benzene Only)

Sampled By: R. McLoughlin / W. Westley

Sample Time: \_\_\_\_\_

Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_

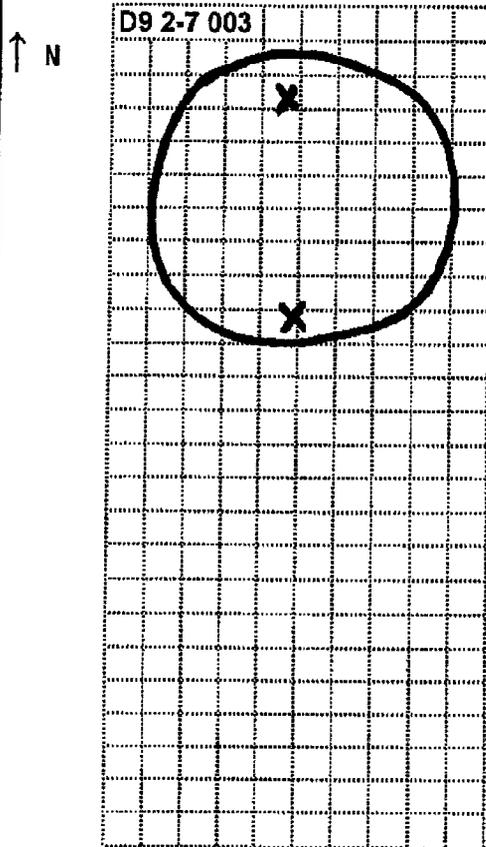
Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_

Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_



**X** Composite Location for A Sample

RINSATE SAMPLE:

from

Parameters: B (Benzene)

BLOCK NO: D9 3-1

SAMPLE DATE: 9/8/2010

STOCKPILE NO: 003

BLOCK PARAMETERS: TCLP VOC (Benzene)

Weather: Clear (  ) Cloudy (  ) Rain/Snow (  ) Windy(  ) TEMP.: 60 °F

Stockpile Description (Check all that apply) Soil Moisture: (  ) Dry

(  ) Soil (  ) Moist

(  ) C&D Debris (Concrete, Asphalt, etc) (  ) Wet

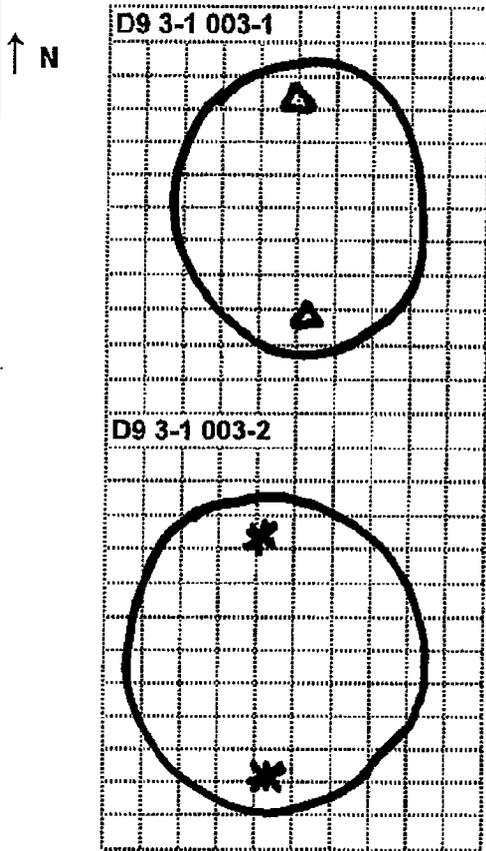
(  ) Mfg. Debris

(  ) Staining Odor: Strong (  ) Mild (  ) None (  )

1. Sketch Stockpile, Establish Dimensions, Describe Soil, and Locate Sample Locations.
2. Screen Stockpile with PID and Record GPS Coordinates for selected sample locations.
3. Provide a Sketch of the Stockpile, indicate north, and show PID readings and Sample Stations.
4. Collect Samples, Record ALL Data, Prepare COC, Count Bottles.

Designate Sample Locations on the Sketch with Reference Letter.

SAMPLE DATA



**D** CGMN-ESC-D9301003D-0-100908

Sample Time: 11:44

Sample Parameters: TCLP VOC (Benzene Only)

Sampled By: R. McLoughlin / W. Westley

**E** CGMN-ESC-D9301003E-0-100908

Sample Time: 11:47

Sample Parameters: TCLP VOC (Benzene Only)

Sampled By: R. McLoughlin / W. Westley

Sample Time: \_\_\_\_\_

Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_

Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_

Composite Location for D Sample

Composite Location for E Sample

RINSATE SAMPLE: \_\_\_\_\_ from \_\_\_\_\_

Parameters: B (Benzene);

BLOCK NO: D9 3-3

SAMPLE DATE: 9/8/2010

STOCKPILE NO: 001

BLOCK PARAMETERS: TCLP VOC (Benzene)

Weather: Clear (  ) Cloudy (  ) Rain/Snow (  ) Windy (  ) TEMP.: 60 °F

Stockpile Description (Check all that apply)

Soil Moisture: (  ) Dry

(  ) Soil

(  ) Moist

(  ) C&D Debris (Concrete, Asphalt, etc)

(  ) Wet

(  ) Mfg. Debris

(  ) Staining

Odor: Strong (  ) Mild (  ) None (  )

1. Sketch Stockpile, Establish Dimensions, Describe Soil, and Locate Sample Locations.
2. Screen Stockpile with PID and Record GPS Coordinates for selected sample locations.
3. Provide a Sketch of the Stockpile, indicate north, and show PID readings and Sample Stations.
4. Collect Samples, Record ALL Data, Prepare COC, Count Bottles.

Designate Sample Locations on the Sketch with Reference Letter.

**SAMPLE DATA**

**D CGMN-ESC-D9303001D-0-100908**

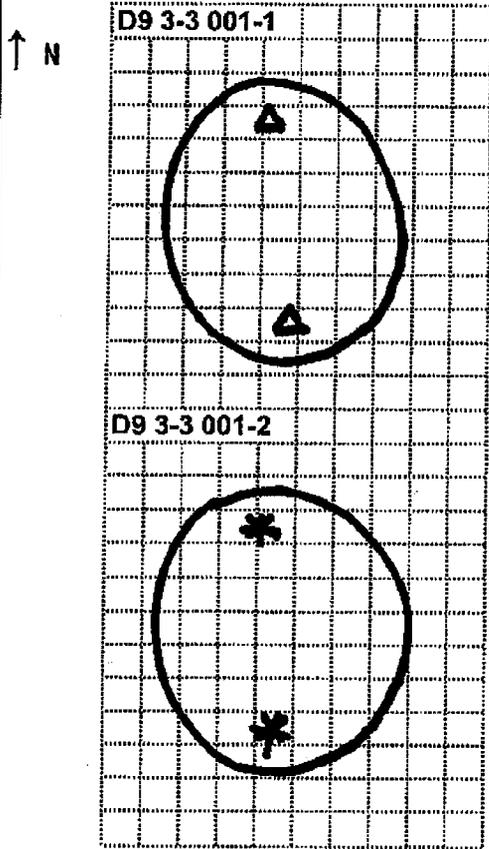
Sample Time: 9:50  
 Sample Parameters: TCLP VOC (Benzene Only)  
 Sampled By: R. McLoughlin / W. Westley

**E CGMN-ESC-D9303001E-0-100908**

Sample Time: 11:33  
 Sample Parameters: TCLP VOC (Benzene Only)  
 Sampled By: R. McLoughlin / W. Westley

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_



Composite Location for D Sample  
 Composite Location for E Sample

RINSATE SAMPLE: \_\_\_\_\_ from \_\_\_\_\_

Parameters: B (Benzene)

BLOCK NO: D9 3-3

SAMPLE DATE: 9/8/2010

STOCKPILE NO: 002

BLOCK PARAMETERS: TCLP VOC (Benzene)

Weather: Clear (  ) Cloudy (  ) Rain/Snow (  ) Windy(  ) TEMP.: 60 °F

Stockpile Description (Check all that apply) Soil Moisture: (  ) Dry

(  ) Soil (  ) Moist

(  ) C&D Debris (Concrete, Asphalt, etc) (  ) Wet

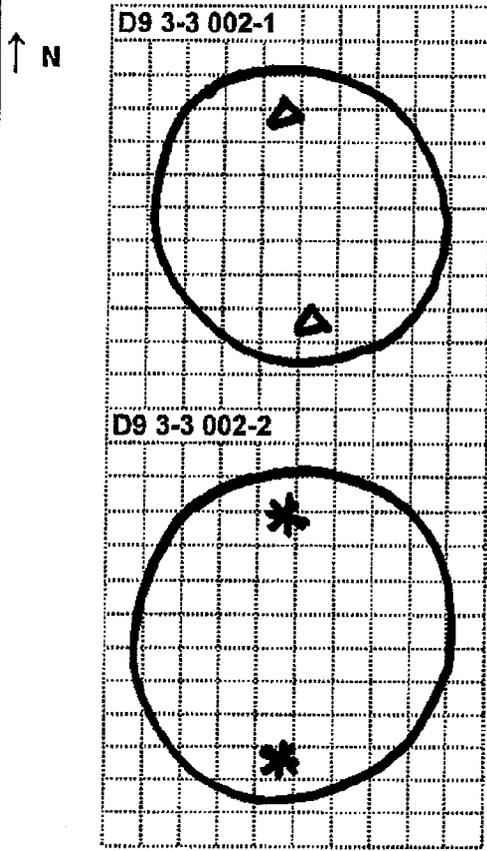
(  ) Mfg. Debris

(  ) Staining Odor: Strong (  ) Mild (  ) None (  )

1. Sketch Stockpile, Establish Dimensions, Describe Soil, and Locate Sample Locations.
2. Screen Stockpile with PID and Record GPS Coordinates for selected sample locations.
3. Provide a Sketch of the Stockpile, indicate north, and show PID readings and Sample Stations.
4. Collect Samples, Record ALL Data, Prepare COC, Count Bottles.

