



**CONSTRUCTION COMPLETION REPORT
D9 AREA**

**COTTAGE GROVE SITE
COTTAGE GROVE, MINNESOTA**

JANUARY 18, 2011

Prepared for

3M Company
St. Paul, Minnesota 55144

Prepared by

Weston Solutions, Inc.
West Chester, Pennsylvania 19380

W.O. No. 02181.002.212

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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.

Mark Gaetz

Mark Gaetz, 3M

advanced
environmental spec.

(Title)

01/12/11

(Date)

Michael H. Corbin

Michael H. Corbin, P.E.

Weston Solutions

Technical Director

(Title)

1/13/11

(Date)

Jaisimha Kesari

Jaisimha Kesari, P.E., DEE

Weston Solutions

PRINCIPAL PROJECT MANAGER

(Title)

1/12/11

(Date)



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LIST OF ACRONYMS

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.



SECTION 1 FIGURES

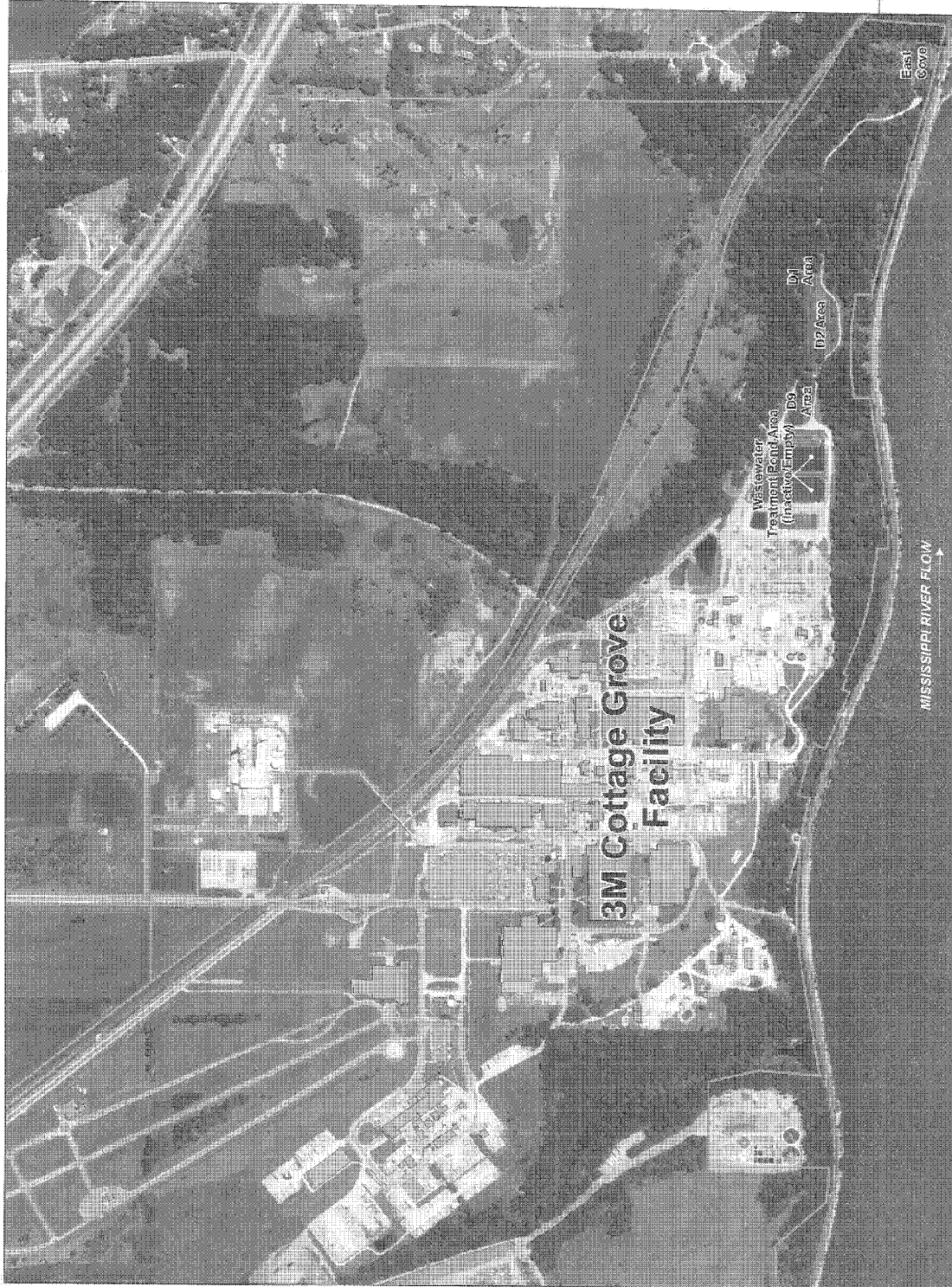
Legend

- 3M Cottage Grove
- Property Lines
- Buildings

Map Source:
U.S. Department of Agriculture, Farm
Services Agency, Aerial Photography
Library, 1998, National Aerial
Inventory, 2001, 2002, 2003, 2004
Cottonseed Images (DOQ),
Minneapolis, 2005



Figure 1-1
Site Features
Cottage Grove Site



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3M_MN00716887



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.



SECTION 2 FIGURES

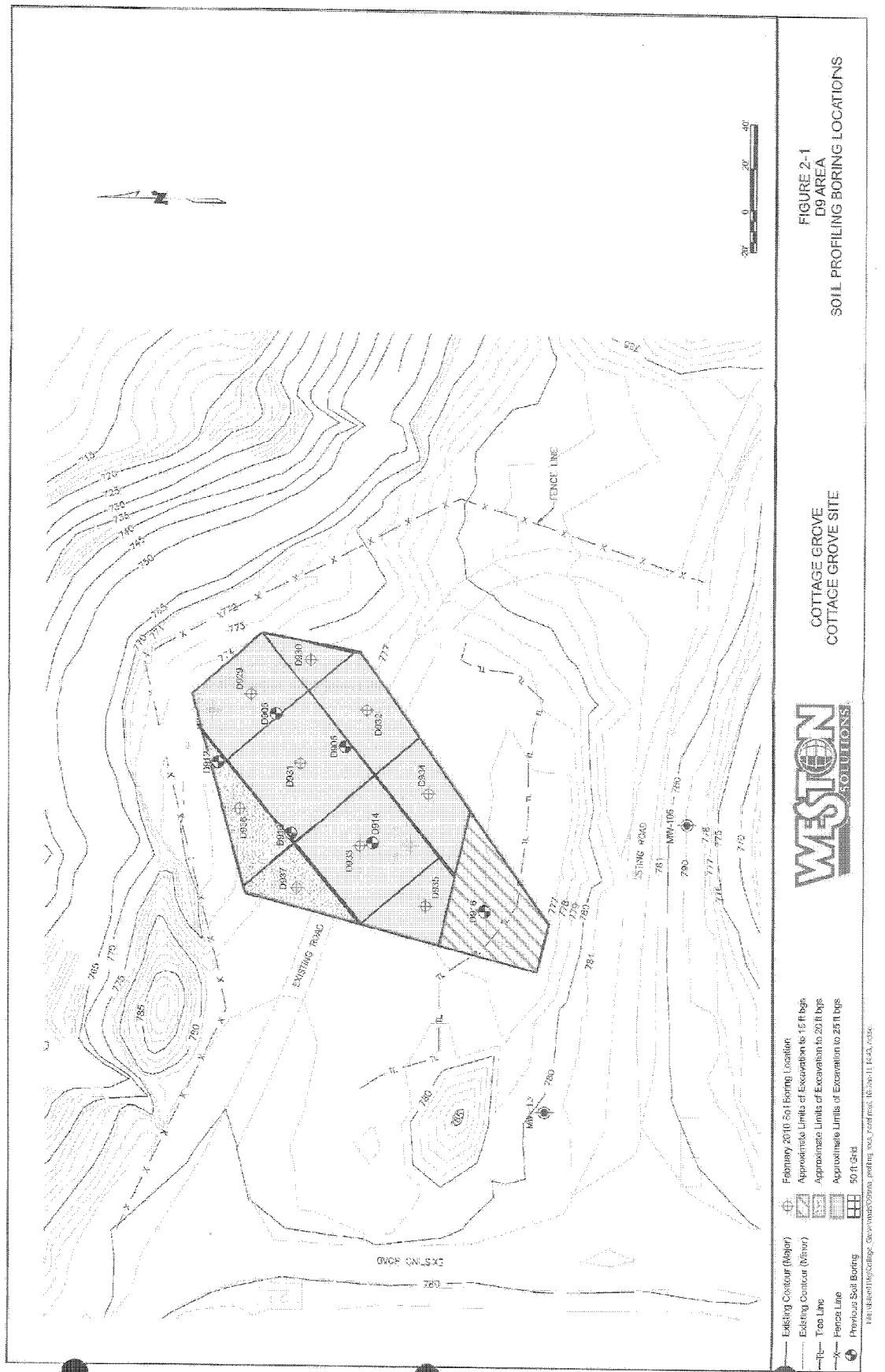
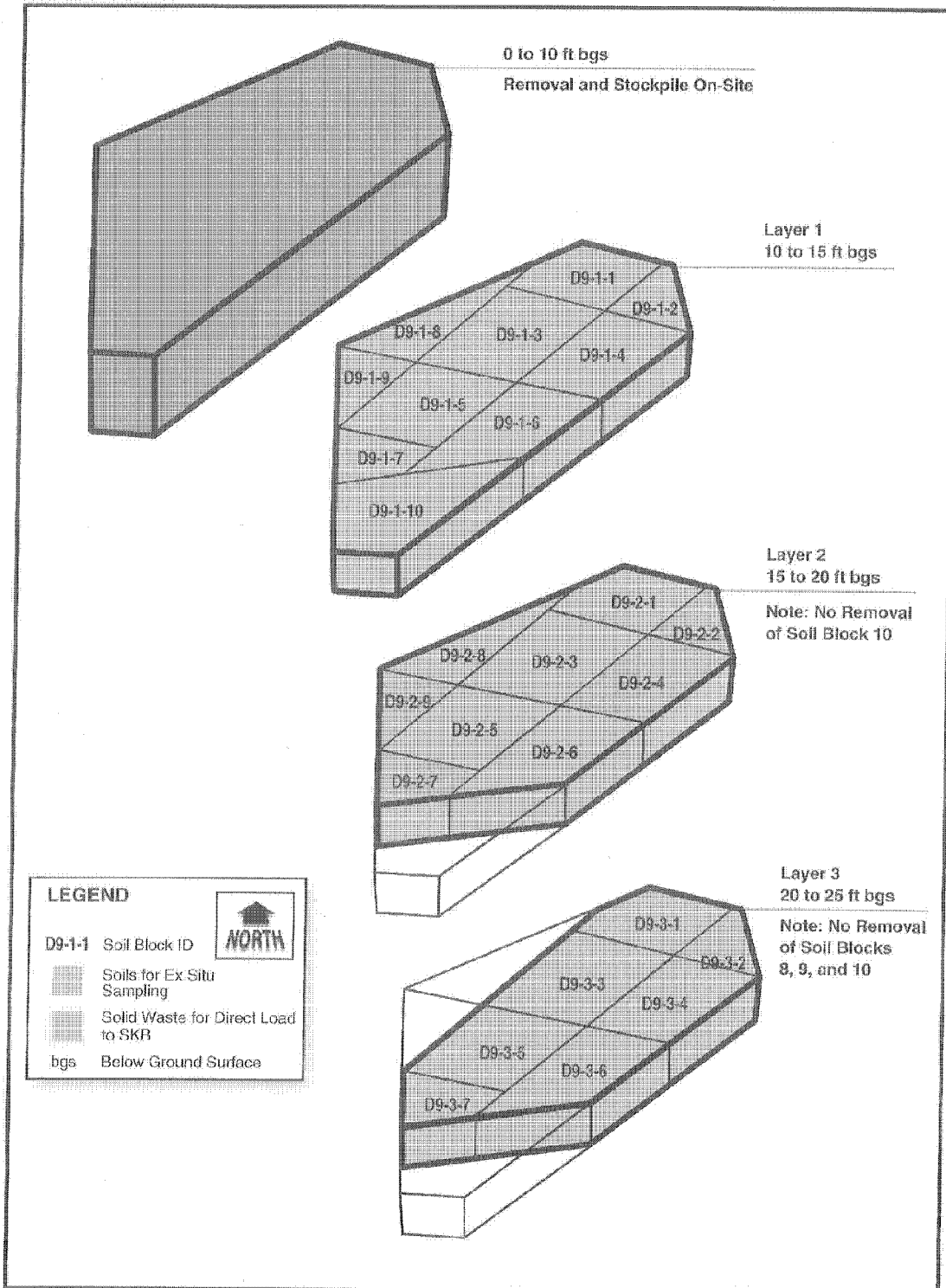


FIGURE 2-1
D9 AREA
SOIL PROFILING BORING LOCATIONS

COTTAGE GROVE
COTTAGE GROVE SITE





**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 PM₁₀ 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_{10} , 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_{10} concentrations recorded across all stations ranged from 0.000 mg/m^3 to 0.073 mg/m^3 with a project average of 0.014 mg/m^3 . These recorded concentrations were well below the Action Level defined in the HASP of 0.1 mg/m^3 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.



SECTION 3 TABLE



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

Soil Block	Direct Load/Stockpile No. ¹	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



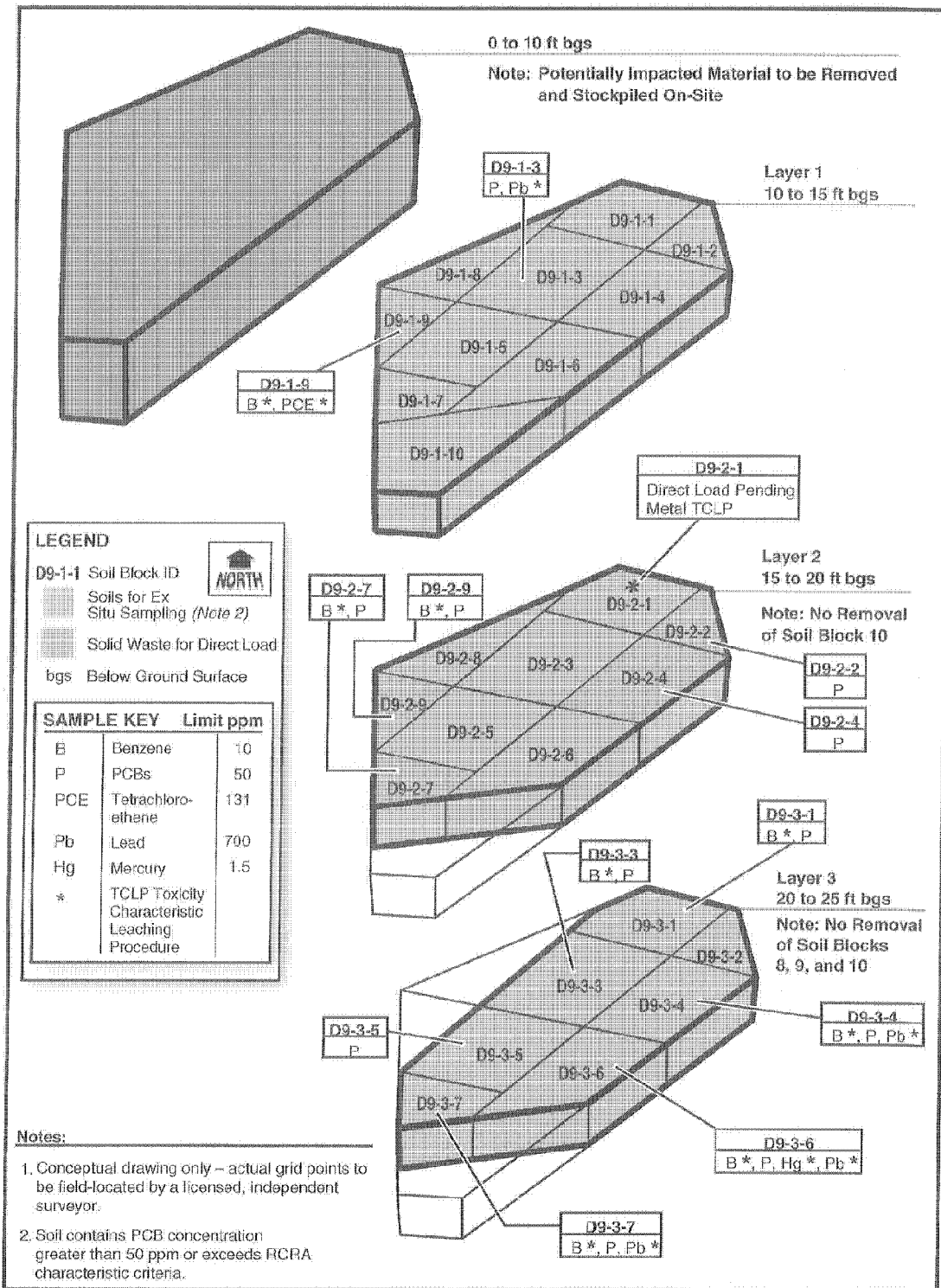
Table 3-1 Summary of D9 Area Excavation
Cottage Grove, MN

Soil Block	Direct Load/Stockpile No. ¹	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	-
D9 Total Volume		960.56	7,482.31

¹ 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.



SECTION 3 FIGURES



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



SKB ENVIRONMENTAL		SKB Rosemount Industrial Waste Facility		Manifest #	
Shipping Manifest		1. Generator's US EPA ID No. (if any) M I N N R 0 0 6 1 7 2 9 6 9		2. Page 1 of _____ page(s)	
3. Generator's Name and Facility Address 3M Company Innovation Rd & Rt. 61; Sec. 35; T27N; R21W Cottage Grove, MN 55018 4. Generator's Phone: (651) 737-3477		Mailing Address 3M Company Cottage Grove Cleanup Cottage Grove, MN 55016 Fax: (651) 738-3940			
5. Transporter 1 Company Name BISCOE / METRO GRAVEL		Phone: _____			
6. Transporter 2 Company Name		Phone: _____			
7. Designated Facility Name and Site Address SKB Rosemount Industrial Waste Facility 13425 Courthouse Blvd. Rosemount, MN 55068		651-438-1500			
8. U.S. DOT Description (including Proper Shipping Name)		9. Containers No. Type		10. Total Quantity	11. Unit Wt/Vol
a. Non-Hazardous Industrial Waste (Cottage Grove Soil -D9 Area) D9 2-1		001 D T			
b.					
c.					
d.					
13. Additional Descriptions for Materials Listed Above (indicate waste stream Approval # below) a. MI 10-0093 Cottage Grove Soil - D9 area b. MI c. MI d. MI		14. Special Handling Procedures for Wastes Listed Above			
15. Special Handling Instructions and Additional Information Emergency Contact:		SKB Use Only Load # _____ Scale Wt. _____ Tons/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 MARK GABER		Signature Mark Gaber		Month Day Year 10/7/2010	
17. Transporter 1 Acknowledged of Receipt of Materials		Signature [Signature]		Month Day Year 10/7/2010	
Printed/Typed Name [Name]		Signature [Signature]		Month Day Year 10/7/2010	
18. Transporter 2 Acknowledgement of Receipt of Materials		Signature [Signature]		Month Day Year [Blank]	
Printed/Typed Name [Blank]		Signature [Blank]		Month Day Year [Blank]	
19. Discrepancy Indication Space					
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 [Blank]		Signature [Blank]		Month Day Year [Blank]	
White - Return to Generator		Pink - Transporter		Canary - Facility Copy	
				Goldenrod - Generator Copy	

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

3M_MN00716927

2318.0056



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				
Arrival Inspection				
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:				
GROSS (LBS)	TARE (LBS)	NET WEIGHT (LBS)	NET WEIGHT (TONS)	SOIL BLOCK SOURCE / DIRECT LOAD #
82500	30800	51700	25.85	D9 2-1
Departure Inspection				
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.				

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

3M_MN00716928



Form Approved, OMB No. 2050-0039

10P-1340-3

GENERATOR'S INITIAL COPY

3M MN00716929

2318.0058



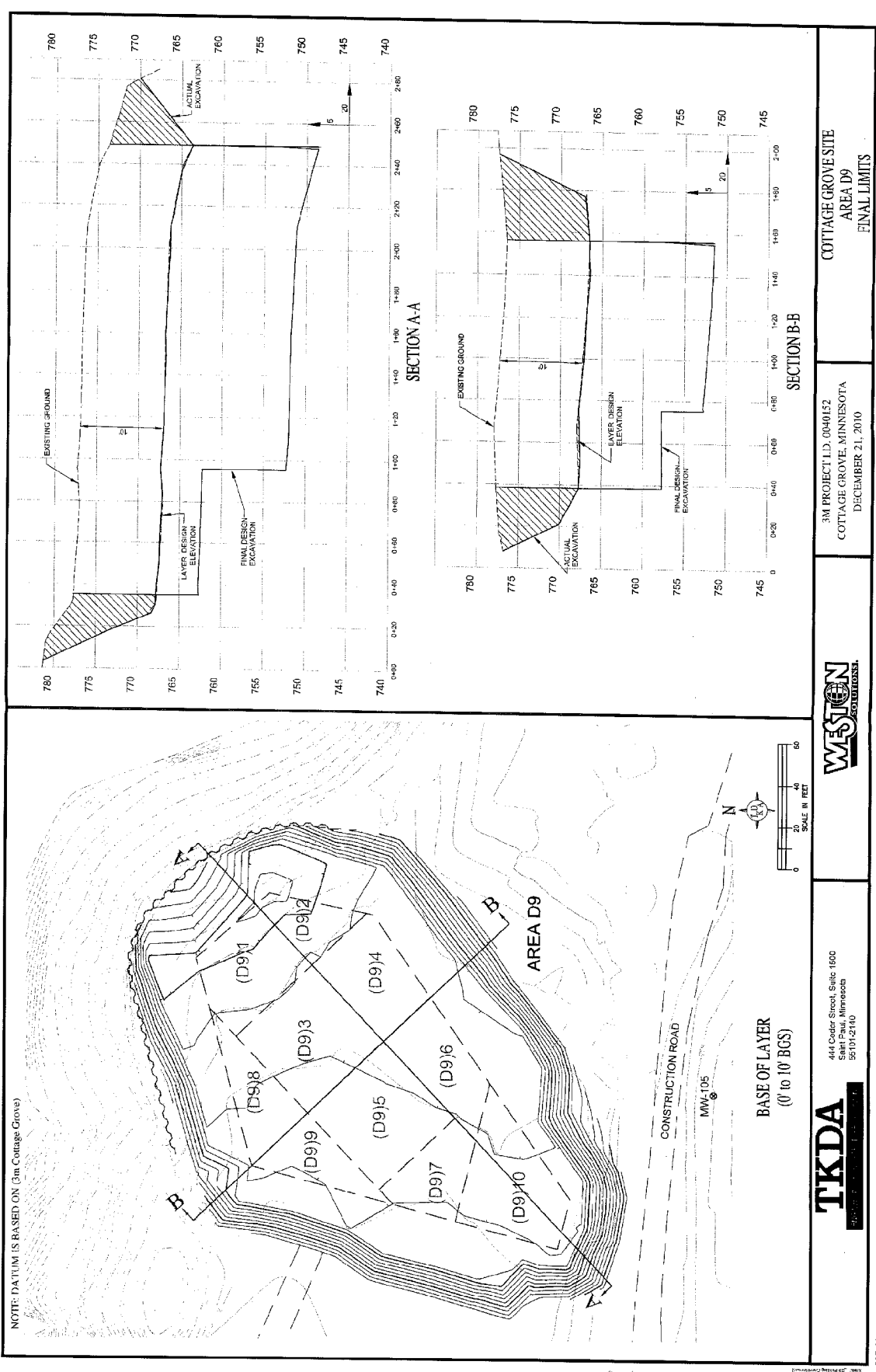
DAILY TRUCK NUMBER: 1

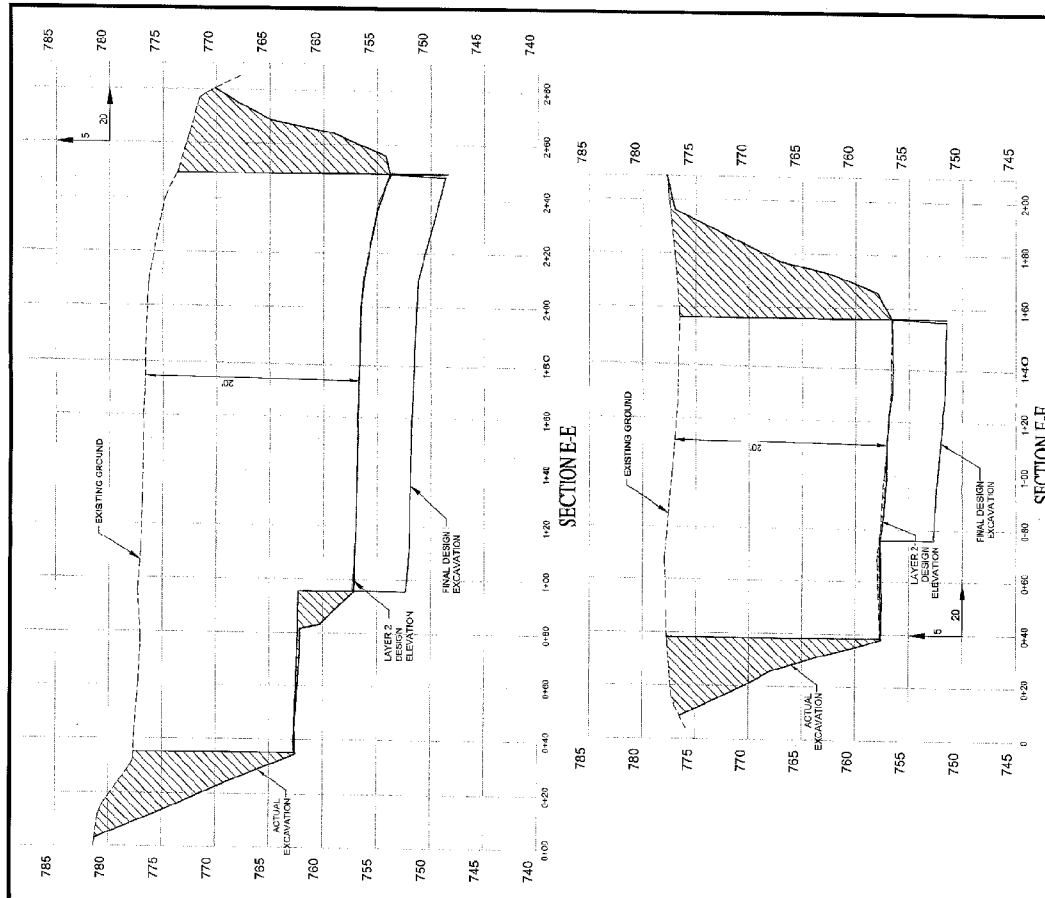
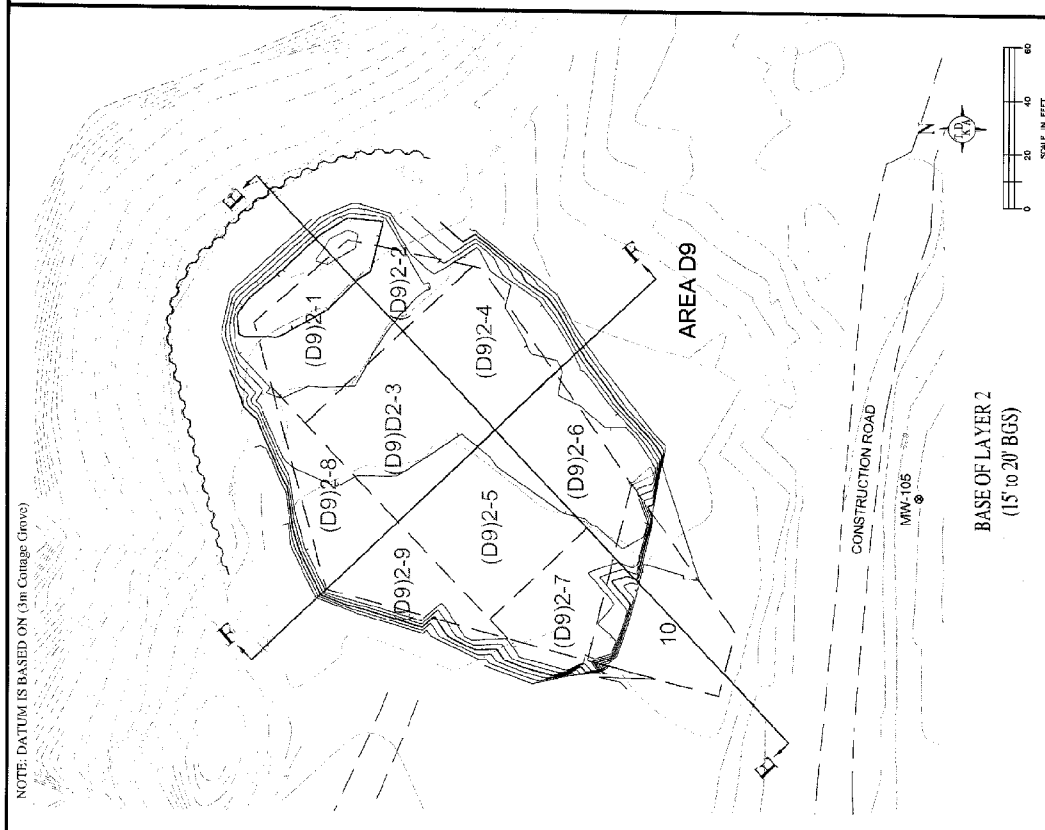
EQ Hazardous Material Haul Truck Inspection (CGD9)				
1. DATE: 10/04/2010				
2. UNIQUE CONTAINER ID (Trailer # - Manifest #): 109-7796728 2b. TRUCK ID: 706				
3. DRIVER ID: Biscoe				
Arrival Inspection				
4. Time of Arrival: 7:16			Yes	No
5. Is truck hauling soil to the Site? If no, proceed to No. 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:				
GROSS (LBS)	TARE (LBS)	NET (LBS / TONS)	NET WEIGHT (K)	SOURCE STOCKPILE #
77,860	34,100	43,760	19,849.5	D9 3-3 001-2 (8/19/2010)
				D9 3-3 005-1 (8/26/2010)
Departure Inspection				
8. Time of departure: 8:15			Yes	No
9. Is truck hauling soil from the site?			X	
9.a. If yes, cite destination. If no, proceed to No. 10. EQ				
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. Is the correct placarding visible on truck as required?			X	
9.i. 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-1340-4

