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NC DENR
Division of Waste Management - Solid Waste

Environmental Monitoring Reporting Form

Notice: This form and any information attached to it are "Public Records" as defined in NC General Statute 132-1. As such, these documents are available for inspection and examination by any person upon request (NC General Statute 132-6).

Instructions:

- **Prepare one form for each individually monitored unit.**
- **Please type or print legibly.**
- Attach a notification table with values that attain or exceed NC 2L groundwater standards or NC 2B surface water standards. The notification must include a preliminary analysis of the cause and significance of each value. (e.g. naturally occurring, off-site source, pre-existing condition, etc.).
- Attach a notification table of any groundwater or surface water values that equal or exceed the reporting limits.
- Attach a notification table of any methane gas values that attain or exceed explosive gas levels. This includes any structures on or nearby the facility (NCAC 13B .1629 (4)(a)(i).
- Send the original signed and sealed form, any tables, and Electronic Data Deliverable to: Compliance Unit, NCDENR-DWM, Solid Waste Section, 1646 Mail Service Center, Raleigh, NC 27699-1646.

Solid Waste Monitoring Data Submittal Information

Name of entity submitting data (laboratory, consultant, facility owner):

C. T. Clayton, Sr., PE, Inc. (Consultant)

Contact for questions about data formatting. Include data preparer's name, telephone number and E-mail address:

Name: C. Tyrus Clayton, Jr., PE Phone: 910-897-7070

E-mail: tyrus@ctclayton.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Dunn/Erwin Landfill	SR1725 Dunn, NC	43-02	.1600	October 29 &30, 2012

Environmental Status: (Check all that apply)

☐ Initial/Background Monitoring ☒ Detection Monitoring ☒ Assessment Monitoring ☒ Corrective Action

Type of data submitted: (Check all that apply)

☒ Groundwater monitoring data from monitoring wells
☐ Groundwater monitoring data from private water supply wells
☐ Leachate monitoring data
☒ Surface water monitoring data
☐ Methane gas monitoring data
☒ Corrective action data (specify) Background sampling completed
☐ Other(specify)

Notification attached?

☐ No. No groundwater or surface water standards were exceeded.
☒ Yes, a notification of values exceeding a groundwater or surface water standard is attached. It includes a list of groundwater and surface water monitoring points, dates, analytical values, NC 2L groundwater standard, NC 2B surface water standard or NC Solid Waste GWPS and preliminary analysis of the cause and significance of any concentration.
☐ Yes, a notification of values exceeding an explosive methane gas limit is attached. It includes the methane monitoring points, dates, sample values and explosive methane gas limits.

Certification

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. Furthermore, I have attached complete notification of any sampling values meeting or exceeding groundwater standards or explosive gas levels, and a preliminary analysis of the cause and significance of concentrations exceeding groundwater standards. I am aware that there are significant penalties for making any false statement, representation, or certification including the possibility of a fine and imprisonment.

C. Tyrus Clayton, Jr., PE | Consultant | (910) 897-7070

Facility Representative Name (Print) | Title | (Area Code) Telephone Number

C. Tyrus Clayton, Jr., PE Digitally signed by C. Tyrus Clayton, Jr., PE DN: cn=C. Tyrus Clayton, Jr., PE, o, ou=C. T. Clayton, Sr., PE, Inc., email=tyrus@ctclayton.com, c=US Date: 2013.04.19 11:15:27 -04'00' 04-19-2013 Affix NC Licensed/ Professional Geologist Seal

Signature | Date

46 West Washington St, Coats NC 27521

Facility Representative Address

C-2570

NC PE Firm License Number (if applicable effective May 1, 2009)

Revised 6/2009

Clayton, Sr., P.E., Inc.
Civil & Environmental Engineering

April 17, 2013

Ms. Elizabeth Werner
Solid Waste Section
Division of Waste Management
North Carolina Department of Environment and Natural Resources
Mail Service Center 1646
Raleigh, NC 27699-1646

RE: SEMI-ANNUAL GROUNDWATER MONITORING: OCTOBER 2012
DUNN-ERWIN MUNICIPAL SOLID WASTE LANDFILL, PERMIT 43-02
HARNETT COUNTY, NORTH CAROLINA

Dear Ms. Werner:

On behalf of Harnett County, C.T. Clayton, Sr., PE, Inc. (CTC) is pleased to herewith submit the results of the semi-annual groundwater monitoring event of October 2012 performed at the Dunn-Erwin Municipal Solid Waste Landfill in accordance with North Carolina Solid Waste Management Rules *15A N.C.A.C. 13 B, .1633* and *.1634.* The findings and conclusions of this report will be considered by Harnett County for the assessment of the Harnett County's Corrective Action Plan (CAP) for the groundwater contamination plume, downgradient of the existing landfill in accordance with North Carolina Solid Waste Management Rules *15A N.C.A.C. 13B, .1635, .1636, and .1637,* and *15A N.C.A.C. 13B .0547.*

The report is organized in sections entitled Executive Summary, Introduction, Groundwater Levels, and Results. As allowed under the Rule revisions, statistically analysis is no longer required and will only be used in selected cases as discussed in the Executive Summary.

Should you have any questions or comments, please contact me at our address shown above or by e-mail at ***tyrus@ctclayton.com***.

Sincerely,

C. T. CLAYTON, SR., P.E., INC.

C. Tyrus Clayton, Jr., P.E.

cc. Amanda Bader - Harnett County
C. T. Clayton, Sr., P.E.
C. J. Poran, PE - ENSOL, Inc.

/attachments

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SEMI-ANNUAL GROUNDWATER MONITORING REPORT
OCTOBER 2012
DUNN-ERWIN MUNICIPAL SOLID WASTE LANDFILL
PERMIT #43-02
HARNETT COUNTY, NORTH CAROLINA

Submitted to:
Solid Waste Section
Division of Waste Management
NCDENR
1646 Mail Service Center
Raleigh, NC 27699-1646

Submitted by:
C.T. Clayton, Sr., P.E., Inc.
46 W. Washington Street
Coats, NC 27521

Submitted on behalf of:
Harnett County General Services
P.O. Box 940
Lillington, NC 27546

April 17, 2013

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EXECUTIVE SUMMARY

The October 2012 groundwater sampling event performed at the Dunn-Erwin Municipal Solid Waste Landfill (MSWLF) fulfilled the County's semi-annual groundwater sampling and analyses requirements in accordance with North Carolina Solid Waste Management Rules *15A NCAC 13 B .1633* and *1634*. Figures 1, 2A and 2B show the facility layout and various groundwater monitoring wells and piezometers locations, respectively.

Previously, an extensive study was completed in order to better understand the groundwater contamination plume at the site, as described in the report dated August 25, 2003, including the field investigation performed in October 2002 in conjunction with the scheduled October 2002 semi-annual sampling event. Also, 12 new observation wells were installed in the general area of the groundwater contamination plume during this field investigation. The field investigation was followed by additional laboratory testing, and an extensive analysis and computer modeling. Results from that study have been incorporated in this report also including the October 2002 delineation of the groundwater contaminant plume in the uppermost aquifer, downgradient of the MSWLF.

Several new wells (MW11, MW12, MW13, MW14, and MW15) and piezometers (PZ-50, PZ-51, PZ-52, and PZ-53) have been installed and are associated with the proposed new construction and demolition debris (C&D) landfill in the southwest of the groundwater contaminant plume area. The wells were added prior to the May 2007 sampling event, while the piezometers were added prior to the October 2010 sampling event. A new surface water sampling point, SWPT4, was added as of the April 2010 monitoring event, also associated with the C&D landfill.

As of April 1, 2011, several NC SWS Regulations have been revised, including *15 NCAC 13B.1632, 1633, 1634, 1635, and 1637*. As before, the regulations require groundwater sampling, beginning with a semi-annual detection monitoring program for Appendix I constituents (subpart *1633*). If an Appendix I constituent exceeds a groundwater protection standard as defined in subparts *1634(g)* or *1634(h)*, then an assessment monitoring program is required, including Appendix II constituents (which also include Appendix I constituents). If an Appendix II constituent exceeds groundwater protection standards, then the owner is required to proceed with corrective action (CA) following subparts *1635* and *1637*. The changes do not appear to affect the need for continued assessment monitoring and CA at Dunn-Erwin.

The revisions do have a substantial impact on reporting and data evaluation. Statistical analysis (SA) is no longer required. The owner may still choose to perform SA in order to establish background levels and to determine if a particular detection represents a statistically significant increase over background levels (SSIOBL) which would be considered if it also represents an exceedance of the respective groundwater protection standard. Since SA is no longer required, the benefit to conducting SA would be to demonstrate that a particular detection that exceeds a groundwater protection standard is not above background and does not require CA.

However, CA is currently underway at the Dunn-Erwin MSWLF. According to the current regulations, CA is deemed complete only after Appendix II levels are below groundwater protection standards for three (3) consecutive years. Therefore, based on the new regulations, continued use of SA in the affected CA wells appears unnecessary at this time since it does not appear to provide significant benefit to the assessment.

In the past, SA has been used for every detection. Many detections, particularly inorganic, did not exceed groundwater protection standards. Results that have historically exceeded groundwater protection standards are typically limited to wells within the CA area. An occasional inorganic was detected at a concentration that exceeded the respective groundwater protection standard in other locations of the DELF, outside of the CA area. Until CA has been completed and the MSWLF reverts to its groundwater sampling program, SA will only be used for inorganic detections that exceed a groundwater protection standard outside of the CA area to confirm if the detected levels are (or are not) statistically significantly over background levels (i.e., require CA). SA will not be used for wells currently included in CA. The effectiveness of CA will be assessed based on the observed quantitative decrease in detection results that exceed groundwater protection standards. The use of SA will be reevaluated after CA has been completed.

Historically, data from the semi-annual sampling were evaluated in sets. Data will continue to be organized by these sets, should SA be necessary. Set 1 consists of wells monitoring the previously closed (December 1998) solid waste landfill portion of the site where active construction and demolition debris (C&D) placement is ongoing, including monitoring wells (MWs) MW1, MW2, MW3R, MW4, MW5, MW6B, MW7B, MW8, and MW31. Monitoring well MW3, which was previously damaged during site operations prior to April 2005 sampling event has been replaced by MW3R as of June 2005. The casing for MW4 has been extended to account for flooding in the area. Monitoring well MW6 has also been replaced with MW6B, installed adjacent to the previous location. Due to the proximity of the replacement well to the original location, background monitoring is not planned for MW6B. Monitoring wells MW9 and MW10 were installed in March 2001 and were added to Data Set 1 as of April 2001.

In 2006, five (5) new MWs (MW11 - MW15) were installed in conjunction with the proposed C&D landfill. These wells were added to Data Set 1 since they are downgradient of the active C&D and closed MSWLF and are considered Subset 1N. Subject to the final proposed C&D landfill design and groundwater monitoring plan, one of these monitoring wells may be designated as an upgradient well to the new landfill. Additionally, one or more of the related four new piezometers (PZ-50 through PZ-53) could also be converted into monitoring wells for the new landfill, as needed.

As part of the groundwater monitoring plan associated with the SWS-approved CAP (as of November 18, 2009) Harnett County has installed five (5) new monitoring wells, MW53, MW56, MW57, MW58 and MW59, downgradient of the apparent western boundary of the contamination plume as shown in Figure 2A. These wells have also been added to Data Set 1. Six new piezometers, PZ54 - PZ59 were also installed in this area.

Set 2 consists of wells monitoring the older closed portion of the landfill site, including MW16, MW23B, MW32, MW33, and the newer MW34 and MW35 installed in June 1996. Monitoring well MW23B has been statistically compared with Set 1 as it appears to be located downgradient of these wells.

Set 3 consists of surface water monitoring points (SWPTs) along the wetlands between the active and the closed areas, including SWPT1, SWPT2, and SWPT3. SWPT4 has been added

as of the April 2010 sampling event and will be eligible for SA within Set 3, if necessary, once four background sampling events have been completed.

Groundwater levels at all monitoring wells are also recorded, as shown in Table 1. As an overall average, groundwater levels during this latest sampling event were approximately 1.35 feet below the average groundwater level based on all sampling events, for each respective well.

As of October 2008, the groundwater elevation map (Figure 1) was updated with average contours based on data collected from January 2007 to May 2008, including data from MW11 - MW15. Table 1, Static Water Elevations, has been updated with data for MW6B, MW53, MW56-MW59, and the new casing elevation for MW4. In addition, Table 2, Groundwater Velocity Data, was updated to incorporate values for MW11 - MW15. Hydraulic conductivity testing for wells installed after MW11 - MW15 has not yet been conducted; therefore, newer wells are not included in the table which will be updated upon completion of these tests.

This report complies with the revised requirements of the Solid Waste Section (SWS), per the SWS Memoranda dated October 27, 2006, February 23, 2007, and October 16, 2007. Specifically, the Solid Waste Section Limits (SWSL) and lower Method Detection Limits (MDLs) were incorporated as of the October 2007 sampling event. The *15A NCAC 13B* groundwater protection standards (GPS) are considered for those constituents that lack a *15A NCAC 02L.0202* North Carolina Groundwater Standards (NCGS).

As required by the new rules, the Environmental Monitoring Reporting Form accompanies this submittal. Table 3 serves as the notification table required with this form and includes results which exceed a 2L NCGS or a 13B GPS. Because some of the SWSLs are greater than the NCGS or GPS, estimated values which exceed NCGS or GPS are included in Table 3. GPS have been included with NCGS in the historic summary tables in the Appendices for detections above the SWSL. However, these tables do not include the estimated detections below the SWSL and are not intended to be an exhaustive comparison to NCGS and GPS. For a complete listing of estimated concentrations, refer to the laboratory reports in Appendix D.

The new MDLs are significantly less than previous detection limits. The SWSLs are more similar to the previous detection limits but are lower for several constituents. Table 5 of this report provides a comprehensive comparison of 2L NCGS, 13B GPS, SWSL, and current and historical (2006) MDLs for constituents commonly detected at the Dunn-Erwin landfill. When compared to historical detection limits, the use of the generally lower SWSLs has resulted in an increase in the number of reported detections. Because historic data, including background sampling, was reported using much higher detection limits, estimated values are not incorporated into the SA, where utilized, except for the prediction interval intra-well comparison as discussed in Appendix E. Only results exceeding SWSLs are included in SA and presented in the summary tables found in Appendices A-C, as the SWSLs allow for a more consistent comparison of current and historical data.

This report incorporates the latest revisions NCGS and the GPS. Historical data have been comprehensively re-evaluated taking into consideration the revised NCGS or GPS. Historic **detections** were compared to the latest revisions with exceedances highlighted in the data set

tables and listed in this text. However, historic ***estimated*** concentrations which were **below previous GPS,** but **may exceed GPS of the latest revisions,** were not reconsidered.

The following inorganics exceeded NCGS or GPS during this sampling event in Set 1, representing an overall decrease of inorganic concentrations exceeding NCGS or GPS compared to the October 2011 results: cobalt in MW2 – MW11, MW13, MW53, MW57, and MW59; lead in MW7B; thallium in MW4, MW6B and MW7B; and vanadium in all wells sampled in the set except for MW5. With the exception of cobalt and lead in the corrective action area (MW6B and MW7B), inorganic exceedances were estimated concentration values, assumed to be background, and are not further evaluated using SA. It should also be noted that MW9 and MW15 could not be sampled in October 2012 as these wells did not produce sufficient groundwater for purging and sample collection.

The following Appendix I organics exceeded NCGS or GPS during this sampling event in Set 1: benzene, 1,1-dichloroethane, methylene chloride, tetrachloroethylene, trichloroethylene, and vinyl chloride. Exceedances were limited to wells MW6B, MW7B, MW8, MW10, MW53, MW57, and MW59 which are within the CA area and would not benefit from further SA at this time. Overall, concentrations were similar to the results of the April 2012 sampling event.

In addition to the Appendix I organics listed above, the Appendix II constituent bis(2-ethylhexyl)phthalate was detected in wells MW6B, MW7B, MW8, and MW10, at levels exceeding NCGS. Previously, this constituent had only been detected in MW6 in July 1996 and in MW7B in September 1995. The constituent was not reported in the equipment blank. However, given the rarity of previous detections and its common use as a plasticizer, it is considered that the detections could potentially be the result of external contamination. In case that bis(2-ethylhexyl)phthalate is reported again in October 2013 sampling (the next time Appendix II constituents are due to be sampled), further consideration will be provided.

For Set 2 inorganics, only barium and lead were detected, at concentrations less than the NCGS, similar to the results of the recent sampling events. No organics were detected in April 2012, consistent with the results from recent sampling events.

In Set 3, only zinc and toluene were detected, at concentrations less than the NCGS, representing increases to detected concentrations as compared to the last sampling event. Cobalt and vanadium exceeded GPS at SWPT1 - SWPT4 with estimated values.

Details of the statistical procedures, where utilized, are included in Appendix E. The results of the October 2012 sampling event are summarized and discussed for each constituent detected over the SWSL at each monitoring well or surface water monitoring point in Section III, entitled Results. Appendices A, B, C contain tabulated data for the individual wells with computer-generated results of the statistical analyses performed. Laboratory results with chain of custody forms are included in Appendix C. Based on evaluation of the current data and the August 2003 detailed plume investigation report, the following conclusions regarding groundwater contamination and future monitoring at the Dunn-Erwin MSWLF are presented:

- The previously active portion of the Dunn-Erwin solid waste landfill is now closed with a final cap. C&D waste is being placed on the cap area, as per SWS approval. Detected

parameters are compared with North Carolina Groundwater Standards (NCGS) and undergo statistical analysis, as appropriate.

- Harnett County has begun the implementation of corrective action program according to North Carolina Solid Waste Management Rules *15A N.C.A.C. 13 B, .1637,* as per SWS review and approval. A Corrective Action Plan, dated December 2008, with revisions in February 2009 and October 2009, has been approved by the Solid Waste Section (SWS). A leachate management system was approved per the SWS review letter dated November 17, 2009. Groundwater extraction and phytoremediation were approved per the SWS review letter dated November 18, 2009.

- Harnett County continues groundwater Assessment Monitoring in accordance with North Carolina Solid Waste Management Rule *15A N.C.A.C. 13 B, .1634.* The findings and conclusions of this report will be considered by Harnett County for the assessment of CAP for the groundwater contamination plume, downgradient of the existing landfill implemented by Harnett County in accordance with North Carolina Solid Waste Management Rules *15A N.C.A.C. 13B, .1635, .1636, and .1637,* and *15A N.C.A.C. 13B .0547.*

- Based on updated groundwater analytical data accumulated since October 1994 from the scheduled semi-annual sampling events, the top four organic contaminants most frequently detected in downgradient monitoring wells at concentrations that consistently have exceeded NCGS include 1,1-dichloroethane, methylene chloride, tetrachloroethylene, and trichloroethylene. Prior to this event and since October 2003, benzene had been detected in the downgradient plume only in MW9 (both results occurring during the 2006 events). However, benzene detections have increased over recent sampling events. The prevalence of benzene detections will be observed in future sampling events.

- Three of the organics mentioned in the previous paragraph, 1,1-dichloroethane, methylene chloride and trichloroethylene, were previously considered statistically significant in the semi-annual assessments. Historically, only methylene chloride had been consistently detected in average concentrations that are about one order of magnitude greater than NCGS. Therefore, methylene chloride was considered the key organic constituent in the groundwater contamination plume, downgradient of the MSWLF. With the 2010 revisions to the NCGS, the average concentrations compared to NCGS for 1,1-dichloroethane are now very similar to the ratio for methylene chloride, so going forward **both 1,1-dichloroethane and methylene chloride** are now considered as a key constituents in the CAP assessment.