Designate Sample Locations on the Sketch with Reference Letter.

**SAMPLE DATA**



**D** CGMN-ESC-D9303002D-0-100908

Sample Time: 11:30

Sample Parameters: TCLP VOC (Benzene Only)

Sampled By: R. McLoughlin / W. Westley

**E** CGMN-ESC-D9303002E-0-100908

Sample Time: 11:28

Sample Parameters: TCLP VOC (Benzene Only)

Sampled By: R. McLoughlin / W. Westley

Sample Time: \_\_\_\_\_

Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_

Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_

Composite Location for D Sample

Composite Location for E Sample

RINSATE SAMPLE: \_\_\_\_\_ from \_\_\_\_\_

Parameters:  (Benzene)

BLOCK NO: D9 3-3

SAMPLE DATE: 9/8/2010

STOCKPILE NO: 004

BLOCK PARAMETERS: TCLP VOC (Benzene)

Weather: Clear (  ) Cloudy (  ) Rain/Snow (  ) Windy (  ) TEMP.: 60 °F

Stockpile Description (Check all that apply)

Soil Moisture: (  ) Dry

(  ) Soil

(  ) Moist

(  ) C&D Debris (Concrete, Asphalt, etc)

(  ) Wet

(  ) Mfg. Debris

(  ) Staining

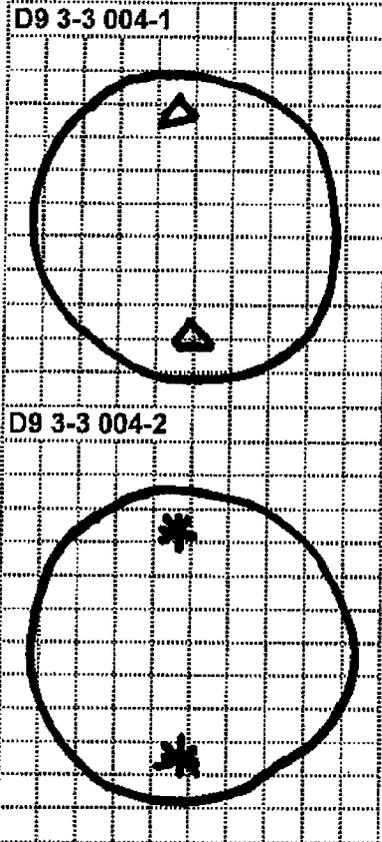
Odor: Strong (  ) Mild (  ) None (  )

1. Sketch Stockpile, Establish Dimensions, Describe Soil, and Locate Sample Locations.
2. Screen Stockpile with PID and Record GPS Coordinates for selected sample locations.
3. Provide a Sketch of the Stockpile, indicate north, and show PID readings and Sample Stations.
4. Collect Samples, Record ALL Data, Prepare COC, Count Bottles.

Designate Sample Locations on the Sketch with Reference Letter.

SAMPLE DATA

↑ N



D CGMN-ESC-D9303004D-0-100908

Sample Time: 9:44  
 Sample Parameters: TCLP VOC (Benzene Only)  
 Sampled By: R. McLoughlin / W. Westley

E CGMN-ESC-D9303004E-0-100908

Sample Time: 9:38  
 Sample Parameters: TCLP VOC (Benzene Only)  
 Sampled By: R. McLoughlin / W. Westley

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

▲ Composite Location for D Sample  
 \* Composite Location for E Sample

RINSATE SAMPLE: \_\_\_\_\_ from \_\_\_\_\_

Parameters: B (Benzene)

BLOCK NO: D9 3-3

SAMPLE DATE: 9/8/2010

STOCKPILE NO: 005

BLOCK PARAMETERS: TCLP VOC (Benzene)

Weather: Clear (  ) Cloudy (  ) Rain/Snow (  ) Windy (  ) TEMP.: 60 °F

Stockpile Description (Check all that apply)

Soil Moisture: (  ) Dry

(  ) Soil

(  ) Moist

(  ) C&D Debris (Concrete, Asphalt, etc)

(  ) Wet

(  ) Mfg. Debris

(  ) Staining

Odor: Strong (  ) Mild (  ) None (  )

1. Sketch Stockpile, Establish Dimensions, Describe Soil, and Locate Sample Locations.
2. Screen Stockpile with PID and Record GPS Coordinates for selected sample locations.
3. Provide a Sketch of the Stockpile, indicate north, and show PID readings and Sample Stations.
4. Collect Samples, Record ALL Data, Prepare COC, Count Bottles.

Designate Sample Locations on the Sketch with Reference Letter.

**SAMPLE DATA**

D CGMN-ESC-D9303005D-0-100908

Sample Time: 11:25

Sample Parameters: TCLP VOC (Benzene Only)

Sampled By: R. McLoughlin / W. Westley

E CGMN-ESC-D9303005E-0-100908

Sample Time: 11:23

Sample Parameters: TCLP VOC (Benzene Only)

Sampled By: R. McLoughlin / W. Westley

Sample Time: \_\_\_\_\_

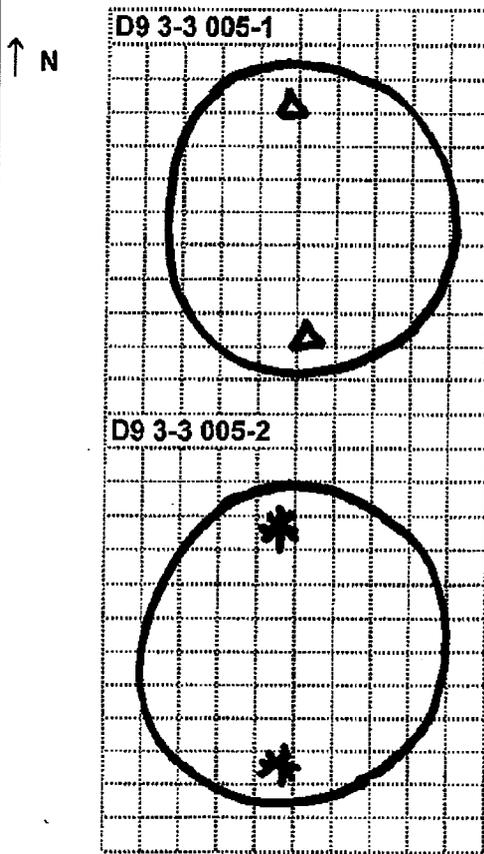
Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_

Sample Parameters: \_\_\_\_\_

Sampled By: \_\_\_\_\_



Composite Location for D Sample  
 Composite Location for E Sample

RINSATE SAMPLE: \_\_\_\_\_ from \_\_\_\_\_

Parameters: B (Benzene)

BLOCK NO: D9 3-6

SAMPLE DATE: 9/8/2010

STOCKPILE NO: 001

BLOCK PARAMETERS: TCLP VOC (Benzene)

Weather: Clear (  ) Cloudy (  ) Rain/Snow (  ) Windy (  ) TEMP.: 60 °F

Stockpile Description (Check all that apply)

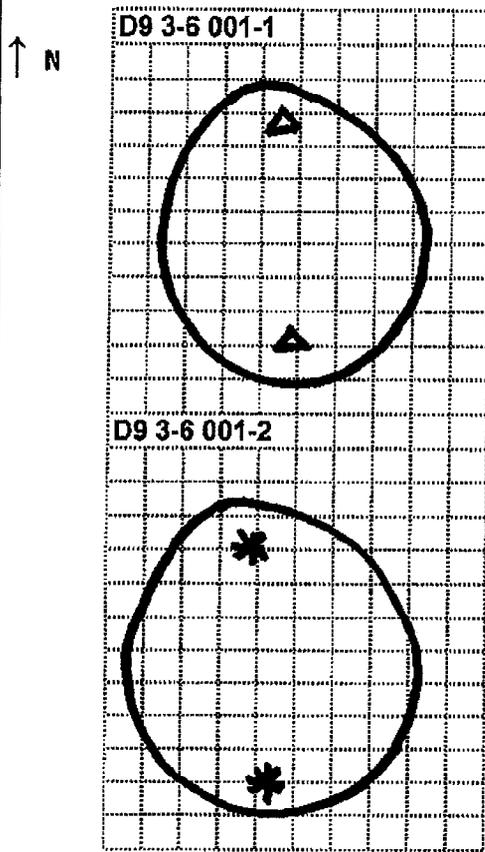
- (  ) Soil
- (  ) C&D Debris (Concrete, Asphalt, etc)
- (  ) Mfg. Debris
- (  ) Staining

Soil Moisture: (  ) Dry  
 (  ) Moist  
 (  ) Wet

Odor: Strong (  ) Mild (  ) None (  )

1. Sketch Stockpile, Establish Dimensions, Describe Soil, and Locate Sample Locations.
2. Screen Stockpile with PID and Record GPS Coordinates for selected sample locations.
3. Provide a Sketch of the Stockpile, indicate north, and show PID readings and Sample Stations.
4. Collect Samples, Record ALL Data, Prepare COC, Count Bottles.