FIGURE 3-6 D9 - EQ HAUL TRUCK INSPECTION
COTTAGE GROVE, MN

3M_MN00716930

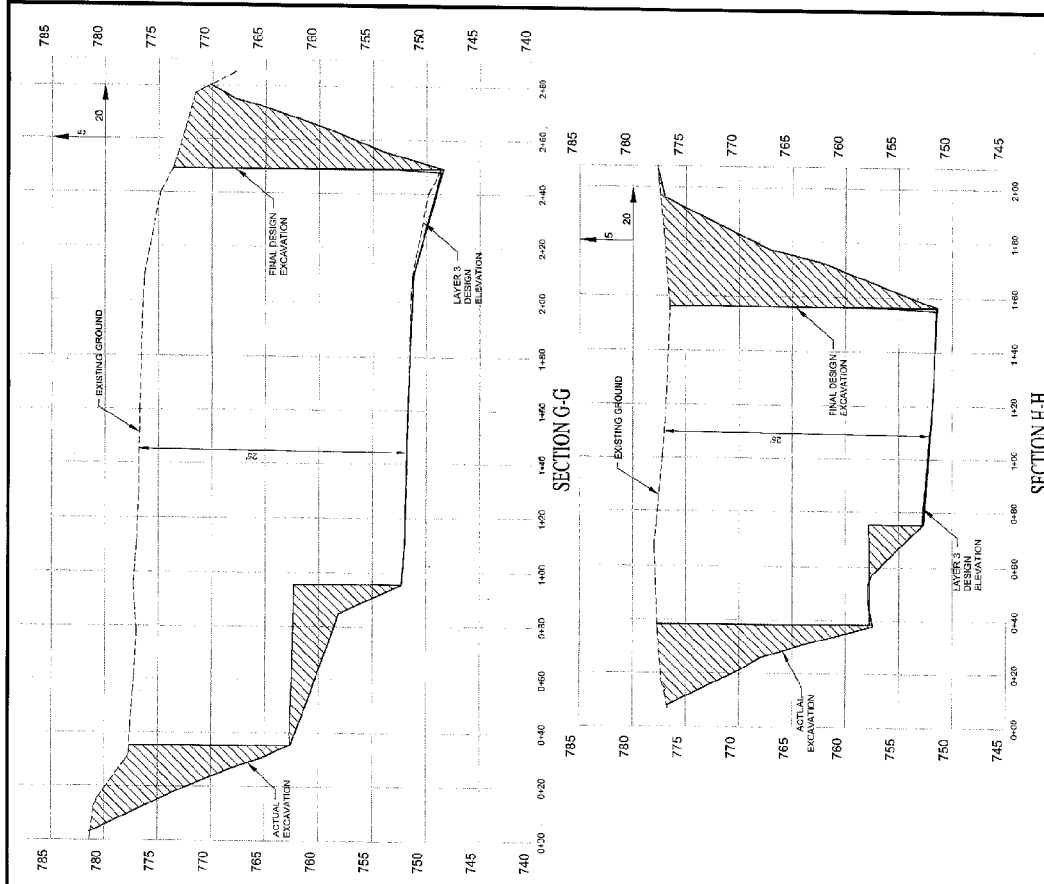
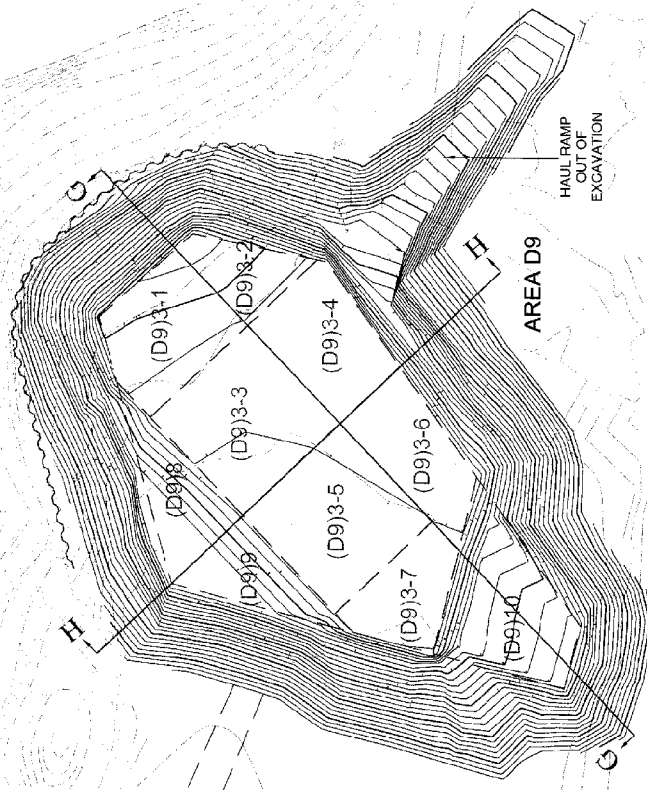




TKDA Engineering & Construction 444 Cedar Street, Suite 1500 Cottage Grove, Minnesota 55107-2140	3M PROJECT I.D. 000152 COTTAGE GROVE, MINNESOTA DECEMBER 21, 2010	WESTON SOLUTIONS	COTTAGE GROVE SITE AREA D9 FINAL LIMITS
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FIGURE 3-9 D9 AREA FINAL EXCAVATION LIMITS LAYER 2

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



TKDA	144 Cedar Street, Suite 1500 Saint Paul, Minnesota 55101-4214	3M PROJECT I.D. 0040152 COTTAGE GROVE, MINNESOTA DECEMBER 21, 2010	COTTAGE GROVE SITE AREA D9 FINAL LIMITS
-------------	--	---	--

FIGURE 3-10 D9 AREA FINAL EXCAVATION LIMITS
LAYER 3



Legend:



Perimeter Monitoring Location



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

Figure 3-11

Perimeter Monitoring Locations
Cottage Grove Site

File: \\wsd01\\Cottage Grove\\mxd\\D3_area_perimeter_monitoring_jobs.mxd, 09-Jan-11 11:03, Release

3M_MN00716935

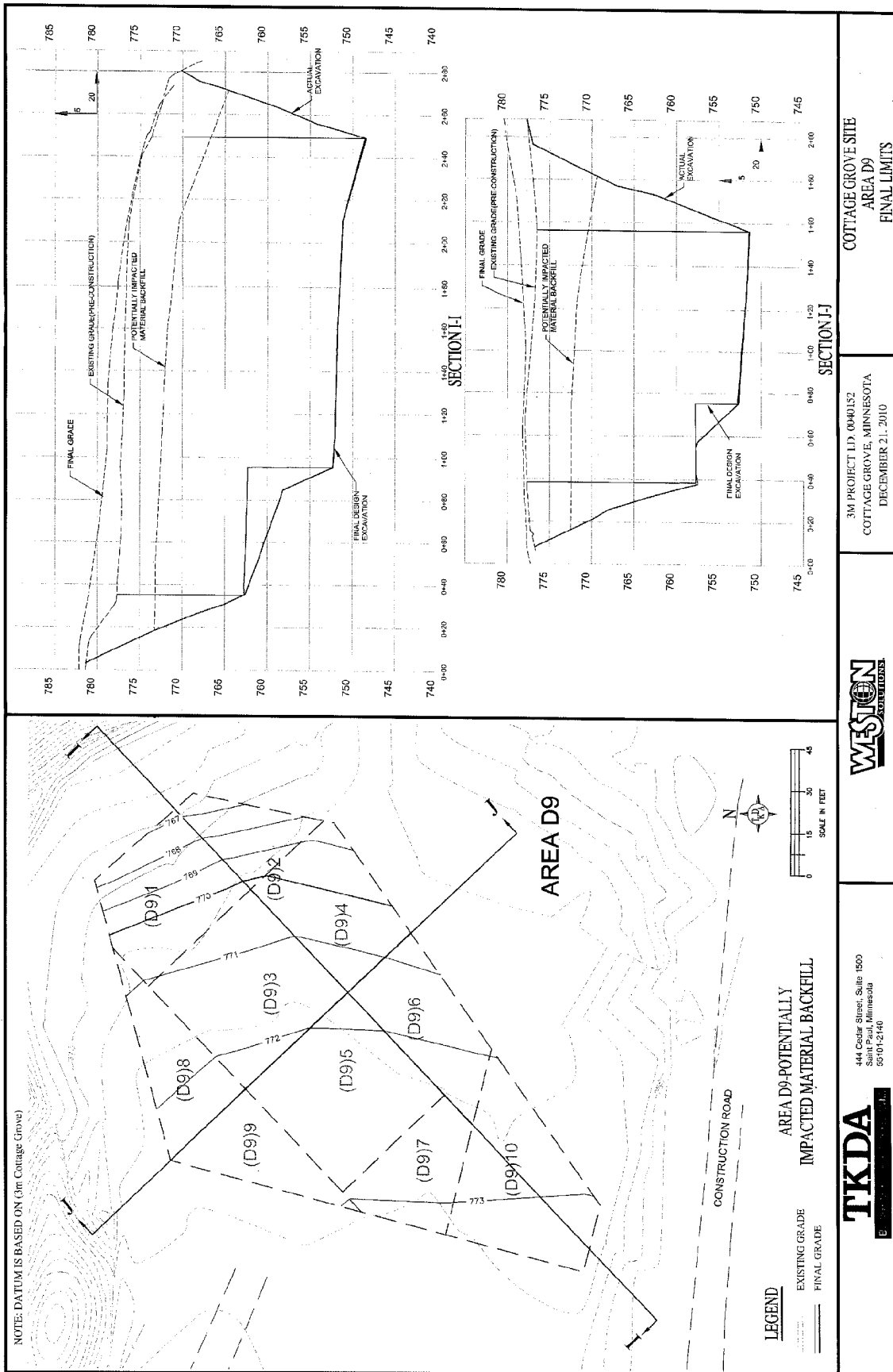


FIGURE 3-12 D9 AREA BACKFILL



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WESTON (Weston Solutions, Inc). 2009a. *Feasibility Study Report Addendum No. 2 (Pre-Design Data Report and Alternative Refinement)*. Prepared by Weston Solutions, Inc. for the 3M Company. January 2009.

WESTON (Weston Solutions, Inc). 2009b. *Interim Response Action Plan for the D1 and D2 Areas*. Prepared by Weston Solutions, Inc. for the 3M Company. August 2009.

WESTON (Weston Solutions, Inc). 2009c. *Remedial Design/Response Action Plan for the Cottage Grove Site*. Prepared by Weston Solutions, Inc. for the 3M Company. November 2009.

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

APPENDIX A
PHOTOGRAPH LOG

3M_MN00716939

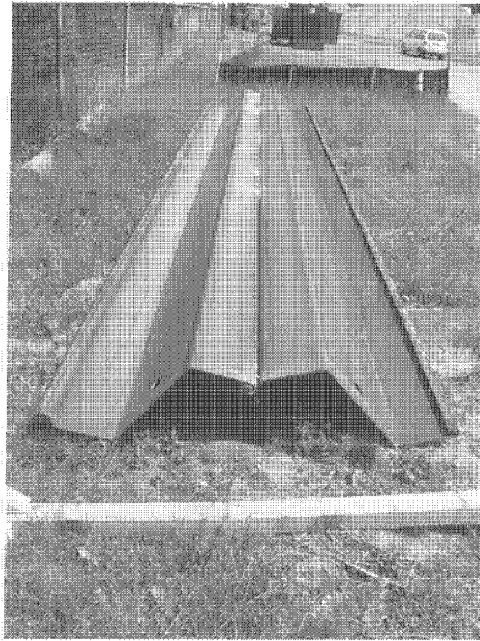
2318.0068

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* 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



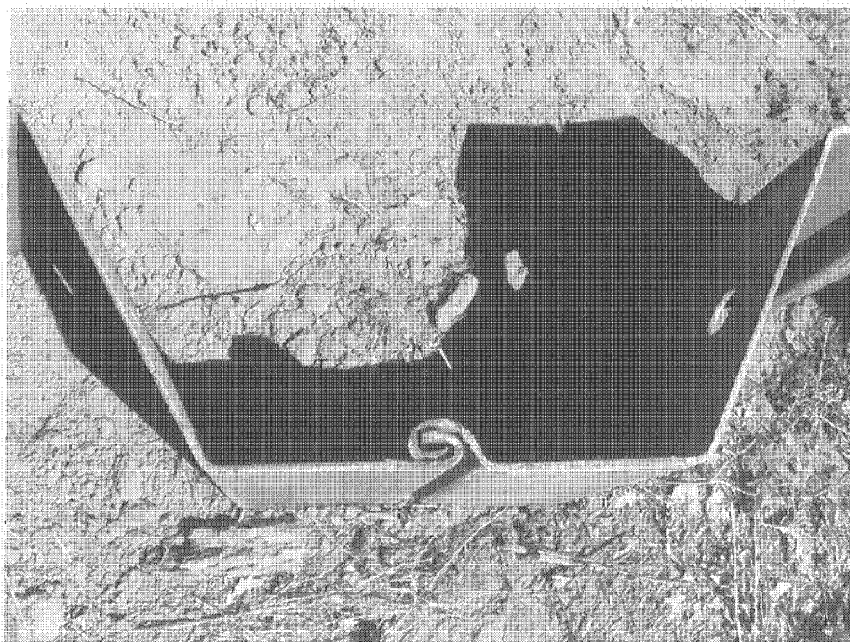
- Photograph 1: D9 Area – SKZ22 (30' – 0'') Sheet Piling Staged for Installation (5/24/2010).



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

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3M_MN00716941



- 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).



- 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).

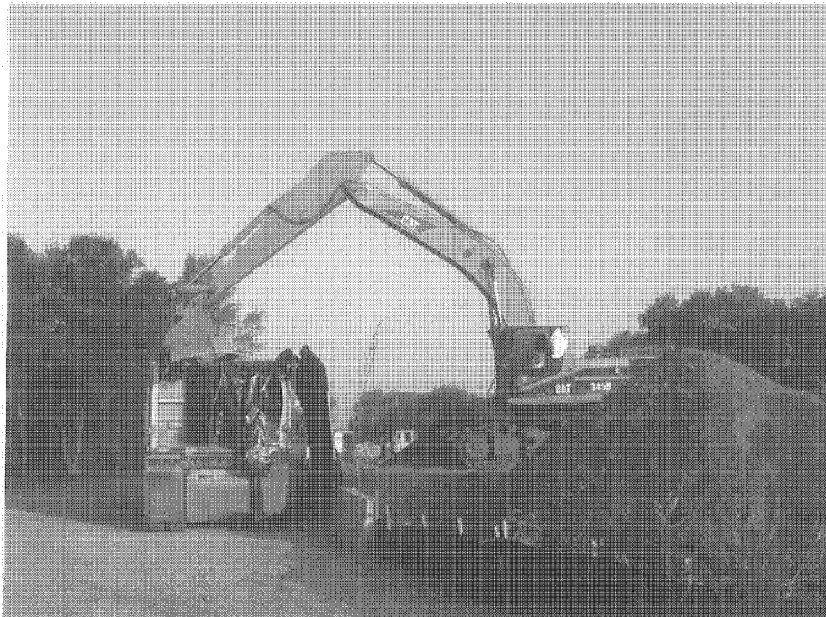
A - 5

3M_MN00716945



- 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.

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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).

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3M_MN00716948

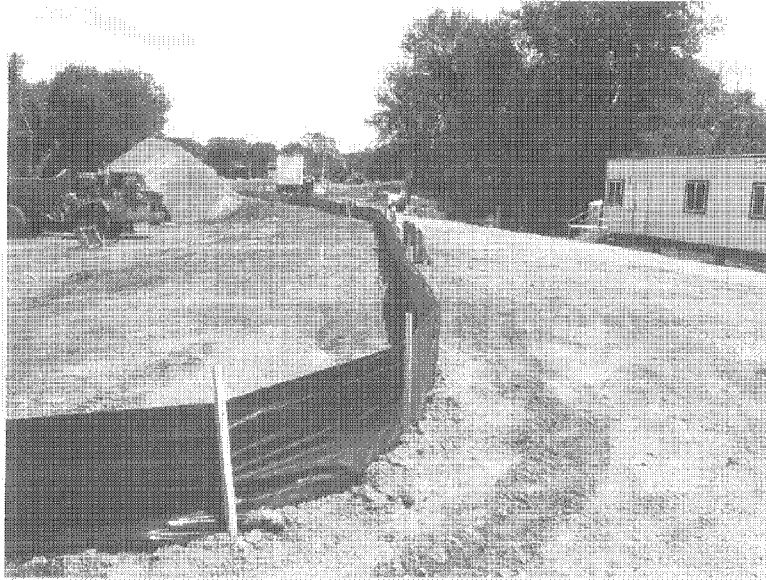


- Photograph 17: D9 Area – Weston & Bolander Surveying the North Side of the D9 Excavation for Verification (7/1/2010).



- 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).

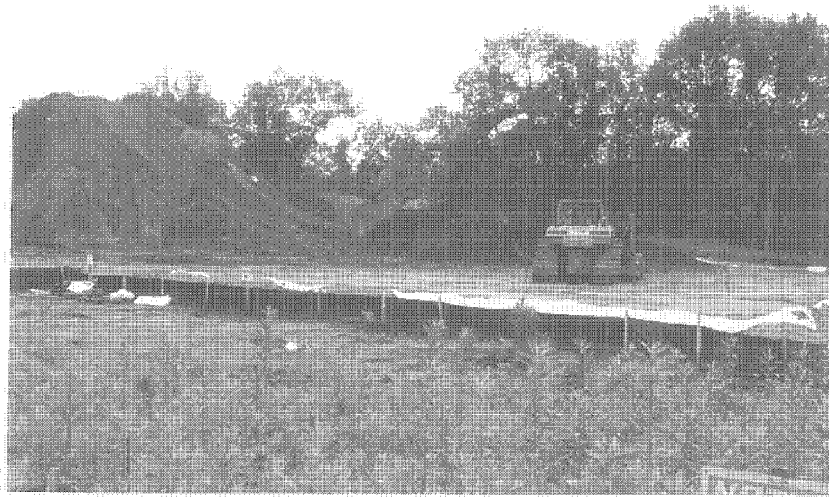
Staging of Potentially Impacted Material



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

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- 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).

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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).

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- 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 yd³ Stockpile Split into Two ~50 yd³ 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 yd³ stockpile.

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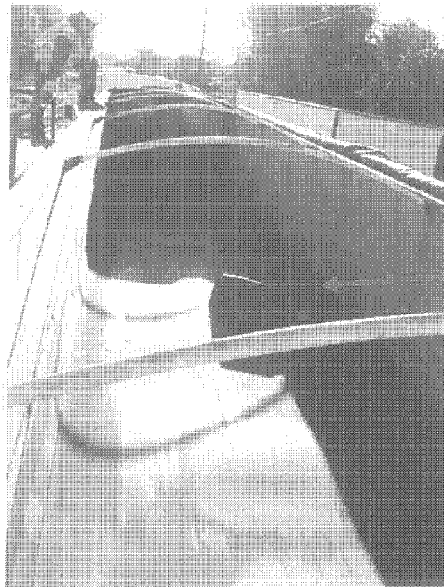
3M_MN00716953

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.

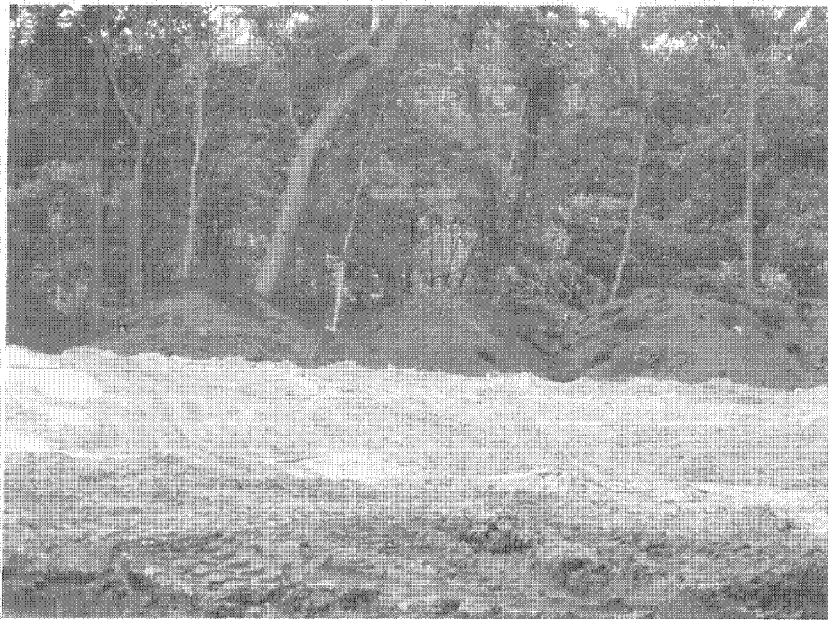
A - 14

3M_MN00716954



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

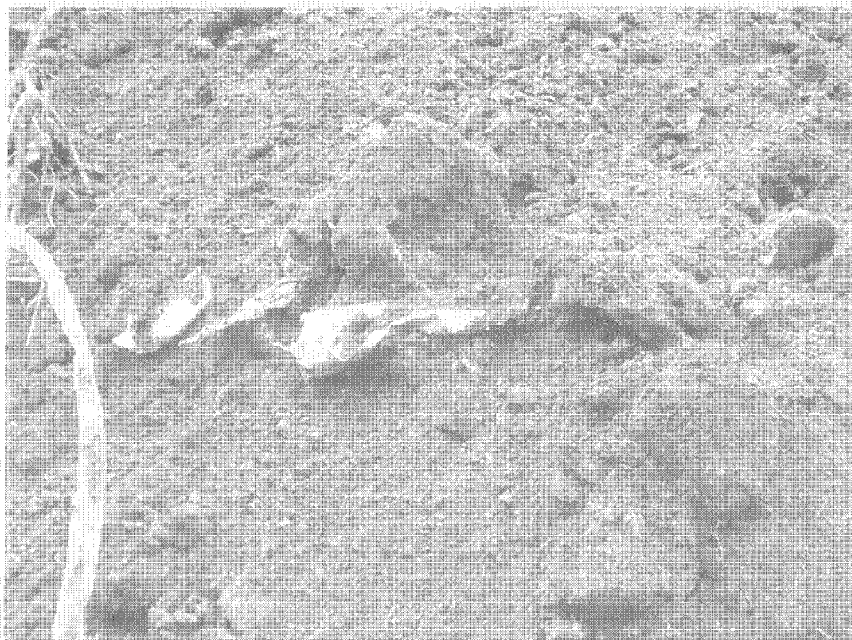
D9 Non-Soil Debris



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

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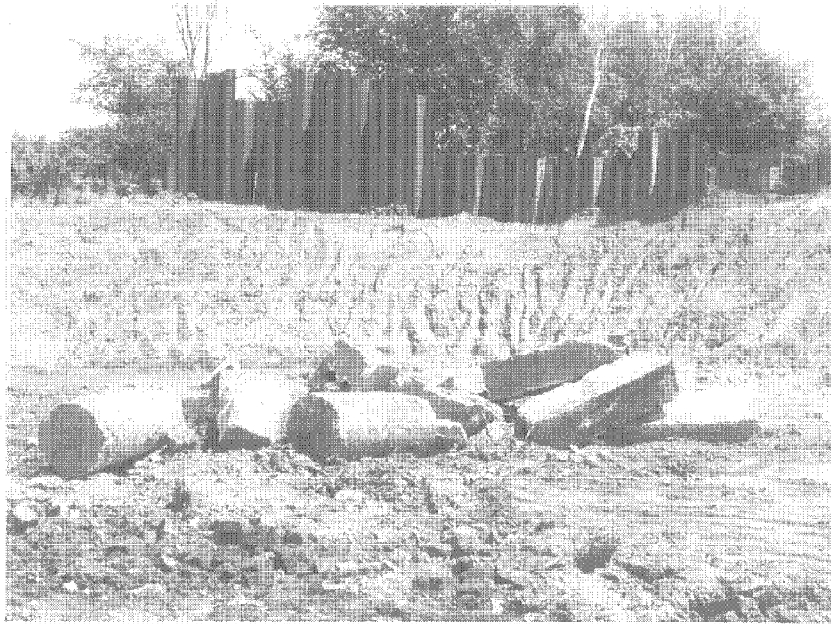
3M_MN00716955



- 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).

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3M_MN00716957

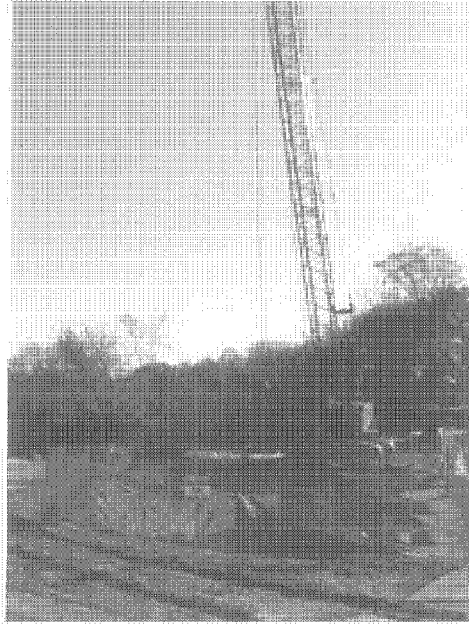


- Photograph 35: D9 Area -- Bolander Constructs a Collected Construction Water Sump along the North Side of the D9 1-2 Soil Block (7/13/2010).

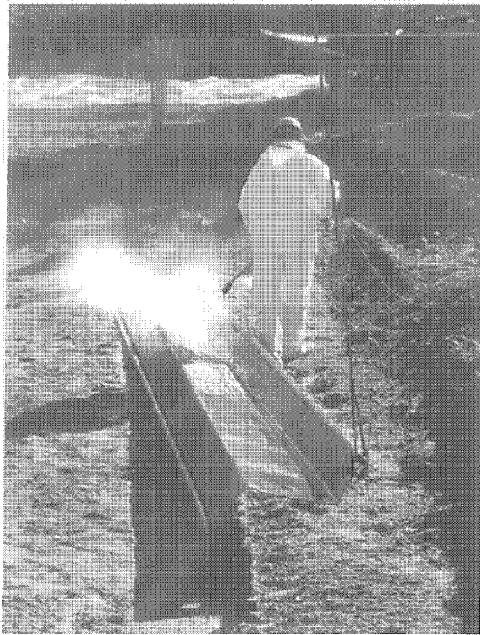
Decontamination of Sheet Piling



- 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.