- With 10 detections as of the October 2007 sampling event (including past events), vinyl chloride has qualified for inclusion into the contamination plume review starting October 2007. Vinyl chloride detections continued in October 2012. However, vinyl chloride results **are not** as prevalent as the other top organic contaminants, and because it has a **low 2L standard** the results show apparent large average concentration-to-NCGS ratios. It has been included in Figure 3 to observe in future events.

- As of October 1999 only wells MW6, MW7B, and MW8 had required annual sampling for Appendix II constituents while in assessment monitoring. All other monitoring wells of Set 1 were excluded from Appendix II sampling requirements based on approval of the North Carolina Solid Waste Section (SWS) from October 1999. However, the SWS requested in March 2007 that MW9 and MW10 also be added to the Appendix II testing since they are within the contaminant plume. Therefore, these five wells (MW6B, MW7, MW8, MW9, and MW10) are sampled for Appendix II constituents in October annually, as required by the SWS.

- All active monitoring well locations in Set 1 should continue to be sampled and analyzed for Appendix I constituents semi-annually as per North Carolina Solid Waste Management Rules 15A N.C.A.C. 13 B, .1633, with the next Appendix I sampling event scheduled for April 2013.

- All active monitoring wells in Set 2 should continue to be sampled and analyzed for Appendix I organics and the eight RCRA metals semi-annually while in detection monitoring. The next sampling event should occur in April 2013.

- All active surface water point locations in Set 3 should continue to be sampled and analyzed for Appendix I constituents semi-annually as per North Carolina Solid Waste Management Rules 15A N.C.A.C. 13 B, .1633, with the next Appendix I sampling event scheduled for April 2013.

- Beginning in April 2011, tetrahydrofuran (THF) is included in the analysis for all wells of Set 1 and all SWPTs of Set 3, per the SWS Memorandum dated June 25, 2010. THF was reported at MW8 and MW53 during this sampling event.

- Contaminant concentrations are similar in corrective action area wells as compared to the last sampling event. Average concentration-to-NCGS ratios values for October 2012 are generally consistent as compared to April 2012. The comparison indicates that plume concentrations are not currently decreasing.

- As per current SWS reporting requirements this submittal includes:
    - (i) Environmental Monitoring Reporting Form (hardcopy)
    - (ii) Summary Table 3 with the parameters that exceed 2L NCGS or 13B GPS in October 2012
    - (iii) A hard copy of the EXCEL sheets from the E1I lab
    - (iv) A hard copy of the complete assessment report

I. Introduction

The October 2012 groundwater sampling event performed at the Dunn-Erwin Municipal Solid Waste Landfill (MSWLF) fulfilled the County's semi-annual groundwater sampling and analyses requirements in accordance with North Carolina Solid Waste Management Rules *15A NCAC 13 B .1633* and *1634.*

Previously, an extensive study was completed in order to better understand the groundwater contamination plume at the site, as described in the report dated August 25, 2003, including the field investigation performed in October 2002 in conjunction with the scheduled October 2002 semi-annual sampling event. Also, 12 new observation wells were installed in the general area of the groundwater contamination plume during this field investigation. The field investigation was followed by additional laboratory testing, and an extensive analysis and computer modeling. Results from that study have been incorporated in this report also including the October 2002 delineation of the groundwater contaminant plume in the uppermost aquifer, downgradient of the MSWLF.

Several new wells (MW11, MW12, MW13, MW14, and MW15) and piezometers (PZ50, PZ51, PZ52, and PZ53) have been installed and are associated with the proposed new construction and demolition debris (C&D) landfill in the southwest of the groundwater contaminant plume area. The wells were added prior to the May 2007 sampling event, while the piezometers were added prior to the October 2010 sampling event. A new surface water sampling point, SWPT4, was added as of the April 2010 monitoring event, also associated with the C&D landfill.

As part of the groundwater monitoring plan associated with the SWS-approved CAP (as of November 18, 2009) Harnett County has installed (5) new monitoring wells, MW53, MW56, MW57, MW58 and MW59, downgradient of the apparent western boundary of the contamination plume as shown in Figure 2A. Six new piezometers, PZ54 - PZ59 were also installed in this area.

Conclusions and recommendations regarding subsequent sampling at the Dunn-Erwin MSWLF are presented in the Executive Summary. Figures 1, 2A and 2B show the facility layout and various groundwater monitoring wells and piezometers locations, respectively. Figure 1 also includes the downgradient area of the MSWLF with approximate contamination plume boundaries as updated in the CAP of October 2009.

II. Groundwater Levels

Table 1 shows historic groundwater levels within monitoring wells at the Dunn-Erwin landfill. Generally, groundwater levels during the October 2010 sampling event were approximately 1.35 feet below the average groundwater level based on all sampling events, for each respective well.

Table 2 shows estimated groundwater velocity data, previously calculated based on groundwater levels recorded in the October 1995 sampling event and updated to include average data from January 2007 to May 2008 for wells MW11 - MW15. Hydraulic

conductivity testing for wells installed after MW11 - MW15 has not been conducted yet; therefore, these newer wells are not included in the table. This table also incorporates an estimated range of site hydraulic conductivity and effective porosity values.

III. Results

This section reports results from the sampling event, including statistical tests performed on detected constituents greater than SWSL as of October 2007 outside of the CA plume area. A summary of upgradient wells (background wells) precedes the downgradient wells for each data set. The upgradient well summaries include a complete detection history for all sampling events per upgradient well. Downgradient well summaries include a brief detection history followed by the results of the statistical tests per detected constituent that exceeded SWSL outside of the plume.

Detections noted prior to October 2007 include all results which exceeded the historic detection limits for the respective constituents. Unless otherwise noted, a detection is now defined as a result that exceeds the SWSL as of October 2007. Estimated values (greater than the current MDL but less than the SWSL) are not listed except for some instances to compare to NCGS or GPS.

Table 3 lists parameters exceeding NCGS or GPS during this sampling event. ***Table 3 is intended to also serve as the notification table that is required with the Environmental Monitoring Reporting Form.*** To allow for a concise and legible summary, only monitoring wells with results that exceeded NCGS or GPS are listed. Results for monitoring wells or parameters not listed did not exceed NCGS or GPS. It should also be noted that Table 3 includes estimated values.

Detailed summary tables of constituent detections over the SWSL per monitoring well, recommended statistical tests per constituent, and results of the respective statistical tests when utilized are enclosed in Appendices A, B, and C for Data Sets 1, 2, and 3, respectively. Laboratory analytical data and chain of custody forms are included in Appendix D.

Additionally, Table 4 includes the analysis of cumulative results from all sampling events of the ongoing scheduled semi-annual analyses since October 1994, showing the summary of all organic detections in Data Set 1 that includes downgradient (compliance) monitoring wells MW2, MW3R, MW4, MW5, MW6B, MW7B, MW8, MW9, MW10, MW11, MW12, MW13, MW14, MW15, and MW23B.

Page 11 of 12 in Table 4 shows overall average concentration of organics detections with respect to the number of detections, and the average-concentration-to-NCGS ratio (ANR). The criteria selected to identify main organic constituents include these that had 10 or more detections with an ANR that approaches or exceeds 1.0. Vinyl chloride was added to the list of main constituents after it reached 10 detections.

In Table 4, Page 11 of 12, five organic compounds shown in bold face were identified as the top organic constituents in the groundwater contamination plume, including benzene,

1,1-dichloroethane, methylene chloride, tetrachloroethylene, trichloroethylene, and vinyl chloride. 1,1-dichloroethane had been added to this list due to its NCGS revision from 700 to 70 ug/l in 2006. Vinyl chloride had been added after it had 10 detections (as of October 2007).

An analysis to verify that these main organic constituents are consistent within the assumed area of the groundwater contamination plume was performed. The analysis included average concentration of organics detections, number of detections, and ANR values detected only in compliance wells MW6B, MW7B, MW8, MW9, and MW10, and averaged only over these five (5) wells for all sampling events since October 1994. The results shown in Table 4, Page 12 of 12 verify that the main organic constituents that had 10 or more detections with an ANR that exceeds 1.0, shown in bold face, are benzene, 1,1-dichloroethane, methylene chloride, tetrachloroethylene, trichloroethylene, and vinyl chloride.

To obtain time-line perspective of these organics detections, Figure 3 shows the average ANR values per each scheduled semi-annual sampling event in the five downgradient wells located within the estimated groundwater contamination plume area for these five organic constituents. The Figure shows that methylene chloride, 1,1-dichloroethane, trichloroethylene, and tetrachloroethylene have been detected with ANR values exceeding 1.0 since the beginning of data collection in October 1994, while benzene has only been detected with ANR values exceeding 1.0 since March 1999. Vinyl chloride shows high ANR values due to a relatively lower NCGS. It is likely the vinyl chloride detections are a result of the degradation of the larger chlorinated compounds.

Historically, methylene chloride had been detected most consistently with the highest ANR values, with a maximum of 31. Previously, methylene chloride was also the only SSIOBL organic constituent that had consistently been detected in the plume area in concentrations that exceed NCGS by about one order of magnitude. However, the NCGS for 1,1-dichloroethane was revised from 70 ug/l to 6 ug/l in 2010. As a result, the ANR values for 1,1-dichloroethane are now very similar to the ANR values for methylene chloride. With the NCGS revisions, it appears that 1,1-dichloroethane and methylene chloride can be considered the key organic constituents in this groundwater contamination plume.

ANR values for October 2012 are generally consistent as compared to the ANR values from April 2012. The comparison indicates that plume concentrations are not currently decreasing.

SET 1

Upgradient Wells (Background Wells):

MW1: MW1 is an upgradient well for MW2, MW3, MW4, MW5, MW6, MW7B, MW8, and MW23B (which is a Set 2 monitoring well). Historically, this well has shown inorganic concentrations above the detection limit for barium, beryllium, cadmium, chromium, cobalt, copper, lead, nickel, tin, vanadium, and zinc. Of these constituents, barium exceeded NCGS in one sampling event with a concentration of 1.68 mg/l in January 1995. Cadmium exceeded NCGS in one sampling event with a concentration of 0.004 mg/l in January 1995. Chromium exceeded NCGS in four sampling events with concentrations of 0.018, 0.011, 0.013, and 0.02 in January and March 1995, April 1997, and April 1998. Cobalt exceeded 13B GPS in one sampling event with a concentration of 0.016 mg/l in January 1995. Lead exceeded NCGS in five sampling events with concentrations of 0.104, 0.104, 0.02, 0.028, and 0.018 mg/l in January, March and September 1995, and April and October 1997, respectively. Vanadium exceeded 13B GPS in six sampling events with concentrations of 0.02 and 0.083 mg/l in October 1994 and January 1995, respectively, and *estimated* results of 0.9, 0.61, 0.32, and 0.7 ug/l in October 2010, April 2011, October 2011, and October 2012, respectively. Historically, carbon disulfide and diethylphthalate have been the only organic constituents detected in MW1. No constituents were detected at MW1 during this latest sampling event.

The following summarizes the history of detected concentrations for each metal constituent:

barium: Barium was detected in six sampling events for MW1 with concentrations of 0.252, 0.024, 1.68, 0.586, 0.083, and 0.1 mg/l in October and November 1994, January and March 1995, October 1997, and October 1998, respectively.

beryllium: Beryllium was detected in ten sampling events for MW1 with concentrations of 0.024, 0.006, 0.002, 0.002, 0.003, 0.006, 0.001, 0.004, 0.003, 0.002, 0.002, and 0.001 mg/l in January, March, and September 1995, April and October 1996, April and October 1997, April and October 1998, October 1999, and April 2002, and October 2009, respectively.

cadmium: Cadmium was detected in four sampling events for MW1 with concentrations of 0.0008, 0.001, 0.004, and 0.011 mg/l, in October and November 1994 and January and March 1995, respectively.

chromium: Chromium was detected in five sampling events with concentrations of 0.005, 0.018, 0.011, 0.013, 0.02 mg/l in October 1994, January and March 1995, April 1997, and April and October 1998, respectively.

cobalt: Cobalt was detected in only one sampling event for MW1 with a concentration of 0.016 mg/l in January 1995.

copper: Copper was detected in four sampling events for MW1 with concentrations of 0.017, 0.078, 0.018, and 0.007 mg/l in October 1994, January and March 1995, and October 1997, respectively.

lead: Lead was detected in six sampling events for MW1 with concentrations of 0.005, 0.104, 0.104, 0.02, 0.028, and 0.018 mg/l in October 1994 and January, March, and September 1995, and April and October 1997, respectively.

nickel: Nickel was detected for one sampling event in MW1 with a concentration of 0.03 mg/l in January 1995.

vanadium: Vanadium was detected in two sampling events for MW1 with concentrations of 0.02 and 0.083 mg/l in October 1994, and January 1995, respectively.

zinc: Zinc was detected in eight sampling events in MW1 with concentrations of 0.098, 0.012, 0.237, 0.038, 0.08, 0.065, 0.08, and 0.011 mg/l in October and November 1994 and January , March, and September 1995, April 1997, April 2004, and May 2007, respectively.

The following organics have been detected in MW1:

carbon disulfide: Carbon disulfide was detected in two sampling event in MW1 with concentrations of 20.9 and 7.4 mg/l in November 1994 and October 1999, respectively.

diethylphthalate: Diethylphthalate was detected in three sampling events for MW1 with concentrations of 5.3, 5.3 and 9.8 ug/l in September 1995, April 1996 and April 1997, respectively.

MW31: MW31 is a background well for MW2, MW3, MW4, MW5, MW6, MW7B, MW8 and MW23B. The detected metals in MW31 have been barium, beryllium, cadmium, chromium, cobalt, copper, lead, vanadium, and zinc. Of these, arsenic exceeded NCGS in three sampling event with concentrations of 0.055, 0.011, and 0.032 mg/l in September 1995, April 1996, and April 1997. Cadmium exceeded NCGS in three events with concentrations of 0.005, 0.003, and 0.003 in January 1995, March 1995, and September 1995, respectively. Chromium exceeded NCGS in ten events with concentrations of 0.021, 0.015, 0.021, 0.21, 0.044, 0.124, 0.06, 0.04, 0.08, and 0.1 mg/l in October and November 1994, September 1995, April 1996, April and October 1997, October 1998, and March and October 1999, respectively. Cobalt exceeded 13B GPS in two events with concentrations of 0.007 and 0.02 mg/l in January and September 1995, respectively. Lead exceeded NCGS in nine events with concentrations of 0.0052, 0.033, 0.17, 0.031, 0.088, 0.045, 0.03, 0.05, and 0.06 mg/l in January, March and September 1995, April 1996, April and October 1997, October 1998, and March and October 1999, respectively. Vanadium exceeded the 13B GPS in ten events with concentrations of 0.045, 0.026, 0.032, 0.08, 0.41, 0.087, 0.235, 0.11, 0.04, 0.13 mg/l in October and November 1994, January, March, and September 1995, April

1996, April and October 1997, October 1998, and March 1999, respectively. Vanadium also exceeded 13B GPS in 11 events with *estimated* results of 6.6, 20.7, 19.9, 6.2, 6.5, 4.3, 1.5, 14.4, 17.2, 1.0, and 0.38 ug/l in October 2007, April 2008, October 2008, April and October 2009, April and October 2010, April and October 2011, and April and October 2012, respectively. There have been no detected organics in MW31. No constituents were detected at MW31 during this latest sampling event.

The following summarizes the history of detected concentrations for each metal constituent in MW31:

arsenic: Arsenic was detected in five sampling events for MW31 with concentrations of 0.005, 0.055, 0.011, 0.032, and 0.005 mg/l in March and September 1995 April 1996, and April and October 1997, respectively.

barium: Barium was detected in four sampling events for MW31 with concentrations of 0.04, 0.157, 0.097, and 0.098 mg/l in October 1994, January and March 1995, and October 1997 respectively.

beryllium: Beryllium was detected in four sampling events for MW31 with concentrations of 0.028, 0.006, 0.003, 0.001 and 0.005 mg/l in November 1994, September 1995, April and October 1997, and October 1999, respectively.

cadmium: Cadmium was detected in four sampling events for MW31 with concentrations of 0.005, 0.003, 0.003, and 0.001 mg/l in January, March, and September 1995, and April 1997, respectively.

chromium: Chromium was detected in nine sampling events for MW31 with concentrations of 0.021, 0.015, 0.021, 0.21, 0.044, 0.124, 0.06, 0.04, 0.01, and 0.01 mg/l in October and November 1994, January and September 1995, April 1996, April and October 1997, October 1998, October 1999, and April 2000, respectively.

cobalt: Cobalt was detected in two sampling events for MW31 with concentrations of 0.007 and 0.02 mg/l in January and September 1995, respectively.

copper: Copper was detected in eight sampling events for MW31 with concentrations of 0.011, 0.006, 0.052, 0.033, 0.017, 0.033, 0.043, and 0.06 mg/l, in October and November 1994, January, March, and September 1995, April 1996, April 1997, and October 1998, respectively.

lead: Lead was detected in ten sampling events for MW31 with concentrations of 0.011, 0.006, 0.052, 0.033, 0.017, 0.031, 0.088, 0.045, 0.03, 0.06, 0.014, and 0.013 mg/l, in October and November 1994, January, March,

and September 1995, April 1996, April and October 1997, October 1998, October 1999, April 2008, and October 2008, respectively.

vanadium: Vanadium was detected for ten sampling events for MW31 with concentrations of 0.045, 0.026, 0.032, 0.08, 041, 0.087, 0.235, 0.11, 0.04, and 0.13 mg/l, in October and November 1994, January, March, and September 1995, April 1996, April and October 1997, October 1998, and March 1999, respectively.

zinc: Zinc was detected for nine sampling events in MW31 with concentrations of 0.017, 0.01, 0.027, 0.037, 0.07, 0.05, 0.04, 0.01, 0.017, and 0.01 mg/l, in October and November 1994, January, March, and September 1995, April 1996, October 1997, October 1998, October 1999, May 2007, and April 2008, respectively.

Downgradient Wells (Compliance Wells):

MW2: Compliance well MW2 has shown inorganic detections for arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, nickel, vanadium, and zinc. Of these, arsenic exceeded NCGS in one event, with a concentration of 0.033 in September 1995. Barium exceeded NCGS in one event, with a concentration of 0.82 in September 1995. Cadmium exceeded NCGS in two events, with concentrations of 0.003 and 0.004 mg/l in March and September 1995, respectively. Chromium exceeded NCGS in four events, with concentrations of 0.033, 0.02, 0.02, and 0.017 mg/l in November 1994, March and September 1995, and April 1997, respectively. Cobalt exceeded 13B GPS with concentrations of 0.009, 0.01, and 0.07 mg/l in November 1994 and March and September 1995, respectively, and with *estimated* results of 1.3, 1.3, 1.2, and 1.4 ug/l in October 2010, and April and October 2011. Lead exceeded NCGS in four events, with concentrations of 0.025, 0.025, 0.041, and 0.025 mg/l in November 1994 and January, March and September 1995, respectively. Vanadium exceeded the 13B GPS with concentrations of 0.24, 0.022, 0.07, and 0.05 mg/l in October 1994 and January, March and September 1995, and with e*stimated* results of 3.6, 0.9, 6.2, 0.89, 1.0, and 3.9 ug/l in October 2008, October 2010, April and October 2011, and April and October 2012, respectively. Diethylphthalate, an Appendix II constituent not included in Appendix I, was detected in September 1995 in MW2. This was the only organic constituent detected for all sampling events in MW2. Beryllium and zinc were the only constituents detected at MW2 during this latest sampling event. Neither result exceeded NCGS or GPS and SA was not performed.