Designate Sample Locations on the Sketch with Reference Letter.



Composite Location for D Sample  
 Composite Location for E Sample

**SAMPLE DATA**

**D** CGMN-ESC-D9306001D-0-100908  
CGMN-ESC-D9306001D-DB-100908  
 Sample Time: 9:32  
 Sample Parameters: TCLP VOC (Benzene Only)  
 Sampled By: R. McLoughlin / W. Westley

**E** CGMN-ESC-D9306001E-0-100908  
 Sample Time: 9:27  
 Sample Parameters: TCLP VOC (Benzene Only)  
 Sampled By: R. McLoughlin / W. Westley

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

RINSATE SAMPLE: \_\_\_\_\_ from \_\_\_\_\_

Parameters: B (Benzene)

BLOCK NO: D9 3-6

SAMPLE DATE: 9/8/2010

STOCKPILE NO: 002

BLOCK PARAMETERS: TCLP VOC (Benzene)

Weather: Clear ( X ) Cloudy ( ) Rain/Snow ( ) Windy( ) TEMP.: 60 °F

Stockpile Description (Check all that apply) Soil Moisture: ( X ) Dry

( X ) Soil ( ) Moist

( ) C&D Debris (Concrete, Asphalt, etc) ( ) Wet

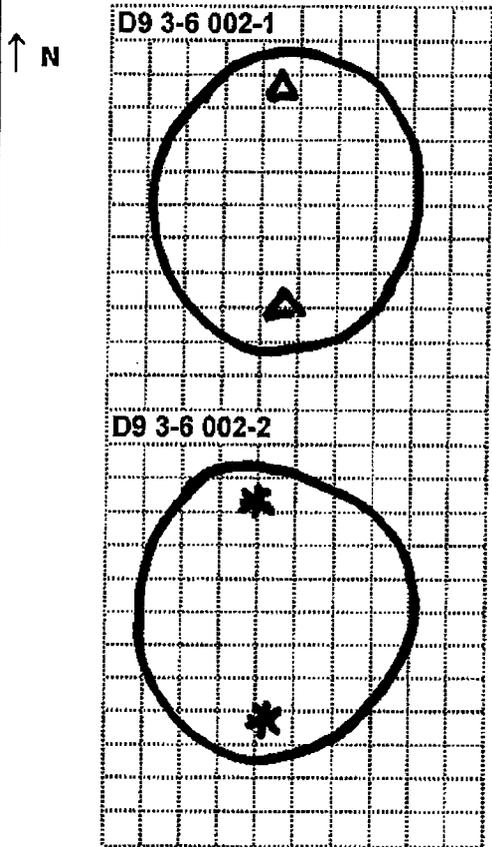
( ) Mfg. Debris

( X ) Staining Odor: Strong ( X ) Mild ( ) None ( )

1. Sketch Stockpile, Establish Dimensions, Describe Soil, and Locate Sample Locations.
2. Screen Stockpile with PID and Record GPS Coordinates for selected sample locations.
3. Provide a Sketch of the Stockpile, indicate north, and show PID readings and Sample Stations.
4. Collect Samples, Record ALL Data, Prepare COC, Count Bottles.

Designate Sample Locations on the Sketch with Reference Letter.

SAMPLE DATA



D CGMN-ESC-D9306002D-0-100908

Sample Time: 9:23  
 Sample Parameters: TCLP VOC (Benzene Only)  
 Sampled By: R. McLoughlin / W. Westley

E CGMN-ESC-D9306002E-0-100908

Sample Time: 9:18  
 Sample Parameters: TCLP VOC (Benzene Only)  
 Sampled By: R. McLoughlin / W. Westley

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

Composite Location for D Sample  
 Composite Location for E Sample

RINSATE SAMPLE: \_\_\_\_\_ from \_\_\_\_\_

Parameters: B (Benzene)

BLOCK NO: D9 3-6

SAMPLE DATE: 9/8/2010

STOCKPILE NO: 003

BLOCK PARAMETERS: TCLP VOC (Benzene)

Weather: Clear ( X ) Cloudy ( ) Rain/Snow ( ) Windy ( ) TEMP.: 60 °F

Stockpile Description (Check all that apply)

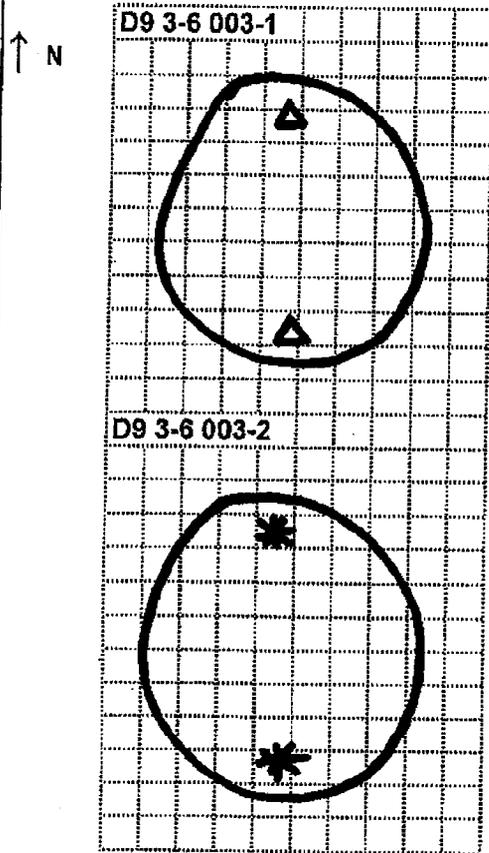
- ( X ) Soil
- ( ) C&D Debris (Concrete, Asphalt, etc)
- ( ) Mfg. Debris
- ( X ) Staining

Soil Moisture: ( X ) Dry  
 ( ) Moist  
 ( ) Wet

Odor: Strong ( X ) Mild ( ) None ( )

1. Sketch Stockpile, Establish Dimensions, Describe Soil, and Locate Sample Locations.
2. Screen Stockpile with PID and Record GPS Coordinates for selected sample locations.
3. Provide a Sketch of the Stockpile, indicate north, and show PID readings and Sample Stations.
4. Collect Samples, Record ALL Data, Prepare COC, Count Bottles.

Designate Sample Locations on the Sketch with Reference Letter.



▲ Composite Location for D Sample  
 \* Composite Location for E Sample

**SAMPLE DATA**

D **CGMN-ESC-D9306003D-0-100908**

Sample Time: 9:12  
 Sample Parameters: TCLP VOC (Benzene Only)  
 Sampled By: R. McLoughlin / W. Westley

E **CGMN-ESC-D9306003E-0-100908**  
**CGMN-ESC-D9306003E-MS-100908**  
**CGMN-ESC-D9306003E-MSD-100908**

Sample Time: 9:07  
 Sample Parameters: TCLP VOC (Benzene Only)  
 Sampled By: R. McLoughlin / W. Westley

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

Sample Time: \_\_\_\_\_  
 Sample Parameters: \_\_\_\_\_  
 Sampled By: \_\_\_\_\_

RINSATE SAMPLE:

from

Parameters: B (Benzene)

# Appendix G

Appendix G

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**APPENDIX G  
METEROLOGICAL DATA**