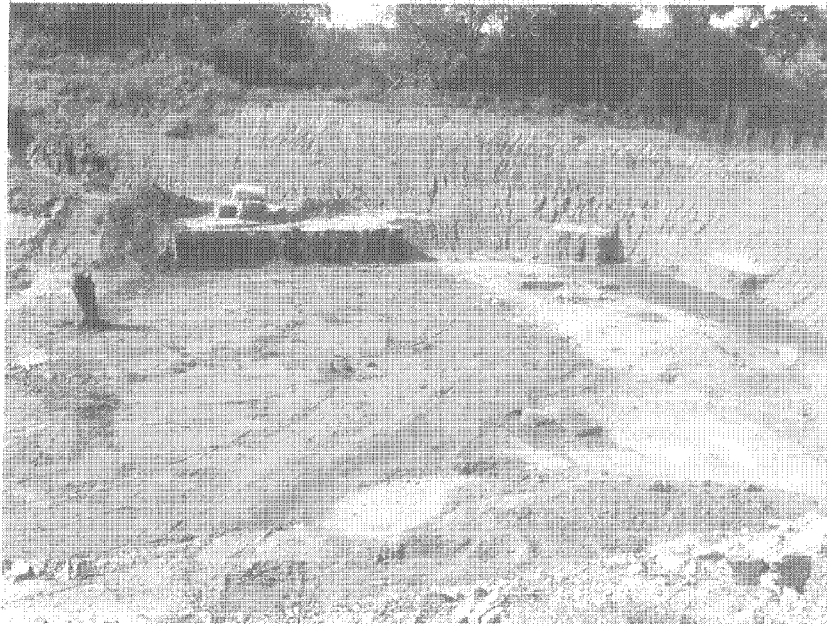
D9 Excavation Limits



- 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).

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3M_MN00716960



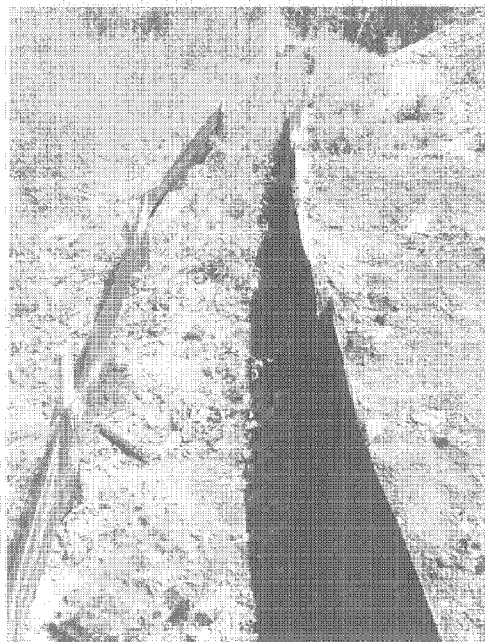
- Photograph 41: Complete D9 Area (Northwest) – Completed D9 Excavation. Note PIM slope material from 20' – 25' BGS layer staged in the excavation as backfill (8/20/2010).

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).

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- 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.



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

Appendix B

Appendix B

APPENDIX B
CONSTRUCTION PERMITS



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

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) 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 2 7 0 3 6 or SUB00 _____
- b. Project name: D1 & D2 Soil Removal Project - (formerly Clearing & 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@mmm.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@mmm.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: _____

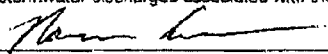
This Application must be signed by: Corporation: a principal executive officer of at least the level of vice-president or the duly authorized representative or agent of the executive officer if the representative or agent is responsible for the overall operation of the facility that is the subject of 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/awq-slm2-60.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

Planning Division
Telephone: 651-458-2827
Fax: 651-458-2881
E-Mail: planning@cottage-grove.org

PLANNING APPLICATION

Applicant		Contact Name (if different)	
3M Company		Patrick J McGrann	
Mailing Address 3M Center, Bldg. 275-6W-22 St. Paul, MN 55144		E-Mail Address pjmcgrann2@mmm.com	
Telephone Numbers:			
Daytime: 651-737-2984		Other: Fax: 651-737-3471	
Property Owner		Contact Name (if different)	
3M Company			
Mailing Address 3M Center, Bldg. 275-6W-22 St. Paul, MN 55144		E-Mail Address	
Telephone Numbers:			
Daytime:		Other: Fax:	
Property Address/Location		Property Identification Number	
10746 Innovation Road, Cottage Grove, MN			
Legal Description			
Type of Application: (check all that apply to your proposal)			
Minor Subdivision	\$300 + \$2000 escrow	Conditional Use Permit	\$400 + \$4000 escrow ☒
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.			
Signature of Applicant: Patrick J McGrann		Signature of Property Owner: Vickie Batroot	
Date: Patrick J McGrann 3/25/10		Date: Vickie Batroot 3/26/10	
Date Application Received: _____ Date Application Accepted: _____ By: _____			
Case Number(s): _____ Amount Received: _____ By: _____			

3M_MN00716971



* 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.

APPLICANT	
CARL BOLANDER & SONS CO. 251 STARKEY STREET ST. PAUL, MN 55107-	GRADING/EXCAVATION 391.00 GRADING ASBUILT REVIEW 30.00 GRADING/EXCAVATION PLAN REVIEW 73.75 TOTAL 494.75 PAID WITH CHECK # 8190
OWNER	
3M COMPANY 3M COMPANY TAX-BLDG220-6E-02 PO BOX 33441 TAX DIVISION ST. PAUL, MN 55133-3441	
AGREEMENT AND SWORN STATEMENT	
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.	

SEPARATE PERMITS REQUIRED FOR WORK OTHER THAN DESCRIBED ABOVE.

3M_MN00716972

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/SITEWORK

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.

3M_MN00716973

Appendix C

Appendix C

3M_MN00716974

APPENDIX C
SURVEY DOCUMENTATION

3M_MN00716975

Total Excavation
Stock Pile
Direct Load
PIM Stock Pile

9/29/2010

Index	Base Surface	Comparison Surface	Cut	Fill	Net	Cut Factor	Fill Factor	Cut (adjusted)	Fill (adjusted)	Net (adjusted)	Description
1	Base of 1-9 001-1 to 1-9 002-2	D9-10FT BGS With Slopes	6255.62 Cu. Yd.	0.00 Cu. Yd.	6255.62 Cu. Yd.	1		1.625562 Cu. Yd.	0.00 Cu. Yd.	6255.62 Cu. Yd.	Replace Pile Pump Mat. Volume 0-10 BGS
2	Base of 1-9 001-1 to 1-9 002-2	D9-10FT BGS With Slopes	11975.94 Cu. Yd.	1.52 Cu. Yd.	11975.94 Cu. Yd.	1		1.1197594 Cu. Yd.	1.52 Cu. Yd.	11975.93 Cu. Yd.	Replace Pile Pump Mat. Volume 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 1-9 001-1 to 1-9 002-2	GRN D9 1-9 001-1	0.00 Cu. Yd.	50.83 Cu. Yd.	50.83 Cu. Yd.		1	0.00 Cu. Yd.	50.83 Cu. Yd.	50.83 Cu. Yd.	Stock Pile
2	Base of 1-9 001-1 to 1-9 002-2	GRN D9 1-9 001-2	0.00 Cu. Yd.	49.25 Cu. Yd.	49.25 Cu. Yd.		1	0.00 Cu. Yd.	49.25 Cu. Yd.	49.25 Cu. Yd.	Stock Pile
3	Base of 1-9 001-1 to 1-9 002-2	GRN D9 1-9 002-1	0.00 Cu. Yd.	44.64 Cu. Yd.	44.64 Cu. Yd.		1	0.00 Cu. Yd.	44.64 Cu. Yd.	44.64 Cu. Yd.	Stock Pile
4	Base of 1-9 001-1 to 1-9 002-2	GRN D9 1-9 002-2	0.00 Cu. Yd.	46.91 Cu. Yd.	46.91 Cu. Yd.		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	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	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	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	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	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	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	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 1FT BGS	347.92 Cu. Yd.	0.00 Cu. Yd.	347.92 Cu. Yd.	1		1.34792 Cu. Yd.	0.00 Cu. Yd.	347.92 Cu. Yd.	Direct Load
2	D9-10FT BGS	GRN D9 1-2 1FT BGS	161.67 Cu. Yd.	0.00 Cu. Yd.	161.67 Cu. Yd.	1		1.16167 Cu. Yd.	0.00 Cu. Yd.	161.67 Cu. Yd.	Direct Load
3	D9-10FT BGS	GRN D9 1-4 1FT BGS	323.76 Cu. Yd.	0.00 Cu. Yd.	323.76 Cu. Yd.	1		1.32376 Cu. Yd.	0.00 Cu. Yd.	323.76 Cu. Yd.	Direct Load
4	D9-10FT BGS	GRN D9 1-5 1FT BGS	459.59 Cu. Yd.	0.00 Cu. Yd.	459.59 Cu. Yd.	1		1.45959 Cu. Yd.	0.00 Cu. Yd.	459.59 Cu. Yd.	Direct Load
5	D9-10FT BGS	GRN D9 1-6 1FT BGS	287.42 Cu. Yd.	0.00 Cu. Yd.	287.42 Cu. Yd.	1		1.28742 Cu. Yd.	0.00 Cu. Yd.	287.42 Cu. Yd.	Direct Load
6	D9-10FT BGS	GRN D9 1-7 1FT BGS	228.88 Cu. Yd.	0.00 Cu. Yd.	228.88 Cu. Yd.	1		1.22888 Cu. Yd.	0.00 Cu. Yd.	228.88 Cu. Yd.	Direct Load
7	D9-10FT BGS	GRN D9 1-8 1FT BGS	231.13 Cu. Yd.	0.00 Cu. Yd.	231.13 Cu. Yd.	1		1.23113 Cu. Yd.	0.00 Cu. Yd.	231.13 Cu. Yd.	Direct Load
8	D9-10FT BGS	GRN D9 1-10 1FT BGS	387.05 Cu. Yd.	0.00 Cu. Yd.	387.05 Cu. Yd.	1		1.38705 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		1.461173 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		1.311011 Cu. Yd.	0.00 Cu. Yd.	3110.11 Cu. Yd.	Layer 1 Volume With Slope
											Layer 1 Volume NO Slope
											Pos. Imp. Mark. (Informational Only)

7/21/2010 - REMSED

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 1FT BGS	4611.02 Cu. Yd.	0.00 Cu. Yd.	4611.02 Cu. Yd.	1		1.461102 Cu. Yd.	0.00 Cu. Yd.	4611.02 Cu. Yd.	Net Graph
											Direct Load

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	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	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	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	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	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.	47.52 Cu. Yd.	47.52 Cu. Yd.		1	0.04 Cu. Yd.	47.52 Cu. Yd.	47.52 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	0.00 Cu. Yd.	17.21 Cu. Yd.	17.21 Cu. Yd.	Stock Pile

8/15/2010											
Index	Base Surface	Comparison Surface	Cut	Fill	Net	Cut Factor	Fill Factor	Cut (adjusted)	Fill (adjusted)	Net (adjusted)	Description
1	Base of 8-15-2010 Piles	GRN D9 3-3 001-1	0.00 Cu. Yd.	54.58 Cu. Yd.	54.58 Cu. Yd. <Fill>	1		1.000 Cu. Yd.	54.58 Cu. Yd.	54.58 Cu. Yd.	Stock Pile
2	Base of 8-15-2010 Piles	GRN D9 3-3 001-2	0.00 Cu. Yd.	58.10 Cu. Yd.	58.10 Cu. Yd. <Fill>	1		1.000 Cu. Yd.	58.10 Cu. Yd.	58.10 Cu. Yd.	Stock Pile
3	Base of 8-15-2010 Piles	GRN D9 3-3 002-1	0.00 Cu. Yd.	52.75 Cu. Yd.	52.75 Cu. Yd. <Fill>	1		1.000 Cu. Yd.	52.75 Cu. Yd.	52.75 Cu. Yd.	Stock Pile
4	Base of 8-15-2010 Piles	GRN D9 3-3 002-2	0.00 Cu. Yd.	51.52 Cu. Yd.	51.52 Cu. Yd. <Fill>	1		1.000 Cu. Yd.	51.52 Cu. Yd.	51.52 Cu. Yd.	Stock Pile
5	Base of 8-15-2010 Piles	GRN D9 3-3 003-1	0.00 Cu. Yd.	48.20 Cu. Yd.	48.20 Cu. Yd. <Fill>	1		1.002 Cu. Yd.	48.22 Cu. Yd.	48.22 Cu. Yd.	Stock Pile
6	Base of 8-15-2010 Piles	GRN D9 3-3 003-2	0.00 Cu. Yd.	47.15 Cu. Yd.	47.15 Cu. Yd. <Fill>	1		1.000 Cu. Yd.	47.15 Cu. Yd.	47.15 Cu. Yd. <Fill>	Stock Pile
8/15/2010											
Index	Base Surface	Comparison Surface	Cut	Fill	Net	Cut Factor	Fill Factor	Cut (adjusted)	Fill (adjusted)	Net (adjusted)	Description
1	Base of 8-15-2010	GRN D9 3-3 001-1	0.00 Cu. Yd.	55.68 Cu. Yd.	55.68 Cu. Yd. <Fill>	1		1.000 Cu. Yd.	55.68 Cu. Yd.	55.68 Cu. Yd.	Stock Pile
2	Base of 8-15-2010	GRN D9 3-3 001-2	0.04 Cu. Yd.	46.06 Cu. Yd.	46.06 Cu. Yd. <Fill>	1		1.004 Cu. Yd.	46.06 Cu. Yd.	46.06 Cu. Yd.	Stock Pile
3	Base of 8-15-2010	GRN D9 3-3 002-1	0.00 Cu. Yd.	44.70 Cu. Yd.	44.70 Cu. Yd. <Fill>	1		1.000 Cu. Yd.	44.70 Cu. Yd.	44.70 Cu. Yd.	Stock Pile
4	Base of 8-15-2010	GRN D9 3-3 002-2	0.00 Cu. Yd.	49.16 Cu. Yd.	49.16 Cu. Yd. <Fill>	1		1.000 Cu. Yd.	49.16 Cu. Yd.	49.16 Cu. Yd.	Stock Pile
5	Base of 8-15-2010	GRN D9 3-3 003-1	0.00 Cu. Yd.	49.48 Cu. Yd.	49.48 Cu. Yd. <Fill>	1		1.000 Cu. Yd.	49.48 Cu. Yd.	49.48 Cu. Yd.	Stock Pile
6	Base of 8-15-2010	GRN D9 3-3 003-2	0.00 Cu. Yd.	54.42 Cu. Yd.	54.42 Cu. Yd. <Fill>	1		1.000 Cu. Yd.	54.42 Cu. Yd.	54.42 Cu. Yd. <Fill>	Stock Pile
8/7/2010											
Index	Base Surface	Comparison Surface	Cut	Fill	Net	Cut Factor	Fill Factor	Cut (adjusted)	Fill (adjusted)	Net (adjusted)	Description
1	201 BCS PT	GRN D9 3-3 20PT BBS	182.98 Cu. Yd.	0.00 Cu. Yd.	182.98 Cu. Yd. <Cut>	1		1.162,98 Cu. Yd.	0.00 Cu. Yd.	182,98 Cu. Yd. <Cut>	Direct Load
2	EG-GRN AS-Built-5-14-2010-EG-5-21-2010	Rampbottom	1010.46 Cu. Yd.	0.00 Cu. Yd.	1010.46 Cu. Yd. <Cut>	1		1.101046 Cu. Yd.	0.01 Cu. Yd.	1010.45 Cu. Yd. <Cut>	Potentially impacted Final Ramp Material
8/7/2010											
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-Pile-3	GRN D9 3-3 004-1	0.00 Cu. Yd.	59.52 Cu. Yd.	59.52 Cu. Yd. <Fill>	1		1.000 Cu. Yd.	59.52 Cu. Yd.	59.52 Cu. Yd.	Stock Pile
2	Base of 8-26-2010-Pile-3	GRN D9 3-3 004-2	0.00 Cu. Yd.	58.55 Cu. Yd.	58.55 Cu. Yd. <Fill>	1		1.000 Cu. Yd.	58.55 Cu. Yd.	58.55 Cu. Yd.	Stock Pile
3	Base of 8-26-2010-Pile-3	GRN D9 3-3 005-1	0.00 Cu. Yd.	46.00 Cu. Yd.	46.00 Cu. Yd. <Fill>	1		1.000 Cu. Yd.	46.00 Cu. Yd.	46.00 Cu. Yd.	Stock Pile
4	Base of 8-26-2010-Pile-3	GRN D9 3-3 005-2	0.00 Cu. Yd.	31.32 Cu. Yd.	31.32 Cu. Yd. <Fill>	1		1.000 Cu. Yd.	31.32 Cu. Yd.	31.32 Cu. Yd. <Fill>	Stock Pile
5	Base of 8-26-2010-Pile-4	GRN D9 3-4 001-1	0.00 Cu. Yd.	46.85 Cu. Yd.	46.85 Cu. Yd. <Fill>	1		1.000 Cu. Yd.	46.85 Cu. Yd.	46,85 Cu. Yd.	Stock Pile
6	Base of 8-26-2010-Pile-4	GRN D9 3-4 001-2	0.00 Cu. Yd.	48.16 Cu. Yd.	48.16 Cu. Yd. <Fill>	1		1.000 Cu. Yd.	48.16 Cu. Yd.	48.16 Cu. Yd. <Fill>	Stock Pile
7	Base of 8-26-2010-Pile-4	GRN D9 3-4 002-1	0.00 Cu. Yd.	54.25 Cu. Yd.	54.25 Cu. Yd. <Fill>	1		1.000 Cu. Yd.	54.25 Cu. Yd.	54.25 Cu. Yd.	Stock Pile
8	Base of 8-26-2010-Pile-4	GRN D9 3-4 002-2	0.00 Cu. Yd.	54.92 Cu. Yd.	54.92 Cu. Yd. <Fill>	1		1.000 Cu. Yd.	54.92 Cu. Yd.	54.92 Cu. Yd. <Fill>	Stock Pile
9	Base of 8-26-2010-Pile-4	GRN D9 3-4 003-1	0.00 Cu. Yd.	49.40 Cu. Yd.	49.40 Cu. Yd. <Fill>	1		1.000 Cu. Yd.	49.40 Cu. Yd.	49.40 Cu. Yd. <Fill>	Stock Pile
10	Base of 8-26-2010-Pile-4	GRN D9 3-4 003-2	0.01 Cu. Yd.	59.18 Cu. Yd.	59.17 Cu. Yd. <Fill>	1		1.001 Cu. Yd.	59.18 Cu. Yd.	59.18 Cu. Yd.	Stock Pile
11	Base of 8-26-2010-Pile-4	GRN D9 3-4 004	0.00 Cu. Yd.	78.61 Cu. Yd.	78.61 Cu. Yd. <Fill>	1		1.000 Cu. Yd.	78.61 Cu. Yd.	78.61 Cu. Yd. <Fill>	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 2-9 002-2 Minus Center Shots	GRN D9 2-9 002-2	0.00 Cu. Yd.	23.16 Cu. Yd.	23.16 Cu. Yd. <Fill>	1		1.000 Cu. Yd.	23.16 Cu. Yd.	23.16 Cu. Yd. (Revised)	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. <Fill>	1		1.000 Cu. Yd.	61.86 Cu. Yd.	61.86 Cu. Yd. (Revised)	Stock Pile (Revised)

Appendix D

Appendix D

S9P-0767

3M_MN00716979

APPENDIX D
SAMPLING RESULTS

SOIL BORING SAMPLE RESULTS

3M_MN00716981

Table 1: D9 Area - Soil Boring Profiling Analytical Results
College Grove, MN Site

Block Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	1211	1212	1213	1214	1215	1216	1217	1218	1219	1220	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**Table 1: D9 Area - Soil Boring Profiling Analytical Results
Cottage Grove, MN Site**

Block Number:		Layer Number:		Sample ID:		Sample Date:		Sample Location:		Sample Depth:		Sample Weight:		Sample Volume:		Sample Area:		Sample Perimeter:		Sample Circumference:		Sample Diameter:		Sample Thickness:		Sample Length:		Sample Width:		Sample Height:		Sample Depth:		Sample Weight:		Sample Volume:		Sample Area:		Sample Perimeter:		Sample Circumference:		Sample Diameter:		Sample Thickness:		Sample Length:		Sample Width:		Sample Height:	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50				
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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50				
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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50				
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Table 1: D9 Area - Soil Boring Profiling Analytical Results
College Grove, RM Site

Block Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000
02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-11	02-15-1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		

4000 JARVIS is a 30-year company. We are currently in the process of updating our website. Please visit our website at www.4000jarvis.com for more information.

Table 1: D9 Area - Soil Boring Profiling Analytical Results
Cottage Grove, MN Site

[illegible]

Table Notes:

- Value shown is the minimum detection limit.
- PCB used from sample split with Peak Analytical Laboratory.
- All results reported on a "dry-weight" basis.
- PCB and non-PCB congeners for corresponding compound.
- DB = Field duplicate sample.
- RE = Sample reanalyzed for SVOCs.
- Amount at least from the reporting limit (RL), but greater than or equal to 210 minimum detection limit.
- Units are $\mu\text{g/L}$ unless otherwise noted.
- B = Compound was found in the blank or sample.
- 14-Sample was prepared & analyzed beyond the reported reporting limits.

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Table 1: DI Area - Soil During Profiling Analytical Results
College Grove, MN 55016

Block Number	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000
Soil Block ID	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4	39-11.4</																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													

ANALYST: [Name] DATE: [Date] COMMENTS: [Comments]

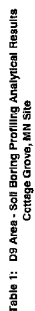


Table 1: D9 Area - Soil Boring Profiling Analytical Results
Cottage Grove, MN Site