MW3R: Compliance well MW3R has replaced compliance well MW3. Groundwater data from sampling events prior to October 2005 from MW3 have been utilized to compare with the data for MW3R sampled beginning in October 2005.

Compliance well MW3 and/or MW3R previously had metal detections for barium, beryllium, cadmium, chromium, cobalt, copper, lead, vanadium, and zinc. Cadmium, exceeded NCGS in two sampling events with concentrations of 0.002 and 0.011 mg/l in November 1994 and March 1995, respectively. Chromium exceeded NCGS in one event, with a concentration of 0.014 in April 2002. Cobalt exceeded 13B GPS with concentrations of

0.005 and 0.012 mg/l in November 1994 and January 1995 and with *estimated* results of 2.6, 2.1, 3, and 2.1 ug/l in October 2010, April and October 2011, and October 2012, respectively. Vanadium exceeded the 13B GPS with concentrations of 0.009 and 0.07 mg/l in October 1994 and March 1995 and with *estimated* results of 4.3, 1.1, 1.9, 0.33, 0.35, and 0.4 ug/l in October 2008, October 2010, April and October 2011, and April and October 2012, respectively. Carbon disulfide has been the only organic constituent detected in MW3/3R. Beryllium and zinc were the only constituents detected at MW3 during this latest sampling event. The results did not exceeded NCGS or GPS and SA was not performed.

MW4: The casing for MW4 has been extended as of the October 2010 sampling event to account for flooding in the area of the well. MW4 has had a history of detections of the inorganics barium, beryllium, cadmium, chromium, cobalt, copper, lead, nickel, vanadium, and zinc. Beryllium exceeded the 13B GPS with a result of 6.0 and 7.0 ug/l in October 2008 and April 2011, respectively. Chromium exceeded NCGS in three events, with concentrations of 0.024, 0.011, and 0.03 in November 1994, October 1996 and October 1999, respectively. Cadmium has exceeded NCGS in one event with a concentration of 0.004 mg/l in March 1995. Cobalt exceeded 13B GPS with concentrations of 0.011 and 0.01 mg/l in November 1994 and October 1999, and with *estimated* results of 1.5 , 3.3, 2, 1.8, and 2.0 ug/l in October 2010, April 2011, October 2011, and April and October 2012, respectively. Lead has exceeded NCGS in two events: 0.018 mg/l in both November 1994 and October 1996. Thallium exceeded the 13B GPS with *estimated* results of 0.32 and 0.3 ug/l in October 2011 and October 2012, respectively. Vanadium exceeded the 13B GPS with concentrations of 0.034 and 0.05 mg/l in November 1994 and October 1999 and with *estimated* results of 0.7, 14.5, 0.62, 0.72, and 0.54 ug/l in October 2010, April and October 2011, and April and October 2012, respectively. Carbon disulfide and diethylphthalate have been the only detected organics for MW4, however no organics were detected in this latest sampling. Beryllium and zinc were the only constituents detected at MW4 during this latest sampling event. Neither result exceeded NCGS or GPS and SA was not performed.

MW5: Compliance well MW5 had shown above the detection limit inorganic concentrations for barium, cadmium, chromium, copper, lead, nickel, vanadium, and zinc. Of these, arsenic exceeded NCGS in one sampling event with a concentration of 0.02 mg/l in April 2000. Cobalt exceeded the 13B GPS with *estimated* results of 4.7, 2.2, 1.2, and 2.6 ug/l in October 2010 and October 2011, respectively. Vanadium exceeded the 13B GPS with a concentration of 0.006 mg/l in October 1994 and *estimated* results of 4.0, 0.8, and 0.74 ug/l in October 2008, October 2010, and April 2011, respectively. Carbon disulfide has been the only organic constituent detected with a concentration of 30.5 and 6.4 ug/l in November 1994 and October 1999. Only barium was detected at MW5 during this latest sampling event. The result did not exceed NCGS or GPS and SA was not performed.

MW6: Compliance well MW6B has replaced compliance well MW6 as of the October 2010 sampling event. Due to the proximity of the replacement well to the original location, background monitoring is not planned for MW6B and data from MW6B will be compared to historic detections at MW6. Compliance well MW6 and/or MW6B previously had inorganic detections for arsenic, barium, cadmium, chromium, cobalt, copper, lead, mercury, nickel, vanadium, and zinc.

Cadmium has exceeded NCGS in three sampling event with concentrations of 0.005, 0.009, and 0.004 mg/l in October and November 1994 and January 1995, respectively.

Chromium has exceeded NCGS in four sampling events with concentrations of 0.033, 0.02, 0.012, and 0.017 mg/l in November 1994, April 1996, April 1997, and April 2002, respectively.

Cobalt exceeded 13B GPS in 24 events with concentrations of 0.011, 0.009, 0.01, 0.01, 0.011, 0.012, 0.013, 0.019, 0.015, 0.015, 0.019, 0.017, 0.013, 0.017, 0.016, 0.028, 0.017, 0.03, 0.027, 0.02, 0.022, 0.034, 0.029, 0.060, 0.039, 0.046, and 0.068 mg/l in April and October 1997, March 1999, April 2000, April and October 2001, April 2002, April 2003, October 2003, April and October 2004, April and October 2005, April and October 2006, May and October 2007, April and October 2008, April and October 2009, April and October 2010, April 2011 and October 2011, and April and October 2012, respectively.

Lead has exceeded NCGS in six sampling events with concentrations of 0.019, 0.033, 0.037, 0.019, and 0.019 mg/l in November 1994, January and September 1995, April 1996, and April 2010, respectively.

Mercury exceeded NCGS in two sampling events with a concentration of 0.002 mg/l in October 1999.

Thallium exceeded 13B GPS with *estimated* results of 0.35, 0.5, and 0.92 ug/l in October 2011, and April and October 2012, respectively.

Vanadium exceeded 13B GPS with concentrations of 0.008, 0.074, 0.026, and 0.055 mg/l in October and November 1994, January 1995, and April 1996, and with *estimated* results of 7.3, 5.5, 5.6, 24.3, 6.9, 5.8, 10.9, 4.3, and 6.0 ug/l in October 2007, October 2008, April 2009, April and October 2010, April and October 2011, and April and October 2012, respectively.

Zinc exceeded NCGS in one sampling event with a concentration of 91.5 mg/l in October 2004.

Barium and cobalt were the detected inorganic constituents during this latest sampling event at MW6B. Although cobalt exceeded GPS, MW6 is within the CA area and SA is not applicable at this time.

Detected organics for MW6/MW6B include acetone, benzene, bis(2-ethylhexyl)phthalate, carbon disulfide, carbon tetrachloride chlorobenzene, 1,4-dichlorobenzene, chloroethane, 1,1-dichloroethane, 1,1-dichloroethene, dichlorodifluoromethane, methylene chloride, 1,1,1-trichlroethane, trichloroethylene, vinyl chloride, and xylenes.

Benzene has exceeded NCGS in 13 sampling events with concentrations of 2.7, 3.4, 9.5, 6.1, 4.2, 4.9, 2.4, 3.3, 5.7, 5.7, 6.7, 4.3, and 3.8 ug/l in March and October 1999, April 2001, October 2007, April and October 2008, April 2009, April and October 2010, April 2011, and April and October 2012, respectively.

Carbon tetrachloride exceeded NCGS in October 2009 with a concentration of 2.9 ug/L.

Chlorobenzene exceeded NCGS in October 1998 with a concentration of 70 ug/l.

Chloromethane exceeded NCGS in one sampling event with a concentration of 46 ug/l in April 2000.

1,4-dichlorobenzene has exceeded NCGS in seven sampling events with concentrations of 7.2, 6.9, 7.7, 7.4 7, 6.8, and 8 ug/l in April 2001, October 2005, October 2007, April 2008, October 2010, and April and October 2011, respectively.

1,1-dichloroethane has exceeded NCGS in 24 sampling events with concentrations of 78.9, 51.7, 105, 87.1, 67, 66, 61, 80, 134, 160, 30.1, 88, 64, 41, 37, 27, 28, 27.7, 6.6, 18.4, 13.1, 7.4, 8.9, 33.2, 18.6, 18.4, 13.9, 22.7, 9.2, 8.4, and 6.3 ug/l in October and November 1994, January, March, and September 1995, February, April and October 1996, April and October 1997, April 1998, March and October 1999, April and October 2000, October 2001, April and October 2002, April and October 2003, April and October 2004, April and October 2005, April and October 2006, May and October 2007, April and October 2008, and October 2010, respectively.

1,1-dichloroethene has exceeded NCGS in one sampling event with a concentration of 83.2 ug/l in January 1995.

1,2-dichloroethane has exceeded 13B GPS in four sampling events with *estimated* results of 0.6, 0.4, 0.6, and 0.5 ug/l in October 2007, April 2008, October 2010, and October 2011, respectively.

Methylene chloride has exceeded NCGS in 14 sampling events with concentrations of 66, 109, 47, 37, 34.8, 28.2, 12.8, 64.5, 20.1, 12.9, 8.8, 33, 9.0, and 6.3 ug/l in October 2000, April and October 2001, April and October 2002, October 2003, April 2004, October 2005, April and October 2006, May and October 2007, October 2008, and October 2009, respectively.

Tetrachloroethylene has exceeded NCGS in 20 sampling events with concentrations of 5.3, 3.8, 5.6, 1.9, 8.2, 7.1, 6.2, 8.0, 6.9, 9.3, 4.5, 3.8, 1.8, 5.3, 4.9, 4.7, 5.9, 6.9, 5.2, and 3.9 ug/l in October 1994, January and March 1995, October 1999, April 2001, October 2005, April and October 2006, May and October 2007, April and October 2008, April and October 2009, April and October 2010, April and October 2011, and April and October 2012, respectively.

Trichloroethylene has exceeded NCGS in 27 sampling events with concentrations of 8.4, 6.7, 10.6, 8.8, 7.2, 6.8, 11, 9.9, 8.7, 7.0, 17, 5.4, 5.2, 8.8, 7.1, 8.1, 7.7, 9.24, 5.9, 4.9, 4.7, 4.8, 6.1, 6.3, 7.1, 5.2, and 4.0 ug/l in October and November 1994, January and March 1995, February and October 1996, April and October 1997, October 1999, April 2000, April and October 2001, April 2002, October 2005, April and October 2006, May and October 2007, April and October 2008, October 2009, April and October 2010, April and October 2011, and April and October 2012, respectively.

Vinyl chloride has exceeded NCGS in 14 sampling events with concentrations of 22, 11.2, 8, 7.2, 6.3, 10.8, 2.6, 5.0, 6.2, 5.2, 5.4, 8.2, 3.9, and 3.9 ug/l in April 2001, April 2006, May and October 2007, April and October 2008, April and October 2009, April 2010, April and October 2011, and April and October 2012, respectively.

Bis(2-ethylhexyl)phthalate has exceeded NCGS in two sampling events with concentrations of 6.8 and 39.6 ug/l in July 1996 and October 2012, respectively.

Benzene, 1,4-dichlorobenzene, cis-1,2-dichloroethene, tetrachloroethylene, trichloroethylene, vinyl chloride, and bis(2-ethylhexyl)phthalate were the detected organics at MW6 during this latest sampling event. With the exception of 1,4-dichlorobenzene and cis-1,2-dichloroethene, the detected constituents exceeded NCGS. However, MW6 is within the CA area and SA is not applicable at this time.

MW7B: Compliance well MW7B has replaced compliance well MW7. Groundwater data from previous sampling events (October and November 1994, and January and March 1995) from MW7 have been utilized to compare with the data for MW7B sampled since September 1995.

Detected metals in MW7 and/or MW7B include arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, nickel, vanadium, zinc, and mercury.

Arsenic exceeded NCGS in three sampling events with concentrations of 0.033, 0.032, and 0.279 mg/l in September 1995, April 1997, and October 1997, respectively.

Barium exceeded NCGS in two sampling events with concentrations of 0.892 and 0.9 mg/l in October 1994 and March 1999, respectively.

Cadmium exceeded NCGS in two sampling events with concentrations of 0.004 in both September 1995 and April 1997.

Chromium exceeded NCGS in ten sampling events with concentrations of 0.03, 0.04, 0.09, 0.02, 0.021, 0.071, 0.011, 0.09, 0.014, and 0.013 mg/l in October 1994, March and September 1995, April and October 1996, April and October 1997, March 1999, October 2000, and April 2002, respectively.

Cobalt exceeded 13B GPS in 31 sampling events with concentrations of 0.146, 0.013, 0.04, 0.012, 0.018, 0.011, 0.07, 0.02, 0.019, 0.020, 0.014, 0.024, 0.017, 0.025, 0.022, 0.019, 0.015, 0.022, 0.032, 0.031, 0.025, 0.026, 0.031, 0.036, 0.024, 0.029, 0.021, 0.012, 0.028, 0.013, and 0.027 mg/l in October 1994, March and September 1995, April 1996, April and October 1997, March and October 1999, October 2000, April and October 2001, October 2002, April and October 2003, April and October 2004, April and October 2005, April and October 2006, May and October 2007, April and October 2008, April and October 2009, April 2010, April and October 2011, and April and October 2012, respectively; and with an estimated result of 9.6 ug/l in October 2010.

Lead exceeded NCGS in 26 sampling events with concentrations of 0.519, 0.044, 0.36, 0.196, 0.087, 0.264, 0.062, 0.070, 0.71, 0.05, 0.10, 0.036, 0.017, 0.020, 0.035, 0.018, 0.027, 0.019, 0.031, 0.019, 0.061, 0.023, 0.017, 0.034, 0.052, and 0.041 mg/l in October 1994, March and September 1995, April and October 1996, April and October 1997, April 1998, March and October 1999, April and October 2000, October 2001, April 2002, October 2003, October 2004, and April and October 2005, October 2007, October 2008, October 2009, April and October 2010, October 2011, and April and October 2012, respectively.

Mercury exceeded NCGS in six sampling events with concentrations of 0.0027, 0.00142, 0.0011, 0.0015, 0.0046, and 0.0026 mg/l in October 2002, October 2003, October 2004, October 2005, October 2006, and October 2007, respectively.

Thallium exceeded 13B GPS with *estimated* results of 0.5, 0.4, 2.8, 1.1, 0.8, 0.81, 1.0, 0.76, and 1.2 ug/l in October 2007, April 2008, October 2008, October 2009, April 2010, April and October 2011, and April and October 2012, respectively.

Vanadium exceeded 13B GPS with concentrations of 0.197, 0.06, 0.23, 0.064, 0.054, 0.169, and 0.21 mg/l in October 1994, March and September 1995, April and October 1996, April 1997, and March 1999, respectively, and with *estimated* results of 14.2, 10.7, 1.5, 0.47, 0.85, 2.1, and 0.88 ug/l in October 2007, October 2009, October 2010, April and October 2011, and April and October 2012, respectively.

Barium, cobalt, and lead were the detected metals at MW7B during this latest sampling event. Although cobalt and lead exceeded GPS, MW7B is within the CA area and SA is not applicable at this time.

Detected organics have included benzene, chlorobenzene, chloroethane, 1,4-dichlorobenzene, cis-1,2-dichloroethene, 1,1-dichloroethene, 1,1-dichloroethane, 1,2-dichloroethane, methylene chloride, toluene, 1,1,1-trichloroethane, tetrachloroethylene, trichloroethylene, trichlorofluoromethane, xylenes, dichlorodifluoromethane, diethylphthalate, and bis(2-ethylhexyl)phthalate. Tetrahydrofuran, which has been included in the analysis since April 2011, has been detected two times.

Benzene has exceeded NCGS in 13 sampling events with concentrations of 1.1, 4.7, 4.1, 4.2, 5.8, 4.6, 9.4, 9.5, 7.3, 6.4, 6.9, 5.9, and 7.1 ug/l in March 1999, May 2007, October 2007, April and October 2008, April and October 2009, April and October 2010, April and October 2011, and April and October 2012, respectively.

Chloromethane has exceeded NCGS in one sampling event with a concentration of 64 ug/l in April 2000.

1,1-dichloroethane has exceeded NCGS in 36 sampling events with concentrations of 262, 69.7, 52.4, 100, 92, 77, 100, 56, 30, 99.5, 110, 210, 170, 90, 176, 230, 87.1, 220, 141, 137, 113, 147, 22.5, 176, 174, 153, 129, 15.1, 114, 110, 136, 140, 120, 142, 85.9, and 108 ug/l in October and November 1994, March and September 1995, February, April and October 1996, April and October 1997, April 1998, March and October 1999, April and October 2000, October 2001, April and October 2002, April and October 2003,

April and October 2004, April and October 2005, April and October 2006, May and October 2007, October 2008 and April and October 2009, April and October 2010, April and October 2011, and April and October 2012, respectively.

1,2-dichloroethane has exceeded NCGS in two sampling events with a concentration of 8.7 ug/l in April 2003 and *estimated* concentrations of 0.4 and 0.5 ug/L in October 2008 and April 2011, respectively.

1,1-dichloroethene has exceeded NCGS in one sampling event with a concentration of 8.1 ug/l in April 2003.

Methylene chloride has exceeded NCGS in 24 sampling events with concentrations of 60, 75, 138, 154, 26.4, 174, 70.3, 93.3, 101, 75.1, 59.6, 79.9, 74.1, 74.5, 45.5, 69, 80.9, 45.3, 79.9, 60.8, 60.1, 70.2, 56, and 38.5 ug/l in October 2000, April and October 2001, April and October 2002, April and October 2003, April and October 2004, April and October 2005, April and October 2006, May and October 2007, October 2008, April and October 2009, April and October 2010, April and October 2011, and April and October 2012, respectively.

Tetrachloroethylene exceeded NCGS in 12 sampling events with concentrations of 9.0, 3.7, 3.2, 3.7, 3.3, 7.3, 4.9, 4.7, 3.5, 5.7, 2.4, and 2.7 ug/l in October 2005, October 2007, April and October 2008, April and October 2009, April and October 2010, April and October 2011, and April and October 2012, respectively.

Trichloroethylene exceeded NCGS in 25 sampling events, with concentrations of 9.9, 10.7, 3.6, 7.8, 6.0, 5.3, 7.3, 8.8, 6.8, 7.6, 7.7, 7.5, 10.5, 9.9, 8.8, 9.2, 9.1, 8.8, 7.8, 10.9, 10.2, 9.8, 7.7, 10.5, and 7.3 ug/l in October and November 1994, March and October 1999, April 2000, April and October 2001, April 2002, October 2003, April and October 2004, April 2005, April and October 2006, May and October 2007, April and October 2008, April and October 2009, April and October 2010, and April and October 2011, and October 2012, respectively.

Vinyl chloride has exceeded NCGS in 12 sampling events with concentrations of 5, 5, 3.9, 8.2, 4.3, 6.4, 6.4, 5.8, 4.0, 7.2, 3.7, and 5.3 ug/l in May and October 2007, April and October 2008, April and October 2009, April and October 2010, April and October 2011, and April and October 2012, respectively.