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Table 1

Summary of Meteorological Data  
 May 2010 - October 2010  
 Cottage Grove Site

| Date<br>(M/D/YYYY) | Temperature     |                 |              | Precipitation<br>(inches) | Wind                           |   |                              |
|--------------------|-----------------|-----------------|--------------|---------------------------|--------------------------------|---|------------------------------|
|                    | Minimum<br>(°F) | Maximum<br>(°F) | Average (°F) |                           | Average<br>Wind Speed<br>(mph) | Average<br>Wind<br>Direction<br>(Degrees) | Average<br>Wind<br>Direction |
| 5/26/2010          | 55.73           | 78.93           | 68.60        | 0.00                      | 2.91                           | 225 ± 148                                 | SW                           |
| 5/27/2010          | 50.03           | 82.90           | 66.67        | 0.00                      | 2.55                           | 131 ± 125                                 | SE                           |
| 5/28/2010          | 49.09           | 85.50           | 68.18        | 0.00                      | 1.85                           | 133 ± 116                                 | SE                           |
| 5/29/2010          | 55.52           | 91.60           | 74.91        | 0.00                      | 1.95                           | 102 ± 56                                  | E                            |
| 5/30/2010          | 59.34           | 82.40           | 70.45        | 0.00                      | 4.34                           | 205 ± 111                                 | SW                           |
| 5/31/2010          | 50.72           | 79.89           | 65.52        | 0.00                      | 2.17                           | 171 ± 124                                 | S                            |
| 6/1/2010           | 54.18           | 80.40           | 65.91        | 0.19                      | 2.07                           | 166 ± 106                                 | S                            |
| 6/2/2010           | 53.53           | 72.74           | 62.25        | 0.04                      | 2.74                           | 173 ± 155                                 | S                            |
| 6/3/2010           | 49.23           | 79.13           | 64.84        | 0.00                      | 2.14                           | 156 ± 103                                 | SE                           |
| 6/4/2010           | 61.98           | 81.10           | 70.80        | 0.35                      | 5.10                           | 225 ± 93                                  | SW                           |
| 6/5/2010           | 56.70           | 69.21           | 61.34        | 0.24                      | 1.85                           | 194 ± 133                                 | S                            |
| 6/6/2010           | 53.23           | 74.37           | 62.92        | 0.05                      | 4.21                           | 239 ± 126                                 | SW                           |
| 6/7/2010           | 49.67           | 77.86           | 64.74        | 0.00                      | 2.31                           | 148 ± 93                                  | SE                           |
| 6/8/2010           | 59.82           | 69.52           | 63.48        | 0.71                      | 4.37                           | 144 ± 89                                  | SE                           |
| 6/9/2010           | 56.41           | 72.30           | 65.52        | 0.00                      | 8.43                           | 288 ± 29                                  | W                            |
| 6/10/2010          | 51.41           | 65.80           | 59.95        | 0.00                      | 3.88                           | 119 ± 86                                  | SE                           |
| 6/11/2010          | 59.79           | 75.62           | 66.29        | 0.60                      | 4.46                           | 173 ± 122                                 | S                            |
| 6/12/2010          | 53.88           | 61.84           | 58.47        | 0.08                      | 2.97                           | 169 ± 152                                 | S                            |
| 6/13/2010          | 58.36           | 66.09           | 62.17        | 0.01                      | 2.42                           | 255 ± 127                                 | W                            |
| 6/14/2010          | 56.35           | 68.30           | 62.34        | 0.32                      | 3.62                           | 116 ± 107                                 | SE                           |
| 6/15/2010          | 59.72           | 78.37           | 67.62        | 0.05                      | 3.84                           | 165 ± 98                                  | S                            |
| 6/16/2010          | 59.40           | 83.10           | 68.43        | 0.01                      | 2.82                           | 206 ± 120                                 | SW                           |
| 6/17/2010          | 63.83           | 87.00           | 74.76        | 0.06                      | 3.08                           | 109 ± 46                                  | E                            |
| 6/18/2010          | 62.67           | 83.10           | 72.90        | 0.00                      | 3.10                           | 208 ± 92                                  | SW                           |
| 6/19/2010          | 58.38           | 75.16           | 67.90        | 0.00                      | 6.24                           | 263 ± 95                                  | W                            |
| 6/20/2010          | 55.29           | 84.90           | 70.08        | 0.00                      | 1.73                           | 120 ± 94                                  | SE                           |
| 6/21/2010          | 65.18           | 84.10           | 72.12        | 0.00                      | 1.59                           | 151 ± 94                                  | SE                           |
| 6/22/2010          | 63.53           | 91.70           | 77.54        | 0.00                      | 1.60                           | 156 ± 86                                  | SE                           |
| 6/23/2010          | 64.84           | 79.40           | 71.29        | 0.60                      | 5.28                           | 247 ± 92                                  | SW                           |
| 6/24/2010          | 56.36           | 84.20           | 70.22        | 0.00                      | 1.85                           | 189 ± 119                                 | S                            |
| 6/25/2010          | 61.73           | 88.00           | 71.48        | 2.02                      | 2.30                           | 129 ± 95                                  | SE                           |

Z:\3m-cottage-grove\09\_Construction\CCR\Appendices\Appendix G (Met. Data)\GGMN D9 Met Data

Table 1

Summary of Meteorological Data  
 May 2010 - October 2010  
 Cottage Grove Site

| Date<br>(M/D/YYYY) | Temperature     |                 |              | Precipitation<br>(inches) | Wind                              |   |                              |
|--------------------|-----------------|-----------------|--------------|---------------------------|-----------------------------------|---|------------------------------|
|                    | Minimum<br>(°F) | Maximum<br>(°F) | Average (°F) |                           | Average<br>Wind<br>Speed<br>(mph) | Average<br>Wind<br>Direction<br>(Degrees) | Average<br>Wind<br>Direction |
| 6/26/2010          | 63.44           | 87.30           | 74.00        | 0.95                      | 2.23                              | 149 ± 103                                 | SE                           |
| 6/27/2010          | 65.05           | 83.40           | 74.10        | 0.03                      | 6.04                              | 241 ± 104                                 | SW                           |
| 6/28/2010          | 57.08           | 73.48           | 66.69        | 0.00                      | 6.49                              | 307 ± 42                                  | NW                           |
| 6/29/2010          | 52.39           | 73.80           | 63.21        | 0.00                      | 2.67                              | 158 ± 149                                 | S                            |
| 6/30/2010          | 47.96           | 81.50           | 66.38        | 0.00                      | 1.86                              | 117 ± 97                                  | SE                           |
| 7/1/2010           | 61.53           | 87.40           | 74.47        | 0.00                      | 2.02                              | 116 ± 83                                  | SE                           |
| 7/2/2010           | 62.52           | 87.00           | 75.60        | 0.00                      | 2.05                              | 117 ± 78                                  | SE                           |
| 7/3/2010           | 69.82           | 91.20           | 80.32        | 0.00                      | 2.03                              | 131 ± 79                                  | SE                           |
| 7/4/2010           | 70.93           | 83.70           | 77.01        | 0.16                      | 2.56                              | 193 ± 98                                  | S                            |
| 7/5/2010           | 65.86           | 85.70           | 73.67        | 1.86                      | 1.37                              | 148 ± 116                                 | SE                           |
| 7/6/2010           | 67.98           | 89.30           | 76.39        | 0.10                      | 1.61                              | 174 ± 111                                 | S                            |
| 7/7/2010           | 64.24           | 88.80           | 73.92        | 0.19                      | 2.36                              | 166 ± 126                                 | S                            |
| 7/8/2010           | 62.20           | 83.70           | 73.45        | 0.00                      | 4.34                              | 272 ± 90                                  | W                            |
| 7/9/2010           | 59.45           | 86.00           | 73.62        | 0.00                      | 3.12                              | 211 ± 117                                 | SW                           |
| 7/10/2010          | 62.05           | 85.10           | 74.24        | 0.05                      | 1.66                              | 156 ± 102                                 | SE                           |
| 7/11/2010          | 64.82           | 83.40           | 71.51        | 0.51                      | 3.10                              | 217 ± 105                                 | SW                           |
| 7/12/2010          | 57.84           | 79.87           | 68.09        | 0.00                      | 2.02                              | 171 ± 136                                 | S                            |
| 7/13/2010          | 57.02           | 89.40           | 72.59        | 0.00                      | 1.89                              | 86 ± 23                                   | E                            |
| 7/14/2010          | 72.59           | 86.60           | 78.27        | 0.57                      | 3.40                              | 152 ± 94                                  | SE                           |
| 7/15/2010          | 60.45           | 82.60           | 73.66        | 0.00                      | 5.14                              | 268 ± 67                                  | W                            |
| 7/16/2010          | 68.53           | 88.40           | 78.00        | 0.00                      | 3.59                              | 262 ± 44                                  | W                            |
| 7/17/2010          | 64.16           | 92.90           | 75.71        | 0.98                      | 2.43                              | 131 ± 92                                  | SE                           |
| 7/18/2010          | 66.05           | 82.80           | 73.11        | 0.00                      | 5.37                              | 241 ± 108                                 | SW                           |
| 7/19/2010          | 59.72           | 81.90           | 70.40        | 0.00                      | 1.40                              | 132 ± 124                                 | SE                           |
| 7/20/2010          | 59.33           | 84.70           | 72.70        | 0.00                      | 3.18                              | 202 ± 123                                 | S                            |
| 7/21/2010          | 60.58           | 88.20           | 74.25        | 0.00                      | 1.82                              | 165 ± 113                                 | S                            |
| 7/22/2010          | 66.29           | 75.94           | 69.84        | 1.26                      | 3.95                              | 76 ± 45                                   | E                            |
| 7/23/2010          | 64.87           | 88.20           | 74.92        | 0.00                      | 2.85                              | 181 ± 118                                 | S                            |
| 7/24/2010          | 63.68           | 82.20           | 72.02        | 1.12                      | 5.15                              | 258 ± 113                                 | W                            |
| 7/25/2010          | 59.42           | 86.10           | 72.31        | 0.00                      | 1.42                              | 161 ± 124                                 | S                            |
| 7/26/2010          | 62.80           | 88.10           | 75.58        | 0.00                      | 1.56                              | 130 ± 100                                 | SE                           |