Block Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
Block Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
Soil Block ID	01-01	01-02	01-03	01-04	01-05	01-06	01-07	01-08	01-09	01-10	01-11	01-12	01-13	01-14	01-15	01-16	01-17	01-18	01-19	01-20	01-21	01-22	01-23	01-24	01-25	01-26	01-27	01-28	01-29	01-30	01-31	01-32	01-33	01-34	01-35	01-36	01-37	01-38	01-39	01-40	01-41	01-42	01-43	01-44	01-45	01-46	01-47	01-48	01-49	01-50	01-51	01-52	01-53	01-54	01-55	01-56	01-57	01-58	01-59	01-60	01-61	01-62	01-63	01-64	01-65	01-66	01-67	01-68	01-69	01-70	01-71	01-72	01-73	01-74	01-75	01-76	01-77	01-78	01-79	01-80	01-81	01-82	01-83	01-84	01-85	01-86	01-87	01-88	01-89	01-90	01-91	01-92	01-93	01-94	01-95	01-96	01-97	01-98	01-99	01-100
Soil Block ID	02-01	02-02	02-03	02-04	02-05	02-06	02-07	02-08	02-09	02-10	02-11	02-12	02-13	02-14	02-15	02-16	02-17	02-18	02-19	02-20	02-21	02-22	02-23	02-24	02-25	02-26	02-27	02-28	02-29	02-30	02-31	02-32	02-33	02-34	02-35	02-36	02-37	02-38	02-39	02-40	02-41	02-42	02-43	02-44	02-45	02-46	02-47	02-48	02-49	02-50	02-51	02-52	02-53	02-54	02-55	02-56	02-57	02-58	02-59	02-60	02-61	02-62	02-63	02-64	02-65	02-66	02-67	02-68	02-69	02-70	02-71	02-72	02-73	02-74	02-75	02-76	02-77	02-78	02-79	02-80	02-81	02-82	02-83	02-84	02-85	02-86	02-87	02-88	02-89	02-90	02-91	02-92	02-93	02-94	02-95	02-96	02-97	02-98	02-99	02-100
Sample Depth	11 feet (0.5)	12 feet	13 feet	14 feet	15 feet	16 feet	17 feet	18 feet	19 feet	20 feet	21 feet	22 feet	23 feet	24 feet	25 feet	26 feet	27 feet	28 feet	29 feet	30 feet	31 feet	32 feet	33 feet	34 feet	35 feet	36 feet	37 feet	38 feet	39 feet	40 feet	41 feet	42 feet	43 feet	44 feet	45 feet	46 feet	47 feet	48 feet	49 feet	50 feet	51 feet	52 feet	53 feet	54 feet	55 feet	56 feet	57 feet	58 feet	59 feet	60 feet	61 feet	62 feet	63 feet	64 feet	65 feet	66 feet	67 feet	68 feet	69 feet	70 feet	71 feet	72 feet	73 feet	74 feet	75 feet	76 feet	77 feet	78 feet	79 feet	80 feet	81 feet	82 feet	83 feet	84 feet	85 feet	86 feet	87 feet	88 feet	89 feet	90 feet	91 feet	92 feet	93 feet	94 feet	95 feet	96 feet	97 feet	98 feet	99 feet	100 feet										
Sample Depth	11 feet (0.5)	12 feet	13 feet	14 feet	15 feet	16 feet	17 feet	18 feet	19 feet	20 feet	21 feet	22 feet	23 feet	24 feet	25 feet	26 feet	27 feet	28 feet	29 feet	30 feet	31 feet	32 feet	33 feet	34 feet	35 feet	36 feet	37 feet	38 feet	39 feet	40 feet	41 feet	42 feet	43 feet	44 feet	45 feet	46 feet	47 feet	48 feet	49 feet	50 feet	51 feet	52 feet	53 feet	54 feet	55 feet	56 feet	57 feet	58 feet	59 feet	60 feet	61 feet	62 feet	63 feet	64 feet	65 feet	66 feet	67 feet	68 feet	69 feet	70 feet	71 feet	72 feet	73 feet	74 feet	75 feet	76 feet	77 feet	78 feet	79 feet	80 feet	81 feet	82 feet	83 feet	84 feet	85 feet	86 feet	87 feet	88 feet	89 feet	90 feet	91 feet	92 feet	93 feet	94 feet	95 feet	96 feet	97 feet	98 feet	99 feet	100 feet										
Sample Depth	11 feet (0.5)	12 feet	13 feet	14 feet	15 feet	16 feet	17 feet	18 feet	19 feet	20 feet	21 feet	22 feet	23 feet	24 feet	25 feet	26 feet	27 feet	28 feet	29 feet	30 feet	31 feet	32 feet	33 feet	34 feet	35 feet	36 feet	37 feet	38 feet	39 feet	40 feet	41 feet	42 feet	43 feet	44 feet	45 feet	46 feet	47 feet	48 feet	49 feet	50 feet	51 feet	52 feet	53 feet	54 feet	55 feet	56 feet	57 feet	58 feet	59 feet	60 feet	61 feet	62 feet	63 feet	64 feet	65 feet	66 feet	67 feet	68 feet	69 feet	70 feet	71 feet	72 feet	73 feet	74 feet	75 feet	76 feet	77 feet	78 feet	79 feet	80 feet	81 feet	82 feet	83 feet	84 feet	85 feet	86 feet	87 feet	88 feet	89 feet	90 feet	91 feet	92 feet	93 feet	94 feet	95 feet	96 feet	97 feet	98 feet	99 feet	100 feet										
Sample Depth	11 feet (0.5)	12 feet	13 feet	14 feet	15 feet	16 feet	17 feet	18 feet	19 feet	20 feet	21 feet	22 feet	23 feet	24 feet	25 feet	26 feet	27 feet	28 feet	29 feet	30 feet	31 feet	32 feet	33 feet	34 feet	35 feet	36 feet	37 feet	38 feet	39 feet	40 feet	41 feet	42 feet	43 feet	44 feet	45 feet	46 feet	47 feet	48 feet	49 feet	50 feet	51 feet	52 feet	53 feet	54 feet	55 feet	56 feet	57 feet	58 feet	59 feet	60 feet	61 feet	62 feet	63 feet	64 feet	65 feet	66 feet	67 feet	68 feet	69 feet	70 feet	71 feet	72 feet	73 feet	74 feet	75 feet	76 feet	77 feet	78 feet	79 feet	80 feet	81 feet	82 feet	83 feet	84 feet	85 feet	86 feet	87 feet	88 feet	89 feet	90 feet	91 feet	92 feet	93 feet	94 feet	95 feet	96 feet	97 feet	98 feet	99 feet	100 feet										
Sample Depth	11 feet (0.5)	12 feet	13 feet	14 feet	15 feet	16 feet	17 feet	18 feet	19 feet	20 feet	21 feet	22 feet	23 feet	24 feet	25 feet	26 feet	27 feet	28 feet	29 feet	30 feet	31 feet	32 feet	33 feet	34 feet	35 feet	36 feet	37 feet	38 feet	39 feet	40 feet	41 feet	42 feet	43 feet	44 feet	45 feet	46 feet	47 feet	48 feet	49 feet	50 feet	51 feet	52 feet	53 feet	54 feet	55 feet	56 feet	57 feet	58 feet	59 feet	60 feet	61 feet	62 feet	63 feet	64 feet	65 feet	66 feet	67 feet	68 feet	69 feet	70 feet	71 feet	72 feet	73 feet	74 feet	75 feet	76 feet	77 feet	78 feet	79 feet	80 feet	81 feet	82 feet	83 feet	84 feet	85 feet	86 feet	87 feet	88 feet	89 feet	90 feet	91 feet	92 feet	93 feet	94 feet	95 feet	96 feet	97 feet	98 feet	99 feet	100 feet										
Sample Depth	11 feet (0.5)	12 feet	13 feet	14 feet	15 feet	16 feet	17 feet	18 feet	19 feet	20 feet	21 feet	22 feet	23 feet	24 feet	25 feet	26 feet	27 feet	28 feet	29 feet	30 feet	31 feet	32 feet	33 feet	34 feet	35 feet	36 feet	37 feet	38 feet	39 feet	40 feet	41 feet	42 feet	43 feet	44 feet	45 feet	46 feet	47 feet	48 feet	49 feet	50 feet	51 feet	52 feet	53 feet	54 feet	55 feet	56 feet	57 feet	58 feet	59 feet	60 feet	61 feet	62 feet	63 feet	64 feet	65 feet	66 feet	67 feet	68 feet	69 feet	70 feet	71 feet	72 feet	73 feet	74 feet	75 feet	76 feet	77 feet	78 feet	79 feet	80 feet	81 feet	82 feet	83 feet	84 feet	85 feet	86 feet	87 feet	88 feet	89 feet	90 feet	91 feet	92 feet	93 feet	94 feet	95 feet	96 feet	97 feet	98 feet	99 feet	100 feet										
Sample Depth	11 feet (0.5)	12 feet	13 feet	14 feet	15 feet	16 feet	17 feet	18 feet	19 feet	20 feet	21 feet	22 feet	23 feet	24 feet	25 feet	26 feet	27 feet	28 feet	29 feet	30 feet	31 feet	32 feet	33 feet	34 feet	35 feet	36 feet	37 feet	38 feet	39 feet	40 feet	41 feet	42 feet	43 feet	44 feet	45 feet	46 feet	47 feet	48 feet	49 feet	50 feet	51 feet	52 feet	53 feet	54 feet	55 feet	56 feet	57 feet	58 feet	59 feet	60 feet	61 feet	62 feet	63 feet	64 feet	65 feet	66 feet	67 feet	68 feet	69 feet	70 feet	71 feet	72 feet	73 feet	74 feet	75 feet	76 feet	77 feet	78 feet	79 feet	80 feet	81 feet	82 feet	83 feet	84 feet	85 feet	86 feet	87 feet	88 feet	89 feet	90 feet	91 feet	92 feet	93 feet	94 feet	95 feet	96 feet	97 feet	98 feet	99 feet	100 feet										
Sample Depth	11 feet (0.5)	12 feet	13 feet	14 feet	15 feet	16 feet	17 feet	18 feet	19 feet	20 feet	21 feet	22 feet	23 feet	24 feet	25 feet	26 feet	27 feet	28 feet	29 feet	30 feet	31 feet	32 feet	33 feet	34 feet	35 feet	36 feet	37 feet	38 feet	39 feet	40 feet	41 feet	42 feet	43 feet	44 feet	45 feet	46 feet	47 feet	48 feet	49 feet	50 feet	51 feet	52 feet	53 feet	54 feet	55 feet	56 feet	57 feet	58 feet	59 feet	60 feet	61 feet	62 feet	63 feet	64 feet	65 feet	66 feet	67 feet	68 feet	69 feet	70 feet	71 feet	72 feet	73 feet	74 feet	75 feet	76 feet	77 feet	78 feet	79 feet	80 feet	81 feet	82 feet	83 feet	84 feet	85 feet	86 feet	87 feet	88 feet	89 feet	90 feet	91 feet	92 feet	93 feet	94 feet	95 feet	96 feet	97 feet	98 feet	99 feet	100 feet										
Sample Depth	11 feet (0.5)	12 feet	13 feet	14 feet	15 feet	16 feet	17 feet	18 feet	19 feet	20 feet	21 feet	22 feet	23 feet	24 feet	25 feet	26 feet	27 feet	28 feet	29 feet	30 feet	31 feet	32 feet	33 feet	34 feet	35 feet	36 feet	37 feet	38 feet	39 feet	40 feet	41 feet	42 feet	43 feet	44 feet	45 feet	46 feet	47 feet	48 feet	49 feet	50 feet	51 feet	52 feet	53 feet	54 feet	55 feet	56 feet	57 feet	58 feet	59 feet	60 feet	61 feet	62 feet	63 feet	64 feet	65 feet	66 feet	67 feet	68 feet	69 feet	70 feet	71 feet	72 feet	73 feet	74 feet	75 feet	76 feet	77 feet	78 feet	79 feet	80 feet	81 feet	82 feet	83 feet	84 feet	85 feet	86 feet	87 feet	88 feet	89 feet	90 feet	91 feet	92 feet	93 feet	94 feet	95 feet	96 feet	97 feet	98 feet	99 feet	100 feet										
Sample Depth	11 feet (0.5)	12 feet	13 feet	14 feet	15 feet	16 feet	17 feet	18 feet	19 feet	20 feet	21 feet	22 feet	23 feet	24 feet	25 feet	26 feet	27 feet	28 feet	29 feet	30 feet	31 feet	32 feet	33 feet	34 feet	35 feet	36 feet	37 feet	38 feet	39 feet	40 feet	41 feet	42 feet	43 feet	44 feet	45 feet	46 feet	47 feet	48 feet	49 feet	50 feet	51 feet	52 feet	53 feet	54 feet	55 feet	56 feet	57 feet	58 feet	59 feet	60 feet	61 feet	62 feet	63 feet	64 feet	65 feet	66 feet	67 feet	68 feet	69 feet	70 feet	71 feet	72 feet	73 feet	74 feet	75 feet	76 feet	77 feet	78 feet	79 feet	80 feet	81 feet	82 feet	83 feet	84 feet	85 feet	86 feet	87 feet	88 feet	89 feet	90 feet	91 feet	92 feet	93 feet	94 feet	95 feet	96 feet	97 feet	98 feet	99 feet	100 feet										
Sample Depth	11 feet (0.5)	12 feet	13 feet	14 feet	15 feet	16 feet	17 feet	18 feet	19 feet	20 feet	21 feet	22 feet	23 feet	24 feet	25 feet	26 feet	27 feet	28 feet	29 feet	30 feet	31 feet	32 feet	33 feet	34 feet	35 feet	36 feet	37 feet	38 feet	39 feet	40 feet	41 feet	42 feet	43 feet	44 feet	45 feet	46 feet	47 feet	48 feet	49 feet	50 feet	51 feet	52 feet	53 feet	54 feet	55 feet	56 feet	57 feet	58 feet	59 feet	60 feet	61 feet	62 feet	63 feet	64 feet	65 feet	66 feet	67 feet	68 feet	69 feet	70 feet	71 feet	72 feet	73 feet	74 feet	75 feet	76 feet	77 feet	78 feet	79 feet	80 feet	81 feet	82 feet	83 feet	84 feet	85 feet	86 feet	87 feet	88 feet	89 feet	90 feet	91 feet	92 feet	93 feet	94 feet	95 feet	96 feet	97 feet	98 feet	99 feet	100 feet										
Sample Depth	11 feet (0.5)	12 feet	13 feet	14 feet	15 feet	16 feet	17 feet	18 feet	19 feet	20 feet	21 feet	22 feet	23 feet	24 feet	25 feet	26 feet	27 feet	28 feet	29 feet	30 feet	31 feet	32 feet	33 feet	34 feet	35 feet	36 feet	37 feet	38 feet	39 feet	40 feet	41 feet	42 feet	43 feet	44 feet	45 feet	46 feet	47 feet	48 feet	49 feet	50 feet	51 feet	52 feet	53 feet	54 feet	55 feet	56 feet	57 feet	58 feet	59 feet	60 feet	61 feet	62 feet	63 feet	64 feet	65 feet	66 feet	67 feet	68 feet	69 feet	70 feet	71 feet	72 feet	73 feet	74 feet	75 feet	76 feet	77 feet	78 feet	79 feet	80 feet	81 feet	82 feet	83 feet	84 feet	85 feet	86 feet	87 feet	88 feet	89 feet	90 feet	91 feet	92 feet	93 feet	94 feet	95 feet	96 feet	97 feet	98 feet	99 feet	100 feet										
Sample Depth	11 feet (0.5)	12 feet	13 feet	14 feet	15 feet	16 feet	17 feet	18 feet	19 feet	20 feet	21 feet	22 feet	23 feet																																																																																							

Table Notes:

* Value shown is the minimum detection limit.

† Data were analyzed for the presence of the following compounds using the GC/MS method from samples sent to Peak Analytics Laboratory.

--- = Sample not analyzed for corresponding compound.

ND = Not detected.

DB = Field duplicate station.

HE = Sample analyzed for HCHs.

HE-DB = Sample analyzed for HCHs (HE) but under time or equal to 1 (HE-DB) and the concentration is an approximate value.

HE-DB-DB = Sample analyzed for HCHs (HE) but under time or equal to 1 (HE-DB) and the concentration is an approximate value.

He-Dayside and He-Night are samples collected during the day and night, respectively. He-Dayside and He-Night are analyzed against the appropriate background time.

[illegible]

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Table 1: D5 Area, Soil Boring Profiling Analytical Results
College Grove, MN Site

Block Number	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	1211	1212	1213	1214	1215	1216	1217	1218	1219	1220	12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EX SITU SAMPLE RESULTS



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
Metals, TCLP (mg/L, ppm)		
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.

Z:\3m-cottage grove\D9_Construction\CCRVAppendices\Appendix D (Sample Results)\CGMN_D9_Excavation_Soil_Block_Data\3-1_TCLP_(W)



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

Stockpile Manifest ID:	Stockpile 001'		Stockpile 002'		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	D9 1-3 002-1 & D9 1-3 002-2	Composite - Duplicate D9 1-3
Sample Type:						
Block ID:						
Sample ID:	CGMN-ESC-D9103001A-0-100711	CGMN-ESC-D9103002A-0-100711	CGMN-ESC-D9103002A-0-100711	CGMN-ESC-D9103002A-DB-100711	CGMN-ESC-D9103002A-DB-100711	CGMN-ESC-D9103002A-DB-100711
Laboratory ID:	10133694001	10133694002	10133694002	10133694003	10133694003	10133694003
Sample Date & Time:	07/16/2010 11:45	07/16/2010 11:54	07/16/2010 11:54	07/16/2010 11:54	07/16/2010 11:54	07/16/2010 11:54
Polychlorinated Biphenyls (mg/kg, ppm)						
PCB-1016 (Aroclor 1016)	< 0.0411	< 0.0397	< 0.0397	< 0.0388	< 0.0388	< 0.0388
PCB-1221 (Aroclor 1221)	< 0.0411	< 0.0397	< 0.0397	< 0.0388	< 0.0388	< 0.0388
PCB-1232 (Aroclor 1232)	< 0.0411	< 0.0397	< 0.0397	< 0.0388	< 0.0388	< 0.0388
PCB-1242 (Aroclor 1242)	< 0.0411	< 0.0397	< 0.0397	< 0.0388	< 0.0388	< 0.0388
PCB-1248 (Aroclor 1248)	9.72	0.538	0.538	0.463	0.463	0.463
PCB-1254 (Aroclor 1254)	3.82	0.426	0.426	1.56	1.56	1.56
PCB-1260 (Aroclor 1260)	1.15	0.511	0.511	< 0.0388	< 0.0388	< 0.0388
PCB-1262 (Aroclor 1262)	< 0.0411	< 0.0397	< 0.0397	< 0.0388	< 0.0388	< 0.0388
PCB-1268 (Aroclor 1268)	< 0.0411	< 0.0397	< 0.0397	< 0.0388	< 0.0388	< 0.0388
Total PCB	14.7	1.48	1.48	2.02	2.02	2.02
Metals, TCLP (mg/L, ppm)						
Lead, TCLP	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
Percent Moisture (%)	19.6	16.3	16.3	15.0	15.0	15.0
Percent Moisture						

Table Notes:

¹ 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.

Z:\m-cottage_grove\09_Construction\CCRA\Appendices\Appendix D (Sample Results)\CGMN_D9_Excavation_Soil_Block_Data - 1-3_(W)



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

Stockpile Manifest ID: Sample Type: Block ID:	Stockpile 003 ¹		Stockpile 004 D9 1-3 004 Composite
	D9 1-3 003-1 & D9 1-3 003-2	Composite	
Sample ID:	D9 1-3	D9 1-3	D9 1-3
Sample ID:	CGMN-ESC-D9103003A-0-100716	CGMN-ESC-D9103004A-0-100716	CGMN-ESC-D9103004A-0-100716
Laboratory ID:	10133694004	10133694005	10133694005
Sample Date & Time:	07/16/2010 11:52	07/16/2010 11:45	07/16/2010 11:45
Polychlorinated Biphenyls (mg/kg, ppm)			
PCB-1016 (Aroclor 1016)	< 0.0367	< 0.0367	< 0.0368
PCB-1221 (Aroclor 1221)	< 0.0367	< 0.0367	< 0.0368
PCB-1232 (Aroclor 1232)	< 0.0367	< 0.0367	< 0.0368
PCB-1242 (Aroclor 1242)	< 0.0367	< 0.0367	< 0.0368
PCB-1248 (Aroclor 1248)	< 0.0367	< 0.0367	< 0.0368
PCB-1254 (Aroclor 1254)	0.199	0.199	0.197
PCB-1260 (Aroclor 1260)	0.165	0.165	0.0805
PCB-1262 (Aroclor 1262)	< 0.0367	< 0.0367	< 0.0368
PCB-1268 (Aroclor 1268)	< 0.0367	< 0.0367	< 0.0368
Total PCB	0.364	0.364	0.278
Metals, TCLP (mg/L, ppm)			
Lead, TCLP	< 0.015	< 0.015	< 0.015
Percent Moisture (%)			
Percent Moisture	10.4	10.4	10.4

Table Notes:

¹ 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 package.



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

Stockpile Manifest ID:	Stockpile 001 ¹		Stockpile 002
	D9 2-2 001-1 & D9 2-2 001-2	Composite	D9 2-2 002
Sample Type:	Composite		Composite
Block ID:	D9 2-2		D9 2-2
Sample ID:	CGMN-ESC-D202001A-0-100726		CGMN-ESC-D202002A-0-100726
Laboratory ID:	10134342001		10134342002
Sample Date & Time:	07/26/2010 11:39		07/26/2010 11:33
Polychlorinated Biphenyls (mg/kg, ppm)			
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:

¹ Stockpile staged in two separate sub-piles.

Data Notes:

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

Data tabulation QA'd by J. Savage of WESTON on 07/30/2010.

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

Z:\3m-cottage_grovel06_Construction\CCRA\Appendices\Appendix C (Sample Results)\CGMN_D9_Excavation_Soil_Block_Data_2-2_(01)



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

Stockpile Manifest ID: Sample Type: Block ID:	Stockpile 001 ¹		Stockpile 002 ¹	
	D9 2-7 001-1 & D9 2-7 001-2 Composite D9 2-7	D9 2-7 001-1 & D9 2-7 001-2 Composite - Duplicate D9 2-7	D9 2-7 002-1 & D9 2-7 002-2 Composite D9 2-7	D9 2-7 002-1 & D9 2-7 002-2 Composite D9 2-7
Sample ID:	CGMN-ESC-D9207001A-0-100730 10134759003	CGMN-ESC-D9207001A-DB-100730 10134759004	CGMN-ESC-D9207002A-0-100730 10134759005	CGMN-ESC-D9207002A-0-100730 10134759005
Laboratory ID:	07/30/2010 12:13	07/30/2010 12:13	07/30/2010 12:13	07/30/2010 12:21
Sample Date & Time:				
Polychlorinated Biphenyls (mg/kg, ppm)				
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	< 0.821
Volatile Organic Compounds, TCLP (mg/L, ppm)				
Benzene, TCLP	0.509	0.151	0.425	
pH (Standard Units)				
pH at 25 Degrees C	7.8	8.8	7.6	
Percent Moisture (%)				
Percent Moisture	53.6	28.2	59.8	

Table Notes:

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

Table Notes:

¹ 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

Z:\3m-cottage grow\02_Construction\CPRA\Appendices\Appendix D (Sample Results)\CGMN_D9_Excavation_Soil_Blocks_2-9_2-7_001&002_V01



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

Stockpile Manifest ID:	D9 Drums
Sample Type:	Composite
Block ID:	N/A
Sample ID:	CGMN-SBC-D9DRUMS-0-100730
Laboratory ID:	10134759006
Sample Date & Time:	07/30/2010 11:45
Polychlorinated Biphenyls (mg/kg, ppm)	
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
Volatile Organic Compounds, TCLP (mg/L, ppm)	
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
Percent Moisture (%)	
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:		Stockpile 001-1		Stockpile 001-2		Stockpile 001-2		Stockpile 002-1	
Sample Type:		D9 1-9 001-1		D9 1-9 001-2		D9 1-9 001-2		D9 1-9 002-1	
Block ID:		D9 1-9		Composite		Composite Duplicate		Composite	
Sample ID:		CGMN-ESC-D9109001D-0-100802		CGMN-ESC-D9109001E-0-100802		CGMN-ESC-D9109001E-DB-100802		CGMN-ESC-D9109002D-0-100802	
Laboratory ID:		10134878001		10134878002		10134878003		10134878004	
Sample Date & Time:		8/2/10 12:01		8/2/10 12:07		8/2/10 12:07		8/2/10 12:12	
Polychlorinated Biphenyls (mg/kg, ppm)									
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		---		---		---		---	
Volatile Organic Compounds, TCLP (mg/L, ppm)									
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		<0.0500		<0.0500		<0.0500	
Chlorobenzene, TCLP		---		---		---		<0.0500	
Chloroform, TCLP		---		---		---		<0.0500	
Tetrachloroethene, TCLP		0.415		0.697		0.677		0.0718	
Trichloroethene, TCLP		---		---		---		<0.0500	
Vinyl chloride, TCLP		---		---		---		<0.0200	
pH (Standard Units)									
pH at 25 Degrees C		---		8.2		7.7		7.9	
Percent Moisture (%)									
Percent Moisture		---		---		---		---	

Table Notes:

¹ 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 Paco Analytical Services data package #10134878.

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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 ¹		Stockpile 003	
Sample Type:		Composite		D9 2-4 001-1 & D9 2-4 001-2		D9 2-7 003	
Block ID:		D9 1-9		Composite D9 2-4		Composite D9 2-7	
Sample ID:		CGMN-ESC-D9109002E-0-100802		CGMN-ESC-D9204001A-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	
Polychlorinated Biphenyls (mg/kg, ppm)							
PCB-1016 (Aroclor 1016)					<0.449		<1.05
PCB-1221 (Aroclor 1221)					<0.449		<1.05
PCB-1232 (Aroclor 1232)					<0.449		<1.05
PCB-1242 (Aroclor 1242)					<0.449		<1.05
PCB-1248 (Aroclor 1248)					<0.449		<1.05
PCB-1254 (Aroclor 1254)					<0.449		<1.05
PCB-1260 (Aroclor 1260)				11.0		31.7	
PCB-1262 (Aroclor 1262)				2.08		6.09	
PCB-1268 (Aroclor 1268)							
Total PCB				13.1		37.79	
Volatile Organic Compounds, TCLP (mg/L, ppm)							
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							
pH (Standard Units)							
pH at 25 Degrees C							
Percent Moisture (%)							
Percent Moisture				26.5		68.7	

Table Notes:

¹ Stockpile staged in two separate sub-piles.

Data Notes:

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

Data tabulation QAD by J. Savage of WESTON on 08/06/2010.

Analytical data provided in Page Analytical Services data package 1



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

Stockpile Manifest ID: Sample Type: Block ID:	Stockpile 002 ¹		Stockpile 003 ¹	
	D9 2-4 002-1 & D9 2-4 002-2	Composite	D9 2-4 003-1 & D9 2-4 003-2	Composite
Sample ID:	CGMN-ESC-D9204002A-0-100802	D9 2-4	CGMN-ESC-D9204003A-0-100802	D9 2-4
Laboratory ID:	10135081001		10135081002	
Sample Date & Time:	08/04/2010 08:00		08/04/2010 08:07	
Polychlorinated Biphenyls (mg/kg, ppm)				
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		
Percent Moisture (%)				
Percent Moisture	36.4		45.0	

Table Notes:

¹ 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.

Z:\3m-cottage grove\09_Construction\CCRA\Appendices\Appendix D (Sample Results)\CGMN_D9_Excavation_Soil_Block_Data - 2-4_002_003.W9



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

Stockpile Manifest ID: Sample Type: Block ID: Sample ID: Laboratory ID: Sample Date & Time:	Stockpile 001 ¹ D9 3-1 001-1 & D9 3-1 001-2 Composite D9 3-1 CGMN-ESC-D9301001A-0-100810 10135496001 08/10/2010 08:45		Stockpile 002 ¹ D9 3-1 002-1 & D9 3-1 002-2 Composite D9 3-1 CGMN-ESC-D9301002A-0-100810 10135496002 08/10/2010 08:53		Stockpile 003 ¹ D9 3-1 003-1 & D9 3-1 003-2 Composite D9 3-1 CGMN-ESC-D9301003A-0-100810 10135496003 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)		<0.755		<0.416		<0.615
PCB-1260 (Aroclor 1260)	1.22		7.42		23.9	
PCB-1262 (Aroclor 1262)		<0.755	1.62	<0.416	5.34	<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, TOL P	<0.05		0.0894		0.596	
Percent Moisture (%)						
	12.6		20.6		46.3	

Table Notes:
¹ Stockpile staged in two separate sub-piles.

Data Notes:
Data tabulated by R. McLoughlin of WESTON on 08/18/2010.
Data tabulation QA'd by J. Savage of WESTON on 09/16/2010.
Analytical data provided in Phase Analytical Services data package #10135496.



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

Stockpile Manifest ID: Sample Type: Block ID: Sample ID: Laboratory ID: Sample Date & Time:	Stockpile 001'		Stockpile 002'
	D9 1-9 001-1 Grab D9 1-9 CGMN-ES-D9109001B-0-100811 10135603001 08/11/2010 09:40	D9 1-9 001-2 Grab D9 1-9 CGMN-ES-D9109001C-0-100811 10135603002 08/11/2010 09:46	D9 1-9 001-2 Grab - Duplicate D9 1-9 CGMN-ES-D9109001C-DB-0-100811 10135603003 08/11/2010 09:46
Volatile Organic Compounds (mg/kg, ppm)			
1,1,1,2-Tetrachloroethane		< 0.0692	< 3.55
1,1,1-Trichloroethane	0.366	1.41	< 3.55
1,1,2,2-Tetrachloroethane		< 0.0692	< 3.55
1,1,2-Trichloroethane		< 0.0692	< 3.55
1,1,2-Trichlorofluoroethane		< 0.0692	< 3.55
1,1-Dichloroethane		< 0.0692	< 3.55
1,1-Dichloroethene		< 0.0692	< 3.55
1,1-Dichloropropene		< 0.0692	< 3.55
1,2,3-Trichlorobenzene		< 0.0692	< 3.55
1,2,3-Trichloropropane		< 0.0692	< 3.55
1,2,4-Trichlorobenzene		< 0.0692	< 3.55
1,2,4-Trimethylbenzene	0.286 0.806	12.3	< 3.55
1,2-Dibromo-3-chloropropane		< 0.277	< 14.2
1,2-Dibromoethane (EDB)		< 0.0692	< 3.55
1,2-Dichlorobenzene	5.24	22.6	40.0
1,2-Dichloroethane		< 0.0692	< 3.55
1,2-Dichloropropane		< 0.0692	< 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	< 3.55
1,4-Dichloropropane		< 0.277	< 14.2
2,2-Dichloropropane	0.822	2.69	5.24
2-Butanone (MEK)		< 0.692	< 35.5
2-Chlorotoluene		< 0.0692	< 3.55
4-Chlorotoluene		< 0.692	< 35.5
4-Methyl-2-pentanone (MIBK)		< 0.692	< 35.5
Acetone		< 0.692	< 35.5
Allyl chloride		< 0.277	< 14.2
Benzene		< 0.0277	< 1.42
Bromobenzene		< 0.0692	< 3.55
Bromochloromethane		< 0.0692	< 3.55
Bromodichloromethane		< 0.0692	< 3.55
Bromoforn		< 0.554	< 28.4
Bromomethane		< 0.692	< 35.5
Carbon tetrachloride		< 0.277	< 14.2
Chlorobenzene		< 0.0692	< 3.55
Chloroethane		< 0.692	< 35.5
Chloroform		< 0.0692	< 3.55
Chloromethane		< 0.277	< 14.2
cis-1,2-Dichloroethene		< 1.36	< 3.55
cis-1,3-Dichloropropene	0.224	< 0.0692	< 3.55

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

Stockpile Manifest ID: Sample Type: Block ID:	Stockpile 001 ¹	
	D9 1-9 001-1 Grab	D9 1-9 001-2 Grab - Duplicate
Sample ID: Laboratory ID:	D9 1-9 CGMN-ES-D9109001B-0-100811 10135603001	D9 1-9 CGMN-ES-D9109001C-0-100811 10135603003
Sample Date & Time:	08/11/2010 09:40	08/11/2010 09:46
Dibromochloromethane	< 0.0692	< 1.36
Dibromomethane	< 0.0692	< 1.36
Dichlorodifluoromethane	< 0.0692	< 1.36
Dichlorofluoromethane	< 0.0692	< 1.36
Diethyl ether (Ethyl ether)	< 0.277	< 5.42
Ethylbenzene	2.81	22.6
Hexachloro-1,3-butadiene	< 0.277	< 5.42
Isopropylbenzene (Cumene)	0.126	< 1.36
Methylene Chloride	< 0.277	< 5.42
Methyl-tert-butyl ether	< 0.0692	< 1.36
Naphthalene	< 0.277	< 5.42
n-Butylbenzene	< 0.0692	< 1.36
n-Propylbenzene	0.131	< 1.36
p-Isopropyltoluene	0.155	< 1.36
sec-Butylbenzene	< 0.0692	< 1.36
Styrene	< 0.0692	< 1.36
tert-Butylbenzene	< 0.0692	< 1.36
Tetrachloroethene	10.1	37.8
Tetrahydrofuran		< 13.6
Toluene	9.01	49.5
trans-1,2-Dichloroethene	< 0.0692	< 1.36
trans-1,3-Dichloropropene	< 0.0692	< 1.36
Trichloroethene	0.141	< 1.36
Trichlorofluoromethane		< 1.36
Vinyl chloride	< 0.0692	< 0.542
Xylene (Total)	20.1	384
Percent Moisture (%)	25.2	28.5
Percent Moisture		27.9

Table Notes:

¹ 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: Sample Type:	Stockpile 002 ¹	
	D9 1-9 002-1 Grab	D9 1-9 002-2 Grab
	Block ID: D9 1-9	D9 1-9
	Sample ID: CGMN-ES-D9109002B-0-100811	CGMN-ES-D9109002C-0-100811
Laboratory ID:	10135603004	10135603005
	Sample Date & Time: 08/11/2010 09:42	08/11/2010 09:49
Volatile Organic Compounds (mg/kg, ppm)		
1,1,1,2-Tetrachloroethane	< 0.316	< 0.116
1,1,1-Trichloroethane	< 0.316	< 0.116
1,1,2,2-Tetrachloroethane	< 0.316	< 0.116
1,1,2-Trichloroethane	< 0.316	< 0.116
1,1,2-Trichlorotrifluoroethane	< 0.316	< 0.116
1,1-Dichloroethane	< 0.316	< 0.116
1,1-Dichloroethene	< 0.316	< 0.116
1,1-Dichloropropene	< 0.316	< 0.116
1,2,3-Trichlorobenzene	< 0.316	< 0.116
1,2,3-Trichloropropane	< 0.316	< 0.116
1,2,4-Trichlorobenzene	< 0.316	< 0.116
1,2,4-Trimethylbenzene	0.362	0.460
1,2-Dibromo-3-chloropropane	< 0.316	0.547
1,2-Dibromoethane (EDB)	< 1.26	< 0.465
1,2-Dichlorobenzene	< 0.316	< 0.116
1,2-Dichloroethane	14.3	7.08
1,2-Dichloropropane	< 0.316	< 0.116
1,3,5-Trimethylbenzene	< 0.316	< 0.116
1,3-Dichlorobenzene	2.80	0.886
1,3-Dichloropropane	3.58	3.78
1,4-Dichlorobenzene	< 0.316	< 0.116
2,2-Dichloropropane	1.14	0.678
2-Butanone (MEK)	< 1.26	< 0.465
2-Chlorotoluene	< 3.16	< 1.16
4-Chlorotoluene	< 0.316	< 0.116
4-Methyl-2-pentanone (MIBK)	< 0.316	< 1.16
Acetone	< 3.16	< 1.16
Allyl chloride	< 1.26	< 0.465
Benzene	< 0.126	< 0.0465
Bromobenzene	< 0.316	< 0.116
Bromochloromethane	< 0.316	< 0.116
Bromodichloromethane	< 0.316	< 0.116
Bromoform	< 2.53	< 0.929
Bromomethane	< 3.16	< 1.16
Carbon tetrachloride	< 1.26	< 0.465
Chlorobenzene	< 0.316	< 0.116
Chloroethane	< 3.16	< 1.16
Chloroform	< 0.316	< 0.116
Chloromethane	< 1.26	< 0.465
cis-1,2-Dichloroethene	< 0.316	< 0.116
cis-1,3-Dichloropropene	< 0.316	< 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: Sample Type:	Stockpile 002 ¹	
	D9 1-9 002-1 Grab	D9 1-9 002-2 Grab
Block ID:	D9 1-9	D9 1-9
Sample ID:	CGMN-ES-D9109002B-0-100811	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	< 3.16	< 1.16
Toluene	2.75	1.94
trans-1,2-Dichloroethene	< 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:

¹ 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.