Bis(2-ethylhexyl)phthalate exceeded NCGS in two sampling event with concentrations of 24 and 28.5 ug/l in September 1995 and October 2012, respectively.

1,1,2,2-tetrachloroethane exceeded 13B GPS with an *estimated* result of 1.0 ug/l in October 2008.

During this latest sampling event, benzene, cis-1,2-dichloroethene, 1,1-dichloroethane, methylene chloride, tetrachloroethylene, trichloroethylene, vinyl chloride, and bis(2-ethylhexyl)phthalate were detected at MW7B. With the exception of cis-1,2-dichloroethene, the detected constituents exceeded NCGS. However, MW7B is within the CA area and SA is not applicable at this time.

MW8: Compliance well MW8 has shown above detection limit inorganic concentrations for barium, beryllium, cadmium, chromium, copper, lead, vanadium, zinc, cyanide, and mercury.

Arsenic exceeded NCGS in one sampling event with a concentration of 0.015 mg/l in April 1997.

Cadmium exceeded NCGS in two sampling events with a concentration of 0.002 mg/l in both November 1994 and April 1997.

Chromium exceeded NCGS in three sampling events with concentrations of 0.013, 0.111, and 0.022 mg/l in November 1994, April 1997, and October 2001.

Cobalt exceeded GPS in five sampling events with *estimated* results of 1.3, 1.7, 1.4, 1.5, and 1.3 ug/l in October 2010, April and October 2011, and April and October 2012, respectively.

Lead exceeded NCGS in one sampling event with a concentration of 0.073 mg/l in April 1997.

Vanadium exceeded GPS with concentrations of 0.045, 0.41, and 0.063 mg/l in November 1994, April 1997, and October 2001, and *estimated* results of 2.1, 0.94, 0.96, 0.71, and 1.2 ug/l in October 2010, April and October 2011, and April and October 2012, respectively.

Cyanide exceeded NCGS in one sampling event with a concentration of 0.127 mg/l in October 1996. Mercury exceeded NCGS in one sampling event with a concentration of 0.002 mg/l in October 1998.

No inorganics were detected at MW8 during the latest sampling event.

Detected organics at MW8 have included benzene, cis-1,2-dichloroethene, carbon disulfide, chloroethane, chloromethane, 1,4-dichlorobenzene, 1,1-dichloroethane, methylene chloride, dichlorodifluoromethane, vinyl chloride, and xylenes. Tetrahydrofuran, which has been included in the analysis since April 2011, has been detected twice.

Benzene exceeded NCGS in 13 sampling events, with concentrations of 2.1, 1.6, 2.6, 2.5, 2.9, 2.6, 25.2, 5.6, 5.7, 4.1, 4.9, 4.3, and 5.0 ug/l in October 1997, March 1999, October 2007, April and October 2008, April and October 2009, April and October 2010, April and October 2011, and April and October 2012, respectively.

Chloromethane exceeded NCGS in three sampling events, with concentrations of 6.1, 88, and 25 ug/l in October 1999, April 2000, and October 2001, respectively.

1,1-dichloroethane exceeded NCGS in 33 sampling events with concentrations of 6.4, 11, 7.8, 45, 47, 10.2, 39, 37, 59, 92, 44, 135, 80, 76.8, 71.5, 59.2, 42.7, 31, 38.9, 59, 58.6, 63, 49.1, 54.3, 61.8, 32, 38, 38, 44.6, 35.2, 37.6, 26.3, and 30.4 ug/l in September

1995, February and April 1996, April and October 1997, April and October 1998, March and October 1999, April and October 2000, April 2001, April and October 2002, April and October 2003, April and October 2004, April and October 2005, April and October 2006, May and October 2007, October 2008, April and October 2009, April and October 2010, April and October 2011, and April and October 2012, respectively.

1,2-dichloroethane exceeded NCGS in one sampling event, with an *estimated* concentration of 0.8 ug/l in October 2009.

1,1-dichloroethene exceeded NCGS in one sampling event, with a concentration of 81 ug/l in October 2001.

Methylene chloride exceeded NCGS in 30 sampling events, with concentrations of 49, 31, 5.2, 25, 30, 74, 140, 92, 90, 80.5, 71.2, 69, 44.5, 39.9, 40.6, 63.3, 64, 67.2, 48.4, 35.9, 31, 48, 32.5, 32.3, 31.4, 45, 35.1, 39.3, 29.9, and 35.2 ug/l in April and October 1997, April and October 1998, March 1999, October 2000, April and October 2001, April and October 2002, April and October 2003, April and October 2004, April and October 2005, April and October 2006, May and October 2007, April and October 2008, April and October 2009, April and October 2010, April and October 2011, and April 2012, respectively.

Tetrachloroethylene exceeded NCGS in 13 sampling events, with concentrations of 5.2, 5, 6.5, 5.5, 4.7, 5.7, 5.2, 5, 4.2, 4.3, 4.6, 3.5, and 3.4 ug/l in October 2006, May and October 2007, April and October 2008, April and October 2009, April and October 2010, April and October 2011, and April and October 2012, respectively.

Trichloroethylene exceeded NCGS in 13 sampling events, with concentrations of 6.8, 5.3, 4, 4.4, 4.8, 4.8, 41.1, 4.1, 4.3, 4.6, 4.7, 3.8, and 3.9 ug/l in April and October 2001, May and October 2007, April and October 2008, April and October 2009, April and October 2010, October 2011, and April and October 2012, respectively.

Vinyl chloride exceeded NCGS with *estimated* results of 0.9 and 0.8 ug/l in October 2007 and October 2009, and results of 1.0, 1.5, 1.3, 1.6, 1.5, 1.4, 2.6, 1.5, and 1.0 ug/L in April and October 2008, April 2009, April and October 2010, April and October 2011, and April and October 2012, respectively.

Bis(2-ethylhexyl)phthalate exceeded NCGS in one sampling event with a concentration of 91.4 ug/l in October 2012.

During this latest sampling event, benzene, 1,4-dichlorobenzene, cis-1,2-dichloroethene, 1,1-dichloroethane, methylene chloride, tetrachloroethylene, trichloroethylene, vinyl chloride, and bis(2-ethylhexyl)phthalate were detected at MW8. With the exception of 1,4-dichlorobenzene and cis-1,2-dichloroethene, the detected constituents exceeded NCGS. However, MW8 is within the CA area and SA is not applicable at this time.

MW9: Compliance well MW9 was installed in March 2001 and was sampled for the first time in April 2001. The data are now included in the statistical analysis.

Detected metals in MW9 include barium, chromium, copper, lead, mercury, and vanadium. Chromium exceeded NCGS in four sampling events with concentrations of 0.038, 0.015, 0.082, and 0.017 mg/l in October 2001, April and October 2002, and April 2010, respectively. Mercury exceeded NCGS in two sampling events with concentrations of 0.005 and 0.0015 mg/l in October 2007 and October 2008. Vanadium exceeded 13B GPS with concentrations of 0.078, 0.189, and 0.039 mg/l in October 2001, October 2002, and April 2010, respectively, and with *estimated results* of 6.1 and 3.7 ug/l in April and October 2009.

Detected organics at MW9 have included benzene, chlorobenzene, chloroethane, chloromethane, 1,2-dibromoethane, 1,4-dichlorobenzene, cis-1,2-dichloroethene, 1,1-dichloroethane, 1,2-dichloroethane, methylene chloride, tetrachloroethylene, trichloroethylene, vinyl chloride, and xylenes.

Benzene exceeded NCGS in 15 sampling events, with concentrations of 8.6, 11, 7.8, 8.2, 8.1, 6.4, 5.6, 5.2, 5, 5.4, 11.5, 8, 8.1, 7.2, and 8.7 ug/l in April and October 2001, April and October 2002, April and October 2003, April and October 2006, May and October 2007, April and October 2008, April and October 2009, and April 2010, respectively.

Chloromethane exceeded NCGS in one sampling event, with a concentration of 189 ug/l in April 2001. 1,2-dibromoethane exceeded NCGS in one sampling event, with a concentration of 14 ug/l in October 2001.

1,4-dichlorobenzene exceeded NCGS in one sampling event, with a concentration of 6.6 ug/l in April 2008.

1,1-dichloroethane exceeded NCGS in 16 sampling events, with concentrations of 126, 219, 170, 202, 135, 122, 75.2, 81.9, 110, 103, 87, 74.7, 58.1, 68.1, 43.3, and 34.3 ug/l in October 2001, April and October 2002, April and October 2003, April and October 2004, April and October 2005, April and October 2006, May and October 2007, October 2008, and April and October 2009, respectively.

1,2-dichloroethane exceeded NCGS in two sampling event, with concentrations of 11.8 and 0.8 (estimated) ug/l in April 2003 and April 2008, respectively.

Methylene chloride exceeded NCGS in 17 sampling events, with concentrations of 195, 231, 272, 197, 166, 127, 67.9, 56.7, 75.7, 122, 96.4, 64.2, 49.6, 64.6, 53.2, 42.2, and 37.7 ug/l in October 2001, April and October 2002, April and October 2003, April and October 2004, April and October 2005, April and October 2006, May and October 2007, October 2008, April and October 2009, and April 2010, respectively.

Tetrachloroethylene exceeded NCGS in nine sampling events, with concentrations of 5.3, 5.3, 5.1, 2.9, 4.4, 2.4, 1.4, 1.0, and 1.2 ug/l in October 2001, October 2002, April 2003, October 2007, April and October 2008, April and October 2009, and April 2010, respectively.

Trichloroethylene exceeded NCGS in 14 sampling events, with concentrations of 11, 15, 9.8, 10, 9.5, 8.2, 5.8, 7.0, 6.5, 6.2, 5.0, 4.7, 3.9, 5.9, and 4.2 ug/l in April and October 2001, April and October 2002, October 2003, April and October 2004, April and October 2005, April and October 2006, May and October 2007, and April and October 2008, respectively.

Vinyl chloride exceeded NCGS in seven sampling events, with concentrations of 9.1, 5.9, 6.5, 8.7, 6.4, 6.3, and 7.9 ug/l in May and October 2007, April and October 2008, April and October 2009, and April 2010, respectively.

MW9 was not sampled because it was dry during this sampling event. The SWS will be informed about the plan to replace this well.

MW10: Compliance well MW10 was installed in March 2001 and was sampled for the first time in April 2001. The data are now included in the statistical analysis.

Detected metals in MW10 include chromium, copper, lead, vanadium and zinc. Arsenic exceeded NCGS in one sampling event with a concentration of 0.016 in April 2009. Chromium exceeded NCGS in four sampling events with concentrations of 0.014, 0.013, 0.118, and 0.012 mg/l in April 2001, April and October 2002, and October 2005. Cobalt exceeded 13B GPS with an *estimated* result of 1.2 ug/l in October 2012. Vanadium exceeded 13B GPS with concentrations of 0.013, 0.05, 0.006, 0.04, and 0.246 mg/l in October and November 1994, January and March 1995, and October 2002, respectively, and with *estimated* results of 12.2, 3.7, 5.2, 5.2, 5.8, 4.8, 14.7, and 12.9 ug/l in October 2007, April 2008, and April and October 2009, October 2010, April 2011, and April and October 2012, respectively. Copper, zinc, and mercury were the detected inorganics at MW10 during this latest sampling event. Result did not exceed NCGS or GPS.

Detected organics at MW10 have included acetone, benzene, chlorobenzene, chloroethane, 1,4-dichlorobenzene, cis-1,2-dichloroethene, 1,2-dibromoethane, 1,1-dichloroethane, methylene chloride, tetrachloroethylene, toluene, trichloroethylene, vinyl chloride, and xylenes.

Acetone exceeded NCGS in one sampling event, with a concentration of 2,340 ug/l in April 2009 (apparent anomaly).

Benzene exceeded NCGS in 10 sampling events, with concentrations of 6.9, 7.3, 6.2, 4.6, 2.0, 4.5, 3.9, 7.0, 5.0, 6.7, and 1.2 ug/l in April and October 2001, April 2002, May and October 2007, April and October 2008, April and October 2009, and April and October 2010, respectively.

1,1-dichloroethane exceeded NCGS in 16 sampling events, with concentrations of 266, 109, 59.3, 42.6, 69.1, 606, 53.3, 34.9, 25.2, 19.1, 9.4, 10.9, 9.2, 7.5, 7.7, and 6.2 ug/l, in October 2001, April and October 2002, April and October 2003, April and October 2004, April and October 2005, April and October 2006, May and October 2007, April and October 2008, and April 2010, respectively.

Methylene chloride exceeded NCGS in 14 sampling events, with concentrations of 120, 310, 132, 59.3, 19.7, 48.7, 48, 67.7, 51.6, 27.1, 14.4, 10, 7.7, and 15.4 ug/l in April and October 2001, April and October 2002, April and October 2003, April and October 2004, April 2005, April 2006, April and October 2009, and April 2010, respectively.

Tetrachloroethylene exceeded NCGS in seven sampling events, with concentrations of 12, 11, 13, 6.8, 7.1, 7.3, and1.1 ug/l in April and October 2001, April and October 2002, April and October 2003, and April 2010, respectively.

Trichloroethylene exceeded NCGS in four sampling events, with concentrations of 11, 11, 9.1, and 5.7 ug/l in April and October 2001, April 2002, and October 2003, respectively.

Vinyl chloride exceeded NCGS in nine sampling events, with concentrations of 10, 1.4, 2, 3.3, 3.9, 2.0, 3.9, 1.0, and 1.0 ug/l in April 2001, October 2007, April and October 2008, April and October 2009, and April and October 2010, and October 2012, respectively.

Bis(2-ethylhexyl)phthalate exceeded NCGS in one sampling event with a concentration of 41 ug/l in October 2012.

During this latest sampling event, benzene, 1,1-dichloroethane, vinyl chloride, and bis(2-ethylhexyl)phthalate were detected at MW10. Vinyl chloride, and bis(2-ethylhexyl)phthalate exceeded NCGS. However, MW10 is within the CA area and SA is not applicable at this time.

MW10 was not sampled because it was dry during this sampling event. The SWS will be informed about the plan to replace this well.

MW11: Compliance well MW11 was installed in 2006 and was sampled for the first time in May 2007. Detected metals in MW11 include cadmium and zinc. Antimony exceeded 13B GPS with an *estimated* concentration of 2.7 ug/l in April 2011. Cobalt exceeded 13B GPS with an estimated concentration of 1.2 ug/l in October 2012. Vanadium exceeded 13B GPS with *estimated* concentrations of 6.2, 6.1, 4.5, 3.5, 1.4, 6.2, 4.8, and 1.8 ug/l in October 2008, April and October 2009, October 2010, April and October 2011, and April and October 2012, respectively. No organics have been detected in MW11. No constituents were detected during this sampling event.

MW12: Compliance well MW12 was installed in 2006 and was sampled for the first time in May 2007. Detected metals in MW12 include beryllium and zinc. Cobalt exceeded 13B GPS with an *estimated* concentration of 1.3 ug/l in October 2011. Vanadium exceeded 13B GPS with *estimated* concentrations of 6.4, 8.0, 4.4, 1.6, 1.1, 14.5, 5.2, and 1.4 ug/l in October 2007, April and October 2009, October 2010, October 2011, and April and October 2012, respectively. No other inorganics have exceeded NCGS or 13B GPS. No organics have been detected in MW12. No constituents were detected during this sampling event.

MW13: Compliance well MW13 was installed in 2006 and was sampled for the first time in May 2007. Detected metals in MW13 include zinc. Cobalt exceeded 13B GPS with

estimated results of 5.9, 2.1, 1.2, and 1.2 ug/l in April and October 2011, and April and October 2012, respectively. Vanadium exceeded 13B GPS with *estimated* results of 1.6, 0.81, 1.1, 1.8, and 0.95 ug/l in October 2010, April and October 2011, and April and October 2012, respectively. No organics have been detected in MW13. No constituents were detected during this sampling event.

MW14: Compliance well MW14 was installed in 2006 and was sampled for the first time in May 2007. Detected metals in MW14 include beryllium and zinc. Beryllium exceeded NCGS with a concentration of 0.005 mg/l in October 2011. Cobalt exceeded 13B GPS with an *estimated* concentration of 1.3 ug/l in October 2011. Vanadium exceeded 13B GPS with *estimated* concentrations of 5.9, 4.6, 2.9, 18.3, 9.1, and 1.8 ug/l in April 2009, October 2010, April and October 2011, and April and October 2012, respectively. Chloromethane is the only organic to have been detected in MW14. No constituents were detected during this sampling event.

MW15: Compliance well MW15 was installed in 2006 and was sampled for the first time in May 2007. The data are now included in the statistical analysis. Detected metals in MW15 include barium and beryllium. Cobalt exceeded GPS with an *estimated* result of 1.5 ug/l in October 2010. Vanadium exceeded GPS with *estimated* results of 2.1, 0.58, and 6.7 ug/l in October 2010 and April 2011, and April 2012, respectively. Acetone and toluene are the only organics detected in MW15.

MW15 was not sampled as it did not produce sufficient groundwater for purging and sample collection during this sampling event.

MW23B: MW23B is a Set 2 well. It does not follow the Set 1 analysis schedule since it is too remote to be a monitoring point for the active portion of the landfill. It is analyzed for Appendix I organics plus the eight RCRA metals as a part of Set 2. However, it is statistically compared with Set 1 because it appears to be located downgradient of the active landfill.

Compliance well MW23B has shown above the detection limit inorganic concentrations for barium, beryllium, cadmium, chromium, copper, lead, selenium, silver, zinc, and mercury. Of these, arsenic exceeded NCGS in two sampling events with concentrations of 0.064 and 0.015 in October 1997 and October 1999, respectively. Chromium exceeded NCGS in five sampling events with concentrations of 0.025, 0.012, 0.0105, 0.025, and 0.104 in November 1994, March 1995, February 1996, March 1999, and October 1999, respectively. Lead exceeded NCGS in March and September 1995, February 1996, March and October 1999 with concentrations of 0.018, 0.027, 0.0157, 0.049, and 0.089 mg/l, respectively. Silver exceeded NCGS in one sampling event with a concentration of 0.105 in January 1995. Vanadium exceeded GPS with concentrations of 0.013, 0.05, 0.006, and 0.04 mg/l in October and November 1994 and January and March 1995, respectively. (Vanadium is no longer sampled at MW23B.) Mercury also exceeded NCGS in one sampling event with a concentration of 0.0017 mg/l in March 1999. No organics have been detected in MW23B. No inorganics were detected during this latest sampling event.

MW53: Compliance well MW53, associated with corrective action, was installed in June 2010 and was sampled for the first time in October 2010.

Copper has been the only detected metal in MW53. Cobalt exceeded GPS with *estimated* results of 3.5, 1.7, 1.8, and 1.3 ug/l in October 2010, October 2011, and April and October 2012, respectively. Vanadium exceeded GPS with *estimated* results of 5.3, 1.4, 1.2, 1.9, and 0.65 ug/l in October 2010, April and October 2011, and April and October 2012, respectively. Inorganic constituents were not detected at MW53 during this latest sampling event.

Detected organics at MW53 have included benzene, 1,4-dichlorobenzene, 1,1-dichloroethane, methylene chloride, tetrachloroethylene, trichloroethylene, and vinyl chloride.