Z:\3m-cottage grove\D9\_Construction\CCR\Appendices\Appendix G (Met Data)\CGMIN D9 Met Data

Table 1

Summary of Meteorological Data  
 May 2010 - October 2010  
 Cottage Grove Site

| Date<br>(M/D/YYYY) | Temperature     |                 |              | Precipitation<br>(inches) | Wind                              |   |                              |
|--------------------|-----------------|-----------------|--------------|---------------------------|-----------------------------------|---|------------------------------|
|                    | Minimum<br>(°F) | Maximum<br>(°F) | Average (°F) |                           | Average<br>Wind<br>Speed<br>(mph) | Average<br>Wind<br>Direction<br>(Degrees) | Average<br>Wind<br>Direction |
| 7/27/2010          | 70.91           | 93.90           | 79.67        | 0.31                      | 2.32                              | 159 ± 103                                 | S                            |
| 7/28/2010          | 63.11           | 80.40           | 72.26        | 0.00                      | 4.33                              | 304 ± 69                                  | NW                           |
| 7/29/2010          | 59.11           | 84.00           | 71.37        | 0.00                      | 1.33                              | 140 ± 109                                 | SE                           |
| 7/30/2010          | 65.47           | 75.88           | 69.55        | 0.02                      | 2.09                              | 92 ± 63                                   | E                            |
| 7/31/2010          | 64.99           | 84.40           | 73.19        | 0.00                      | 1.81                              | 142 ± 130                                 | SE                           |
| 8/1/2010           | 64.06           | 90.60           | 75.53        | 0.00                      | 0.93                              | 138 ± 90                                  | SE                           |
| 8/2/2010           | 71.63           | 86.90           | 78.29        | 0.05                      | 2.08                              | 185 ± 102                                 | S                            |
| 8/3/2010           | 69.55           | 94.00           | 80.49        | 0.00                      | 2.23                              | 215 ± 96                                  | SW                           |
| 8/4/2010           | 67.21           | 87.80           | 76.46        | 0.00                      | 4.19                              | 261 ± 92                                  | W                            |
| 8/5/2010           | 61.40           | 80.20           | 71.53        | 0.00                      | 6.94                              | 291 ± 60                                  | W                            |
| 8/6/2010           | 58.43           | 83.90           | 70.87        | 0.00                      | 2.84                              | 227 ± 114                                 | SW                           |
| 8/7/2010           | 63.23           | 90.50           | 74.53        | 0.03                      | 1.75                              | 134 ± 93                                  | SE                           |
| 8/8/2010           | 71.17           | 96.10           | 80.41        | 0.33                      | 2.32                              | 107 ± 71                                  | E                            |
| 8/9/2010           | 70.27           | 93.70           | 80.36        | 0.00                      | 2.05                              | 122 ± 109                                 | SE                           |
| 8/10/2010          | 69.00           | 90.10           | 75.86        | 1.73                      | 2.67                              | 116 ± 93                                  | SE                           |
| 8/11/2010          | 70.23           | 92.30           | 79.08        | 0.25                      | 2.40                              | 183 ± 100                                 | S                            |
| 8/12/2010          | 67.35           | 93.30           | 79.71        | 0.00                      | 2.00                              | 150 ± 113                                 | SE                           |
| 8/13/2010          | 66.38           | 89.10           | 74.71        | 1.88                      | 3.84                              | 116 ± 92                                  | SE                           |
| 8/14/2010          | 62.84           | 86.00           | 73.85        | 0.00                      | 4.83                              | 241 ± 98                                  | SW                           |
| 8/15/2010          | 62.99           | 76.44           | 68.83        | 0.00                      | 11.10                             | 286 ± 5                                   | W                            |
| 8/16/2010          | 56.12           | 77.47           | 67.56        | 0.00                      | 7.31                              | 287 ± 58                                  | W                            |
| 8/17/2010          | 52.65           | 79.82           | 65.58        | 0.00                      | 1.62                              | 168 ± 116                                 | S                            |
| 8/18/2010          | 62.70           | 79.70           | 69.04        | 0.00                      | 2.38                              | 231 ± 85                                  | SW                           |
| 8/19/2010          | 65.47           | 79.87           | 73.65        | 0.00                      | 3.11                              | 105 ± 61                                  | E                            |
| 8/20/2010          | 71.19           | 90.00           | 77.99        | 0.00                      | 1.67                              | 114 ± 70                                  | SE                           |
| 8/21/2010          | 66.24           | 84.80           | 72.60        | 0.00                      | 2.09                              | 187 ± 142                                 | S                            |
| 8/22/2010          | 60.21           | 91.50           | 74.83        | 0.00                      | 1.69                              | 114 ± 85                                  | SE                           |
| 8/23/2010          | 69.96           | 90.90           | 78.96        | 0.00                      | 1.87                              | 107 ± 62                                  | E                            |
| 8/24/2010          | 56.89           | 76.96           | 69.89        | 0.04                      | 7.57                              | 271 ± 77                                  | W                            |
| 8/25/2010          | 53.09           | 73.20           | 62.90        | 0.00                      | 4.48                              | 302 ± 87                                  | NW                           |
| 8/26/2010          | 49.65           | 81.10           | 66.92        | 0.00                      | 1.90                              | 134 ± 99                                  | SE                           |

Z:\3m-cottage grove\D9\_Construction\CCR\Appendicies\Appendix G (Met Data)\CGMIN D9 Met Data

Table 1

Summary of Meteorological Data  
 May 2010 - October 2010  
 Cottage Grove Site

| Date<br>(M/D/YYYY) | Temperature     |                 |              | Precipitation<br>(inches) | Wind                              |   |                              |
|--------------------|-----------------|-----------------|--------------|---------------------------|-----------------------------------|---|------------------------------|
|                    | Minimum<br>(°F) | Maximum<br>(°F) | Average (°F) |                           | Average<br>Wind<br>Speed<br>(mph) | Average<br>Wind<br>Direction<br>(Degrees) | Average<br>Wind<br>Direction |
| 8/27/2010          | 60.57           | 87.60           | 73.80        | 0.00                      | 2.78                              | 159 ± 104                                 | S                            |
| 8/28/2010          | 63.10           | 90.10           | 75.61        | 0.00                      | 2.38                              | 108 ± 60                                  | E                            |
| 8/29/2010          | 63.81           | 93.80           | 78.52        | 0.00                      | 1.81                              | 102 ± 50                                  | E                            |
| 8/30/2010          | 74.30           | 92.40           | 81.61        | 0.00                      | 2.11                              | 105 ± 29                                  | E                            |
| 8/31/2010          | 67.09           | 87.60           | 75.48        | 0.89                      | 2.85                              | 176 ± 98                                  | S                            |
| 9/1/2010           | 57.94           | 78.14           | 67.66        | 0.00                      | 2.73                              | 185 ± 133                                 | S                            |
| 9/2/2010           | 58.79           | 72.36           | 65.11        | 0.85                      | 5.59                              | 214 ± 100                                 | SW                           |
| 9/3/2010           | 48.85           | 60.97           | 57.49        | 0.00                      | 12.38                             | 294 ± 56                                  | NW                           |
| 9/4/2010           | 46.66           | 68.29           | 56.76        | 0.00                      | 4.64                              | 270 ± 108                                 | W                            |
| 9/5/2010           | 46.31           | 73.31           | 60.01        | 0.00                      | 3.29                              | 89 ± 50                                   | E                            |
| 9/6/2010           | 58.76           | 70.94           | 64.54        | 0.11                      | 4.25                              | 110 ± 67                                  | E                            |
| 9/7/2010           | 52.75           | 64.38           | 58.18        | 0.00                      | 11.61                             | 294 ± 19                                  | NW                           |
| 9/8/2010           | 43.47           | 70.64           | 55.91        | 0.00                      | 2.57                              | 203 ± 121                                 | SW                           |
| 9/9/2010           | 49.11           | 64.28           | 56.99        | 0.00                      | 3.27                              | 87 ± 15                                   | E                            |
| 9/10/2010          | 57.62           | 68.01           | 61.73        | 0.04                      | 4.73                              | 89 ± 28                                   | E                            |
| 9/11/2010          | 50.86           | 72.51           | 61.93        | 0.02                      | 6.30                              | 227 ± 101                                 | SW                           |
| 9/12/2010          | 49.21           | 78.63           | 62.21        | 0.00                      | 3.51                              | 209 ± 115                                 | SW                           |
| 9/13/2010          | 46.00           | 73.21           | 58.88        | 0.00                      | 3.51                              | 242 ± 136                                 | SW                           |
| 9/14/2010          | 48.07           | 70.14           | 57.77        | 0.00                      | 1.90                              | 106 ± 116                                 | E                            |
| 9/15/2010          | 53.53           | 66.03           | 58.48        | 1.00                      | 4.69                              | 99 ± 74                                   | E                            |
| 9/16/2010          | 50.02           | 56.25           | 52.89        | 0.08                      | 3.79                              | 258 ± 112                                 | W                            |
| 9/17/2010          | 52.07           | 62.30           | 56.90        | 0.00                      | 2.04                              | 218 ± 102                                 | SW                           |
| 9/18/2010          | 43.64           | 59.99           | 51.00        | 0.01                      | 3.73                              | 270 ± 108                                 | W                            |
| 9/19/2010          | 43.68           | 65.18           | 54.03        | 0.00                      | 2.66                              | 117 ± 107                                 | SE                           |
| 9/20/2010          | 51.33           | 74.73           | 59.41        | 0.02                      | 4.34                              | 92 ± 22                                   | E                            |
| 9/21/2010          | 49.87           | 76.28           | 65.46        | 0.13                      | 5.36                              | 280 ± 68                                  | W                            |
| 9/22/2010          | 46.12           | 67.87           | 56.27        | 0.07                      | 2.77                              | 142 ± 108                                 | SE                           |
| 9/23/2010          | 59.29           | 71.17           | 65.68        | 0.59                      | 3.45                              | 126 ± 85                                  | SE                           |
| 9/24/2010          | 51.03           | 59.94           | 55.24        | 0.93                      | 13.20                             | 290 ± 12                                  | W                            |
| 9/25/2010          | 43.53           | 61.86           | 50.81        | 0.40                      | 2.32                              | 240 ± 141                                 | SW                           |
| 9/26/2010          | 36.09           | 67.82           | 49.67        | 0.23                      | 1.55                              | 160 ± 108                                 | S                            |