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

Stockpile Manifest ID: Sample Type: Block ID: Sample ID: Laboratory ID: Sample Date & Time:	Stockpile 001 ¹		Stockpile 002 ¹	
	D9 3-7 001-1 & D9 3-7 001-2 Composite D9 3-7	D9 3-7 001-1 & D9 3-7 001-2 Composite - Duplicate D9 3-7	D9 3-7 002-1 & D9 3-7 002-2 Composite D9 3-7	
	CGMN-ESC-D9307001A-0-100811 10135603006 08/11/2010 09:58	CGMN-ESC-D9307001A-DB-100811 10135603007 08/11/2010 09:58	CGMN-ESC-D9307002A-0-100811 10135603008 08/11/2010 10:05	
Polychlorinated Biphenyls (mg/kg, ppm)				
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	
Volatile Organic Compounds, TCLP (mg/L, ppm)				
Benzene, TCLP	0.0591	0.0685	0.350	
Metals, TCLP (mg/L, ppm)				
Lead, TCLP	< 0.015	< 0.015	< 0.015	< 0.015
Percent Moisture (%)				
Percent Moisture	30.7	29.5	42.0	

Table Notes:

¹ 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.

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

Stockpile Manifest ID: Sample Type: Block ID: Sample ID: Laboratory ID: Sample Date & Time:	Stockpile 001 ¹		Stockpile 002 ¹		Stockpile 003 ¹		Stockpile 004	
	D9 3-5 001-1 & D9 3-5 001-2	Composite D9 3-5	D9 3-5 002-1 & D9 3-5 002-2	Composite D9 3-5	D9 3-5 003-1 & D9 3-5 003-2	Composite D9 3-5	D9 3-5 004	Composite D9 3-5
	CGMN-ESC-D9305001A-0-100811	10135735001	CGMN-ESC-D9305002A-0-100811	10135735002	CGMN-ESC-D9305003A-0-100811	10135735003	CGMN-ESC-D9305004A-0-100811	10135735004
	08/12/2010 16:28		08/12/2010 16:32		08/12/2010 16:36		08/12/2010 16:38	
Polychlorinated Biphenyls (mg/kg, ppm)								
PCB-1016 (Aroclor 1016)	<0.645		<0.464		<0.748		<0.729	
PCB-1221 (Aroclor 1221)	<0.645		<0.464		<0.748		<0.729	
PCB-1232 (Aroclor 1232)	<0.645		<0.464		<0.748		<0.729	
PCB-1242 (Aroclor 1242)	<0.645		<0.464		<0.748		<0.729	
PCB-1248 (Aroclor 1248)	<0.645		<0.464		<0.748		<0.729	
PCB-1254 (Aroclor 1254)	3.14		2.00		22.2		33.1	
PCB-1260 (Aroclor 1260)	0.780		<0.464		5.23		7.53	
PCB-1262 (Aroclor 1262)	<0.645		<0.464		<0.748		<0.729	
PCB-1268 (Aroclor 1268)	<0.645		<0.464		<0.748		<0.729	
Total PCBs	3.92		2.00		27.4		40.6	
Percent Moisture (%)								
Percent Moisture	48.8		28.9		55.9		54.8	

Table Notes:

¹ Stockpile staged in two separate sub-piles.

Data Notes:

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

Data tabulation QAD 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: Sample Type:	Stockpile 001 ¹		Stockpile 002 ¹	
	D9 3-3 001-1 & D9 3-3 001-2	Composite	D9 3-3 002-1 & D9 3-3 002-2	Composite
Block ID:	D9 3-3		D9 3-3	
Sample ID:	CGMN-ESC-D9303001A-0-100817		CGMN-ESC-D9303002A-0-100817	
Laboratory ID:	1013595004		1013595005	
Sample Date & Time:	08/17/2010 16:26		08/17/2010 16:30	
Polychlorinated Biphenyls (mg/kg, ppm)				
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	< 0.855		< 0.697
PCB-1260 (Aroclor 1260)			40.8	
PCB-1262 (Aroclor 1262)	8.59	< 0.855	4.35	
PCB-1268 (Aroclor 1268)		< 0.855		< 0.697
Total PCBs	92.1		45.2	
Volatile Organic Compounds, TCLP (mg/L, ppm)				
Benzene, TCLP	0.655			0.637
Metals, TCLP (mg/L, ppm)				
Lead, TCLP				
Mercury, TCLP				
Percent Moisture (%)				
Percent Moisture	61.6			52.7

Table Notes:

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

Table Notes:

¹ 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 QA'd by R. McLoughlin 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: Sample Type: Block ID: Sample ID: Laboratory ID: Sample Date & Time:	Stockpile 003 ¹		Stockpile 004 ¹	
	D9 3-3 003-1 & D9 3-3 003-2 Composite D9 3-3 CGMN-ESC-D9303003A-0-100819 10136152001 08/19/2010 11:35	D9 3-3 003-1 & D9 3-3 003-2 Composite - Duplicate D9 3-3 CGMN-ESC-D9303003A-DB-100819 10136152002 08/19/2010 11:35	D9 3-3 004-1 & D9 3-3 004-2 Composite D9 3-3 CGMN-ESC-D9303004A-0-100819 10136152003 08/19/2010 11:42	
Polychlorinated Biphenyls (mg/kg, ppm)				
PCB-1016 (Aroclor 1016)	< 0.581	< 0.554	< 0.793	< 0.793
PCB-1221 (Aroclor 1221)	< 0.581	< 0.554	< 0.793	< 0.793
PCB-1232 (Aroclor 1232)	< 0.581	< 0.554	< 0.793	< 0.793
PCB-1242 (Aroclor 1242)	< 0.581	< 0.554	< 0.793	< 0.793
PCB-1248 (Aroclor 1248)	< 0.581	< 0.554	< 0.793	< 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	< 0.793
PCB-1268 (Aroclor 1268)	< 0.581	< 0.554	< 0.793	< 0.793
Total PCBs	47.0	39.0	103	
Volatile Organic Compounds, TCLP (mg/L, ppm)				
Benzene, TCLP				
Metals, TCLP (mg/L, ppm)	0.152	0.119	0.904	
Lead, TCLP				
Percent Moisture (%)				
Percent Moisture	43.2	40.5	58.4	

Table Notes:

¹ 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.

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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: Sample Type:	Stockpile 005 ¹		Stockpile 001 ¹
	D9 3-3 005-1 & D9 3-3 005-2	D9 3-4 001-1 & D9 3-4 001-2	
Block ID:	Composite	Composite	
Sample ID:	D9 3-3	D9 3-4	
Sample ID:	CGMN-ESC-D9303005A-0-100819	CGMN-ESC-D9304001A-0-100819	
Laboratory ID:	10136152004	10136152005	
Sample Date & Time:	08/19/2010 11:48	08/19/2010 11:53	
Polychlorinated Biphenyls (mg/kg, ppm)			
PCB-1016 (Aroclor 1016)	< 0.763	< 0.667	< 0.667
PCB-1221 (Aroclor 1221)	< 0.763	< 0.667	< 0.667
PCB-1232 (Aroclor 1232)	< 0.763	< 0.667	< 0.667
PCB-1242 (Aroclor 1242)	< 0.763	< 0.667	< 0.667
PCB-1248 (Aroclor 1248)	< 0.763	< 0.667	< 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	< 0.667
PCB-1268 (Aroclor 1268)	< 0.763	< 0.667	< 0.667
Total PCBs	77.3	31.9	
Volatile Organic Compounds, TCLP (mg/L, ppm)			
Benzene, TCLP	0.734	0.167	
Metals, TCLP (mg/L, ppm)			
Lead, TCLP	---	---	< 0.015
Percent Moisture (%)			
Percent Moisture	56.7	50.5	

Table Notes:

¹ 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 #



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

Stockpile Manifest ID:		Stockpile 002 ¹		Stockpile 003 ¹		Stockpile 004	
Sample Type:		D9 3-4 002-1 & D9 3-4 002-2		D9 3-4 003-1 & D9 3-4 003-2		D9 3-4 004	
Block ID:		Composite		Composite		Composite	
Sample ID:		D9 3-4		D9 3-4		D9 3-4	
Laboratory ID:		CGMN-ESC-D9304002A-0-100820		CGMN-ESC-D9304003A-0-100820		CGMN-ESC-D9304004A-0-100821	
Sample Date & Time:		10136202001		10136202002		10136202003	
		08/20/2010 08:41		08/20/2010 08:50		08/20/2010 09:00	
Polychlorinated Biphenyls (mg/kg, ppm)							
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-1243 (Aroclor 1243)		< 0.576		< 0.585		< 0.351	
PCB-1254 (Aroclor 1254)		48.1		50.5		< 0.351	
PCB-1260 (Aroclor 1260)		4.95		4.64		< 0.351	
PCB-1262 (Aroclor 1262)		< 0.576		< 0.585		< 0.351	
PCB-1268 (Aroclor 1268)		< 0.576		< 0.585		< 0.351	
Total PCBs		53.1		55.1		< 0.351	
Volatile Organic Compounds, TCLP (mg/L, ppm)							
Benzene, TCLP		0.230		0.478		< 0.05	
Metals, TCLP (mg/L, ppm)							
Lead, TCLP		0.015		0.015		< 0.015	
Percent Moisture (%)							
Percent Moisture		42.7		43.6		5.9	

Table Notes:

¹ Stockpile 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.

Z:\m-cottage grow\02_Construction\CFR\Appendices\Appendix D (Sample Results)\CGMN_D9_Excavation_Soil_Block_Data - 3-4_0702-004(w)



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

Stockpile Manifest ID: Sample Type: Block ID: Sample ID: Laboratory ID: Sample Date & Time:	Stockpile 001		Stockpile 001-1 ¹		Stockpile 001-2 ¹	
	D9 2-7 001-1 & D9 2-7 001-2	D9 2-7 001-1 & D9 2-7 001-2	D9 2-7 001-1	D9 2-7 001-1	D9 2-7 001-2	D9 2-7 001-2
	Composite	Composite - Duplicate	Composite	Composite	Composite	Composite
	D9 2-7	D9 2-7	D9 2-7	D9 2-7	D9 2-7	D9 2-7
	CGMN-ESC-D9207001A-0-100730	CGMN-ESC-D9207001A-DB-100730	CGMN-ESC-D9207001D-0-100908	CGMN-ESC-D9207001E-0-100908	CGMN-ESC-D9207001E-0-100908	CGMN-ESC-D9207001E-0-100908
	10134759003	10134759004	10137533001	10137533002	10137533002	10137533002
	07/30/2010 12:13	07/30/2010 12:13	09/08/2010 11:36	09/08/2010 11:36	09/08/2010 11:36	09/08/2010 11:36
Polychlorinated Biphenyls (mg/kg, ppm)						
PCB-1016 (Aroclor 1016)	< 0.711	< 0.460	< 0.460	< 0.460	< 0.460	< 0.460
PCB-1221 (Aroclor 1221)	< 0.711	< 0.460	< 0.460	< 0.460	< 0.460	< 0.460
PCB-1232 (Aroclor 1232)	< 0.711	< 0.460	< 0.460	< 0.460	< 0.460	< 0.460
PCB-1242 (Aroclor 1242)	< 0.711	< 0.460	< 0.460	< 0.460	< 0.460	< 0.460
PCB-1248 (Aroclor 1248)	< 0.711	< 0.460	< 0.460	< 0.460	< 0.460	< 0.460
PCB-1254 (Aroclor 1254)	38.5	29.8	29.8	29.8	29.8	29.8
PCB-1260 (Aroclor 1260)	7.76	6.54	6.54	6.54	6.54	6.54
PCB-1262 (Aroclor 1262)	< 0.711	< 0.460	< 0.460	< 0.460	< 0.460	< 0.460
PCB-1268 (Aroclor 1268)	< 0.711	< 0.460	< 0.460	< 0.460	< 0.460	< 0.460
Total PCB	46.3	36.3	36.3	36.3	36.3	36.3
Volatile Organic Compounds, TCLP (mg/L, ppm)						
Benzene, TCLP	See Note 2	See Note 2	See Note 2	See Note 2	See Note 2	See Note 2
pH (Standard Units)						
pH at 25 Degrees C	7.8	8.9	8.9	8.9	8.9	8.9
Percent Moisture (%)						
Percent Moisture	53.6	23.2	23.2	23.2	23.2	23.2

Table Notes:

- ¹ Sample from the stockpile collected after conditioning the stockpile with Lime Kiln Dust (LKD) to reduce VOCs.
² 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 ¹
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
	8/2/10 11:46	09/08/2010 11:41
Polychlorinated Biphenyls (mg/kg, ppm)		
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	
Volatile Organic Compounds, TCLP (mg/L, ppm)		
Benzene, TCLP	See Note 2	< 0.050
Percent Moisture (%)	68.7	

Table Notes:

- ¹ Sample from the stockpile collected after conditioning the stockpile with Lime Kiln Dust (LKD) to reduce VOCs.
- ² 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.

Z:\3m-cottage grove\03_Construction\CCRAppeals\Appendix D (Sample Results)\CGMN_D9_Excavation_Soil_Block_Data - 2-7_003_PC_(W)



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

Stockpile Manifest ID: Sample Type: Block ID:	Stockpile 003		Stockpile 003-1 ¹ D9 3-1 003-1 Composite D9 3-1	Stockpile 003-2 ² D9 3-1 003-2 Composite D9 3-1
	Sample ID:	Sample ID:		
	Block ID:	Block ID:		
	Sample ID:	Sample ID:		
	Laboratory ID:	Laboratory ID:		
	Sample Date & Time:	Sample Date & Time:		
Polychlorinated Biphenyls (mg/kg, ppm)				
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)				
PCB-1260 (Aroclor 1260)		23.9		
PCB-1262 (Aroclor 1262)		5.34		
PCB-1268 (Aroclor 1268)			<0.615	
Total PCB		29.2		
Volatile Organic Compounds, TCLP (mg/L, ppm)				
Benzene, TCLP		See Note 2	< 0.050	< 0.050
Percent Moisture (%)				
Percent Moisture		46.3		

Table Notes:

- ¹ Sample from the stockpile collected after conditioning to reduce VOCs.
- ² 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	Stockpile 001-1 ¹	Stockpile 001-2 ¹
Sample Type:		D9 3-3 001-1 & D9 3-3 001-2	D9 3-3 001-1	D9 3-3 001-2
Block ID:		Composite	Composite	Composite
Sample ID:		D9 3-3	D9 3-3	D9 3-3
Laboratory ID:		CGMN-ESC-D9303001A-0-100817	CGMN-ESC-D9303001D-0-100908	CGMN-ESC-D9303001E-0-100908
Sample Date & Time:		10135995004	10137533006	10137533007
Sample Date & Time:		08/17/2010 16:26	09/08/2010 09:50	09/08/2010 11:33
Polychlorinated Biphenyls (mg/kg, ppm)				
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	---	---
Volatile Organic Compounds, TCLP (mg/L, ppm)				
Benzene, TCLP		See Note 2	< 0.050	< 0.050
Percent Moisture (%)				
Percent Moisture		61.6	---	---

Table Notes:

- ¹ Sample from the stockpile collected after conditioning the stockpile with Lime Kiln Dust (LKD) to reduce VOCs.
² 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: Sample Type: Block ID: Sample ID: Laboratory ID: Sample Date & Time:	Stockpile 002		Stockpile 002-1 ¹		Stockpile 002-2 ¹	
	D9 3-3 002-1 & D9 3-3 002-2	Composite	D9 3-3 002-1	Composite	D9 3-3 002-2	Composite
	D9 3-3		D9 3-3		D9 3-3	
	CGMN-ESC-D9303002A-0-100817		CGMN-ESC-D9303002D-0-100908		CGMN-ESC-D9303002E-0-100908	
	10135995005		10137533008		10137533009	
	08/17/2010 16:30		09/08/2010 11:30		09/08/2010 11:28	
Polychlorinated Biphenyls (mg/kg, ppm)						
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	< 0.697				
PCB-1260 (Aroclor 1260)						
PCB-1262 (Aroclor 1262)	4.35	< 0.697				
PCB-1268 (Aroclor 1268)		< 0.697				
Total PCBs	45.2					
Volatile Organic Compounds, TCLP (mg/L, ppm)						
Benzene, TCLP	See Note 2				< 0.050	
Percent Moisture (%)						< 0.050
Percent Moisture	52.7					

Table Notes:

- ¹ Sample from the stockpile collected after conditioning the stockpile with Lime Kiln Dust (LKD) to reduce VOCs.
² 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: Sample Type: Block ID:	Stockpile 004		Stockpile 004-1 ¹		Stockpile 004-2 ¹	
	D9 3-3 004-1 & D9 3-3 004-2	Composite	D9 3-3 004-1	Composite	D9 3-3 004-2	Composite
Sample ID: Laboratory ID:	D9 3-3		D9 3-3		D9 3-3	
Sample Date & Time:	CGMN-ESC-D9303004A-0-100819	CGMN-ESC-D9303004D-0-100908	CGMN-ESC-D9303004E-0-100908		CGMN-ESC-D9303004E-0-100908	
	10136152003	10137533010	10137533011		10137533011	
	08/19/2010 11:42	09/08/2010 09:44	09/08/2010 09:38		09/08/2010 09:38	
Polychlorinated Biphenyls (mg/kg, ppm)						
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)						
PCB-1260 (Aroclor 1260)	93.8					
PCB-1262 (Aroclor 1262)	9.16					
PCB-1268 (Aroclor 1268)		< 0.793				
Total PCBs		< 0.793				
	103					
Volatile Organic Compounds, TCLP (mg/L, ppm)						
Benzene, TCLP						
Percent Moisture (%)	See Note 2			< 0.050		< 0.050
Percent Moisture	58.4					

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 3-3 004-1 & 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: Sample Type: Block ID: Sample ID: Laboratory ID: Sample Date & Time:	Stockpile 005		Stockpile 005-1 ¹		Stockpile 005-2 ²	
	D9 3-3 005-1 & D9 3-3 005-2	Composite	D9 3-3 005-1	Composite	D9 3-3 005-2	Composite
		D9 3-3		D9 3-3		D9 3-3
	CGMN-ESC-D9303005A-0-100819	CGMN-ESC-D9303005D-0-100908	CGMN-ESC-D9303005E-0-100908	CGMN-ESC-D9303005E-0-100908	CGMN-ESC-D9303005E-0-100908	CGMN-ESC-D9303005E-0-100908
	10136152004	10137533012	10137533012	10137533012	10137533013	10137533013
	08/19/2010 11:48	09/08/2010 11:25	09/08/2010 11:25	09/08/2010 11:25	09/08/2010 11:23	09/08/2010 11:23
Polychlorinated Biphenyls (mg/kg, ppm)						
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					
Volatile Organic Compounds, TCLP (mg/L, ppm)						
Benzene, TCLP	See Note 2				< 0.050	< 0.050
Percent Moisture (%)						
Percent Moisture	56.7					

Table Notes:

- ¹ Sample from the stockpile collected after conditioning the stockpile with Lime Kiln Dust (LKD) to reduce VOCs.
² 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: Sample Type: Block ID: Sample ID: Laboratory ID:	Stockpile 001		Stockpile 001-1 ¹		Stockpile 001-2 ¹	
	D9 3-6 001-1 & D9 3-6 001-2	Composite	D9 3-6 001-1	Composite - Duplicate	D9 3-6 001-2	Composite
	D9 3-6	D9 3-6	D9 3-6	D9 3-6	D9 3-6	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	10137533015	10137533016	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 09:32	09/08/2010 09:32
Polychlorinated Biphenyls (mg/kg, ppm)						
PCE-1016 (Aroclor 1016)	<0.629					
PCE-1221 (Aroclor 1221)	<0.629					
PCE-1232 (Aroclor 1232)	<0.629					
PCE-1242 (Aroclor 1242)	<0.629					
PCE-1248 (Aroclor 1248)	<0.629					
PCE-1254 (Aroclor 1254)	47.0					
PCE-1260 (Aroclor 1260)	5.36					
PCE-1262 (Aroclor 1262)	<0.629					
PCE-1268 (Aroclor 1268)	<0.629					
Total PCBs	52.4					
Volatile Organic Compounds, TCLP (mg/L, ppm)						
Benzene, TCLP	See Note 2					
Metals, TCLP (mg/L, ppm)						
Lead, TCLP	<0.015					
Mercury, TCLP	<0.0008					
Percent Moisture (%)						
Percent Moisture	47.6					

Table Notes:

- ¹ Sample from the stockpile collected after conditioning the stockpile with Lime Kln Dust (LKD) to reduce VOCs.
² 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 #0135995 & #0137533.



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

Stockpile Manifest ID: Sample Type:	Stockpile 002		Stockpile 002-1 ¹ D9 3-6 002-1 Composite D9 3-6	Stockpile 002-2 ¹ D9 3-6 002-2 Composite D9 3-6
	Block ID:	Sample ID:		
		Laboratory ID:		
		Sample Date & Time:		
Polychlorinated Biphenyls (mg/kg, ppm)				
	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		
Volatile Organic Compounds, TCLP (mg/L, ppm)				
	Benzene, TCLP			< 0.050
Metals, TCLP (mg/L, ppm)				
	Lead, TCLP			
	Mercury, TCLP			
Percent Moisture (%)				
	Percent Moisture	56.2		

Table Notes:

- ¹ Sample from the stockpile collected after conditioning the stockpile with Lime Kiln Dust (LKD) to reduce VOCs.
² 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 QAD by J. Savage of WESTON on 09/15/2010.
 Analytical data provided in Pace Analytical Services data package #10135995 & #10137533.



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

Stockpile Manifest ID: Sample Type: Block ID: Sample ID: Laboratory ID: Sample Date & Time:	Stockpile 003		Stockpile 003-1 ¹	Stockpile 003-2 ²
	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	Composite
		D9 3-6	D9 3-6	D9 3-6
		CGMN-ESC-D9306003A-0-100817	CGMN-ESC-D9306003D-0-100908	CGMN-ESC-D9306003E-0-100908
		10135995003	10137533019	10137533020
		08/17/2010 16:15	09/08/2010 09:12	09/08/2010 09:07
Polychlorinated Biphenyls (mg/kg, ppm)				
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			
Volatile Organic Compounds, TCLP (mg/L, ppm)				
Benzene, TCLP	See Note 2		< 0.050	< 0.050
Metals, TCLP (mg/L, ppm)				
Lead, TCLP		< 0.015		
Mercury, TCLP		< 0.0008		
Percent Moisture (%)				
Percent Moisture	60.5			

Table Notes:

- ¹ Sample from the stockpile collected after conditioning the stockpile with Lime Kiln Dust (LKD) to reduce VOCs.
² 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

3M_MN00717027

2318.0156



Table 1: SKB Clean Fill Soils Analytical Data
July 2009

Sample ID: Laboratory ID: Sample Date:	OKMN-SS-SKB01-0-090723 1099973001 23-Jul-09	OKMN-SS-SKB02-0-090723 1099973002 23-Jul-09	OKMN-SS-SKB03-0-090723 1099973003 23-Jul-09	OKMN-SS-SKB03-DB-090723 1099973004 23-Jul-09	OKMN-SS-SKB04-0-090723 1099973005 23-Jul-09
Volatile Organic Compounds (mg/kg, ppm)					
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
Polychlorinated Biphenyls (PCBs) (mg/kg, ppm)					
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
Pesticides and Herbicides (mg/kg, ppm)					
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
3,8,4-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
Metals (mg/kg, ppm)					
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		< 0.046
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
Volatile Organic Compounds (mg/kg, ppm)		
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
Polychlorinated Biphenyls (PCBs) (mg/kg, ppm)		
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
Pesticides and Herbicides (mg/kg, ppm)		
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
Metals (mg/kg, ppm)		
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
Percent Moisture (%)		
Percent Moisture	6.2	4.3

PAINT FILTER TEST SAMPLING RESULTS

3M_MN00717030



**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
Soil Block: D9 1-1						
CGMN-ESC-D9101PF1A-0-100701	01-Jul-10	9:49	1A	N	ND	7.7
Soil Block: D9 1-2						
CGMN-ESC-D9102PF1A-0-100701	01-Jul-10	9:46	1A	N	ND	7.4
Soil Block: D9 1-3						
CGMN-ESC-D9103PF1A-0-100701	01-Jul-10	10:05	1A	N	ND	8.4
Soil Block: D9 1-4						
CGMN-ESC-D9104PF1A-0-100701	01-Jul-10	9:42	1A	N	ND	7.4
Soil Block: D9 1-5						
CGMN-ESC-D9105PF1A-0-100701	01-Jul-10	10:12	1A	N	ND	7.6
Soil Block: D9 1-6						
CGMN-ESC-D9106PF1A-0-100701	01-Jul-10	10:08	1A	N	ND	7.4
Soil Block: D9 1-7						
CGMN-ESC-D9107PF1A-0-100701	01-Jul-10	10:15	1A	N	ND	7.2
Soil Block: D9 1-8						
CGMN-ESC-D9108PF1A-0-100701	01-Jul-10	9:51	1A	N	ND	7.4
Soil Block: D9 1-9						
CGMN-ESC-D9109PF1A-0-100701	01-Jul-10	9:59	1A	N	ND	7.0
Soil Block: D9 1-10						
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
Soil Block: D9 2-1						
CGMN-ESC-D9201PF1A-0-100721	21-Jul-10	8:35	1A	N	ND	8.0
Soil Block: D9 2-2						
CGMN-ESC-D9202PF1A-0-100721	21-Jul-10	8:40	1A	N	ND	7.2
Soil Block: D9 2-3						
CGMN-ESC-D9203PF1A-0-100721	21-Jul-10	8:45	1A	N	ND	8.0
Soil Block: D9 2-4						
CGMN-ESC-D9204PF1A-0-100721	21-Jul-10	8:48	1A	N	ND	8.0
Soil Block: D9 2-5						
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
Soil Block: D9 2-6						
CGMN-ESC-D9206PF1A-0-100721	21-Jul-10	8:56	1A	N	ND	8.0
Soil Block: D9 2-7						
CGMN-ESC-D9207PF1A-0-100721	21-Jul-10	9:00	1A	N	ND	7.1
Soil Block: D9 2-8						
CGMN-ESC-D9208PF1A-0-100721	21-Jul-10	9:04	1A	N	ND	7.6
Soil Block: D9 2-9						
CGMN-ESC-D9209PF1A-0-100721	21-Jul-10	9:09	1A	N	ND	6.9
Soil Block: D9 3-1						
CGMN-ESC-D9301PF1A-0-100805	05-Aug-10	11:36	1A	N	ND	6.9
Soil Block: D9 3-2						
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
Soil Block: D9 3-3						
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
Soil Block: D9 3-4						
CGMN-ESC-D9304PF1A-0-100805	05-Aug-10	11:31	1A	N	ND	7.2
Soil Block: D9 3-5						
CGMN-ESC-D9305PF1A-0-100805	05-Aug-10	11:18	1A	N	ND	7.8
Soil Block: D9 3-6						
CGMN-ESC-D9306PF1A-0-100805	05-Aug-10	11:27	1A	N	ND	7.6
Soil Block: D9 3-7						
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

APPENDIX E
CONSTRUCTION DOCUMENTATION

APPENDIX E-1
LANDFILL LOAD ACCEPTANCE SUMMARIES

EQ LOAD ACCEPTANCE SUMMARIES

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
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
1189688-1	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