Benzene exceeded NCGS in four events with concentrations of 5.1, 3.4, 4.6, and 1.9 ug/l in April and October 2011 and April and October 2012, respectively.

1,1-dichloroethane exceeded NCGS in five events with concentrations of 15.6, 14.9, 9.8, 9.5, and 6.7 ug/l in October 2010, April and October 2011, and April and October 2012, respectively.

Methylene chloride exceeded NCGS in three events with concentrations of 14.2, 28.2, and 14.3 ug/l in October 2010 and April 2011, and April 2012, respectively.

Tetrachloroethylene exceeded NCGS in three events with concentrations of 1.2, 1.1, and 2.0 ug/l in October 2010, April 2011, and October 2012, respectively, and with an estimated result of 0.9 ug/l in October 2011.

Vinyl chloride exceeded NCGS in five events with concentrations of 1.3, 2.1, 2.1, 1.1, and 1.4 ug/l in October 2010, April and October 2011, and April and October 2012, respectively.

During this latest sampling event, benzene, 1,4-dichlorobenzene, cis-1,2-dichloroethene, 1,1-dichloroethane, methylene chloride, tetrachloroethylene, trichloroethylene, vinyl chloride, and THF were detected at MW53. Benzene, 1,1-dichloroethane, tetrachloroethylene, and vinyl chloride exceeded NCGS. However, MW53 is associated with the CA area and SA is not applicable at this time.

MW56: Compliance well MW56, associated with corrective action was installed in June 2010 and was sampled for the first time in October 2010.

Detected inorganics at MW56 include lead and zinc. Cobalt exceeded GPS with *estimated* results of 2.1, 2.5, 1.3, and 2.1 ug/l in October 2010, April and October 2011, and April 2012, respectively. Vanadium exceeded GPS with *estimated* results of 2.3, 1.7, 13.6, 1.4, and 1.1 ug/l in October 2010, April and October 2011, and April 2012, respectively. No organics have been detected at MW56. Inorganic constituents were not detected at MW56 during this latest sampling event.

MW57: Compliance well MW57, associated with corrective action was installed in June 2010 and was sampled for the first time in October 2010.

Detected inorganics in MW57 include barium, beryllium, chromium, lead, vanadium, and zinc. Chromium exceeded NCGS in one event with a concentration of 0.011 mg/l in October 2011. Cobalt exceeded GPS with *estimated* results of 3.3, 3.2, 2.8, 3.2, and 2.9 ug/l in October 2010, April and October 2011, and April and October 2012, respectively. Lead exceeded NCGS in one event with a concentration of 0.016 mg/l in October 2011. Vanadium exceeded GPS with a concentration of 34 ug/l in October 2011, and with *estimated* results of 3.7, 1.8, 1.4, and 3.5 ug/l in October 2010, April 2011, and April and October 2012, respectively. Inorganic constituents were not detected at MW57 during this latest sampling event.

Detected organics at MW57 have included benzene, 1,4-dichlorobenzene, cis-1,2-dichloroethene, methylene chloride, trichloroethylene, and vinyl chloride.

Benzene exceeded NCGS in three events with concentrations of 2.0, 1.6, and 1.7 ug/l in October 2010 and April 2012, respectively.

Vinyl chloride exceeded NCGS in three events with concentrations of 1.2, 1.2, and 1.2 ug/l in October 2010 and April 2011, and October 2012, respectively.

During this latest sampling event, organic detections included benzene, 1,4-dichlorobenzene, cis-1,2-dichloroethene, and vinyl chloride. Benzene and vinyl chloride exceeded NCGS. However, MW57 is associated with the CA area and SA is not applicable at this time.

MW58: Compliance well MW58, associated with corrective action was installed in June 2010 and was sampled for the first time in October 2010.

Inorganics detections have been limited to chromium and lead at MW58. Chromium exceeded NCGS in one event with a concentration of 0.016 mg/l in October 2011. Cobalt exceeded GPS with *estimated* results of 1.1, 1.2, 1.5, and 1.2 ug/l in October 2010, April and October 2011, and April 2012, respectively. Vanadium exceeded GPS with *estimated* results of 4.5, 1.7, 18.4, 2.8, and 2.6 ug/l in October 2010, April and October 2011, and April and October 2012, respectively. No organics have been detected at MW58. Inorganic constituents were not detected at MW58 during this latest sampling event.

MW59: Compliance well MW59, associated with corrective action was installed in June 2010 and was sampled for the first time in October 2010.

For inorganics, barium, beryllium, chromium, copper, lead, vanadium, and zinc have been detected in MW59. Chromium exceeded NCGS in one event with a concentration of 0.012 mg/l in October 2011. Cobalt exceeded GPS with *estimated* results of 5.2, 2.9, 2.9, 2.6, and 3.0 ug/l in October 2010, April and October 2011, and April and October 2012, respectively. Lead exceeded NCGS in one event with a concentration of 0.029 mg/l in October 2011. Vanadium exceeded GPS with a concentration of 34 ug/l in October 2011, and with *estimated* results of 11.4, 7.3, 3.7, and 6.4 ug/l in October 2010, April 2011, and April and October 2012, respectively. Inorganic constituents were not detected at MW59 during this latest sampling event.

Organic detections have been limited to benzene and vinyl chloride at MW59. Vinyl chloride exceeded NCGS with a concentration of 1.0 ug/l in October 2011, and with *estimated* results of 0.7 and 0.8 ug/l in April 2011 and April 2012, respectively. Organics were not detected at MW59 during the latest sampling event.

DATA SET 2

In October 2012, Set 2 monitoring wells were sampled and analyzed for Appendix I organics and eight RCRA metals only as they monitor the older, closed-out portion of the landfill. Prior to September 1995, there are data for all Appendix I constituents. These data are reported, however analyses are performed for only the eight RCRA metals.

Upgradient Well (Background Well):

MW16: MW16 is a background well for MW32, MW33, MW34, and MW35 in this analysis. The detected inorganics in MW16 include barium, cadmium, chromium, cobalt, copper, lead, mercury, vanadium, and zinc. Of these, cadmium exceeded NCGS in six sampling events with concentrations of 0.0018, 0.006, 0.007, 0.002, 0.0075, and 0.0049 mg/l in October 1994, January, March, and September 1995, October 1996, and April 1997, respectively. Chromium exceeded NCGS in three sampling events with concentrations of 0.019, 0.062, and 0.019 ug/l in April 1997, March 1999, and October 1999, respectively. Cobalt exceeded the current GPS with a concentration of 0.011 mg/l in October 1996. Lead exceeded NCGS in two sampling events with a concentration of 0.02 and 0.039 ug/l in April 1997 and March 1999, respectively. Although no longer included in the sampling, vanadium exceeded the current GPS with concentrations of 0.005 and 0.012 mg/l in October and November 1994. The only detected organic in MW16 was methylene chloride in January 1995, which exceeded NCGS with a concentration of 29.4 ug/l. No constituents were detected at MW16 during the latest sampling event.

The following summarizes the history of detected concentrations for each metal constituent in MW16:

barium: Barium was detected in ten sampling events for MW16 with concentrations of 0.112, 0.194, 0.114, 0.147, 0.014, 0.099, 0.1, 0.281, 0.162, and 0.06 mg/l in October and November 1994, January and March 1995, October 1997, April and October 1998, March and October 1999, and April 2000, respectively.

cadmium: Cadmium was detected in eight sampling events for MW16 with concentrations of 0.0018, 0.001, 0.006, 0.007, 0.002, 0.0075, 0.0049, and 0.001 mg/l in October and November 1994, January, March, and September 1995, October 1996, April 1997, and March 1999, respectively.

chromium: Chromium was detected in eight sampling events for MW16 with concentrations of 0.004, 0.007, 0.005, 0.01, 0.019, 0.006, 0.008, 0.062 and 0.019 mg/l in October and November 1994, March, and September

1995, April 1997, April and October 1998, and March and October 1999, respectively.

copper: Copper was detected in four sampling events for MW16 with concentrations of 0.008, 0.009, 0.018, and 0.014 mg/l in October and November 1994 and January and March 1995, respectively.

lead: Lead was detected in ten sampling events for MW16 with concentrations of 0.002, 0.003, 0.004, 0.013, 0.012, 0.020, 0.002, 0.005, 0.039, 0.011, and 0.002 mg/l in October and November 1994, March and September 1995, October 1996, April and October 1997, October 1998, March and October 1999, and April 2000, respectively.

mercury: Mercury was detected in only one sampling event for MW16 with a concentration of 0.0002 mg/l in October 1998.

vanadium: Vanadium was detected in two sampling events for MW16 with concentrations of 0.005 and 0.012 mg/l in October and November 1994.

zinc: Zinc was detected in five sampling events for MW16 with concentrations of 0.012, 0.014, 0.015, 0.027, and 0.07 mg/l in October and November 1994, January and March 1995, and October 1996, respectively.

Downgradient Wells (Compliance Wells):

MW32: Compliance well MW32 has had detections for antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, nickel, selenium, vanadium, and zinc. Of these, arsenic exceeded NCGS in one sampling event with a concentration of 0.015 mg/l in November 1994. Cadmium exceeded NCGS in two sampling events with concentrations of 0.004 and 0.025 mg/l in November 1994 and October 1998. Chromium exceeded NCGS in eight sampling events with concentrations of 0.133, 0.015, 0.022, 0.038, 0.041, 0.094, 0.012, and 0.014 mg/l in November 1994, January and March 1995, March and October 1999, April 2003, October 2003, and April 2011, respectively. Cobalt exceeded GPS with concentrations of 0.039, 0.013, and 0.009 mg/l in November 1994 and January and March 1995, respectively. Lead exceeded NCGS in ten sampling events with concentrations of 0.09, 0.02, 0.064, 0.033, 0.063, 0.029, 0.021, 0.024, 0.023, and 0.052 mg/l in November 1994, March 1995, March and October 1999, April 2003, April 2005, April 2006, April 2008, October 2009, and April 2011, respectively. Vanadium exceeded GPS with concentrations of 0.005, 0.41, 0.045, and 0.09 mg/l in October and November 1994 and January and March 1995, respectively. The only detected organic constituent for MW32 was MEK (2-butanone) with a concentration of 471 ug/l in January 1995.

Lead was the only constituent detected at MW32 during the latest sampling event. The result did not exceed NCGS and SA was not performed.

MW33: Compliance well MW33 has had detections for barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, vanadium, zinc. Of these, cadmium exceeded NCGS in three sampling events with concentrations of 0.0021, 0.003, and 0.005 mg/l in

October and November 1994 and January 1995, respectively. Chromium exceeded NCGS in three events with concentrations of 0.012, 0.014, and 0.012 mg/l in November 1994, January 1995, and October 1998, respectively. Cobalt exceeded GPS with concentrations of 0.006 and 0.006 mg/l in November 1994 and January 1995, respectively. Lead exceeded NCGS in two sampling events with concentrations of 0.014 and 0.016 mg/l in January 1995 and October 1998, respectively. Vanadium exceeded GPS with concentrations of 0.008, 0.02, and 0.02 mg/l in October and November 1994 and January 1995, respectively. The only detected organic was cis-1,2-dichloroethene, detected in October 1998 with a concentration of 1.8 ug/l. No constituents were detected in MW33 during the latest sampling event.

MW34: This compliance well, installed in June 1996, was sampled for Appendix I organics and the eight RCRA metals in April 1998. Inorganics barium, chromium, lead, and mercury have been detected in MW34. No organics have been detected at this monitoring well. Chromium exceeded NCGS in three events with concentrations of 0.017, 0.031, and 0.012 in October 1998 and March and October 1999, respectively. Lead exceeded NCGS in four events with concentrations of 0.02, 0.025, 0.02, and 0.06 mg/l in October 1998, March and October 1999, and April 2010, respectively. No constituents were detected in MW34 during the latest sampling event.

MW35: This compliance well, installed in June 1996, was analyzed for Appendix I organics and the eight RCRA metals in April 1998. Inorganics arsenic, barium, cadmium, chromium, lead, mercury and selenium have been detected at MW35. Of these arsenic exceeded NCGS in three sampling events with concentrations of 0.0681, 0.021, and 0.016 mg/l in April 1997, October 1997, and October 1998, respectively. Barium has exceeded NCGS in three sampling events with concentrations of 2.06, 0.877, and 0.848 mg/l in April 1997, October 1997, and March 1999, respectively. Cadmium has exceeded NCGS in two sampling events with concentrations of 0.0119 and 0.208 mg/l in April and October 1997. Chromium has exceeded NCGS in four sampling events with concentrations of 0.0119, 0.208, 0.148, and 0.035 mg/l in April and October 1997, March 1999, and October 1999, respectively. Lead has exceeded NCGS in five sampling events with concentrations of 0.355, 0.105, 0.055, 0.110 and 0.043 mg/l in April and October 1997, October 1998, and March and October 1999, respectively. Mercury exceeded NCGS in one sampling event with a concentration of 2.06 mg/l in 0.002 mg/l in April 1997. No organics have been detected in MW35.

Barium was the only constituent detected at MW35 during the latest sampling event. The result did not exceed NCGS and SA was not performed.

SET 3: SURFACE WATER MONITORING POINTS

Set 3 surface water monitoring points were sampled and analyzed for Appendix I parameters only.

Upgradient Surface Water Monitoring Point (Background):

SWPT1: SWPT1 is an upgradient surface water monitoring point for SWPT2 and SWPT3. SWPT1 has had detected metal concentrations for arsenic, barium, cadmium, chromium,

copper, and zinc. Arsenic exceeded NCGS in four sampling events with concentrations of 0.013, 0.047, 0.021, and 0.011 mg/l in September 1995, October 2008, and April and October 2009, respectively. Chromium exceeded NCGS in one sampling event with a concentration of 0.011 in April 1999. Cobalt exceeded current GPS with concentrations of 0.01, 0.031, 0.037 mg/l in October 1999, October 2008, April 2009, respectively, and with an *estimated* result of 2.1 ug/l in October 2012. Lead exceeded NCGS with a concentration of 0.029 mg/l in April 2009. Vanadium exceeded 13B GPS with concentrations of 40 and 39 ug/l in October 2008 and April 2009, respectively, and with *estimated* concentrations of 18.8, 2.7, 1.9, 1.3, and 16.8 ug/l in October 2009, October 2010, April 2011, and April and October 2012, respectively. The only organics detected at SWPT1 were toluene in October 1999 and chloromethane in October 2008. Zinc was the only constituent detected at SWPT1during the latest sampling event. The result did not exceed NCGS.

The following summarizes the detection history at SWPT1:

arsenic: Arsenic was detected in five sampling events for SWPT1 with concentrations of 0.007, 0.013, 0.047, 0.021, and 0.011 mg/l in October 1994, September 1995, October 2008, and April and October 2009, respectively.

barium: Barium was detected in six sampling events for SWPT1 with concentrations of 0.045, 0.033, 0.03, 0.029, 0.183, and 0.222 mg/l in October and November 1994, January and March 1995, October 2008, and April 2009, respectively.

cadmium: Cadmium was detected in three sampling events for SWPT1 with concentrations of 0.001 mg/l in September 1995, October 2003, and October 2010.

chromium: Chromium was detected in two sampling event for SWPT1 with concentrations of 0.002 and 0.011 mg/l in October 1994 and April 2009.

cobalt: Cobalt was detected in three sampling events for SWPT1 with a concentration of 0.010, 0.031, and 0.037 mg/l in October 1999, October 2008, ands April 2009, respectively.

copper: Copper was detected in three sampling events for SWPT1 with concentrations of 0.006, 0.006, and 0.015 mg/l in October 1994, March 1995, and April 2009, respectively.

lead: Lead was detected in two sampling events for SWPT1 with concentrations of 0.01, and 0.029 mg/l in October 2008 and April 2009.

vanadium: Vanadium was detected in two sampling events for SWPT1 with concentrations of 0.04 and 0.039 mg/l in October 2008 and April 2009, respectively.

zinc: Zinc was detected in 12 sampling events for SWPT1 with concentrations of 0.011, 0.016, 0.021, 0.013, 0.22, 0.04, 0.011, 0.022, 0.033, 0.073, 0.016, and 0.035 mg/l in October and November 1994, January and March 1995, October 1997, October 1998, May 2007, April and October 2008, April 2009, October 2010, and October 2012, respectively.

chloromethane: Chloromethane was detected in one sampling event for SWPT1 with a concentration of 1.3 ug/l in October 2008.

toluene: Toluene was detected in one sampling event for SWPT1 with a concentration of 1.3 ug/l in October 1999.

Downgradient Surface Water Monitoring Points (Compliance):

SWPT2: SWPT2 is a compliance surface water monitoring point with previously detected metal concentrations for arsenic, barium, cadmium, chromium, copper, lead and zinc. Arsenic exceeded NCGS in one sampling event with a concentration of 0.012 in October 2008. Cobalt exceeded 13B GPS with a concentration of 0.01 mg/l in October 1999 and *estimated* concentrations of 5.2, 1.3, 1.2, and 2.0 ug/l in October 2010, April 2011, and April and October 2012, respectively. Vanadium exceeded 13B GPS with *estimated* concentrations of 23.1, 7.1, 7.4, 4.0, 2.4, 1.9, and 2.0 ug/l in October 2008, October 2009, April and October 2010, April 2011, and April and October 2012, respectively. Detected organics include toluene. No constituents were detected in SWPT2 during the latest sampling event.

SWPT3: SWPT3 is a compliance surface water monitoring point with previously detected metal concentrations for arsenic, barium, cadmium, chromium, cobalt, copper, lead and zinc. Of these, arsenic exceeded NCGS in two sampling events with concentrations of 0.023 and 0.011 mg/l in September 1995 and October 1998, respectively. Cadmium exceeded NCGS in two sampling events with concentrations of 0.0045 and 0.006 mg/l in October 1994 and September 1995. Chromium exceeded NCGS in one sampling event with a concentration of 0.02 mg/l in April 1998. Cobalt exceeded current GPS with concentrations of 0.006 and 0.002 mg/l in October 1994 and October 2002, respectively, and *estimated* results of 5.0 and 5.1 ug/l in October 2011 and October 2012, respectively. Lead exceeded NCGS in one sampling event with a concentration of 0.02 mg/l in October 1998. Vanadium exceeded 13B GPS with *estimated* values of 3.9, 13.7, 4.7, 1.7, 6.7, 0.43, 1.9, and 4.3 ug/l in April 2008, October 2008, April and October 2010, April and October 2011, and April and October 2012, respectively. The previously detected organics for SWPT3 include benzene, cis-1,2-dichloroethene, ethylbenzene, toluene, vinyl chloride, and xylenes. Of these, benzene and vinyl chloride exceeded groundwater standards for the September 1995 sampling event with concentrations of 9.1 and 15 ug/l, respectively. No constituents were detected in SWPT3 during the latest sampling event.

SWPT4: SWPT4 is a compliance surface water monitoring point associated with the proposed new C&D landfill. It has been included in sampling events as of April 2010. Zinc has been the only detected metal in SWPT4. Antimony exceeded GPS with an *estimated* result of 2.2 ug/l in April 2011. Cobalt exceeded GPS with *estimated* results of 3.0, 1.2, and 2.0 ug/l in October 2010, and April and October 2012, respectively. Vanadium exceeded GPS with *estimated* results of 5.4, 2.4, 3.5, and 12 ug/l in October 2010, April 2011, and April and October 2012,

respectively. For organics, only toluene has been detected at SWPT4. Zinc and toluene were the only constituents detected at SWPT4 during the latest sampling event. The results did not exceed NCGS and SA was not performed.