Z:\3m-cottage grove\p9\_Construction\CCR\Appendices\Appendix G (Met Data)\CGMN D9 Met Data

Table 1

Summary of Meteorological Data  
 May 2010 - October 2010  
 Cottage Grove Site

| Date<br>(M/D/YYYY) | Temperature     |                 |              | Precipitation<br>(inches) | Wind                           |   |                              |
|--------------------|-----------------|-----------------|--------------|---------------------------|--------------------------------|---|------------------------------|
|                    | Minimum<br>(°F) | Maximum<br>(°F) | Average (°F) |                           | Average<br>Wind Speed<br>(mph) | Average<br>Wind<br>Direction<br>(Degrees) | Average<br>Wind<br>Direction |
| 9/27/2010          | 41.29           | 74.73           | 57.74        | 0.09                      | 2.12                           | 200 ± 122                                 | S                            |
| 9/28/2010          | 49.54           | 67.86           | 58.03        | 0.07                      | 2.84                           | 226 ± 131                                 | SW                           |
| 9/29/2010          | 49.46           | 74.16           | 60.70        | 0.03                      | 3.74                           | 238 ± 108                                 | SW                           |
| 9/30/2010          | 45.45           | 71.36           | 57.00        | 0.00                      | 3.41                           | 256 ± 125                                 | W                            |
| 10/1/2010          | 42.68           | 70.64           | 51.67        | 0.01                      | 2.36                           | 208 ± 142                                 | SW                           |
| 10/2/2010          | 35.23           | 55.63           | 45.19        | 0.03                      | 3.14                           | 195 ± 159                                 | S                            |
| 10/3/2010          | 31.60           | 65.86           | 45.53        | 0.02                      | 1.53                           | 140 ± 112                                 | SE                           |
| 10/4/2010          | 37.13           | 70.89           | 51.26        | 0.01                      | 1.40                           | 115 ± 82                                  | SE                           |
| 10/5/2010          | 39.06           | 76.35           | 56.36        | 0.00                      | 1.31                           | 117 ± 83                                  | SE                           |
| 10/6/2010          | 44.33           | 70.97           | 57.58        | 0.00                      | 3.42                           | 217 ± 131                                 | SW                           |
| 10/7/2010          | 38.84           | 77.26           | 53.63        | 0.00                      | 1.31                           | 184 ± 118                                 | S                            |
| 10/8/2010          | 48.01           | 87.00           | 63.98        | 0.00                      | 1.60                           | 155 ± 100                                 | SE                           |
| 10/9/2010          | 51.46           | 86.70           | 65.19        | 0.00                      | 1.31                           | 124 ± 86                                  | SE                           |
| 10/10/2010         | 49.13           | 81.00           | 62.41        | 0.00                      | 1.00                           | 159 ± 110                                 | S                            |
| 10/11/2010         | 48.36           | 81.10           | 61.30        | 0.00                      | 1.49                           | 168 ± 134                                 | S                            |
| 10/12/2010         | 48.63           | 72.59           | 58.30        | 0.00                      | 3.80                           | 203 ± 121                                 | SW                           |

<sup>1</sup> Data set incomplete due to interruption of datalogger

**Notes:**

Average Wind Direction refers to the direction from which the wind is blowing.  
 All data calculated from 5 min averages.

# Appendix H

Appendix H

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**APPENDIX H**  
**PERIMETER MONITORING**

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3M\_MN00717147

2318.0276



## Cottage Grove Site - Perimeter Monitoring Form

1. Date: 6/10/2010 2. Weather: 62 °F, Light Rain

3. Prepared By: R. McLoughlin - Weston

4. Ambient Air Monitoring - (VOCs) (Action Level - 2.5 ppm above background as a 15 min TWA)

Instrument used: Mini-RAE 2000

Calibration performed? (Y or N) Yes

| Station / Sample Location | Time  | Reading (provide units) |
|---------------------------|-------|-------------------------|
| Station 1                 | 14:15 | 0.0 - 0.1 ppm           |
| Station 2                 | 14:07 | 0.0 ppm                 |
| Station 3                 | 14:00 | 0.0 ppm                 |
| Station 4                 | 14:28 | 0.0 - 0.1 ppm           |

### COMMENTS:

Bolander digging the potentially impacted material (0-10 feet bgs) and slope material out of the north/northwest corner of D9 excavation and staging this material in the PIM-1 staging area. Wind is 6.7 mph from the East. At station 3 and 4 the reading was 0.0 ppm, spiked to 0.1 for a second two or three times during the 5 min reading.

5. Ambient Air Monitoring - PM10 (Particulate Monitoring) (Action Level - 0.1 mg/m<sup>3</sup> above background)

Instrument used: MIE DataRam PDR

Calibration performed? (Y or N) Yes

| Station / Sample Location | Time  | Reading (provide units) |
|---------------------------|-------|-------------------------|
| Station 1                 | 14:15 | 0.000 mg/m <sup>3</sup> |
| Station 2                 | 14:07 | 0.000 mg/m <sup>3</sup> |
| Station 3                 | 14:00 | 0.003 mg/m <sup>3</sup> |
| Station 4                 | 14:28 | 0.013 mg/m <sup>3</sup> |

### COMMENTS:

Winds 6.7 mph from the East. Bolander was digging potentially impacted material (see above).



## Cottage Grove Site - Perimeter Monitoring Form

1. Date: 6/16/2010      2. Weather: 68.6 °F, Partly Cloudy

3. Prepared By: D. Armstrong (Weston)

4. Ambient Air Monitoring - (VOCs) (Action Level - 2.5 ppm above background as a 15 min TWA)

Instrument used: Mini-RAE 2000

Calibration performed? (Y or N) Yes

| Station / Sample Location | Time  | Reading (provide units) |
|---------------------------|-------|-------------------------|
| Station 1                 | 11:48 | 0.0 ppm                 |
| Station 2                 | 12:05 | 0.1 ppm                 |
| Station 3                 | 12:14 | 0.0 ppm                 |
| Station 4                 | 12:21 | 0.0 ppm                 |

**COMMENTS:**

Wind from the NW @ 2.9 mph.  
Bolander excavating and staging potentially impacted material (0 - 10 ft bgs).

5. Ambient Air Monitoring - PM10 (Particulate Monitoring) (Action Level - 0.1 mg/m<sup>3</sup> above background)

Instrument used: MIE DataRam PDR

Calibration performed? (Y or N) Yes

| Station / Sample Location | Time  | Reading (provide units) |
|---------------------------|-------|-------------------------|
| Station 1                 | 11:48 | 0.001 mg/m <sup>3</sup> |
| Station 2                 | 12:05 | 0.001 mg/m <sup>3</sup> |
| Station 3                 | 12:14 | 0.000 mg/m <sup>3</sup> |
| Station 4                 | 12:21 | 0.000 mg/m <sup>3</sup> |

**COMMENTS:**

Wind from the NW @ 2.9 mph.  
Bolander excavating and staging potentially impacted material (0 - 10 ft bgs).