10/13/2010

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3M_MN00717037

2318.0166

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	9/29/2010
1190042-1	007755489JJK 3260	3M - COTTAGE GROVE	MND006172969	3M COTTAGE GROVE	F104077WDI	PCB1	TONS	21.92	Accepted	9/29/2010
1190043-1	007755482JJK 3260	3M - COTTAGE GROVE	MND006172969	3M COTTAGE GROVE	F104077WDI	PCB1	TONS	22.49	Accepted	9/29/2010
1190102-1	007755490JJK 3260	3M - COTTAGE GROVE	MND006172969	3M COTTAGE GROVE	F104077WDI	PCB1	TONS	22.88	Accepted	9/30/2010
1190131-1	007755496JJK 3260	3M - COTTAGE GROVE	MND006172969	3M COTTAGE GROVE	F104077WDI	PCB1	TONS	22.63	Accepted	9/30/2010
1190134-1	007755498JJK 3260	3M - COTTAGE GROVE	MND006172969	3M COTTAGE GROVE	F104077WDI	PCB1	TONS	22.52	Accepted	9/30/2010
1190144-1	007755494JJK 3260	3M - COTTAGE GROVE	MND006172969	3M COTTAGE GROVE	F104077WDI	PCB1	TONS	23.47	Accepted	9/30/2010
1190146-1	007755475JJK 3260	3M - COTTAGE GROVE	MND006172969	3M COTTAGE GROVE	F104077WDI	PCB1	TONS	23.09	Accepted	9/30/2010
1190359-1	007796734JJK 3260	3M - COTTAGE GROVE	MND006172969	3M COTTAGE GROVE	F104077WDI	PCB1	TONS	24.47	Accepted	10/4/2010
1190401-1	007755500JJK 3260	3M - COTTAGE GROVE	MND006172969	3M COTTAGE GROVE	F104077WDI	PCB1	TONS	22.89	Accepted	10/4/2010
1190404-1	007755497JJK 3260	3M - COTTAGE GROVE	MND006172969	3M COTTAGE GROVE	F104077WDI	PCB1	TONS	23.24	Accepted	10/4/2010
1190405-1	007755495JJK 3260	3M - COTTAGE GROVE	MND006172969	3M COTTAGE GROVE	F104077WDI	PCB1	TONS	23.41	Accepted	10/4/2010
1190488-1	007796731JJK 3260	3M - COTTAGE GROVE	MND006172969	3M COTTAGE GROVE	F104077WDI	PCB1	TONS	21.82	Accepted	10/5/2010
1190653-1	007755491JJK 3260	3M - COTTAGE GROVE	MND006172969	3M COTTAGE GROVE	F104077WDI	PCB1	TONS	23.23	Accepted	10/7/2010
1190660-1	007755493JJK 3260	3M - COTTAGE GROVE	MND006172969	3M COTTAGE GROVE	F104077WDI	PCB1	TONS	23.56	Accepted	10/7/2010
1190667-1	007755499JJK 3260	3M - COTTAGE GROVE	MND006172969	3M COTTAGE GROVE	F104077WDI	PCB1	TONS	23.06	Accepted	10/7/2010
1190792-1	007796730JJK 3260	3M - COTTAGE GROVE	MND006172969	3M COTTAGE GROVE	F104077WDI	PCB1	TONS	22.78	Accepted	10/11/2010
1190794-1	007796733JJK 3260	3M - COTTAGE GROVE	MND006172969	3M COTTAGE GROVE	F104077WDI	PCB1	TONS	22.59	Accepted	10/11/2010
1190795-1	007796732JJK 3260	3M - COTTAGE GROVE	MND006172969	3M COTTAGE GROVE	F104077WDI	PCB1	TONS	22.87	Accepted	10/11/2010
1190803-1	007755487JJK 3260	3M - COTTAGE GROVE	MND006172969	3M COTTAGE GROVE	F104077WDI	PCB1	TONS	23.40	Accepted	10/11/2010
Total quantity for bill unit TONS:							1,262.88			

10/13/2010

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3M_MN00717038

2318.0167

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
Total quantity for bill unit TONS:							44.26			

SKB LOAD ACCEPTANCE SUMMARIES

3M_MN00717040



ROSEMOUNT INDUSTRIAL

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 & 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	21.69
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	23.69
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: **Tons Each Load By WSID**
 DESCRIPTION: **Tonnage for EACH LOAD, grouped by customer**
 DATE RANGE: **07/14/2010 to 07/14/2010**
 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
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 & 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



ROSEMOUNT INDUSTRIAL

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 & 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



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 & 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 & 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

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 & 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



ROSEMOUNT INDUSTRIAL

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

Page 1 of 1

3M_MN00717052

2318.0181



ROSEMOUNT INDUSTRIAL

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
25667 (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 & 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	22.00
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	25.60
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	25.40
29463 (A)	743863	9/24/2010	MI10-0093	Cottage Grove Soil - D9 Area	3M	Z4	870	23.36
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
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
29548 (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~~



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 & 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
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)	743868	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	Y0	870	24.46
29506 (A)	743877	9/24/2010	MI10-0093	Cottage Grove Soil - D9 Area	3M	Y6	870	23.48
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	23.60
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	Z8	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
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~~



ROSEMOUNT INDUSTRIAL

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

APPENDIX E-2
UNIFORM HAZARDOUS WASTE MANIFESTS (EQ 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

(provided on disk at the end of the report)

Appendix F

APPENDIX F
FIELD SAMPLING SHEETS

BLOCK NO: D9 1-2SAMPLE DATE: 7/1/2010STOCKPILE NO: N/ABLOCK PARAMETERS: Paint Filter Test / pHWeather: Clear (☒) Cloudy (☐) Rain/Snow (☐) Windy (☐) TEMP.: 61 °F

Stockpile Description (Check all that apply)

(☒) Soil(☐) C&D Debris (Concrete, Asphalt, etc)(☐) Mfg. Debris(☐) StainingSoil Moisture: (☐) Dry(☒) Moist(☐) WetOdor: 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-0-100701Sample Time: 9:46Sample Parameters: Paint Filter / pHSampled 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)

3M_MN00717063

2318.0192

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

BLOCK NO:	<u>D9 1-4</u>	SAMPLE DATE:	<u>7/1/2010</u>
STOCKPILE NO:	<u>N/A</u>	BLOCK PARAMETERS:	<u>Paint Filter Test / pH</u>

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.

D9 1-4

X Composite Location for "1A" Sample

1A CGMN-ESC-D9104PF1A-0-100701

Sample Time: 9:42

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)

3M_MN00717065

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.

D9 1-5

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)

3M_MN00717066

2318.0195

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.

D9 1-7	SAMPLE DATA
	1A CGMN-ESC-D9107PF1A-0-100701
	Sample Time: <u>10:15</u> Sample Parameters: <u>Paint Filter / pH</u> Sampled By: <u>W. Westley</u> **In-Place Sample Before Lime Kiln Dust was Added** <u>SAMPLE TAKEN @ 2-3' DEEP</u>
	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)

3M_MN00717068

2318.0197

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.

D9 1-8

X Composite Location for "1A" Sample

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: _____

RINSATE SAMPLE:

from

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

3M_MN00717069

2318.0198

BLOCK NO: D9 1-9SAMPLE DATE: 7/1/2010STOCKPILE NO: N/ABLOCK PARAMETERS: Paint Filter Test / pHWeather: Clear (☒) Cloudy (☐) Rain/Snow (☐) Windy (☐) TEMP.: 61 °F

Stockpile Description (Check all that apply)

(☒) Soil(☐) C&D Debris (Concrete, Asphalt, etc)(☐) Mfg. Debris(☐) StainingSoil Moisture: (☐) Dry(☒) Moist(☐) WetOdor: 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.

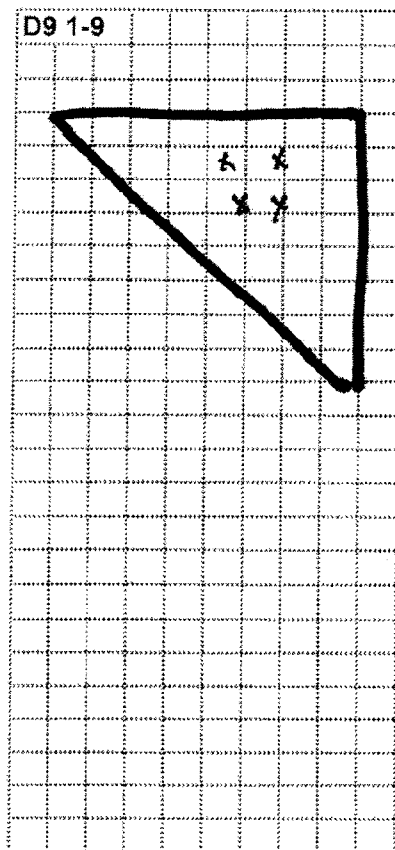
SAMPLE DATA

1A CGMN-ESC-D9109PF1A-0-100701Sample Time: 9:59Sample Parameters: Paint Filter / pHSampled By: W. Westley

In-Place Sample Before Lime Kiln Dust was Added

SAMPLE TAKEN @ 2-3' DEEP

↑ N



X Composite Location for "1A" Sample

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)

3M_MN00717070

2318.0199

BLOCK NO: D9 1-10SAMPLE DATE: 7/1/2010STOCKPILE NO: N/ABLOCK PARAMETERS: Paint Filter Test / pHWeather: 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-0-100701CGMN-ESC-D9110PF1A-DB-100701Sample Time: 10:18Sample Parameters: Paint Filter / pHSampled 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: _____

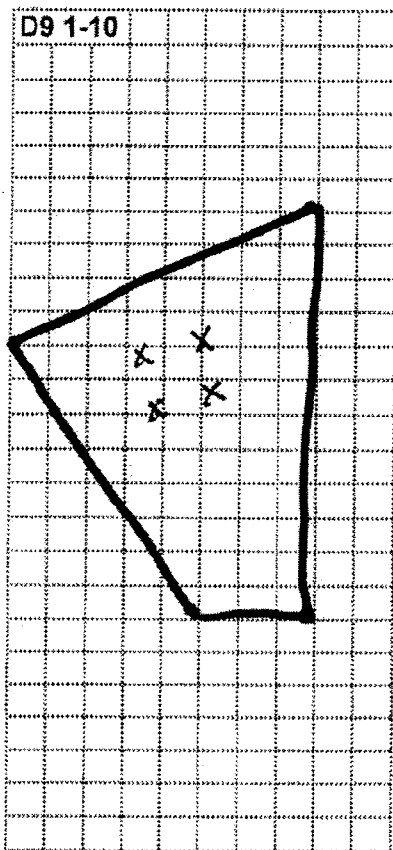
Sample Parameters: _____

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)

3M_MN00717071

2318.0200

SAMPLE DATE: 7/13/2010

BLOCK PARAMETERS: TCLP Metals

Weather: Clear (X) Cloudy () Rain/Snow () Windy () **TEMP.:** 73 °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 () 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-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 Times:

Sample Parameters:

Sampled By:

 Composite Location for "A" Sample

RINSATE SAMPLE:

from

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

3M MN00717072

2318.0201

BLOCK NO: D9 1-3SAMPLE DATE: 7/16/2010STOCKPILE NO: 001BLOCK PARAMETERS: P, TCLP METALS (Pb Only)Weather: Clear (☒) Cloudy (☐) Rain/Snow (☐) Windy (☐) TEMP.: 83 °F

Stockpile Description (Check all that apply)

(☒) Soil(☒) C&D Debris (Concrete, Asphalt, etc)(☒) Mfg. Debris(☒) StainingSoil Moisture: (☒) Dry(☐) Moist(☐) WetOdor: 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-D9103001A-0-100716Sample Time: 11:45Sample Parameters: P & TCLP PbSampled By: R. McLoughlin, W. Westley

Sample Time: _____

Sample Parameters: _____

Sampled By: _____

Sample Time: _____

Sample Parameters: _____

Sampled By: _____

Sample Time: _____

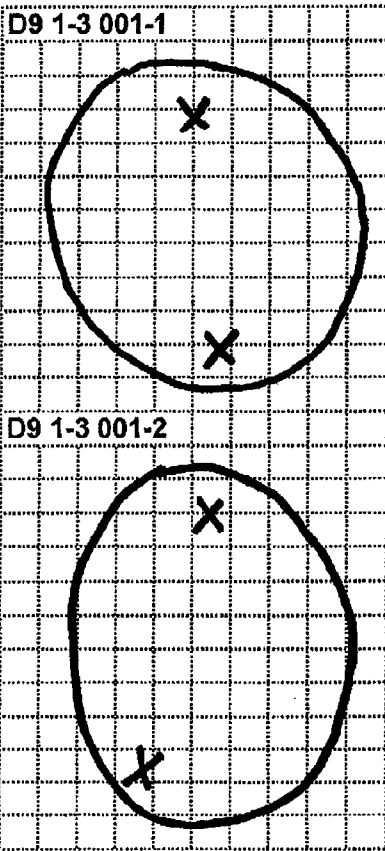
Sample Parameters: _____

Sampled By: _____

↑ N

D9 1-3 001-1

D9 1-3 001-2

X Composite Location for "A" Sample

RINSATE SAMPLE:

from

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

3M_MN00717073

2318.0202

BLOCK NO: <u>D9 1-3</u>	SAMPLE DATE: <u>7/16/2010</u>
STOCKPILE NO: <u>003</u>	BLOCK PARAMETERS: <u>P, TCLP METALS (Pb Only)</u>

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)

3M_MN00717075

BLOCK NO: <u>D9 1-3</u>	SAMPLE DATE: <u>7/16/2010</u>
STOCKPILE NO: <u>004</u>	BLOCK PARAMETERS: <u>P, TCLP METALS (Pb Only)</u>

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.

D9 1-3 004

Composite Location for "A" Sample

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: _____

RINSATE SAMPLE: _____ **from** _____

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

3M_MN00717076

BLOCK NO: D9 1-2SAMPLE DATE: 7/20/2010STOCKPILE NO: -BLOCK PARAMETERS: PFCsWeather: Clear (☒) Cloudy (☐) Rain/Snow (☐) Windy (☐) TEMP.: 77 °F

Stockpile Description (Check all that apply)

(☒) Soil(☐) C&D Debris (Concrete, Asphalt, etc)(☐) Mfg. Debris(☐) StainingSoil Moisture: (☒) Dry(☐) Moist(☐) WetOdor: 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: 10:50Sample Parameters: PFCsSampled 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:

3M_MN00717077

2318.0206

SAMPLE DATE: 7/21/2010

BLOCK PARAMETERS: Paint Filter Test, pH

Weather: Clear (X) Cloudy () Rain/Snow () Windy () TEMP.: 72 °F

Stockpile Description (Check all that apply)

Soil Moisture: () Dry

(X) Soil

() Moist

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

(X) Wet

() Mfg. Debris

Odor: Strong () Mild () None (X)

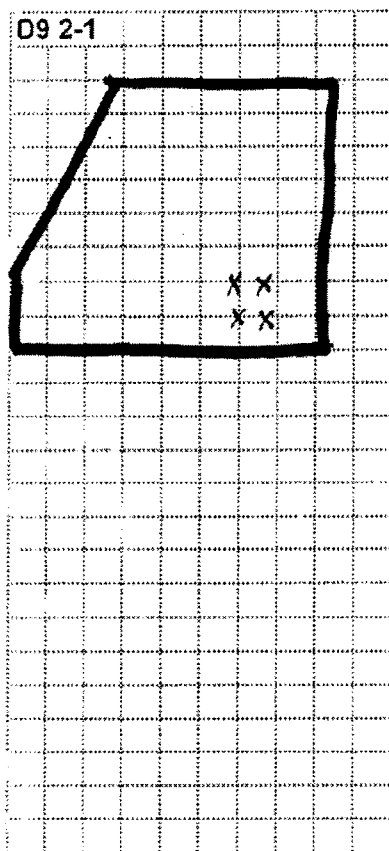
(X) Staining

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-D9201PF1A-0-100721



X Composite Location for "A" Sample

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);

3M MN00717078

2318.0207

BLOCK NO: D9 2-2SAMPLE DATE: 7/21/2010STOCKPILE NO: -BLOCK PARAMETERS: Paint Filter Test, pHWeather: 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(☒) StainingOdor: 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-0-100721Sample Time: 8:40Sample Parameters: Paint Filter / pHSampled By: R. McLoughlin, W. Westley

Sample Time: _____

Sample Parameters: _____

Sampled By: _____

Sample Time: _____

Sample Parameters: _____

Sampled By: _____

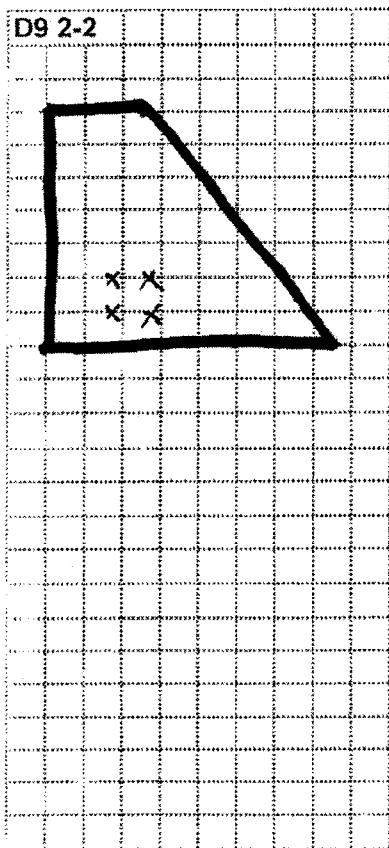
Sample Time: _____

Sample Parameters: _____

Sampled By: _____

D9 2-2

↑ N



X Composite Location for "A" Sample

RINSATE SAMPLE:

from

Parameters:

B (Benzene); X (Total Xylenes); T (Toluene); P (PCBs); PCE (Tetrachloro ethylene);

BLOCK NO: <u>D9 2-3</u>	SAMPLE DATE: <u>7/21/2010</u>
STOCKPILE NO: <u>-</u>	BLOCK PARAMETERS: <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.

D9 2-3

X Composite Location for "A" Sample

SAMPLE DATA

A **CGMN-ESC-D9203PF1A-0-100721**

Sample Time: 8:45

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 2-4SAMPLE DATE: 7/21/2010STOCKPILE NO: -BLOCK PARAMETERS: Paint Filter Test, pHWeather: Clear (☒) Cloudy (☐) Rain/Snow (☐) Windy (☐) TEMP.: 72 °F

Stockpile Description (Check all that apply)

(☒) Soil(☐) C&D Debris (Concrete, Asphalt, etc)(☐) Mfg. Debris(☒) StainingSoil Moisture: (☐) Dry(☐) Moist(☒) WetOdor: 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-0-100721Sample Time: 8:48Sample Parameters: Paint Filter / pHSampled By: R. McLoughlin, W. Westley

Sample Time: _____

Sample Parameters: _____

Sampled By: _____

Sample Time: _____

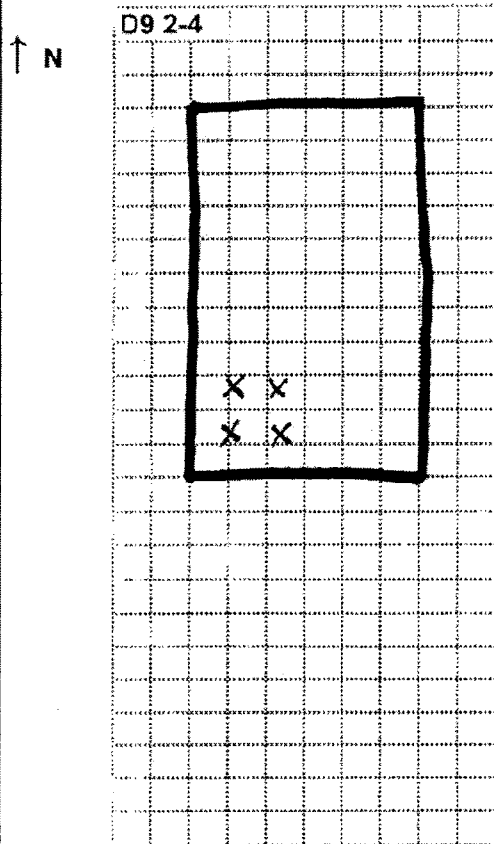
Sample Parameters: _____

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: <u>D9 2-5</u>	SAMPLE DATE: <u>7/21/2010</u>
STOCKPILE NO: <u>-</u>	BLOCK PARAMETERS: <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.

D9 2-5

X Composite Location for "A" Sample

SAMPLE DATA

A **CGMN-ESC-D9205PF1A-0-100721**
CGMN-ESC-D9205PF1A-DB-100721

Sample Time: 8:52
 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);

3M_MN00717082

BLOCK NO: D9 2-6SAMPLE DATE: 7/21/2010STOCKPILE NO: -BLOCK PARAMETERS: Paint Filter Test, pHWeather: Clear (☒) Cloudy (☐) Rain/Snow (☐) Windy (☐) TEMP.: 72 °F

Stockpile Description (Check all that apply)

(☒) Soil(☒) C&D Debris (Concrete, Asphalt, etc)(☒) Mfg. Debris(☒) StainingSoil Moisture: (☐) Dry(☒) Moist(☐) WetOdor: 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-0-100721Sample Time: 8:56Sample Parameters: Paint Filter / pHSampled By: R. McLoughlin, W. Westley

Sample Time: _____

Sample Parameters: _____

Sampled By: _____

Sample Time: _____

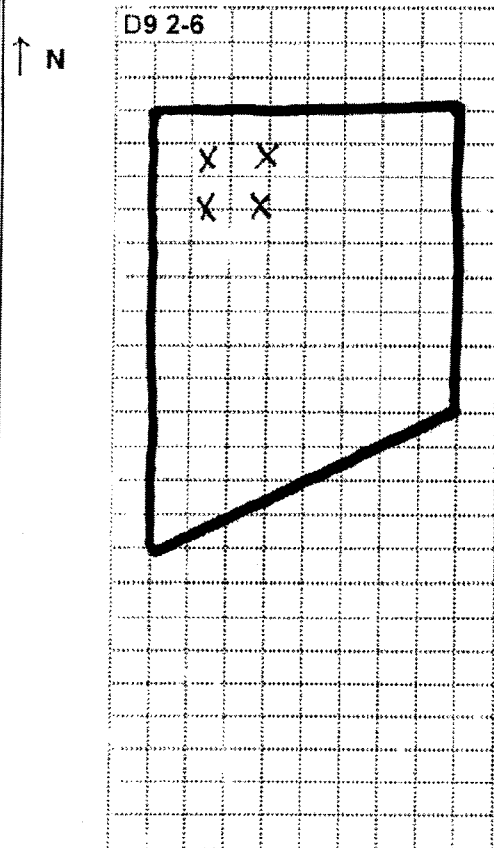
Sample Parameters: _____

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 2-7SAMPLE DATE: 7/21/2010STOCKPILE NO: -BLOCK PARAMETERS: Paint Filter Test, pHWeather: Clear (☒) Cloudy (☐) Rain/Snow (☐) Windy (☐) TEMP.: 72 °F

Stockpile Description (Check all that apply)

(☒) Soil(☒) C&D Debris (Concrete, Asphalt, etc)(☒) Mfg. Debris(☒) StainingSoil Moisture: (☐) Dry(☒) Moist(☐) WetOdor: 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-D9207PF1A-0-100721Sample Time: 9:00Sample Parameters: Paint Filter / pHSampled By: R. McLoughlin, W. Westley

Sample Time: _____

Sample Parameters: _____

Sampled By: _____

Sample Time: _____

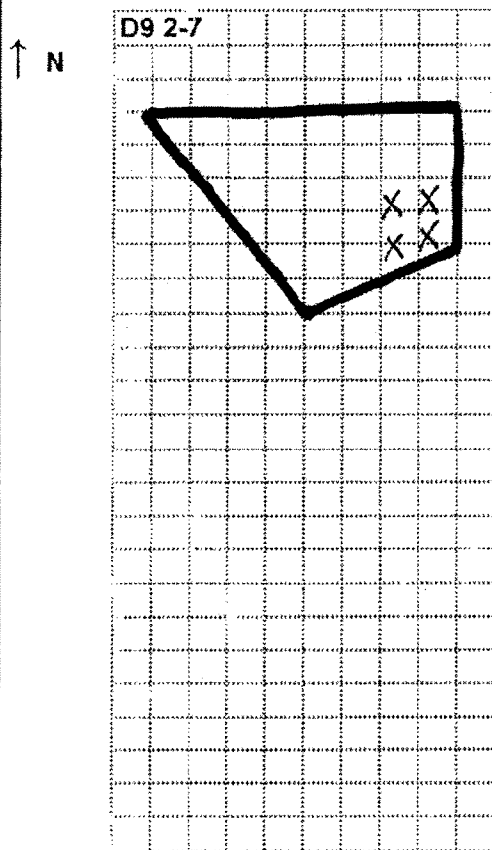
Sample Parameters: _____

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);

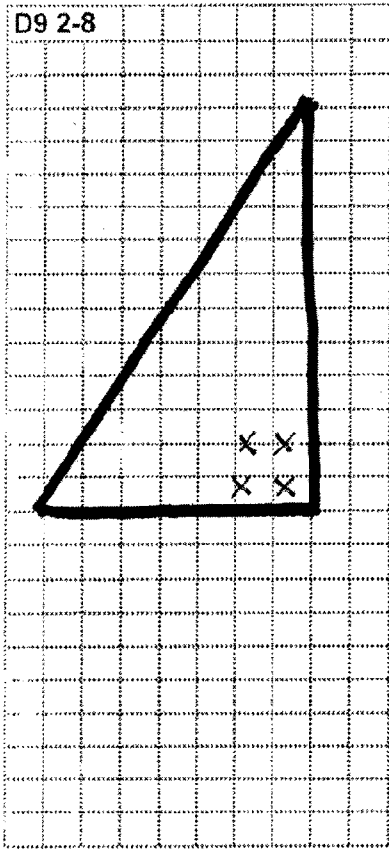
BLOCK NO: <u>D9 2-8</u>	SAMPLE DATE: <u>7/21/2010</u>
STOCKPILE NO: <u>-</u>	BLOCK PARAMETERS: <u>Paint Filter Test, pH</u>

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.

SAMPLE DATA																																	
↑ N D9 2-8 	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%; text-align: center;">A</td> <td style="width: 95%;">CGMN-ESC-D9208PF1A-0-100721</td> </tr> <tr> <td colspan="2">Sample Time: <u>9:04</u></td> </tr> <tr> <td colspan="2">Sample Parameters: <u>Paint Filter / pH</u></td> </tr> <tr> <td colspan="2">Sampled By: <u>R. McLoughlin, W. Westley</u></td> </tr> <tr> <td colspan="2"> </td> </tr> <tr> <td colspan="2">Sample Time: <u> </u></td> </tr> <tr> <td colspan="2">Sample Parameters: <u> </u></td> </tr> <tr> <td colspan="2">Sampled By: <u> </u></td> </tr> <tr> <td colspan="2"> </td> </tr> <tr> <td colspan="2">Sample Time: <u> </u></td> </tr> <tr> <td colspan="2">Sample Parameters: <u> </u></td> </tr> <tr> <td colspan="2">Sampled By: <u> </u></td> </tr> <tr> <td colspan="2"> </td> </tr> <tr> <td colspan="2">Sample Time: <u> </u></td> </tr> <tr> <td colspan="2">Sample Parameters: <u> </u></td> </tr> <tr> <td colspan="2">Sampled By: <u> </u></td> </tr> </table>	A	CGMN-ESC-D9208PF1A-0-100721	Sample Time: <u>9:04</u>		Sample Parameters: <u>Paint Filter / pH</u>		Sampled By: <u>R. McLoughlin, W. Westley</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>	
A	CGMN-ESC-D9208PF1A-0-100721																																
Sample Time: <u>9:04</u>																																	
Sample Parameters: <u>Paint Filter / pH</u>																																	
Sampled By: <u>R. McLoughlin, W. Westley</u>																																	
Sample Time: <u> </u>																																	
Sample Parameters: <u> </u>																																	
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Sampled By: <u> </u>																																	
Sample Time: <u> </u>																																	
Sample Parameters: <u> </u>																																	
Sampled By: <u> </u>																																	

X Composite Location for "A" Sample

RINSATE SAMPLE:	from
-----------------	------

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

BLOCK NO: <u>D9 2-7</u>	SAMPLE DATE: <u>7/30/2010</u>
STOCKPILE NO: <u>001</u>	BLOCK PARAMETERS: <u>PCB/TCLP Benzene/pH</u>

Weather: Clear () Cloudy (☒) Rain/Snow () Windy () **TEMP.:** 72.2 °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.