TABLES

Table 1
Static Water Elevations for
Dunn/Erwin Landfill

Monitor Well	TOC Elevation	Ground Elevation	Screen Elevations		Static Water Elevations								
			Upper	Lower	9/-/86	23-Oct-94	16-Nov-94	10-Jan-95	17-Mar-95	28-Mar-95	27-Apr-95	03-Jun-95	07-Jul-95
MW1	235.67	234.27	no schematic		-	210.37	211.17	211.97	212.07	210.77	210.67	210.67	215.67
MW2	198.01	196.01	181.01	166.01	-	182.01	182.21	182.09	183.67	182.85	181.89	182.01	184.01
MW3	182.16	180.16	171.16	161.16	-	175.66	176.36	176.76	176.66	175.91	175.49	176.56	178.16
MW3R	181.52	179.44	168.52	158.52	-	-	-	-	-	-	-	-	-
MW4	184.20	176.12	167.12	157.12	-	173.72	174.12	173.02	175.22	173.82	173.89	175.02	174.72
MW5	188.75	186.75	167.75	152.75	-	173.45	173.15	172.75	172.75	172.08	172.25	173.75	173.75
MW6	208.60	205.60	no schematic		-	192.20	192.10	192.25	194.05	193.70	193.60	192.60	194.60
MW6B	209.73	207.24	199.73	189.73	-	-	-	-	-	-	-	-	-
MW7	218.52	216.12	202.12	192.12	-	193.52	193.22	193.06	195.24	193.27	193.02	-	-
MW7B	219.33	216.10	204.10	189.10	-	-	-	-	-	-	-	-	-
MW8	218.71	216.01	207.01	192.01	-	201.01	200.71	200.51	202.56	201.21	201.70	-	201.31
MW9	219.43	217.17	202.17	187.17	-	-	-	-	-	-	-	-	-
MW10	214.54	211.57	203.57	188.57	-	-	-	-	-	-	-	-	-
MW11	203.41	200.88	188.41	178.41	-	-	-	-	-	-	-	-	-
MW12	172.48	169.95	162.48	152.48	-	-	-	-	-	-	-	-	-
MW13	187.39	184.80	154.39	139.39	-	-	-	-	-	-	-	-	-
MW14	170.91	168.59	162.91	142.91	-	-	-	-	-	-	-	-	-
MW15	190.18	187.80	183.18	178.18	-	-	-	-	-	-	-	-	-
MW16	195.61	194.20	188.54	170.54	188.20	192.81	191.91	190.47	189.81	190.61	190.61	191.11	191.31
MW23B	169.98	168.37	154.97	144.97	163.00	163.98	164.38	164.77	164.83	164.73	164.73	-	165.28
MW31	233.30	231.90	203.20	193.20	212.00	210.80	211.60	211.30	212.80	212.22	210.97	-	212.30
MW32	183.84	182.20	148.81	138.81	175.60	174.34	175.64	175.24	176.71	174.34	174.67	-	176.34
MW33	173.88	170.90	156.90	146.90	164.20	163.88	163.98	164.65	167.53	-	-	-	-
MW34**	194.06	191.12	no schematic		-	-	-	-	-	-	-	-	-
MW35**	181.77	179.31	no schematic		-	-	-	-	-	-	-	-	-
MW53	209.59	207.18	204.59	194.59	-	-	-	-	-	-	-	-	-
MW56	198.11	195.59	194.11	184.11	-	-	-	-	-	-	-	-	-
MW57	201.33	198.88	197.33	187.33	-	-	-	-	-	-	-	-	-
MW58	193.35	191.03	188.35	178.35	-	-	-	-	-	-	-	-	-
MW59	211.56	209.01	206.56	196.56	-	-	-	-	-	-	-	-	-
Averages						185.21	185.43	185.30	186.50	187.13	186.96	185.96	187.95

Notes: ** MW34 and MW35 Ground Elevation and TOC elevation are estimated from the contour map (Fig. 1).

denotes day of highest groundwater level (of total days sampled) for the particular MW

denotes day of lowest groundwater level (of total days sampled) for the particular MW

Well 7B replaced MW7 as of Sept. 1995. MW3R replaced MW3 as of Oct. 2005. MW6B replaced MW6 as of June 2010.

Table 1
Static Water Elevations for
Dunn/Erwin Landfill

Monitor Well	Static Water Elevations												
	21-Aug-95	9/13/95**	20-Sep-95	18-Oct-95	09-Feb-96	03-Apr-96	07-Oct-96	15-Apr-97	29-Sep-97	07-Oct-98	23-Mar-99	13-Oct-99	20-Apr-00
MW1	209.92	211.07	209.87	211.37	213.25	212.10	211.10	210.12	210.42	210.56	212.21	210.50	211.70
MW2	181.81	181.82	181.91	181.51	183.89	183.07	182.52	182.01	183.71	182.36	183.91	184.02	183.67
MW3	175.96	176.05	176.16	175.96	177.25	177.22	177.80	176.03	176.77	176.62	176.91	177.37	176.85
MW3R	-	-	-	-	-	-	-	-	-	-	-	-	-
MW4	173.72	173.7	173.82	173.92	174.81	174.61	174.97	172.91	175.04	174.09	175.47	175.78	174.67
MW5	173.15	173.47	173.45	173.55	172.76	172.62	173.85	172.50	173.76	173.55	173.88	174.40	172.67
MW6	194.00	193.48	193.30	193.50	193.11	193.21	193.77	193.09	192.45	192.08	192.64	193.21	193.05
MW6B	-	-	-	-	-	-	-	-	-	-	-	-	-
MW7	196.42	-	194.62	194.22	-	-	-	-	-	-	-	-	-
MW7B	-	197.03	194.93	194.53	194.71	195.25	195.64	195.11	193.55	193.78	192.86	193.02	191.46
MW8	201.91	201.46	201.36	201.11	201.39	201.68	201.36	201.31	200.97	201.67	202.79	202.77	203.01
MW9	-	-	-	-	-	-	-	-	-	-	-	-	-
MW10	-	-	-	-	-	-	-	-	-	-	-	-	-
MW11	-	-	-	-	-	-	-	-	-	-	-	-	-
MW12	-	-	-	-	-	-	-	-	-	-	-	-	-
MW13	-	-	-	-	-	-	-	-	-	-	-	-	-
MW14	-	-	-	-	-	-	-	-	-	-	-	-	-
MW15	-	-	-	-	-	-	-	-	-	-	-	-	-
MW16	193.01	193.26	183.51	191.61	-	189.96	193.29	190.70	192.79	192.96	190.01	192.91	190.49
MW23B	164.48	164.85	164.88	164.60	-	165.40	166.80	164.99	164.92	164.33	164.61	164.84	164.14
MW31	210.90	210.59	210.90	211.00	212.51	210.40	213.94	212.84	209.93	210.48	211.00	211.60	209.98
MW32	-	175.79	-	176.14	-	176.09	176.46	175.48	176.15	176.09	175.25	176.75	175.63
MW33	-	163.96	163.88	163.68	-	165.63	166.04	164.74	165.62	163.95	165.71	167.33	165.59
MW34**	-	-	-	-	-	-	190.88	188.76	190.93	190.90	189.20	191.34	189.21
MW35**	-	-	-	-	-	-	178.59	176.78	176.71	176.12	176.40	176.63	175.93
MW53	-	-	-	-	-	-	-	-	-	-	-	-	-
MW56	-	-	-	-	-	-	-	-	-	-	-	-	-
MW57	-	-	-	-	-	-	-	-	-	-	-	-	-
MW58	-	-	-	-	-	-	-	-	-	-	-	-	-
MW59	-	-	-	-	-	-	-	-	-	-	-	-	-
Averages	188.57	185.89	186.35	186.19	191.52	185.94	186.47	185.16	185.58	185.30	185.52	186.16	185.20

Notes: ** MW34 and MW35 Ground Elevation and TOC elevation are estimated from the contour map (Fig. 1).

denotes day of highest groundwater level (of total days sampled) for the particular MW

denotes day of lowest groundwater level (of total days sampled) for the particular MW

Well 7B replaced MW7 as of Sept. 1995. MW3R replaced MW3 as of Oct. 2005. MW6B replaced MW6 as of June 2010.

Table 1
Static Water Elevations for
Dunn/Erwin Landfill

Monitor Well	Static Water Elevations												
	11-Oct-00	19-Apr-01	15-16-Oct-01	03-Apr-02	15-Oct-02	30-Apr-03	29-Oct-03	21-Apr-04	28-Oct-04	26-Apr-05	18-Oct-05	19-Apr-06	10/23-24/06
MW1	210.43	210.41	210.92	211.41	210.83	211.57	211.22	210.99	211.53	211.42	208.53	209.70	209.41
MW2	183.69	183.49	183.34	183.62	183.46	183.01	183.25	182.82	183.14	183.52	181.59	182.07	181.99
MW3	176.70	176.70	176.95	177.21	177.28	177.84	177.77	177.66	177.88	-	-	-	-
MW3R	-	-	-	-	-	-	-	-	-	-	177.12	175.64	176.43
MW4	174.66	174.54	174.73	175.19	175.57	175.68	175.78	176.98	176.58	174.35	174.45	174.33	174.88
MW5	173.90	172.66	174.10	173.14	174.40	173.55	175.15	175.61	176.26	173.18	174.19	172.64	173.98
MW6	192.74	192.62	192.70	192.68	192.15	194.11	192.75	192.81	192.95	193.12	191.99	192.50	192.17
MW6B	-	-	-	-	-	-	-	-	-	-	-	-	-
MW7	-	-	-	-	-	-	-	-	-	-	-	-	-
MW7B	193.38	192.96	193.87	193.46	192.67	195.73	194.22	194.32	194.44	194.32	193.02	193.29	193.23
MW8	209.31	203.09	209.72	203.06	202.65	203.98	203.00	202.96	202.53	202.95	201.41	202.18	201.95
MW9	-	192.81	193.60	193.21	192.23	195.59	193.78	194.01	194.12	194.09	192.51	192.89	192.73
MW10	-	193.16	193.28	192.98	192.04	195.54	192.90	193.53	193.65	194.06	191.95	192.66	191.46
MW11	-	-	-	-	-	-	-	-	-	-	-	185.43	184.74
MW12	-	-	-	-	-	-	-	-	-	-	-	166.16	165.65
MW13	-	-	-	-	-	-	-	-	-	-	-	162.71	163.71
MW14	-	-	-	-	-	-	-	-	-	-	-	161.61	164.44
MW15	-	-	-	-	-	-	-	-	-	-	-	182.45	178.36
MW16	188.19	186.60	188.28	186.74	188.05	187.78	188.61	187.06	189.07	187.37	186.87	186.75	188.36
MW23B	164.67	164.06	164.39	164.46	164.58	164.35	164.18	164.23	163.67	163.94	163.67	163.96	163.87
MW31	210.96	210.27	211.21	210.12	210.40	211.03	210.55	209.86	211.30	211.02	209.58	209.72	210.45
MW32	181.16	178.28	181.16	178.21	181.12	178.80	181.02	178.31	181.06	180.40	180.81	178.01	180.64
MW33	165.59	165.63	164.43	165.20	164.68	166.21	164.08	164.53	164.45	165.65	163.66	164.44	163.92
MW34**	191.09	189.03	191.01	189.38	191.41	189.38	190.85	188.92	190.89	189.14	190.85	189.13	190.96
MW35**	176.46	175.85	176.18	176.25	176.37	176.14	175.97	176.02	175.46	175.73	175.46	175.75	175.66
MW53	-	-	-	-	-	-	-	-	-	-	-	-	-
MW56	-	-	-	-	-	-	-	-	-	-	-	-	-
MW57	-	-	-	-	-	-	-	-	-	-	-	-	-
MW58	-	-	-	-	-	-	-	-	-	-	-	-	-
MW59	-	-	-	-	-	-	-	-	-	-	-	-	-
Averages	186.20	186.01	187.05	186.25	186.46	187.08	186.77	186.51	187.00	187.14	185.74	182.46	182.68

Notes: ** MW34 and MW35 Ground Elevation and TOC elevation are estimated from the contour map (Fig. 1).

denotes day of highest groundwater level (of total days sampled) for the particular MW

denotes day of lowest groundwater level (of total days sampled) for the particular MW

Well 7B replaced MW7 as of Sept. 1995. MW3R replaced MW3 as of Oct. 2005. MW6B replaced MW6 as of June 2010.

Table 1
Static Water Elevations for
Dunn/Erwin Landfill

Monitor Well	Static Water Elevations											
	02-May-07	24-Oct-07	23-Apr-08	16-Oct-08	22-Apr-09	22-Oct-09	########	20-Oct-10	########	27-Oct-12	12-Apr-12	10/30-31/12
MW1	209.64	208.61	209.79	209.76	210.34	209.74	210.58	209.83	210.06	209.64	210.15	210.42
MW2	182.33	179.47	183.19	182.31	182.59	181.62	183.08	182.84	183.56	180.69	183.40	182.43
MW3	-	-	-	-	-	-	-	-	-	-	-	-
MW3R	175.72	171.57	176.30	176.78	176.92	177.24	[illegible]	178.65	176.95	176.53	176.51	176.42
MW4	174.39	171.22	174.97	176.16	177.07	177.11	174.8	-	[illegible]	177.16	174.61	176.15
MW5	172.81	171.05	173.29	176.16	175.86	176.93	[illegible]	177.94	175.72	176.00	173.24	175.36
MW6	191.75	191.84	193.61	192.48	193.59	192.22	193.00	-	-	-	-	-
MW6B	-	-	-	-	-	-	-	192.60	192.80	192.56	[illegible]	192.28
MW7	-	-	-	-	-	-	-	-	-	-	-	-
MW7B	194.32	192.73	193.19	193.45	194.89	193.58	194.78	193.88	193.92	192.95	194.35	193.34
MW8	202.15	201.13	203.23	202.68	202.92	201.80	202.86	202.45	203.00	201.73	203.24	201.90
MW9	194.02	192.21	193.01	193.09	194.71	193.16	[illegible]	-	-	-	-	-
MW10	193.70	191.86	194.30	193.08	194.81	192.75	[illegible]	202.60	202.89	-	-	-
MW11	184.36	183.89	185.99	184.89	185.33	184.58	185.12	184.97	[illegible]	183.82	184.06	183.60
MW12	166.23	163.37	166.25	166.59	[illegible]	167.22	167.38	166.90	167.00	166.03	166.66	166.02
MW13	162.48	162.48	162.60	164.06	162.78	[illegible]	162.64	163.68	162.41	163.09	162.22	163.16
MW14	163.61	160.85	163.61	[illegible]	163.42	164.24	163.02	163.89	163.17	161.20	162.59	161.62
MW15	180.58	-	182.70	180.04	181.07	178.75	181.02	179.44	182.30	-	-	-
MW16	187.21	187.62	188.23	188.67	187.28	188.71	187.31	188.63	186.86	188.23	186.99	188.23
MW23B	163.70	160.58	163.99	164.29	164.33	164.20	164.25	164.27	164.29	160.51	164.05	163.53
MW31	210.74	208.96	210.35	210.99	210.81	210.61	211.11	211.30	209.92	209.19	209.28	209.30
MW32	178.74	180.63	178.68	180.94	178.53	180.86	178.38	181.08	178.43	180.57	178.60	180.29
MW33	164.98	162.86	167.04	164.55	165.58	163.95	165.69	165.34	165.97	163.19	165.99	163.40
MW34**	189.29	190.97	189.81	[illegible]	189.54	191.25	189.35	191.64	189.59	191.28	189.87	191.18
MW35**	175.49	172.37	175.78	176.08	176.12	175.99	176.04	176.06	176.08	172.30	175.84	175.32
MW53	-	-	-	-	-	-	-	[illegible]	186.21	185.48	185.57	185.59
MW56	-	-	-	-	-	-	-	[illegible]	192.70	194.84	192.87	194.56
MW57	-	-	-	-	-	-	-	192.79	193.42	190.64	[illegible]	190.85
MW58	-	-	-	-	-	-	-	[illegible]	188.88	190.57	189.16	190.47
MW59	-	-	-	-	-	-	-	[illegible]	205.76	206.19	205.74	206.12
Averages	182.65	181.25	183.18	183.34	183.47	183.21	184.18	186.04	185.51	183.93	184.25	184.23

Notes: ** MW34 and MW35 Ground Elevation and TOC elevation are estimated from the contour map (Fig. 1).

[illegible] denotes day of highest groundwater level (of total days sampled) for the particular MW

[illegible] denotes day of lowest groundwater level (of total days sampled) for the particular MW

Well 7B replaced MW7 as of Sept. 1995. MW3R replaced MW3 as of Oct. 2005. MW6B replaced MW6 as of June 2010.