### Cottage Grove Site - Perimeter Monitoring Form

1. Date: 7/19/2010

2. Weather: 76 °F, Cloudy

3. Prepared By: R. McLoughlin - Weston

4. Ambient Air Monitoring - (VOCs) (Action Level - 2.5 ppm above background as a 15 min TWA)

Instrument used: Mini-RAE 2000

Calibration performed? (Y or N) Yes

| Station / Sample Location | Time  | Reading (provide units) |
|---------------------------|-------|-------------------------|
| Station 1                 | 13:42 | 0.5 - 0.7 ppm           |
| Station 2                 | 13:34 | 0.8 - 0.9 ppm           |
| Station 3                 | 13:27 | 0.6 - 0.7 ppm           |
| Station 4                 | 13:53 | 0.3 - 0.6 ppm           |

**COMMENTS:**

Wind from N/NW @ 3.1 mph. Bolander currently hauling direct load material to SKB Landfill. Material being hauled is D9 1-2 direct load material staged on EW-3.

5. Ambient Air Monitoring - PM10 (Particulate Monitoring) (Action Level - 0.1 mg/m<sup>3</sup> above background)

Instrument used: MIE DataRam PDR

Calibration performed? (Y or N) Yes

| Station / Sample Location | Time  | Reading (provide units) |
|---------------------------|-------|-------------------------|
| Station 1                 | 13:42 | 0.011 mg/m <sup>3</sup> |
| Station 2                 | 13:34 | 0.073 mg/m <sup>3</sup> |
| Station 3                 | 13:27 | 0.018 mg/m <sup>3</sup> |
| Station 4                 | 13:53 | 0.011 mg/m <sup>3</sup> |

**COMMENTS:**

A noticeable spike in PM10 readings was observed when haul truck (706-111) passed by Station 2 during monitoring event. As the truck passed the PM10 reading jumped to 0.7 mg/m<sup>3</sup>. The time weighted average never exceeded the action level. Truck traffic currently very low, no truck encountered at any of the other monitoring stations during this perimeter monitoring event.



### Cottage Grove Site - Perimeter Monitoring Form

1. Date: 7/21/2010

2. Weather: 83 °F, Sunny & Clear

3. Prepared By: R. McLoughlin - Weston

4. Ambient Air Monitoring - (VOCs) (Action Level - 2.5 ppm above background as a 15 min TWA)

Instrument used: Mini-RAE 2000

Calibration performed? (Y or N) N

| Station / Sample Location | Time  | Reading (provide units) |
|---------------------------|-------|-------------------------|
| Station 1                 | 13:09 | 0.0 ppm                 |
| Station 2                 | 13:02 | 0.0 - 0.2 ppm           |
| Station 3                 | 12:55 | 0.0 - 0.1 ppm           |
| Station 4                 | 13:17 | 0.0 ppm                 |

**COMMENTS:**

Wind 2.6 mph out of the SW. Bolander is digging the overburden / potentially impacted material to the North and Northwest of the D9 Area Excavation. Staged on the PIM-2 staging area.

5. Ambient Air Monitoring - PM10 (Particulate Monitoring) (Action Level - 0.1 mg/m<sup>3</sup> above background)

Instrument used: MIE DataRam PDR

Calibration performed? (Y or N) N

| Station / Sample Location | Time  | Reading (provide units) |
|---------------------------|-------|-------------------------|
| Station 1                 | 13:09 | 0.015 mg/m <sup>3</sup> |
| Station 2                 | 13:02 | 0.024 mg/m <sup>3</sup> |
| Station 3                 | 12:55 | 0.016 mg/m <sup>3</sup> |
| Station 4                 | 13:17 | 0.006 mg/m <sup>3</sup> |

**COMMENTS:**

The elevated PM10 readings at Station 2 slightly elevated due to haul road traffic (Bolander vehicles).



### Cottage Grove D9 Site (CGD9) - Perimeter Monitoring Form

1. Date: 7/28/2010 2. Weather: 76.8 °F, Sunny

3. Prepared By: D. Armstrong (WESTON)

4. Ambient Air Monitoring - (VOCs) (Action Level - 2.5 ppm above background as a 15 min TWA)

Instrument used: Mini-RAE 2000

Calibration performed? (Y or N) Y

| Station / Sample Location | Time  | Reading (provide units)  |
|---------------------------|-------|--------------------------|
| Station 1                 | 13:10 | 0.0 ppm                  |
| Station 2                 | 13:18 | 0.1 ppm (Peak = 1.6 ppm) |
| Station 3                 | 13:26 | 0.0 ppm                  |
| Station 4                 | 13:33 | 0.0 ppm                  |

**COMMENTS:**

Wind from North @ 6.0 mph  
Bolander excavating D9 Layer 2 and working on haul road improvements.

5. Ambient Air Monitoring - PM10 (Particulate Monitoring) (Action Level - 0.1 mg/m<sup>3</sup> above background)

Instrument used: MIE DataRam PDR

Calibration performed? (Y or N) Y

| Station / Sample Location | Time  | Reading (provide units) |
|---------------------------|-------|-------------------------|
| Station 1                 | 13:10 | 0.005 mg/m <sup>3</sup> |
| Station 2                 | 13:18 | 0.013 mg/m <sup>3</sup> |
| Station 3                 | 13:26 | 0.039 mg/m <sup>3</sup> |
| Station 3                 | 13:33 | 0.008 mg/m <sup>3</sup> |

**COMMENTS:**

Wind from North @ 6.0 mph  
Bolander excavating D9 Layer 2 and working on haul road improvements.



### Cottage Grove D9 Site (CGD9) - Perimeter Monitoring Form

1. Date: 8/3/2010 2. Weather: 92.5 °F, Sunny

3. Prepared By: D. Armstrong (WESTON)

4. Ambient Air Monitoring - (VOCs) (Action Level - 2.5 ppm above background as a 15 min TWA)

Instrument used: Mini-RAE 2000

Calibration performed? (Y or N) Y

| Station / Sample Location | Time  | Reading (provide units) |
|---------------------------|-------|-------------------------|
| Station 1                 | 15:38 | 0.0 ppm                 |
| Station 2                 | 15:31 | 0.0 ppm                 |
| Station 3                 | 15:24 | 0.0 ppm                 |
| Station 4                 | 15:17 | 0.0 ppm                 |

**COMMENTS:**

Wind from SW @ 2.1 mph  
Bolander excavating D9 2-4 and working on East Cove haul road improvements.

5. Ambient Air Monitoring - PM10 (Particulate Monitoring) (Action Level - 0.1 mg/m<sup>3</sup> above background)

Instrument used: MIE DataRam PDR

Calibration performed? (Y or N) Y

| Station / Sample Location | Time  | Reading (provide units) |
|---------------------------|-------|-------------------------|
| Station 1                 | 15:38 | 0.012 mg/m <sup>3</sup> |
| Station 2                 | 15:31 | 0.037 mg/m <sup>3</sup> |
| Station 3                 | 15:24 | 0.025 mg/m <sup>3</sup> |
| Station 4                 | 15:17 | 0.007 mg/m <sup>3</sup> |

**COMMENTS:**

Wind from SW @ 2.1 mph  
Bolander excavating D9 2-4 and working on East Cove haul road improvements.



## Cottage Grove D9 Site (CGD9) - Perimeter Monitoring Form

1. Date: 8/11/2010

2. Weather: 90.1 °F, Sunny

3. Prepared By: D. Armstrong/R. McLoughlin (WESTON)

4. Ambient Air Monitoring - (VOCs) (Action Level - 2.5 ppm above background as a 15 min TWA)

Instrument used: Mini-RAE 2000

Calibration performed? (Y or N) Y

| Station / Sample Location | Time  | Reading (provide units) |
|---------------------------|-------|-------------------------|
| Station 1                 | 15:29 | 0.1 ppm                 |
| Station 2                 | 15:37 | 0.0 ppm                 |
| Station 3                 | 15:45 | 0.0 ppm                 |
| Station 4                 | 15:56 | 0.0 ppm                 |

### COMMENTS:

Wind from W/SW @ 3.5 mph

Bolander moving stockpiles from staging area EW-2 to staging area EW-4

5. Ambient Air Monitoring - PM10 (Particulate Monitoring) (Action Level - 0.1 mg/m<sup>3</sup> above background)

Instrument used: MIE DataRam PDR

Calibration performed? (Y or N) Y

| Station / Sample Location | Time  | Reading (provide units) |
|---------------------------|-------|-------------------------|
| Station 1                 | 15:29 | 0.013 mg/m <sup>3</sup> |
| Station 2                 | 15:37 | 0.004 mg/m <sup>3</sup> |
| Station 3                 | 15:45 | 0.003 mg/m <sup>3</sup> |
| Station 4                 | 15:56 | 0.008 mg/m <sup>3</sup> |

### COMMENTS:

Wind from W/SW @ 3.5 mph

Bolander moving stockpiles from staging area EW-2 to staging area EW-4



### Cottage Grove D9 Site (CGD9) - Perimeter Monitoring Form

1. Date: 8/18/2010 2. Weather: 70.3 °F, Cloudy

3. Prepared By: D. Armstrong/R. McLoughlin (WESTON)

4. Ambient Air Monitoring - (VOCs) (Action Level - 2.5 ppm above background as a 15 min TWA)

Instrument used: Mini-RAE 2000

Calibration performed? (Y or N) Y

| Station / Sample Location | Time  | Reading (provide units) |
|---------------------------|-------|-------------------------|
| Station 1                 | 14:36 | 0.0 ppm                 |
| Station 2                 | 14:30 | 0.0 ppm                 |
| Station 3                 | 14:22 | 0.1 - 0.2 ppm           |
| Station 4                 | 14:44 | 0.0 ppm                 |

**COMMENTS:**

Wind from W/NW @ 3.3 mph  
Bolander in process of moving stockpiles.