*Composite Location for TCLP/PCB_s

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

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: <u>D9 2-9</u>	SAMPLE DATE: <u>7/30/2010</u>
STOCKPILE NO: <u>001</u>	BLOCK PARAMETERS: <u>PCB/TCLP Benzene</u>

Weather: Clear () Cloudy (☒) Rain/Snow () Windy () **TEMP.:** 72.2 °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-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: _____

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 2-9SAMPLE DATE: 7/30/2010STOCKPILE NO: 002BLOCK PARAMETERS: PCB/TCLP BenzeneWeather: Clear () Cloudy (☒) Rain/Snow () Windy () TEMP.: 72.2 °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

A CGMN-ESC-D9209002A-0-100730Sample Time: 12:04Sample Parameters: PCB/TCLP BenzeneSampled By: D. Armstrong

Sample Time: _____

Sample Parameters: _____

Sampled By: _____

Sample Time: _____

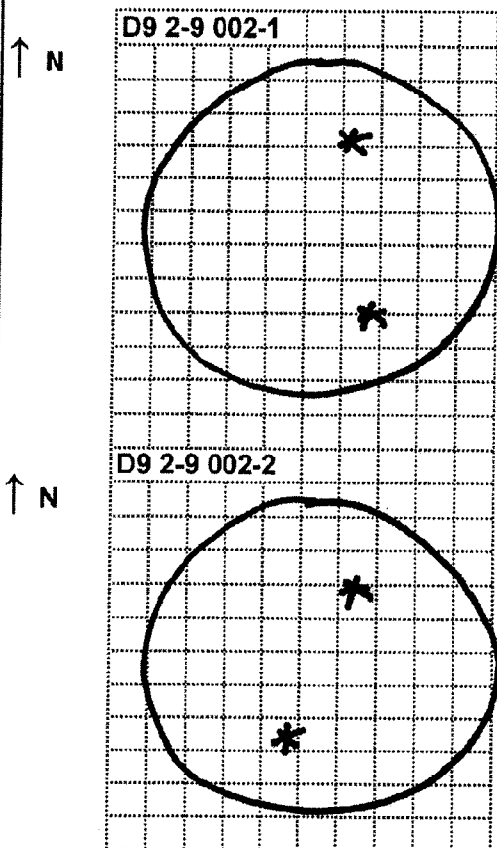
Sample Parameters: _____

Sampled By: _____

Sample Time: _____

Sample Parameters: _____

Sampled By: _____

* Composite Location for TCLP/PCB_s

RINSATE SAMPLE:

from

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

3M_MN00717092

2318.0221

BLOCK NO: <u>D9 1-9</u>	SAMPLE DATE: <u>8/2/2010</u>
STOCKPILE NO: <u>001</u>	BLOCK PARAMETERS: <u>TCLP VOCs (Benzene & PCE)/pH</u>

Weather: Clear () Cloudy (☒) Rain/Snow () Windy () **TEMP.:** 81.4 °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 1-9 001-1

D9 1-9 001-2

▲ Composite Location for "D" Sample.
● Composite Location for "E" Sample.

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: _____

RINSATE SAMPLE: _____ **from** _____

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

3M_MN00717093

BLOCK NO: D9 1-9SAMPLE DATE: 8/2/2010STOCKPILE NO: 002BLOCK PARAMETERS: TCLP VOCs (Benzene & PCE)/pHWeather: Clear () Cloudy (☒) Rain/Snow () Windy () TEMP.: 81.4 °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

D CGMN-ESC-D9109002D-0-100802Sample Time: 12:12Sample Parameters: TCLP VOCs (Benzene & PCE)/pHSampled By: D. ArmstrongE CGMN-ESC-D9109002E-0-100802Sample Time: 12:16Sample Parameters: TCLP VOCs (Benzene & PCE)Sampled By: D. Armstrong

Sample Time: _____

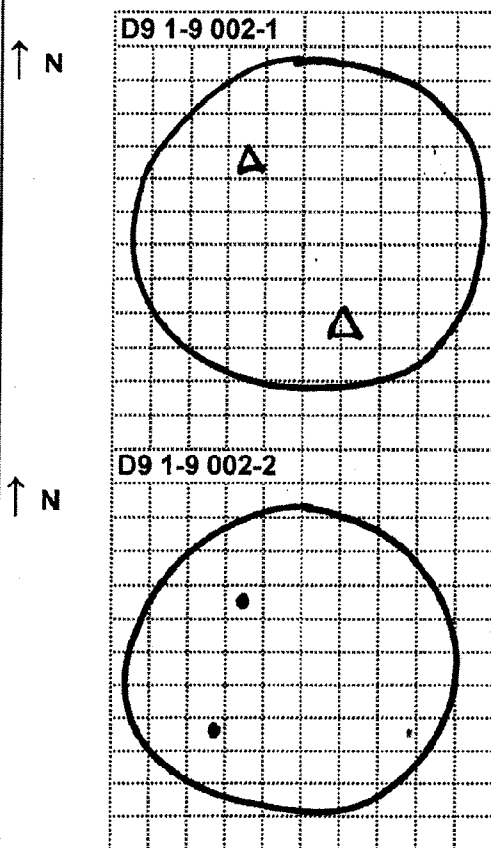
Sample Parameters: _____

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 2-4SAMPLE DATE: 8/2/2010STOCKPILE NO: 001BLOCK PARAMETERS: PCBsWeather: Clear () Cloudy (☒) Rain/Snow () Windy () TEMP.: 81.4 °F

Stockpile Description (Check all that apply)

☒ Soil☐ C&D Debris (Concrete, Asphalt, etc)☐ Mfg. Debris☐ StainingSoil Moisture: ☒ Dry☐ Moist☐ WetOdor: 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-D9204001A-0-100802Sample Time: 11:55Sample Parameters: PCBsSampled By: D. Armstrong

Sample Time: _____

Sample Parameters: _____

Sampled By: _____

Sample Time: _____

Sample Parameters: _____

Sampled By: _____

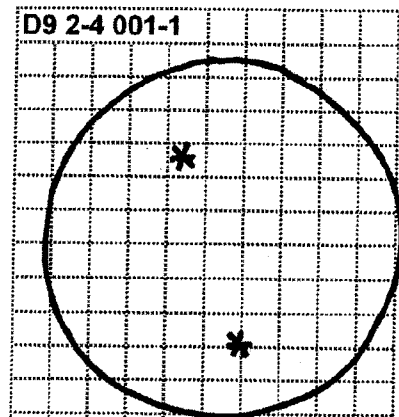
Sample Time: _____

Sample Parameters: _____

Sampled By: _____

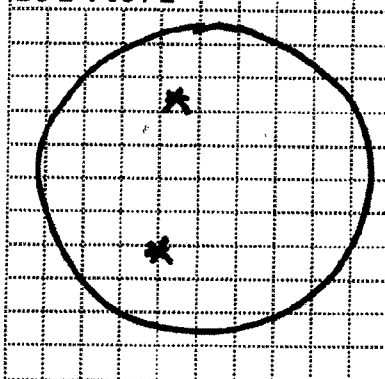
↑ N

D9 2-4 001-1



↑ N

D9 2-4 001-2



* Composite Location for PCBs.

RINSATE SAMPLE:

from

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

3M_MN00717095

2318.0224

BLOCK NO: D92-7SAMPLE DATE: 8/2/2010STOCKPILE NO: 003BLOCK PARAMETERS: TCLP VOC (Benzene)/PCBsWeather: Clear () Cloudy (☒) Rain/Snow () Windy () TEMP.: 81.4 °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-0-100802Sample Time: 11:46Sample Parameters: TCLP VOCs (Benzene)/PCBsSampled By: D. Armstrong

Sample Time: _____

Sample Parameters: _____

Sampled By: _____

Sample Time: _____

Sample Parameters: _____

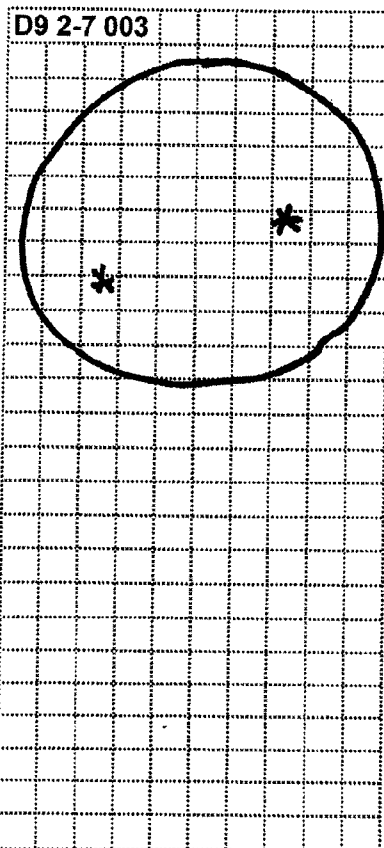
Sampled By: _____

Sample Time: _____

Sample Parameters: _____

Sampled By: _____

↑ N



* Composite Location for TCLP VOCs & PCBs.

RINSATE SAMPLE:

from

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

BLOCK NO: D9 2-4SAMPLE DATE: 8/4/2010STOCKPILE NO: 002BLOCK PARAMETERS: PCBsWeather: 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: 8:00Sample Parameters: PCBsSampled By: D. Armstrong

Sample Time: _____

Sample Parameters: _____

Sampled By: _____

Sample Time: _____

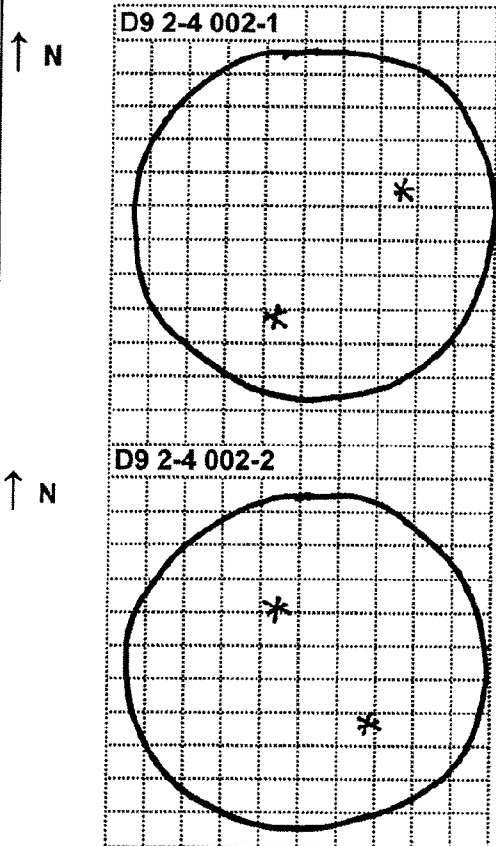
Sample Parameters: _____

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: <u>D9 2-4</u>	SAMPLE DATE: <u>8/4/2010</u>
STOCKPILE NO: <u>003</u>	BLOCK PARAMETERS: <u>PCBs</u>

Weather: Clear () Cloudy (☒) Rain/Snow () Windy () **TEMP.:** 71.0 °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.

* 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****

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:	<u>D9 3-1</u>	SAMPLE DATE:	<u>8/5/2010</u>
STOCKPILE NO:	<u>N/A</u>	BLOCK PARAMETERS:	<u>Paint Filter / pH</u>

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.

D9 3-1

*Composite Location for Paint Filter/pH Sample

SAMPLE DATA

A **CGMN-ESC-D9301PF1A-0-100805**

Sample Time: 1136
 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 DIA~~

RINSATE SAMPLE: _____ from _____

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

BLOCK NO: <u>D9 3-2</u>	SAMPLE DATE: <u>8/5/2010</u>
STOCKPILE NO: <u>N/A</u>	BLOCK PARAMETERS: <u>Paint Filter / pH</u>

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.

D9 3-2 ↑ N Benzene Dräger Tube Reading Location ▶ * Composite Location for Paint Filter/pH Sample	SAMPLE DATA A <u>CGMN-ESC-D9302PF1A-0-100805</u> Sample Time: <u>1140</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: _____
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RINSATE SAMPLE: _____ **from** _____

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

BLOCK NO: D9 3-3SAMPLE DATE: 8/5/2010STOCKPILE NO: N/ABLOCK PARAMETERS: Paint Filter / pHWeather: 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-100805Sample Time: 1115Sample Parameters: Paint Filter / pHSampled By: D. Armstrong / W. Westley

Sample Time: _____

Sample Parameters: _____

Sampled By: _____

Sample Time: _____

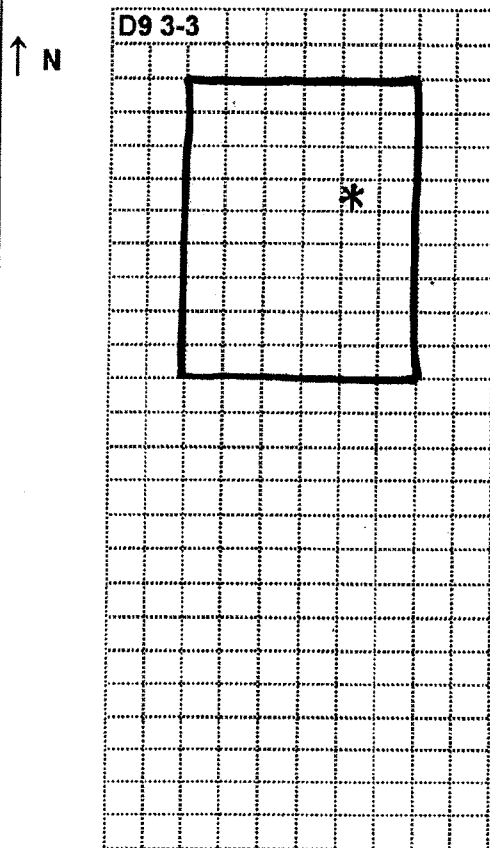
Sample Parameters: _____

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 3-4SAMPLE DATE: 8/5/2010STOCKPILE NO: N/ABLOCK PARAMETERS: Paint Filter / pHWeather: 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(☐) StainingOdor: 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.

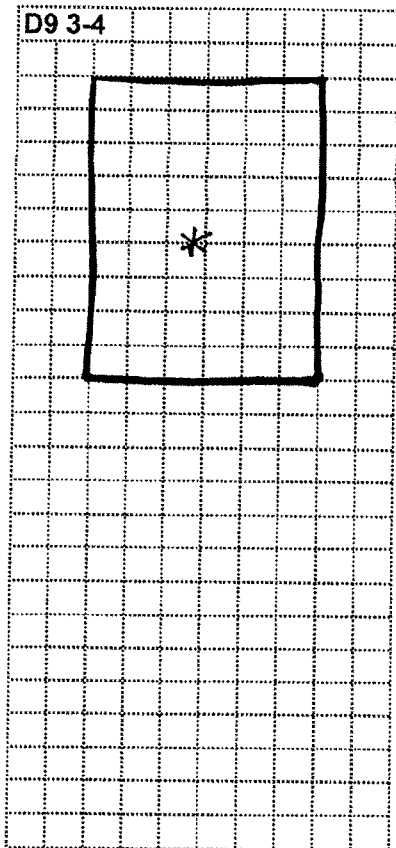
Designate Sample Locations on the Sketch with Reference Letter.

SAMPLE DATA

A CGMN-ESC-D9304PF1A-0-100805

↑ N

D9 3-4



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 - DUA~~

* Composite Location for Paint Filter/pH Sample

RINSATE SAMPLE:

from

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

3M_MN00717102

2318.0231

BLOCK NO: D9 3-5SAMPLE DATE: 8/5/2010STOCKPILE NO: N/ABLOCK PARAMETERS: Paint Filter / pHWeather: Clear (X) Cloudy () Rain/Snow () Windy (X) TEMP.: 73.9 °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-D9305PF1A-0-100805Sample Time: 1110Sample Parameters: Paint Filter / pHSampled By: D. Armstrong / W. Westley

Sample Time: _____

Sample Parameters: _____

Sampled By: _____

Sample Time: _____

Sample Parameters: _____

Sampled By: _____

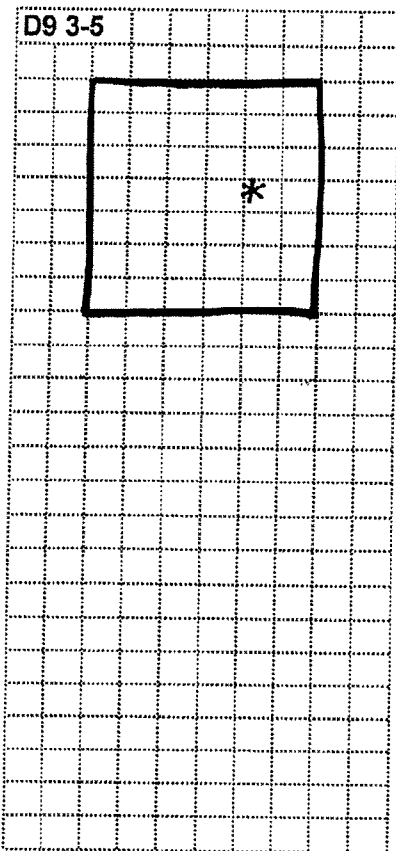
Sample Time: _____

Sample Parameters: _____

Sampled By: _____

D9 3-5

↑ N

~~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)

SAMPLE DATE: 8/5/2010

BLOCK PARAMETERS: Paint Filter / pH

Weather: Clear (☒) Cloudy (☐) Rain/Snow (☐) Windy (☒) **TEMP.:** 73.9 °F

Stockpile Description (Check all that apply)

Soil Moisture: () Dry

(~~X~~) Soil

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

() Mfg. Debris

() Staining

(~~X~~) 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

A CGMN-ESC-D9306PF1A-0-100805

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:

RINSATE SAMPLE:

from

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

3M MN00717104

2318.0233

BLOCK NO: <u>D9 3-7</u>	SAMPLE DATE: <u>8/5/2010</u>
STOCKPILE NO: <u>N/A</u>	BLOCK PARAMETERS: <u>Paint Filter / pH</u>

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.

D9 3-7

* Composite Location for Paint Filter/pH Sample

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: _____

RINSATE SAMPLE: _____ from _____

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

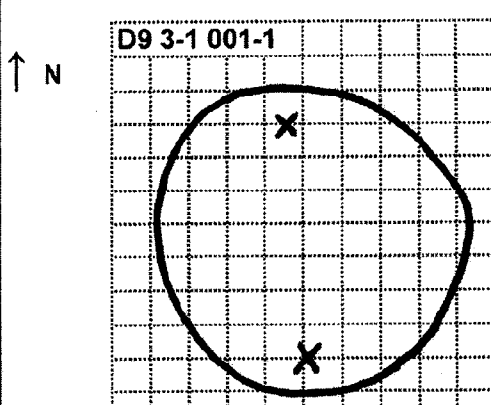
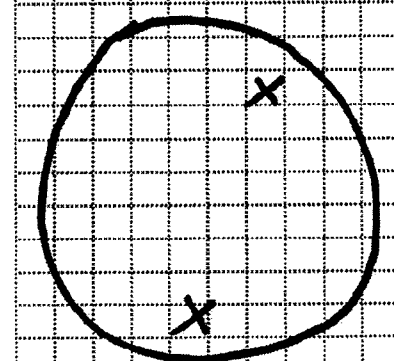
BLOCK NO: <u>D9 3-1</u>	SAMPLE DATE: <u>8/10/2010</u>
STOCKPILE NO: <u>001</u>	BLOCK PARAMETERS: <u>P, TCLP VOC (Benzene Only)</u>

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
D9 3-1 001-1  D9 3-1 001-2  X Composite Location for A Sample A <u>CGMN-ESC-D9301001A-0-100810</u> Sample Time: <u>8:45</u> Sample Parameters: <u>P, TCLP VOC (Benzene)</u> Sampled By: <u>R. McLoughlin</u> 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: <u>D9 3-1</u>	SAMPLE DATE: <u>8/10/2010</u>
STOCKPILE NO: <u>002</u>	BLOCK PARAMETERS: <u>P, TCLP VOC (Benzene Only)</u>

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
↑ N D9 3-1 002-1 D9 3-1 002-2 X Composite Location for A Sample A CGMN-ESC-D9301002A-0-100810 Sample Time: <u>8:53</u> Sample Parameters: <u>P, TCLP VOC (Benzene)</u> Sampled By: <u>R. McLoughlin</u> Sample Time: _____ Sample Parameters: _____ Sampled By: _____ 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)

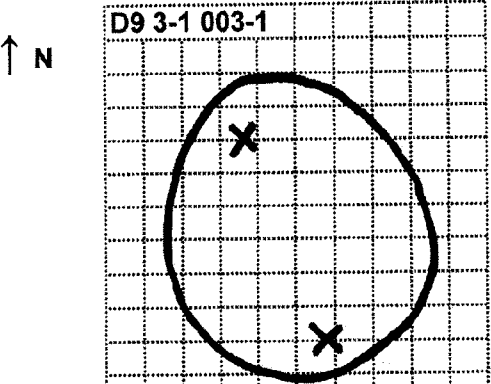
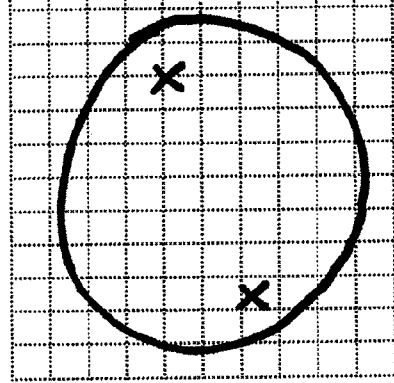
BLOCK NO: <u>D9 3-1</u>	SAMPLE DATE: <u>8/10/2010</u>
STOCKPILE NO: <u>003</u>	BLOCK PARAMETERS: <u>P, TCLP VOC (Benzene Only)</u>

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.

D9 3-1 003-1	SAMPLE DATA
	A <u>CGMN-ESC-D9301003A-0-100810</u>
	Sample Time: <u>9:02</u>
	Sample Parameters: <u>P, TCLP VOC (Benzene)</u>
	Sampled By: <u>R. McLoughlin</u>
D9 3-1 003-2 	Sample Time: _____
	Sample Parameters: _____
	Sampled By: _____
X Composite Location for A Sample	Sample Time: _____
	Sample Parameters: _____
	Sampled By: _____

RINSATE SAMPLE: _____ **from** _____

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

BLOCK NO: <u>D9 1-9</u>	SAMPLE DATE: <u>8/11/2010</u>
STOCKPILE NO: <u>001</u>	BLOCK PARAMETERS: <u>VOC (PCE Only)</u>

Weather: Clear () Cloudy (X) Rain/Snow () Windy () **TEMP.:** 74 °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.

D9 1-9 001-1

D9 1-9 001-2

X Headspace Reading (ppm)
 • Sample Location for VOCs

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: _____

RINSATE SAMPLE: _____ from _____

Parameters: PCE (Tetrachloroethylene)

BLOCK NO: <u>D9 1-9</u>	SAMPLE DATE: <u>8/11/2010</u>
STOCKPILE NO: <u>002</u>	BLOCK PARAMETERS: <u>VOC (PCE Only)</u>

Weather: Clear () Cloudy (☒) Rain/Snow () Windy () TEMP.: 74 °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.

↑ N

X Headspace Reading (ppm)
 • Sample Location for VOCs

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: _____

RINSATE SAMPLE: _____ **from** _____

Parameters: PCE (Tetrachloroethylene)

BLOCK NO: D9 3-7SAMPLE DATE: 8/11/2010STOCKPILE NO: 001BLOCK 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

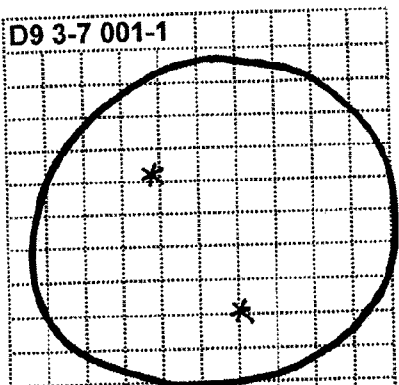
Odor: Strong (X) Mild () None ()

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.

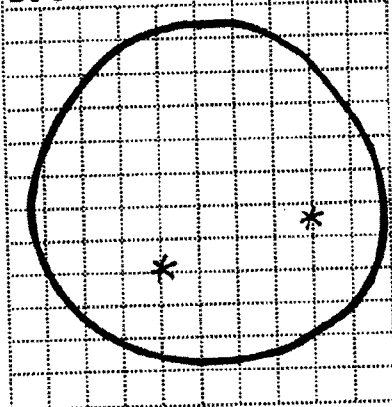
Designate Sample Locations on the Sketch with Reference Letter.

SAMPLE DATA

D9 3-7 001-1



D9 3-7 001-2



* 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

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)

3M_MN00717111

2318.0240

BLOCK NO: D9 3-7SAMPLE DATE: 8/11/2010STOCKPILE NO: 002BLOCK 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 ()

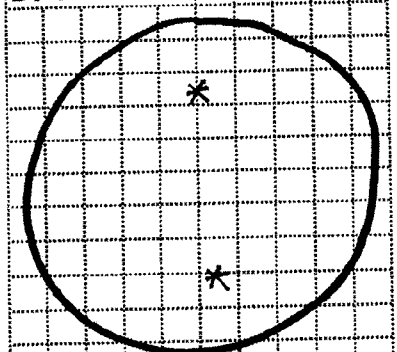
1. Sketch Stockpile, Establish Dimensions, Describe Soil, and Locate Sample Locations.
2. Screen Stockpile with PID and Record GPS Coordinates for selected sample locations.
3. Provide a Sketch of the Stockpile, indicate north, and show PID readings and Sample Stations.
4. Collect Samples, Record ALL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

Designate Sample Locations on the Sketch with Reference Letter.

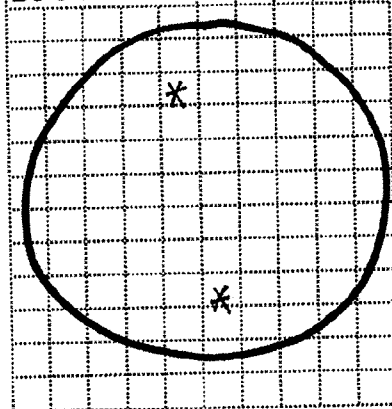
SAMPLE DATA

↑ N

D9 3-7 002-1



D9 3-7 002-2



* Composite Location for A Sample

A CGMN-ESC-D9307002A-0-100811

Sample Time: 10:05Sample 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)

3M_MN00717112

2318.0241

BLOCK NO: <u>D9 3-5</u>	SAMPLE DATE: <u>8/12/2010</u>
STOCKPILE NO: <u>001</u>	BLOCK PARAMETERS: <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.

SAMPLE DATA	A
D9 3-5 001-1 D9 3-5 001-2 * Composite Location for PCBs	CGMN-ESC-D9305001A-0-100812 Sample Time: <u>16:28</u> Sample Parameters: <u>PCBs</u> Sampled By: <u>R. McLoughlin / D. Armstrong</u> <u>**MS/MSD samples collected**</u> 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: <u>D9 3-5</u>	SAMPLE DATE: <u>8/12/2010</u>
STOCKPILE NO: <u>002</u>	BLOCK PARAMETERS: <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.

* Composite Location for PCBs

SAMPLE DATA

A CGMN-ESC-D9305002A-0-100812

Sample Time: 16:32
 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: _____

RINSATE SAMPLE: _____ **from** _____

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

BLOCK NO:	<u>D9 3-5</u>	SAMPLE DATE:	<u>8/12/2010</u>
STOCKPILE NO:	<u>003</u>	BLOCK PARAMETERS:	<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.

SAMPLE DATA	
D9 3-5 003-1 D9 3-5 003-2 ✱ Composite Location for PCBs	A <u>CGMN-ESC-D9305003A-0-100812</u> Sample Time: <u>16:36</u> Sample Parameters: <u>PCBs</u> Sampled By: <u>R. McLoughlin / D. Armstrong</u> 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:	<u>D9 3-5</u>	SAMPLE DATE:	<u>8/12/2010</u>
STOCKPILE NO:	<u>004</u>	BLOCK PARAMETERS:	<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.