Table 1
Static Water Elevations for
Dunn/Erwin Landfill

Monitor Well	Min	Max	Ave	Range	Std Dev
MW1	208.53	215.67	210.75	7.14	1.2
MW2	179.47	184.02	182.68	4.55	0.9
MW3	175.49	178.16	176.82	2.67	0.7
MW3R	171.57	178.65	176.36	7.08	1.5
MW4	171.22	177.22	174.88	6.00	1.2
MW5	171.05	177.94	173.87	6.89	1.4
MW6	191.75	194.65	192.94	2.90	0.7
MW6B	192.28	193.51	192.75	1.23	0.5
MW7	193.02	195.42	193.95	2.40	0.9
MW7B	191.46	197.08	193.95	5.62	1.1
MW8	200.51	209.72	202.44	9.21	1.7
MW9	192.21	207.84	194.19	15.63	3.4
MW10	191.46	203.75	194.62	12.29	3.7
MW11	183.60	194.08	185.35	10.48	2.6
MW12	163.37	167.80	166.38	4.43	1.1
MW13	162.22	164.16	163.01	1.94	0.6
MW14	160.85	164.77	163.00	3.92	1.3
MW15	178.36	182.70	180.67	4.34	1.5
MW16	183.51	193.29	189.24	9.78	2.3
MW23B	160.51	166.80	164.23	6.29	1.0
MW31	208.96	213.94	210.85	4.98	1.0
MW32	174.34	181.16	178.08	6.82	2.3
MW33	162.86	167.53	164.91	4.67	1.1
MW34**	188.76	191.64	190.27	2.88	1.0
MW35**	172.30	178.59	175.87	6.29	1.1
MW53	185.48	187.59	186.09	2.11	0.9
MW56	192.70	195.35	194.06	2.65	1.2
MW57	190.64	193.44	192.23	2.80	1.4
MW58	188.88	190.93	190.00	2.05	0.9
MW59	205.74	206.39	206.04	0.65	0.3
Averages	183.10	188.46	185.35	5.36	1.35

Notes:

Table 1B
Piezometer Static Water Elevations for
Dunn/Erwin Landfill

Piez. No.	TOC El.	Grnd. El.	Screen Elev. Upper	Screen Elev. Lower	Average Water Level	Date Sampled 3/19/1991	3/26/1991	4/12/1991	6/27/1991	3/28/1995	4/27/1995	7/7/1995	8/21/1995
40S	176.17	174.20	163.70	158.80	*168.12*	[illegible]	171.44	171.38	170.61	ND	ND	ND	168.77
41S	208.58	205.90	192.40	187.40	*192.64*	192.83	192.85	192.89	192.21	194.33	193.48	[illegible]	192.68
42S	168.05	166.00	152.40	142.50	*162.02*	163.03	162.81	162.32	162.63	163.15	163.30	163.55	164.25
44S	184.20	182.41	172.40	167.10	*179.55*	180.86	180.79	179.20	180.46	179.83	179.70	ND	180.90
45S	202.71	200.10	183.90	178.90	*180.74*	181.26	181.16	181.82	180.54	ND	181.51	ND	180.91
46S	220.77	218.20	197.70	187.70	*194.19*	193.17	194.14	193.23	193.76	195.87	195.27	[illegible]	195.17
47S	189.89	188.21	178.60	168.60	*180.96*	184.25	183.81	183.46	181.83	184.82	184.39	[illegible]	180.89
48S	208.27	207.20	195.10	185.10	*194.73*	197.22	197.01	196.85	196.41	197.52	196.52	[illegible]	196.37
GP-24-W	198.27	193.94	189.94	184.94	*190.33*	ND	ND	ND	ND	ND	ND	ND	ND
GP-25-W	200.69	196.45	191.45	186.45	*191.54*	ND	ND	ND	ND	ND	ND	ND	ND
GP-27-W	207.41	203.01	195.01	185.01	*190.74*	ND	ND	ND	ND	ND	ND	ND	ND
GP-28-W	204.26	199.79	194.79	184.79	*191.91*	ND	ND	ND	ND	ND	ND	ND	ND
GP-30-W	208.76	204.44	198.44	188.44	*192.69*	ND	ND	ND	ND	ND	ND	ND	ND
GP-31-W	199.44	195.24	190.24	185.24	*190.75*	ND	ND	ND	ND	ND	ND	ND	ND
GP-33-W	212.15	207.94	195.94	185.94	*191.84*	ND	ND	ND	ND	ND	ND	ND	ND
GP-34-W	210.15	205.77	197.77	187.77	*192.46*	ND	ND	ND	ND	ND	ND	ND	ND
GP-35-W	193.87	189.65	187.65	182.65	*189.53*	ND	ND	ND	ND	ND	ND	ND	ND
GP-36-W	211.71	207.34	195.34	185.34	*192.24*	ND	ND	ND	ND	ND	ND	ND	ND
GP-37-W	197.28	193.08	188.08	183.08	*188.24*	ND	ND	ND	ND	ND	ND	ND	ND
GP-38-W	215.79	211.09	206.09	196.09	*199.78*	ND	ND	ND	ND	ND	ND	ND	ND
PZ-50	205.53	204.00	195.53	185.53	*190.03*	ND	ND	ND	ND	ND	ND	ND	ND
PZ-51	179.75	177.24	168.75	153.75	*169.32*	ND	ND	ND	ND	ND	ND	ND	ND
PZ-52	198.49	197.00	185.49	175.49	*178.44*	ND	ND	ND	ND	ND	ND	ND	ND
PZ-53	201.27	198.96	186.27	181.27	*183.70*	ND	ND	ND	ND	ND	ND	ND	ND
PZ-54	214.68	212.28	204.68	194.68	*202.38*	ND	ND	ND	ND	ND	ND	ND	ND
PZ-55	212.43	210.08	205.43	195.43	*200.99*	ND	ND	ND	ND	ND	ND	ND	ND
PZ-56	205.62	203.28	198.62	188.62	*195.60*	ND	ND	ND	ND	ND	ND	ND	ND
PZ-57	204.75	202.37	194.75	184.75	*195.80*	ND	ND	ND	ND	ND	ND	ND	ND
PZ-58	205.51	202.80	198.51	188.51	*195.97*	ND	ND	ND	ND	ND	ND	ND	ND
PZ-59	205.71	203.22	195.71	185.71	*195.71*	ND	ND	ND	ND	ND	ND	ND	ND
Average Surficial	*NA*	*NA*	*NA*	*NA*	*186.46*	*183.04*	*183.00*	*182.64*	*182.31*	*185.92*	*184.88*	*187.77*	*182.49*
42D	167.96	165.80	126.60	116.70	*152.77*	148.23	148.08	148.07	147.68	ND	147.96	ND	147.06
44D	184.28	182.61	143.40	133.50	*173.27*	173.13	171.86	171.17	170.30	170.16	170.18	ND	170.48
46D	221.38	218.20	179.20	169.20	*194.27*	ND	ND	ND	ND	193.71	192.88	195.88	194.78
47D	190.10	189.16	145.20	135.20	*163.01*	163.39	161.38	161.13	161.03	ND	165.30	165.50	160.8
Average Deep	*NA*	*NA*	*NA*	*NA*	*185.32*	*161.58*	*160.44*	*160.12*	*159.67*	*181.93*	*169.08*	*180.69*	*168.28*
PB9	211.24		203.60	183.60	*190.31*	[illegible]	190.40	190.07	189.93	---	---	---	---
NOTE:		Indicates LOW Water											
		Indicates HIGH Water											
	ND= No Data												

Table 1B
Piezometer Static Water Elevations for
Dunn/Erwin Landfill

	Date Sampled											
Piez. No.	9/20/1995	10/19/1995	10/5/1998	3/23/1999	10/14/1999	4/20/2000	10/11/2000	4/17/2001	9/13/2001	10/15/2001	4/3/2002	10/15/2002
40S	167.57	167.77	156.72	Dry	Dry	Dry	167.11	ND	ND	ND	ND	ND
41S	192.18	194.28	191.13	192.22	193.93	192.76	192.58	ND	ND	ND	ND	ND
42S	164.65	163.85	ND	ND	ND	ND	[illegible]	154.20	160.44	154.91	157.11	164.06
44S	180.3	180.4	172.88	180.95	181.85	181.18	180.01	180.91	181.31	180.67	181.06	179.82
45S	179.81	180.01	179.11	180.76	182.63	181.22	179.91	181.03	181.22	180.41	180.82	179.11
46S	194.47	193.97	192.15	192.37	196.41	ND	196.09	ND	ND	193.39	192.98	192.00
47S	179.49	179.89	180.42	184.53	ND	184.93	182.67	178.85	183.14	182.07	183.84	180.63
48S	196.27	196.07	ND	ND	ND	ND	ND	192.63	195.87	195.77	193.55	195.52
GP-24-W	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	190.09	ND
GP-25-W	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	190.95	ND
GP-27-W	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	190.10	ND
GP-28-W	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	190.79	ND
GP-30-W	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	191.61	ND
GP-31-W	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	190.34	ND
GP-33-W	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	190.74	ND
GP-34-W	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	191.52	ND
GP-35-W	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	189.35	ND
GP-36-W	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	190.84	ND
GP-37-W	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	187.98	ND
GP-38-W	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	196.89	ND
PZ-50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PZ-51	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PZ-52	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PZ-53	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PZ-54	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PZ-55	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PZ-56	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PZ-57	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PZ-58	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PZ-59	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Surficial	*181.84*	*182.03*	*178.74*	*186.17*	*188.71*	*185.02*	*180.92*	*177.52*	*180.40*	*181.20*	*187.81*	*181.86*
42D	147.36	147.26	ND	ND	ND	ND	[illegible]	157.87	160.39	158.37	159.98	152.48
44D	171.18	171.28	[illegible]	173.11	174.02	172.59	174.03	172.17	173.61	174.32	173.55	174.63
46D	194.28	194.08	193.4	191.98	192.65	193.33	192.53	191.65	192.83	195.13	192.38	192.16
47D	161.10	160.60	162.22	161.64	ND	161.91	162.52	162.19	162.9	163.21	163.13	163.45
Average Deep	*168.48*	*168.31*	*178.40*	*175.58*	*183.34*	*175.94*	*174.26*	*170.97*	*172.43*	*172.76*	*172.26*	*170.68*
PB9	---	---	---	---	---	---	---	---	---	---	---	---
NOTE:		Indicates LOW Water										
		Indicates HIGH Water										
	ND= No Data											

Table 1B
Piezometer Static Water Elevations for
Dunn/Erwin Landfill

	Date Sampled												
Piez. No.	4/30/2003	10/28/2003	4/21/2004	10/27/2004	4/25/2005	10/17/2005	4/18/2006	10/23/2006	5/1/2007	10/23/2007	4/22/2008	10/15/2008	4/22/2009
40S	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
41S	194.23	191.58	192.27	192.35	193.22	190.71	191.80	191.58	192.58	190.37	194.38	192.46	193.81
42S	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
44S	ND	179.8	171.66	181.07	181.44	171.66	180.16	179.88	180.91	175.03	181.33	180.26	181.39
45S	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
46S	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
47S	ND	182.31	178.88	182.44	179.08	176.58	182.58	179.18	183.18	174.92	184.86	179.75	183.91
48S	[redacted]	195.75	185.53	196.17	193.49	194.46	193.06	195.33	193.24	193.72	193.59	195.35	193.32
GP-24-W	ND	191.11	189.76	191.59	190.04	189.72	190.78	190.57	191.51	189.47	189.73	189.91	189.97
GP-25-W	[redacted]	191.81	192.04	192.07	192.33	190.55	191.31	190.95	191.94	189.63	192.84	191.24	192.47
GP-27-W	ND	190.17	190.89	191.02	192.04	189.33	190.57	190.38	191.38	189.15	[redacted]	191.11	192.60
GP-28-W	ND	192.29	192.65	192.58	192.97	190.85	191.76	191.23	192.63	190.17	193.00	191.63	193.26
GP-30-W	[redacted]	192.19	192.84	192.95	193.76	190.98	192.16	191.92	193.24	190.84	194.76	192.79	194.50
GP-31-W	ND	191.33	191.06	191.66	190.32	190.24	191.00	190.60	191.73	189.09	190.21	190.62	192.10
GP-33-W	[redacted]	191.75	192.16	192.39	192.81	190.45	191.54	191.18	192.54	190.15	193.15	191.69	193.50
GP-34-W	ND	192.38	193.04	193.19	193.75	191.11	192.22	191.96	192.33	190.82	194.21	192.72	194.54
GP-35-W	ND	189.91	189.84	189.90	189.87	189.28	189.65	189.48	189.83	188.17	189.66	189.43	189.86
GP-36-W	ND	192.25	192.80	192.91	193.35	191.00	191.95	191.70	193.04	190.58	193.52	192.24	194.09
GP-37-W	188.73	188.17	188.79	188.23	188.66	187.62	188.50	188.01	188.52	185.58	[redacted]	188.29	188.71
GP-38-W	[redacted]	200.19	199.75	199.98	199.79	199.90	199.67	199.91	199.78	199.84	199.73	199.96	199.95
PZ-50	ND	ND	ND	ND	ND	ND	190.22	189.24	ND	ND	[redacted]	ND	190.38
PZ-51	ND	ND	ND	ND	ND	ND	168.96	169.52	168.33	168.43	169.22	170.40	169.08
PZ-52	ND	ND	ND	ND	ND	ND	179.22	177.92	178.77	177.47	[redacted]	178.12	179.79
PZ-53	ND	ND	ND	ND	ND	ND	183.71	183.28	183.61	182.36	[redacted]	183.94	184.59
PZ-54	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PZ-55	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PZ-56	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PZ-57	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PZ-58	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PZ-59	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Surficial	*194.19*	*190.81*	*189.62*	*191.28*	*191.06*	*189.03*	*188.54*	*188.19*	*188.90*	*186.62*	*189.64*	*188.52*	*189.59*
42D	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
44D	ND	174.82	172.87	175.47	173.57	173.75	173.05	174.63	173.21	172.90	173.19	174.67	173.49
46D	ND	193.54	192.82	193.72	192.95	192.19	192.03	192.45	193.07	192.05	192.16	192.77	193.51
47D	ND	163.65	163.06	164.16	163.49	163.15	163.22	163.80	163.25	162.13	162.99	163.64	163.55
Average Deep	*ND*	*177.34*	*176.25*	*177.78*	*176.67*	*176.36*	*176.10*	*176.96*	*176.51*	*175.69*	*176.11*	*177.03*	*176.85*
PB9	---	---	---	---	---	---	---	---	---	---	---	---	---

NOTE: [redacted] Indicates LOW Water

[redacted] Indicates HIGH Water

ND= No Data

Table 1B
Piezometer Static Water Elevations for
Dunn/Erwin Landfill

Piez. No.	10/21/2009	4/20/2010	10/19/2010	4/20/2011	10/27/2011	4/11/2012	10/29/2012	RANGE	MIN	MAX
40S	ND	ND	ND	ND	ND	ND	ND	14.96	156.72	171.68
41S	191.59	193.24	192.28	192.93	191.22	193.13	191.69	4.21	190.37	194.58
42S	ND	ND	ND	ND	ND	ND	ND	13.85	154.20	168.05
44S	179.55	181.39	180.32	180.69	176.60	180.33	176.52	10.19	171.66	181.85
45S	ND	ND	ND	ND	ND	ND	ND	3.52	179.11	182.63
46S	ND	ND	ND	ND	ND	ND	ND	4.77	192.00	196.77
47S	177.38	184.20	176.30	178.95	174.25	174.12	174.27	11.27	174.12	185.39
48S	195.27	193.12	195.27	192.89	193.71	192.53	194.13	13.04	185.53	198.57
GP-24-W	190.68	[illegible]	190.47	189.68	189.50	189.77	190.05	2.70	189.47	192.17
GP-25-W	191.25	192.45	191.33	191.95	190.09	191.82	190.47	3.26	189.63	192.89
GP-27-W	190.22	191.82	190.26	190.73	189.13	190.91	189.36	4.46	189.13	193.59
GP-28-W	191.66	[illegible]	191.73	192.26	190.45	192.15	190.87	3.13	190.17	193.30
GP-30-W	192.10	193.96	192.26	192.63	191.23	192.79	191.82	4.37	190.84	195.21
GP-31-W	190.76	[illegible]	190.80	190.23	189.61	191.01	190.07	3.17	189.09	192.26
GP-33-W	191.39	193.49	191.07	191.15	190.06	191.12	ND	4.39	190.06	194.45
GP-34-W	[illegible]	193.68	191.87	192.11	190.78	192.30	ND	3.76	190.78	194.54
GP-35-W	189.52	[illegible]	189.48	189.77	188.83	189.56	189.16	1.79	188.17	189.96
GP-36-W	[illegible]	193.77	191.63	191.71	192.57	191.70	191.29	3.51	190.58	194.09
GP-37-W	188.08	188.79	188.63	188.94	187.26	188.72	187.65	3.51	185.58	189.09
GP-38-W	199.93	200.05	200.07	199.75	199.94	199.89	199.96	3.48	196.89	200.37
PZ-50	ND	189.88	189.70	ND	ND	ND	ND	1.53	189.24	190.77
PZ-51	170.14	168.89	[illegible]	168.55	169.53	168.83	169.70	2.50	168.33	170.83
PZ-52	177.97	179.83	177.89	178.24	177.63	177.41	177.76	2.67	177.41	180.08
PZ-53	183.21	184.42	184.20	183.84	182.67	184.27	182.73	2.66	182.36	185.02
PZ-54	ND	ND	214.68	199.50	198.99	199.61	199.12	15.69	198.99	214.68
PZ-55	ND	ND	212.43	198.02	198.05	198.36	198.08	14.41	198.02	212.43
PZ-56	ND	ND	205.62	193.33	192.38	193.83	192.83	13.24	192.38	205.62
PZ-57	ND	ND	204.75	194.05	192.68	194.41	193.12	12.07	192.68	204.75
PZ-58	ND	ND	205.51	194.12	192.67	194.47	193.08	12.84	192.67	205.51
PZ-59	ND	ND	205.71	193.72	192.26	194.17	192.69	13.45	192.26	205.71
Average Surficial	*188.15*	*189.53*	*192.89*	*189.99*	*188.88*	*189.89*	*188.97*			
42D	ND	ND	ND	ND	ND	ND	ND	20.90	147.06	167.96
44D	174.86	173.40	175.03	173.09	173.90	173.18	174.00	9.41	170.16	179.57
46D	192.91	194.66	199.29	196.88	202.66	201.85	[illegible]	12.81	191.65	204.46
47D	163.87	163.55	[illegible]	163.27	162.69	162.47	164.22	7.04	160.60	167.64
Average Deep	*177.21*	*177.20*	*180.65*	*177.75*	*179.75*	*179.17*	*180.89*			
PB9	---	---	---	---	---	---	---	0.89	189.93	190.82

NOTE: [illegible] Indicates LOW Water; [illegible] Indicates HIGH Water; ND= No Data

Range is the difference in high and low water levels for piezometer

Table 1C
Turbidity and Specific Conductivity Measurements
Dunn-Erwin MSW Landfill
Harnett County, North Carolina

	Oct-12			
	Turbidity *NTU*	Temp. *° C*	pH *pH*	Conductivity *uMhos*
MW1	12	17	5.7	64
MW2	150	18	4.7	88
MW3R	2.8	18	5.1	125
MW4	6.8	19	4.7	69
MW5	18	19	6.4	149
MW6B	160	20	5.9	287
MW7B	45	18	5.7	269
MW8	7.0	19	4.5	99
MW9	-	-	-	-
MW10	160	18	5.8	170
MW11	31	19	5.2	69
MW12	28	17	5.5	65
MW13	12.0	15	6.8	166
MW14	21	17	5.7	100
MW15	12	15	-	71
MW16	5.8	18	6.1	118
MW23B	70	18	5.4	51
MW31	13	17	5.4	26
MW32	7400	16	5.7	45
MW33	6.2	17	5.1	70
MW34	9	17	5.8	80
MW35	60	17	5.7	977
MW53	8.3	19	4.7	124
MW56	37	19	4.7	79
MW57	30	20	4.7	265
MW58	58	18	5.1	57
MW59	38	20	5.0	126
SWPT1	700	14	6.0	106
SWPT2	55	13	5.9	162
SWPT3	60	15	5.8	443
SWPT4	155	14	5.9	117