5. Ambient Air Monitoring - PM10 (Particulate Monitoring) (Action Level - 0.1 mg/m<sup>3</sup> above background)

Instrument used: MIE DataRam PDR

Calibration performed? (Y or N) Y

| Station / Sample Location | Time  | Reading (provide units) |
|---------------------------|-------|-------------------------|
| Station 1                 | 14:36 | 0.057 mg/m <sup>3</sup> |
| Station 2                 | 14:30 | 0.068 mg/m <sup>3</sup> |
| Station 3                 | 14:22 | 0.023 mg/m <sup>3</sup> |
| Station 4                 | 14:44 | 0.022 mg/m <sup>3</sup> |

**COMMENTS:**

Wind from W/NW @ 3.3 mph  
Bolander in process of moving stockpiles.



## Cottage Grove D9 Site (CGD9) - Perimeter Monitoring Form

1. Date: 9/8/2010

2. Weather: 68 °F, Sunny

3. Prepared By: R. McLoughlin (WESTON)

4. Ambient Air Monitoring - (VOCs) (Action Level - 2.5 ppm above background as a 15 min TWA)

Instrument used: Mini-RAE 2000

Calibration performed? (Y or N) Y

| Station / Sample Location | Time  | Reading (provide units) |
|---------------------------|-------|-------------------------|
| Station 1                 | 15:29 | 0.0 ppm                 |
| Station 2                 | 15:23 | 0.0 ppm                 |
| Station 3                 | 15:38 | 0.0 ppm                 |
| Station 4                 | 15:44 | 0.0 ppm                 |

### COMMENTS:

Wind from E/SE @ 2.2 mph

Bolander backfilling D9 Area excavation with Potentially Impacted Material.

5. Ambient Air Monitoring - PM10 (Particulate Monitoring) (Action Level - 0.1 mg/m<sup>3</sup> above background)

Instrument used: MIE DataRam PDR

Calibration performed? (Y or N) Y

| Station / Sample Location | Time  | Reading (provide units) |
|---------------------------|-------|-------------------------|
| Station 1                 | 15:29 | 0.006 mg/m <sup>3</sup> |
| Station 2                 | 15:23 | 0.001 mg/m <sup>3</sup> |
| Station 3                 | 15:38 | 0.031 mg/m <sup>3</sup> |
| Station 4                 | 15:44 | 0.015 mg/m <sup>3</sup> |

### COMMENTS:

- Station 1 in this sampling event was measured approximately 15 yards to the west of usual location because of ongoing East Cove road work. An excavator is parked just east of actual Station 1 and is moving the HDPE pipe for the East Cove.

- A pickup truck and a front end loader drove down the haul road past the monitoring station during the 5 min-average dust reading at Station 3. A bobcat passed the monitoring station during the 5-min average dust reading at Station 4.



## Cottage Grove D9 Site (CGD9) - Perimeter Monitoring Form

1. Date: 9/27/2010      2. Weather: 74 °F, Sunny

3. Prepared By: R. McLoughlin (WESTON)

4. Ambient Air Monitoring - (VOCs) (Action Level - 2.5 ppm above background as a 15 min TWA)

Instrument used: Mini-RAE 2000

Calibration performed? (Y or N) N

| Station / Sample Location | Time  | Reading (provide units) |
|---------------------------|-------|-------------------------|
| Station 1                 | 14:15 | 0.0 ppm                 |
| Station 2                 | 14:08 | 0.0 ppm                 |
| Station 3                 | 14:26 | 0.0 ppm                 |
| Station 4                 | 13:59 | 0.0 ppm                 |

**COMMENTS:**

Wind from E @ 3.3 mph

Perimeter monitoring event performed at the end of hauling activities to EQ landfill. Bolander continuing backfill activities in the D9 area. Currently backfilling with clean material from the east cove road construction project.

5. Ambient Air Monitoring - PM10 (Particulate Monitoring) (Action Level - 0.1 mg/m<sup>3</sup> above background)

Instrument used: MIE DataRam PDR

Calibration performed? (Y or N) Y

| Station / Sample Location | Time  | Reading (provide units) |
|---------------------------|-------|-------------------------|
| Station 1                 | 14:20 | 0.002 mg/m <sup>3</sup> |
| Station 2                 | 14:08 | 0.013 mg/m <sup>3</sup> |
| Station 3                 | 14:26 | ---                     |
| Station 4                 | 13:59 | 0.011 mg/m <sup>3</sup> |

**COMMENTS:**

- Station 1 in this sampling event was measured approximately 30 yards west of the normal location 1 due to backfilling activities. Bolander is using the front end loader to move material from the east cove road stockpile into the back of an off-road dump truck located in the southeast corner of the exclusion zone.

- At Station 1 the dust monitor shut off during the collection period (battery low). The equipment was re-started and a five-minute average was recorded. At Station 4 the dust monitor shut off and the equipment would not restart. No measurement was collected at Station 4.



## Cottage Grove D9 Site (CGD9) - Perimeter Monitoring Form

1. Date: 10/1/2010

2. Weather: 58 °F, Sunny

3. Prepared By: R. McLoughlin (WESTON)

4. Ambient Air Monitoring - (VOCs) (Action Level - 2.5 ppm above background as a 15 min TWA)

Instrument used: Mini-RAE 2000

Calibration performed? (Y or N) N

| Station / Sample Location | Time  | Reading (provide units) |
|---------------------------|-------|-------------------------|
| Station 1                 | 11:29 | 0.0 ppm                 |
| Station 2                 | 11:21 | 0.0 ppm                 |
| Station 3                 | 11:17 | 0.0 ppm                 |
| Station 4                 | 11:14 | 0.0 ppm                 |

### COMMENTS:

Wind from S @ 1.4 mph

Completion of daily hauling activities of material to the EQ Landfill. No site activities on-going.

5. Ambient Air Monitoring - PM10 (Particulate Monitoring) (Action Level - 0.1 mg/m<sup>3</sup> above background)

Instrument used: MIE DataRam PDR

Calibration performed? (Y or N) Y

| Station / Sample Location | Time  | Reading (provide units) |
|---------------------------|-------|-------------------------|
| Station 1                 | ---   | ---                     |
| Station 2                 | 11:26 | 0.007 mg/m <sup>3</sup> |
| Station 3                 | ---   | ---                     |
| Station 4                 | ---   | ---                     |

### COMMENTS:

- Dust Monitor not charged from last event (due to moving of trailer and temporary lack of power). A 5-min average dust reading was recorded at only one station.

- PID readings taken as 2-min time weighted averages.



## Cottage Grove D9 Site (CGD9) - Perimeter Monitoring Form

1. Date: 10/6/2010      2. Weather: 51 °F, Sunny

3. Prepared By: R. McLoughlin (WESTON)

4. Ambient Air Monitoring - (VOCs) (Action Level - 2.5 ppm above background as a 15 min TWA)

Instrument used: Mini-RAE 2000

Calibration performed? (Y or N) N

| Station / Sample Location | Time | Reading (provide units) |
|---------------------------|------|-------------------------|
| Station 1                 | -    | -                       |
| Station 2                 | 7:50 | 0.0 ppm                 |
| Station 3                 | 7:41 | 0.0 ppm                 |
| Station 4                 | 7:59 | 0.0 ppm                 |

**COMMENTS:**

Wind from E @ 0.5 mph

No current site activity (activity to the east of the D9 site for east cove road construction Activities). Station 1 not monitored due to equipment and activity for the east cove road.

5. Ambient Air Monitoring - PM10 (Particulate Monitoring) (Action Level - 0.1 mg/m<sup>3</sup> above background)

Instrument used: MIE DataRam PDR

Calibration performed? (Y or N) N

| Station / Sample Location | Time | Reading (provide units) |
|---------------------------|------|-------------------------|
| Station 1                 | ---  | ---                     |
| Station 2                 | 7:50 | 0.020 mg/m <sup>3</sup> |
| Station 3                 | 7:41 | 0.019 mg/m <sup>3</sup> |
| Station 4                 | 7:59 | ---                     |

**COMMENTS:**

- Station 1 in this sampling event was not measured due to construction activities for the east cove road construction project.

- At Station 4 the dust monitor shut off during the collection period (battery low). The equipment would not re-start so no measurement was collected.