↑ N

A

SAMPLE DATA

CGMN-ESC-D9305004A-0-100812

Sample Time: 16:38

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)

BLOCK NO: <u>D9 3-3</u>	SAMPLE DATE: <u>8/17/2010</u>
STOCKPILE NO: <u>001</u>	BLOCK PARAMETERS: <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

Sample Time: 16:26

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 3-3SAMPLE DATE: 8/17/2010STOCKPILE NO: 002BLOCK PARAMETERS: PCBs, TCLP VOC (Benzene)Weather: Clear (☒) Cloudy (☐) Rain/Snow (☐) Windy (☐) TEMP.: 78 °F

Stockpile Description (Check all that apply)

(☒) Soil(☐) C&D Debris (Concrete, Asphalt, etc)(☐) Mfg. Debris(☒) StainingSoil Moisture: (☐) Dry(☒) Moist(☐) WetOdor: 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-0-100817Sample Time: 16:30Sample 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: _____

↑ N

D9 3-3 002-1

D9 3-3 002-2

X Composite Location for A Sample

RINSATE SAMPLE:

from

Parameters: B (Benzene); P (PCBs)

BLOCK NO: <u>D9 3-3</u>	SAMPLE DATE: <u>8/19/2010</u>
STOCKPILE NO: <u>003</u>	BLOCK PARAMETERS: <u>PCBs, TCLP VOC (Benzene)</u>

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-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:	<u>D9 3-3</u>	SAMPLE DATE:	<u>8/19/2010</u>
STOCKPILE NO:	<u>004</u>	BLOCK PARAMETERS:	<u>PCBs, TCLP VOC (Benzene)</u>

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	
D9 3-3 004-1 D9 3-3 004-2 X Composite Location for A Sample	A <u>CGMN-ESC-D9303004A-0-100819</u> Sample Time: <u>11:42</u> Sample Parameters: <u>P, TCLP VOC (Benzene).</u> Sampled By: <u>D. Armstrong / R. McLoughlin</u> 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)

Parameters: B (Benzene); P (PCBs)

BLOCK NO: <u>D9 3-4</u>	SAMPLE DATE: <u>8/19/2010</u>
STOCKPILE NO: <u>001</u>	BLOCK PARAMETERS: <u>PCBs, TCLP VOC (Benzene), TCLP Metals (Lead)</u>

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

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 3-4SAMPLE DATE: 8/20/2010STOCKPILE NO: 002BLOCK 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-D9304002A-0-100820Sample Time: 8:41Sample Parameters: P, TCLP VOC (B Only),
TCLP Metals (Pb Only)Sampled By: R. McLoughlin

Sample Time: _____

Sample Parameters: _____

Sampled By: _____

Sample Time: _____

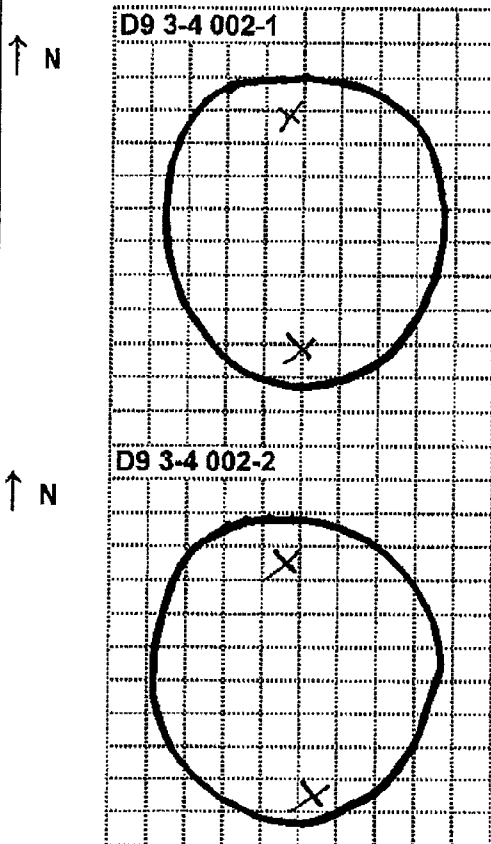
Sample Parameters: _____

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 3-4SAMPLE DATE: 8/20/2010STOCKPILE NO: 003BLOCK 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-0-100820Sample Time: 8:50Sample Parameters: P, TCLP VOC (B Only),
TCLP Metals (Pb Only)Sampled By: R. McLoughlin

Sample Time: _____

Sample Parameters: _____

Sampled By: _____

Sample Time: _____

Sample Parameters: _____

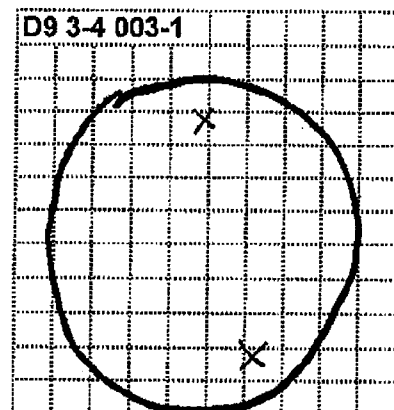
Sampled By: _____

Sample Time: _____

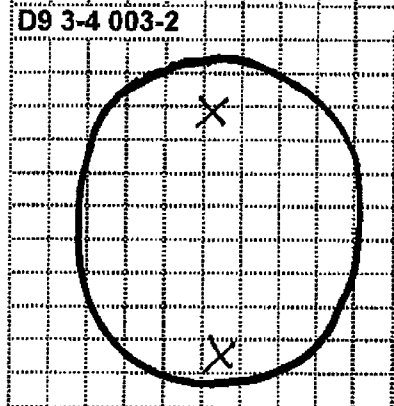
Sample Parameters: _____

Sampled By: _____

D9 3-4 003-1



D9 3-4 003-2



X Composite Location for A Sample

RINSATE SAMPLE:

from

Parameters: B (Benzene); P (PCBs); Pb (Lead)

BLOCK NO: D9 3-4SAMPLE DATE: 8/20/2010STOCKPILE NO: 004BLOCK 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

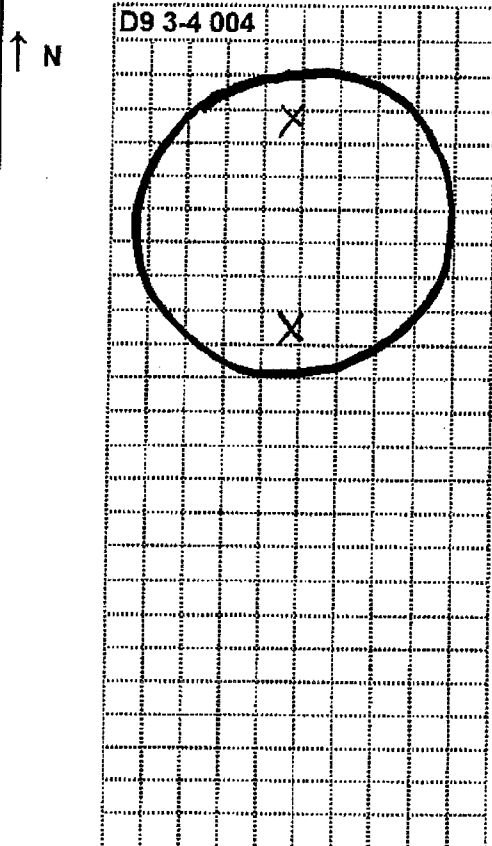
(X) Staining

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.

SAMPLE DATA



A CGMN-ESC-D9304004A-0-100820

CGMN-ESC-D9304004A-MS-100820

CGMN-ESC-D9304004A-MSD-100820

Sample Time: 9:00

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 2-7SAMPLE DATE: 9/8/2010STOCKPILE NO: 001BLOCK 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(☒) StainingSoil Moisture: (☒) Dry(☐) Moist(☐) WetOdor: 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-0-100908Sample Time: 11:36Sample Parameters: TCLP VOC (Benzene Only)Sampled By: R. McLoughlin / W. WestleyE CGMN-ESC-D9207001E-0-100908Sample Time: 11:38Sample Parameters: TCLP VOC (Benzene Only)Sampled By: R. McLoughlin / W. Westley

Sample Time: _____

Sample Parameters: _____

Sampled By: _____

Sample Time: _____

Sample Parameters: _____

Sampled By: _____

D9 2-7 001-1

D9 2-7 001-2

▲ Composite Location for D Sample

✱ Composite Location for E Sample

RINSATE SAMPLE:

from

Parameters: B (Benzene)

3M_MN00717129

2318.0258

BLOCK NO: D9 2-7SAMPLE DATE: 9/8/2010STOCKPILE NO: 003BLOCK 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(☒) StainingSoil Moisture: (☒) Dry(☐) Moist(☐) WetOdor: 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-0-100908Sample Time: 11:41Sample Parameters: TCLP VOC (Benzene Only)Sampled By: R. McLoughlin / W. Westley

Sample Time: _____

Sample Parameters: _____

Sampled By: _____

Sample Time: _____

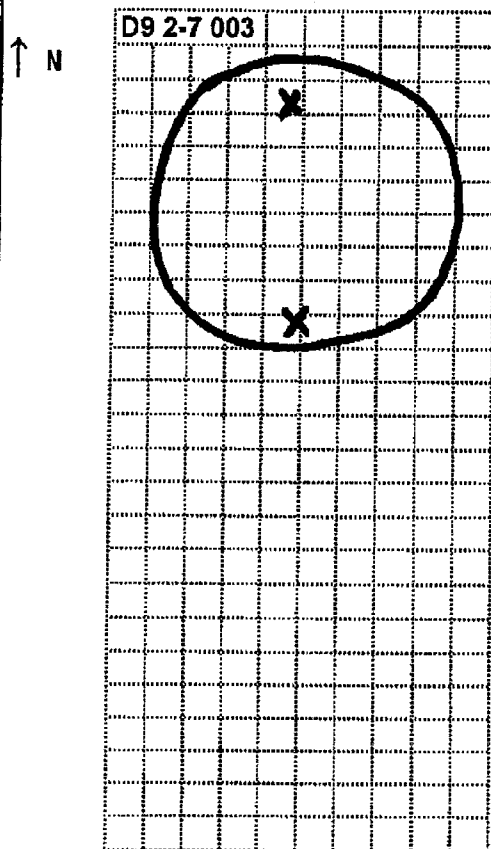
Sample Parameters: _____

Sampled By: _____

Sample Time: _____

Sample Parameters: _____

Sampled By: _____



X Composite Location for A Sample

RINSATE SAMPLE:

from

Parameters: B (Benzene)

BLOCK NO: D9 3-1SAMPLE DATE: 9/8/2010STOCKPILE NO: 003BLOCK 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(☒) StainingSoil Moisture: (☒) Dry(☐) Moist(☐) WetOdor: 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-0-100908Sample Time: 11:44Sample Parameters: TCLP VOC (Benzene Only)Sampled By: R. McLoughlin / W. WestleyE CGMN-ESC-D9301003E-0-100908Sample Time: 11:47Sample Parameters: TCLP VOC (Benzene Only)Sampled By: R. McLoughlin / W. Westley

Sample Time: _____

Sample Parameters: _____

Sampled By: _____

Sample Time: _____

Sample Parameters: _____

Sampled By: _____

D9 3-1 003-1

D9 3-1 003-2

▲ Composite Location for D Sample

✱ Composite Location for E Sample

RINSATE SAMPLE:

from

Parameters: B (Benzene);

BLOCK NO: D9 3-3SAMPLE DATE: 9/8/2010STOCKPILE NO: 001BLOCK 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(☒) StainingOdor: 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-0-100908Sample Time: 9:50Sample Parameters: TCLP VOC (Benzene Only)Sampled By: R. McLoughlin / W. Westley**E** CGMN-ESC-D9303001E-0-100908Sample Time: 11:33Sample Parameters: TCLP VOC (Benzene Only)Sampled By: R. McLoughlin / W. Westley

Sample Time: _____

Sample Parameters: _____

Sampled By: _____

Sample Time: _____

Sample Parameters: _____

Sampled By: _____

↑ N

D9 3-3 001-1

D9 3-3 001-2

▲ Composite Location for D Sample

✱ Composite Location for E Sample

RINSATE SAMPLE:

from

Parameters: B (Benzene)

3M_MN00717132

2318.0261

BLOCK NO: D9 3-3SAMPLE DATE: 9/8/2010STOCKPILE NO: 002BLOCK 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(☒) StainingSoil Moisture: (☒) Dry(☐) Moist(☐) WetOdor: 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-0-100908Sample Time: 11:30Sample Parameters: TCLP VOC (Benzene Only)Sampled By: R. McLoughlin / W. WestleyE CGMN-ESC-D9303002E-0-100908Sample Time: 11:28Sample Parameters: TCLP VOC (Benzene Only)Sampled By: R. McLoughlin / W. Westley

Sample Time: _____

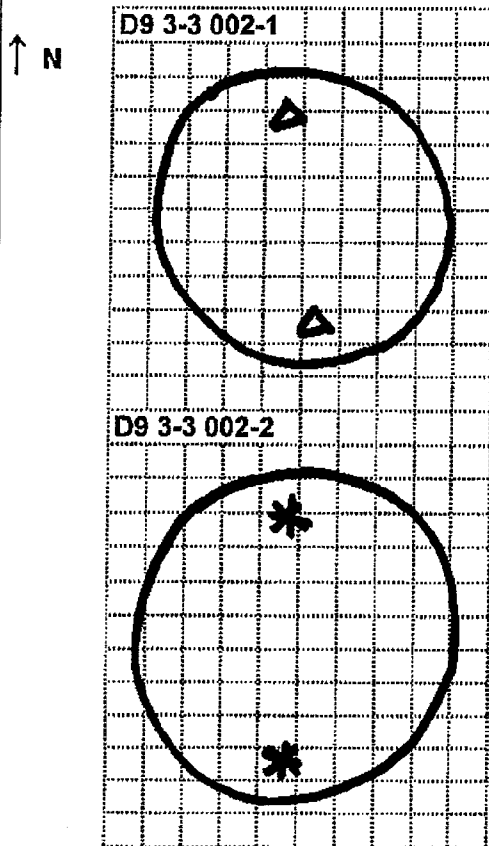
Sample Parameters: _____

Sampled By: _____

Sample Time: _____

Sample Parameters: _____

Sampled By: _____



▲ Composite Location for D Sample

✱ Composite Location for E Sample

RINSATE SAMPLE:

from

Parameters: B (Benzene)

3M_MN00717133

2318.0262

BLOCK NO: D9 3-3SAMPLE DATE: 9/8/2010STOCKPILE NO: 004BLOCK 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(☒) StainingOdor: 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-D9303004D-0-100908Sample Time: 9:44Sample Parameters: TCLP VOC (Benzene Only)Sampled By: R. McLoughlin / W. Westley**E** CGMN-ESC-D9303004E-0-100908Sample Time: 9:38Sample Parameters: TCLP VOC (Benzene Only)Sampled By: R. McLoughlin / W. Westley

Sample Time: _____

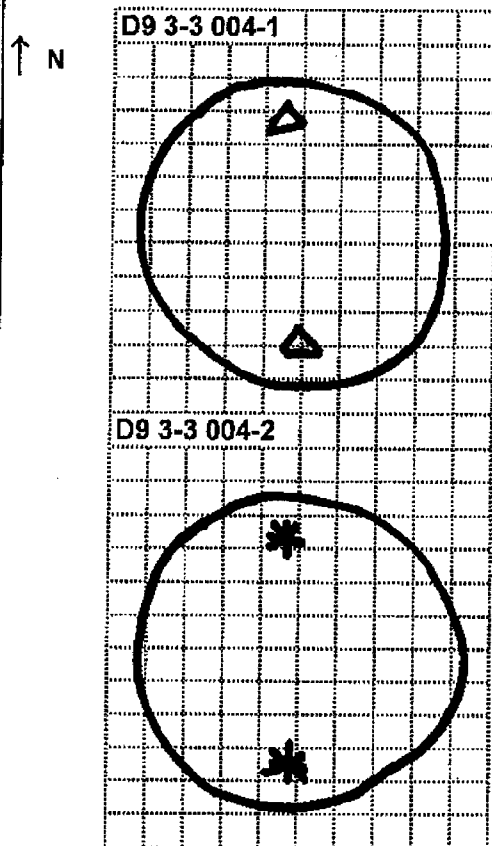
Sample Parameters: _____

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 3-3SAMPLE DATE: 9/8/2010STOCKPILE NO: 005BLOCK 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(☒) StainingSoil Moisture: (☒) Dry(☐) Moist(☐) WetOdor: 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-0-100908Sample Time: 11:25Sample Parameters: TCLP VOC (Benzene Only)Sampled By: R. McLoughlin / W. WestleyE CGMN-ESC-D9303005E-0-100908Sample Time: 11:23Sample Parameters: TCLP VOC (Benzene Only)Sampled By: R. McLoughlin / W. Westley

Sample Time: _____

Sample Parameters: _____

Sampled By: _____

Sample Time: _____

Sample Parameters: _____

Sampled By: _____

D9 3-3 005-1

D9 3-3 005-2

△ Composite Location for D Sample
✱ Composite Location for E Sample

RINSATE SAMPLE:

from

Parameters: B (Benzene)

BLOCK NO: D9 3-6SAMPLE DATE: 9/8/2010STOCKPILE NO: 001BLOCK 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(☒) StainingSoil Moisture: (☒) Dry(☐) Moist(☐) WetOdor: 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-D9306001D-0-100908

CGMN-ESC-D9306001D-DB-100908

Sample Time: 9:32Sample Parameters: TCLP VOC (Benzene Only)Sampled By: R. McLoughlin / W. WestleyE

CGMN-ESC-D9306001E-0-100908

Sample Time: 9:27Sample Parameters: TCLP VOC (Benzene Only)Sampled By: R. McLoughlin / W. Westley

Sample Time: _____

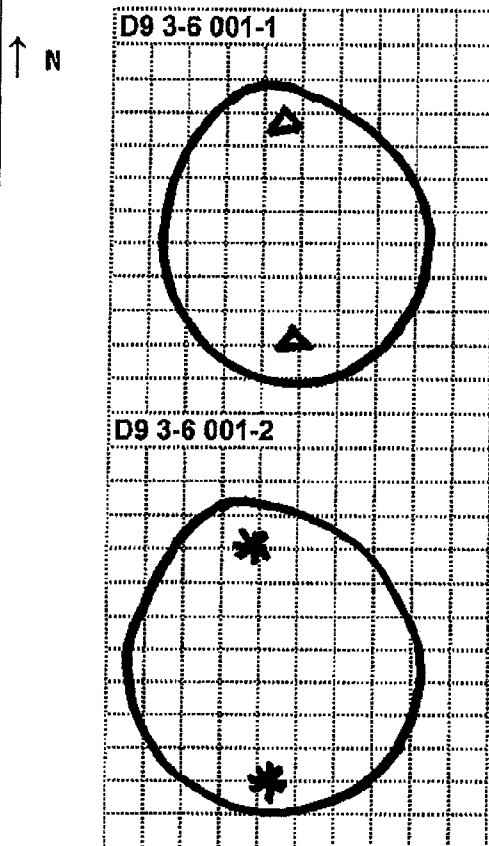
Sample Parameters: _____

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 3-6SAMPLE DATE: 9/8/2010STOCKPILE NO: 002BLOCK 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(☒) StainingSoil Moisture: (☒) Dry(☐) Moist(☐) WetOdor: 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-D9306002D-0-100908Sample Time: 9:23Sample Parameters: TCLP VOC (Benzene Only)Sampled By: R. McLoughlin / W. WestleyE CGMN-ESC-D9306002E-0-100908Sample Time: 9:18Sample Parameters: TCLP VOC (Benzene Only)Sampled By: R. McLoughlin / W. Westley

Sample Time: _____

Sample Parameters: _____

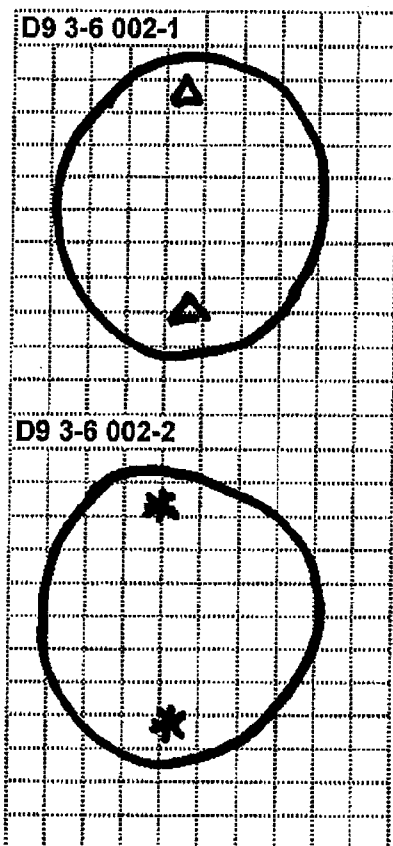
Sampled By: _____

Sample Time: _____

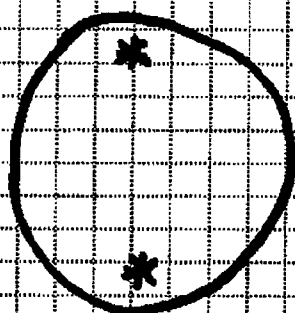
Sample Parameters: _____

Sampled By: _____

D9 3-6 002-1



D9 3-6 002-2



△ Composite Location for D Sample

✱ Composite Location for E Sample

RINSATE SAMPLE:

from

Parameters: B (Benzene)

BLOCK NO: D9 3-6SAMPLE DATE: 9/8/2010STOCKPILE NO: 003BLOCK 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
(☐) WetOdor: 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-D9306003D-0-100908

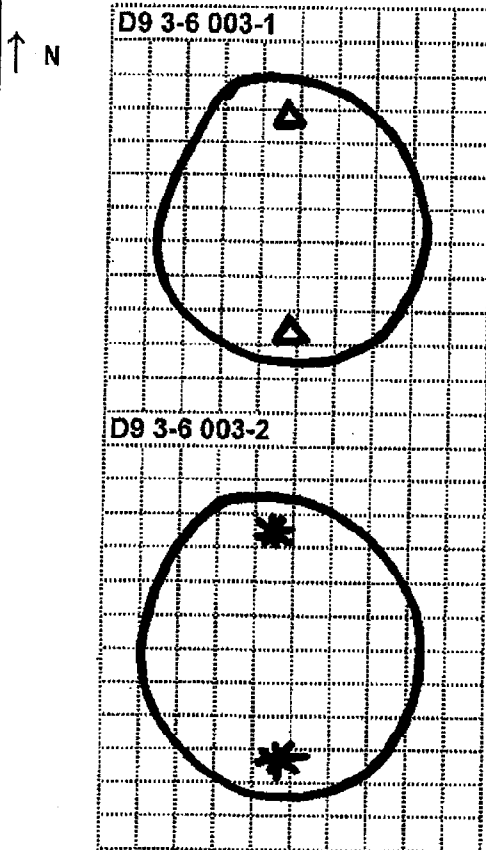
Sample Time: 9:12
Sample Parameters: TCLP VOC (Benzene Only)
Sampled By: R. McLoughlin / W. Westley

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: _____



- ▲ Composite Location for D Sample
* Composite Location for E Sample

RINSATE SAMPLE:

from

Parameters: B (Benzene)

Appendix G

Appendix G

APPENDIX G
METEROLOGICAL DATA

3M_MN00717140

Table 1

**Summary of Meteorological Data
May 2010 - October 2010
Cottage Grove Site**

Date (M/D/YYYY)	Temperature			Precipitation (inches)	Wind		
	Minimum (°F)	Maximum (°F)	Average (°F)		Average Wind Speed (mph)	Average Wind Direction (Degrees)	Average Wind 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)\CGMN D9 Met Data

Table 1

Summary of Meteorological Data
May 2010 - October 2010
Cottage Grove Site

Date (M/D/YYYY)	Temperature			Precipitation (inches)	Wind		
	Minimum (°F)	Maximum (°F)	Average (°F)		Average Wind Speed (mph)	Average Wind Direction (Degrees)	Average Wind 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

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Table 1

**Summary of Meteorological Data
May 2010 - October 2010
Cottage Grove Site**

Date (MM/DD/YYYY)	Temperature			Precipitation (inches)	Wind		
	Minimum (°F)	Maximum (°F)	Average (°F)		Average Wind Speed (mph)	Average Wind Direction (Degrees)	Average Wind 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	65.92	0.00	1.90	134 ± 99	SE

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Table 1

Summary of Meteorological Data
May 2010 - October 2010
Cottage Grove Site

Date (M/D/YYYY)	Temperature			Precipitation (inches)	Wind		
	Minimum (°F)	Maximum (°F)	Average (°F)		Average Wind Speed (mph)	Average Wind Direction (Degrees)	Average Wind 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	55.76	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

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Table 1

**Summary of Meteorological Data
May 2010 - October 2010
Cottage Grove Site**

Date (M/D/YYYY)	Temperature			Precipitation (inches)	Wind		
	Minimum (°F)	Maximum (°F)	Average (°F)		Average Wind Speed (mph)	Average Wind Direction (Degrees)	Average Wind 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 ¹	48.63	72.59	58.30	0.00	3.80	203 ± 121	SW

¹ 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

APPENDIX H
PERIMETER MONITORING

3M_MN00717147



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/m³ 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 ³
Station 2	14:07	0.000 mg/m ³
Station 3	14:00	0.003 mg/m ³
Station 4	14:28	0.013 mg/m ³

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/m³ 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 ³
Station 2	12:05	0.001 mg/m ³
Station 3	12:14	0.000 mg/m ³
Station 4	12:21	0.000 mg/m ³

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: 6/23/2010 2. Weather: 77.0 °F, Cloudy to Heavy Rain

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	14:51	0.0 ppm
Station 2	14:44	0.0 ppm
Station 3	14:36	0.0 ppm
Station 4	14:29	0.0 ppm

COMMENTS:

Wind from NW @ 16.5 mph.

Bolander excavating potentially impacted material (0 to 10 ft bgs).

5. Ambient Air Monitoring - PM10 (Particulate Monitoring) (Action Level - 0.1 mg/m³ above background)

Instrument used: MIE DataRam PDR

Calibration performed? (Y or N) Yes

Station / Sample Location	Time	Reading (provide units)
Station 1	14:51	0.002 mg/m ³
Station 2	14:44	0.013 mg/m ³
Station 3	14:36	0.009 mg/m ³
Station 4	14:29	0.006 mg/m ³

COMMENTS:

Wind from NW @ 16.5 mph.

Bolander excavating potentially impacted material (0 to 10 ft bgs).



Cottage Grove Site - Perimeter Monitoring Form

1. Date: 7/9/2010

2. Weather: 85.0 °F, Clear

3. Prepared By: W. Westley (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	16:18	0.0 ppm
Station 2	16:10	0.0 - 0.2 ppm
Station 3	16:35	0.0 ppm
Station 4	16:29	0.0 ppm

COMMENTS:

Wind from W @ 8.1 mph.

Bolander suspends site activities for the day after Excavation of the Direct Load Soil Block D9 1-5. Station #2 was Monitored as Approx 400 Yds of Direct load Soil Block D9 1-5 material was Staged on the EW-4 Staging Area.

5. Ambient Air Monitoring - PM10 (Particulate Monitoring) (Action Level - 0.1 mg/m³ above background)

Instrument used: MIE DataRam PDR

Calibration performed? (Y or N) Yes

Station / Sample Location	Time	Reading (provide units)
Station 1	16:18	0.006 mg/m ³
Station 2	16:10	0.007 mg/m ³
Station 3	16:35	0.010 mg/m ³
Station 4	16:29	0.006 mg/m ³

COMMENTS:

Wind from W @ 8.1 mph.

Bolander suspends site activities for the day after Excavation of the Direct Load Soil Block D9 1-5. Station #2 was Monitored as Approx 400 Yds of Direct load Soil Block D9 1-5 material was Staged on the EW-4 Staging Area.



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/m³ 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 ³
Station 2	13:34	0.073 mg/m ³
Station 3	13:27	0.018 mg/m ³
Station 4	13:53	0.011 mg/m ³

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/m³. 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/m³ 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 ³
Station 2	13:02	0.024 mg/m ³
Station 3	12:55	0.016 mg/m ³
Station 4	13:17	0.006 mg/m ³

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/m³ 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 ³
Station 2	13:18	0.013 mg/m ³
Station 3	13:26	0.039 mg/m ³
Station 3	13:33	0.008 mg/m ³

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/m³ 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 ³
Station 2	15:31	0.037 mg/m ³
Station 3	15:24	0.025 mg/m ³
Station 4	15:17	0.007 mg/m ³

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/m³ 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 ³
Station 2	15:37	0.004 mg/m ³
Station 3	15:45	0.003 mg/m ³
Station 4	15:56	0.008 mg/m ³

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/m³ 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 ³
Station 2	14:30	0.068 mg/m ³
Station 3	14:22	0.023 mg/m ³
Station 4	14:44	0.022 mg/m ³

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/m³ 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 ³
Station 2	15:23	0.001 mg/m ³
Station 3	15:38	0.031 mg/m ³
Station 4	15:44	0.015 mg/m ³

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/m³ 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 ³
Station 2	14:08	0.013 mg/m ³
Station 3	14:26	---
Station 4	13:59	0.011 mg/m ³

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/m³ 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 ³
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/m³ 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 ³
Station 3	7:41	0.019 mg/m ³
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.