Table 2
Harnett County Dunn-Erwin Landfill
Groundwater Velocity Data

	Shallow Wells							Estimated Velocities (cm/s)			
	K (cm/sec)*		n values*				i*, Oct. 95	=(1)*i/(3)	=(1)*i/(4)	=(2)*i/(5)	=(2)*i/(6)
MW	Note Ref. (1)	(2)	(3)	(4)	(5)	(6)	(7)	(a)	(b)	(c)	(d)
MW1	7.9E-07	1.0E-03	0.1	0.2	0.3	0.4	3.3E-02	2.6E-07	1.3E-07	1.1E-04	8.3E-05
MW2	3.5E-05	1.0E-03	0.1	0.2	0.3	0.4	4.0E-02	1.4E-05	7.0E-06	1.3E-04	1.0E-04
MW3	1.2E-05	1.0E-03	0.1	0.2	0.3	0.4	8.0E-02	9.2E-06	4.6E-06	2.7E-04	2.0E-04
MW4	1.2E-05	1.0E-03	0.1	0.2	0.3	0.4	8.0E-02	9.9E-06	5.0E-06	2.7E-04	2.0E-04
MW5	4.0E-05	1.0E-03	0.1	0.2	0.3	0.4	1.0E-01	4.0E-05	2.0E-05	3.3E-04	2.5E-04
MW6	3.5E-05	1.0E-03	0.1	0.2	0.3	0.4	8.0E-02	2.8E-05	1.4E-05	2.7E-04	2.0E-04
MW7B	NA	1.0E-03	0.1	0.2	0.3	0.4	1.0E-02	NA	NA	3.3E-05	2.5E-05
MW8	2.0E-06	1.0E-03	0.1	0.2	0.3	0.4	1.3E-02	2.5E-07	1.3E-07	4.2E-05	3.1E-05
MW9		8.6E-04			0.25		1.5E-02			5.2E-05	
MW10		3.0E-06			0.25		1.7E-02			2.0E-07	
MW11		2.5E-05			0.25		4.8E-02			4.8E-06	
MW12		2.3E-05			0.25		4.4E-02			4.0E-06	
MW13		5.5E-06			0.25		6.1E-02			1.3E-06	
MW14		7.4E-07			0.25		6.5E-02			1.9E-07	
MW15		2.2E-05			0.25		2.6E-02			2.3E-06	
MW16	7.3E-08	1.0E-03	0.1	0.2	0.3	0.4	NA	NA	NA	NA	NA
MW23B	2.8E-04	1.0E-03	0.1	0.2	0.3	0.4	2.0E-02	5.6E-05	2.8E-05	6.7E-05	5.0E-05
MW31	3.2E-06	1.0E-03	0.1	0.2	0.3	0.4	2.5E-02	8.0E-07	4.0E-07	8.3E-05	6.3E-05
MW32	2.9E-06	1.0E-03	0.1	0.2	0.3	0.4	NA	NA	NA	NA	NA
MW33	4.1E-06	1.0E-03	0.1	0.2	0.3	0.4	NA	NA	NA	NA	NA
MW34	NA	NA	0.1	0.2	0.3	0.4	NA	NA	NA	NA	NA
MW35	NA	NA	0.1	0.2	0.3	0.4	NA	NA	NA	NA	NA
MW53	NA	NA	0.1	0.2	0.3	0.4	3.3E-02	NA	NA	NA	NA
MW56	NA	NA	0.1	0.2	0.3	0.4	4.1E-02	NA	NA	NA	NA
MW57	NA	NA	0.1	0.2	0.3	0.4	1.2E-01	NA	NA	NA	NA
MW58	NA	NA	0.1	0.2	0.3	0.4	3.1E-02	NA	NA	NA	NA
MW59	NA	NA	0.1	0.2	0.3	0.4	1.5E-01	NA	NA	NA	NA

* **Equation** **V=Ki/n (cm/sec)**

Where V = Mean groundwater velocity as calculated by the above equation
i= Hydraulic gradient (unitless), see note (7)
n = Effective porosity (unitless), see notes (3) through (6)
k = hydraulic conductivity, see notes (1) and (2)

Notes:

NA refers to wells where data is unavailable

(1) In situ hydraulic conductivity as estimated by Withers and Ravenel, "Evaluation of Groundwater Flow and Direction", November 1994

(2) In situ site hydraulic conductivity as estimated for "Field Investigation of Contaminant Plume", October 1996, except
MW9 and MW10 installed in March 2001, for which values are obtained from the Titan report.
MW11 - MW15 calculated by ENSOL, Inc., August 2006 (based on slug tests).

(3) Estimated as the lower limit for effective porosity, n, by Withers and Ravenel, Evaluation of Groundwater Flow and Direction, November 1994

(4) Estimated as the upper limit for effective porosity, n, by Withers and Ravenel, Evaluation of Groundwater Flow and Direction, November 1994

(5) Lower limit of effective porosity estimation in "Field Investigation of Contaminant Plume", October 1996.

(6) Upper limit of effective porosity estimation in "Field Investigation of Contaminant Plume", October 1996.
n=0.25 used for MW11 - MW15, which is average of other values.

(7) Hydraulic gradient as estimated from groundwater contours based on groundwater data sampled in October 1995, except for wells MW11 - MW15, which were estimated from contours based on groundwater data from Jan 2007 - May 2008.

(a) Velocity as estimated using Withers and Ravenel estimated hydraulic conductivity (1), the lower limit for effective porosity (3), and the corresponding hydraulic gradient estimated from Figure 1.

(b) Velocity as estimated using Withers and Ravenel estimated hydraulic conductivity (1), the upper limit for effective porosity (4), and the corresponding hydraulic gradient estimated from Figure 1.

(c) Velocity as estimated using estimated hydraulic conductivity (2), the effective porosity (5), and the corresponding hydraulic gradient estimated from Figure 1.

(d) Velocity as estimated using estimated hydraulic conductivity (2), the effective porosity (6), and the corresponding hydraulic gradient estimated from Figure 1.

(e) For MW9 and MW10 installed in March 2001, velocity was computed for values obtained from the Titan report.

Table 3
Notification Table
NC Groundwater Exceedances
Dunn-Erwin Landfill
Harnett County, North Carolina
October 2012

Constituent	2L STD	13B STD	SWSL	MW1	MW31	MW2	MW3	MW4	MW5	MW6B	MW7B	MW8	MW10	MW11	MW12	MW13
Inorganics																
Cobalt	NE	1	10			*1.4*	*2.1*	*2*	*2.6*	68	27	*1.3*	*1.2*	*1.2*		*1.2*
Lead	15	NE	10								41					
Thallium	NE	0.28	5.5					*0.3*		*0.92*	*1.2*					
Vanadium	NE	0.3	25	*0.7*	*0.38*	*3.9*	*0.4*	*0.54*		*6*	*0.88*	*1.2*	*12.9*	*1.8*	*1.4*	*0.95*
Organics																
Benzene	1	NE	1							3.8	7.1	5				
1,1-Dichloroethane	6	NE	5								108	30.4				
Methylene chloride	5	NE	1								38.5	35.2				
Tetrachloroethylene	0.7	NE	1							3.9	2.7	3.4				
Trichloroethylene	3	NE	1							4	7.3	3.9				
Vinyl chloride	0.03	NE	1							3.9	5.3	1.8	1			
bis(2-ethylhexyl)phthalate*	3	NE	15							39.6	28.5	91.4	41			

* Appx II, analysis limited to MW6B - MW10
NE = Not Established
All units are in (ug/L) unless noted.
Values in italics are estimated.
Only wells with exceedances shown.
Only values > 2L or 13B STD shown.

Table 3
Notification Table
NC Groundwater Exceedances
Dunn-Erwin Landfill
Harnett County, North Carolina
October 2012

Constituent	2L STD	13B STD	SWSL	MW14	MW53	MW56	MW57	MW58	MW59	SWPT1	SWPT2	SWPT3	SWPT4
Inorganics													
Cobalt	NE	1	10		*1.3*		*2.9*		*3*	*2.1*	*2*	*5.1*	*2*
Lead	15	NE	10										
Thallium	NE	0.28	5.5										
Vanadium	NE	0.3	25	*1.8*	*0.65*	*1.1*	*3.5*	*2.6*	*6.4*	*16.8*	*2*	*4.3*	*12*
Organics													
Benzene	1	NE	1		1.9		1.7						
1,1-Dichloroethane	6	NE	5		6.7								
Methylene chloride	5	NE	1										
Tetrachloroethylene	0.7	NE	1		2								
Trichloroethylene	3	NE	1										
Vinyl chloride	0.03	NE	1		1.4		1.2		*0.8*				
bis(2-ethylhexyl)phthalate*	3	NE	15										

* Appx II, analysis limited to MW6B - MW10
NE = Not Established
All units are in (ug/L) unless noted.
Values in italics are estimated.
Only wells with exceedances shown.
Only values > 2L or 13B STD shown.

Table 3
Notification Table
NC Groundwater Exceedances
Dunn-Erwin Landfill
Harnett County, North Carolina
October 2012

Constituent	2L STD	13B STD	SWSL	Notes
Inorganics				
Cobalt	NE	1	10	Inorganics appear to be trace background, except for cobalt and lead in the corrective action area (MW6B, MW7B). Other results were not previously SSIOBL when statistical analysis was used prior to April 2011.
Lead	15	NE	10	
Thallium	NE	0.28	5.5	
Vanadium	NE	0.3	25	
Organics				
Benzene	1	NE	1	MW6B - MW10 are located within previously identified contaminant plume. This area is included in corrective action. MW53, MW56 - MW59 are new wells (as of Oct 2010) also associated correction action.
1,1-Dichloroethane	6	NE	5	
Methylene chloride	5	NE	1	
Tetrachloroethylene	0.7	NE	1	
Trichloroethylene	3	NE	1	
Vinyl chloride	0.03	NE	1	
bis(2-ethylhexyl)phthalate*	3	NE	15	Suspected external contaminant
* Appx II, analysis limited to MW6B - MW10 NE = Not Established All units are in (ug/L) unless noted. Values in italics are estimated. Only wells with exceedances shown. Only values > 2L or 13B STD shown.				

Table 4
Groundwater Monitoring Well Data
Monitoring Well 2 (MW2)
Downgradient Well - Set 1
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT	MW2 Detects		NCGS	# Detects	Averages
SAMPLING DATES	SUM	Events	(ug/l)		
ORGANICS (ug/l)					
Acetone	0	39	6000	0	0
Benzene	0	39	1	0	0
Carbon Disulfide	0	39	700	0	0
Carbon Tetrachloride	0	39	0.3	0	0
Chlorobenzene	0	39	50	0	0
Chloroethane	0	39	3000	0	0
Chloromethane	0	39	3	0	0
1,2-Dibromoethane	0	39	0.02	0	0
1,4-Dichlorobenzene	0	39	6	0	0
cis-1,2-Dichloroethene	0	39	70	0	0
1,1-Dichloroethane	0	39	6	0	0
1,2-Dichloroethane	0	39	0.4	0	0
1,1-Dichloroethene	0	39	7	0	0
Methylene Chloride	0	39	5	0	0
Tetrachloroethylene	0	39	0.7	0	0
Toluene	0	39	600	0	0
1,1,1-Trichloroethane	0	39	200	0	0
Trichloroethylene	0	39	3	0	0
Trichloroflouromethane	0	39	2000	0	0
Vinyl Chloride	0	39	0.03	0	0
Xylenes	0	39	500	0	0
Dichlorodifluoromethane*	0	10	1000	0	0
Diethyphthalate*	13	10	6000	1	1.3
bis(2-ethylhexyl)phthalate*	0	10	3	0	0
NOTES					

Table 4
Groundwater Monitoring Well Data
Monitoring Well 3 (MW3)
Downgradient Well - Set 1
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT	MW3 Detects		NCGS	# Detects	Averages
SAMPLING DATES	SUM	Events	(ug/l)		
ORGANICS (ug/l)					
Acetone	0	38	6000	0	0
Benzene	0	38	1	0	0
Carbon Disulfide	64.4	38	700	1	1.69
Carbon Tetrachloride	0	39	0.3	0	0
Chlorobenzene	0	38	50	0	0
Chloroethane	0	38	3000	0	0
Chloromethane	0	38	3	0	0
1,2-Dibromoethane	0	38	0.02	0	0
1,4-Dichlorobenzene	0	38	6	0	0
cis-1,2-Dichloroethene	0	38	70	0	0
1,1-Dichloroethane	0	38	6	0	0
1,2-Dichloroethane	0	38	0.4	0	0
1,1-Dichloroethene	0	38	7	0	0
Methylene Chloride	0	38	5	0	0
Tetrachloroethylene	0	38	0.7	0	0
Toluene	0	38	600	0	0
1,1,1-Trichloroethane	0	38	200	0	0
Trichloroethylene	0	38	3	0	0
Trichloroflouromethane	0	38	2000	0	0
Vinyl Chloride	0	38	0.03	0	0
Xylenes	0	38	500	0	0
Dichlorodifluoromethane*	0	10	1000	0	0
Diethyphthalate*	0	10	6000	0	0
bis(2-ethylhexyl)phthalate*	0	10	3	0	0
NOTES					

Table 4
Groundwater Monitoring Well Data
Monitoring Well 4 (MW4)
Downgradient Well - Set 1
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT	MW4 Detects		NCGS	# Detects	Averages
SAMPLING DATES	SUM	Events	(ug/l)		
ORGANICS (ug/l)					
Acetone	0	39	6000	0	0
Benzene	0	39	1	0	0
Carbon Disulfide	48.8	39	700	3	1.25
Carbon Tetrachloride	0	39	0.3	0	0
Chlorobenzene	0	39	50	0	0
Chloroethane	0	39	3000	0	0
Chloromethane	0	39	3	0	0
1,2-Dibromoethane	0	39	0.02	0	0
1,4-Dichlorobenzene	0	39	6	0	0
cis-1,2-Dichloroethene	0	39	70	0	0
1,1-Dichloroethane	0	39	6	0	0
1,2-Dichloroethane	0	39	0.4	0	0
1,1-Dichloroethene	0	39	7	0	0
Methylene Chloride	0	39	5	0	0
Tetrachloroethylene	0	39	0.7	0	0
Toluene	0	39	600	0	0
1,1,1-Trichloroethane	0	39	200	0	0
Trichloroethylene	0	39	3	0	0
Trichloroflouromethane	0	39	2000	0	0
Vinyl Chloride	0	39	0.03	0	0
Xylenes	0	39	500	0	0
Dichlorodifluoromethane*	0	10	1000	0	0
Diethyphthalate*	26	10	6000	2	2.60
bis(2-ethylhexyl)phthalate*	0	10	3	0	0
NOTES					

Table 4
Groundwater Monitoring Well Data
Monitoring Well 5 (MW5)
Downgradient Well - Set 1
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT	MW5 Detects		NCGS
SAMPLING DATES	SUM	Events	(ug/l)
ORGANICS (ug/l)			
Acetone	0	39	6000
Benzene	0	39	1
Carbon Disulfide	37.3	39	700
Carbon Tetrachloride	0	39	0.3
Chlorobenzene	0	39	50
Chloroethane	0	39	3000
Chloromethane	0	39	3
1,2-Dibromoethane	0	39	0.02
1,4-Dichlorobenzene	0	39	6
cis-1,2-Dichloroethene	0	39	70
1,1-Dichloroethane	0	39	6
1,2-Dichloroethane	0	39	0.4
1,1-Dichloroethene	0	39	7
Methylene Chloride	0	39	5
Tetrachloroethylene	0	39	0.7
Toluene	0	39	600
1,1,1-Trichloroethane	0	39	200
Trichloroethylene	0	39	3
Trichloroflouromethane	0	39	2000
Vinyl Chloride	0	39	0.03
Xylenes	0	39	500
Dichlorodifluoromethane*	0	10	1000
Diethyphthalate*	0	10	6000
bis(2-ethylhexyl)phthalate*	0	10	3
NOTES			

Table 4
Groundwater Monitoring Well Data
Monitoring Well 6 (MW6)
Downgradient Well - Set 1
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT	MW6,6B Detects		NCGS	# Detects	Averages
SAMPLING DATES	SUM	Events	(ug/l)		
ORGANICS (ug/l)					
Acetone	170	40	6000	1	4.25
Benzene	62.7	40	1	13	1.57
Carbon Disulfide	7.9	40	700	1	0.20
Carbon Tetrachloride	2.9	40	0.3	1	0.07
Chlorobenzene	135.6	40	50	7	3.39
Chloroethane	850.8	40	3000	17	21.27
Chloromethane	46	40	3	1	1.15
1,2-Dibromoethane	0	40	0.02	0	0.00
1,4-Dichlorobenzene	83.6	40	6	14	2.09
cis-1,2-Dichloroethene	324	40	70	19	8.10
1,1-Dichloroethane	1429.2	40	6	33	35.73
1,2-Dichloroethane	0	40	0.4	0	0.00
1,1-Dichloroethene	84.6	40	7	2	2.12
Methylene Chloride	1367.5	40	5	31	34.19
Tetrachloroethylene	111.6	40	0.7	21	2.79
Toluene	0	40	600	0	0.00
1,1,1-Trichloroethane	94.5	40	200	9	2.36
Trichloroethylene	212.84	40	3	29	5.32
Trichloroflouromethane	0	40	2000	0	0.00
Vinyl Chloride	105.9	40	0.03	14	2.65
Xylenes (total)	447.8	40	500	14	11.20
Dichlorodifluoromethane*	42.1	24	1000	7	1.75
Diethyphthalate*	0	24	6000	0	0.00
bis(2-ethylhexyl)phthalate*	46.4	24	3	2	1.93
NOTES					

Table 4
Groundwater Monitoring Well Data
Monitoring Well 7,7B (MW7,7B)
Downgradient Well - Set 1
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT	MW7,7B Detects		NCGS	# Detects	Averages
SAMPLING DATES	SUM	Events	(ug/l)		
ORGANICS (ug/l)					
Acetone	0	38	6000	0	0
Benzene	77	38	1	13	2.026316
Carbon Disulfide	0	38	700	0	0
Carbon Tetrachloride	0	38	0.3	0	0
Chlorobenzene	60.7	38	50	9	1.597368
Chloroethane	783.2	38	3000	26	20.61053
Chloromethane	64	38	3	1	1.684211
1,2-Dibromoethane	0	38	0.02	0	0
1,4-Dichlorobenzene	15.7	38	6	8	0.413158
cis-1,2-Dichloroethene	101.4	38	70	10	2.668421
1,1-Dichloroethane	4395.2	38	6	36	115.6632
1,2-Dichloroethane	8.7	38	0.4	1	0.228947
1,1-Dichloroethene	188.6	38	7	20	4.963158
Methylene Chloride	1983.4	38	5	30	52.19474
Tetrachloroethylene	54.1	38	0.7	12	1.423684
Toluene	76.8	38	600	7	2.021053
1,1,1-Trichloroethane	600.7	38	200	17	15.80789
Trichloroethylene	210.5	38	3	26	5.539474
Trichloroflouromethane	138.4	38	2000	17	3.642105
Vinyl Chloride	65.2	38	0.03	12	1.715789
Xylenes	63.9	38	500	9	1.681579
Dichlorodifluoromethane*	781.9	24	1000	19	32.57917
Diethyphthalate*	13	24	6000	1	0.541667
bis(2-ethylhexyl)phthalate*	52.5	24	3	2	2.1875
NOTES					

Table 4
Groundwater Monitoring Well Data
Monitoring Well 8 (MW8)
Downgradient Well - Set 1
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT	MW8 Detects		NCGS	# Detects	Averages
SAMPLING DATES	SUM	Events	(ug/l)		
ORGANICS (ug/l)					
Acetone	0	40	6000	0	0.00
Benzene	69.1	40	1	13	1.73
Carbon Disulfide	0	40	700	0	0.00
Carbon Tetrachloride	0	40	0.3	0	0.00
Chlorobenzene	0	40	50	0	0.00
Chloroethane	268.6	40	3000	14	6.72
Chloromethane	119.1	40	3	3	2.98
1,2-Dibromoethane	0	40	0.02	0	0.00
1,4-Dichlorobenzene	27.3	40	6	11	0.68
cis-1,2-Dichloroethene	206.8	40	70	11	5.17
1,1-Dichloroethane	1561.4	40	6	33	39.04
1,2-Dichloroethane	0	40	0.4	0	0.00
1,1-Dichloroethene	81	40	7	1	2.03
Methylene Chloride	1520.4	40	5	30	38.01
Tetrachloroethylene	62.8	40	0.7	13	1.57
Toluene	0	40	600	0	0.00
1,1,1-Trichloroethane	0	40	200	0	0.00
Trichloroethylene	103.4	40	3	16	2.59
Trichloroflouromethane	0	40	2000	0	0.00
Vinyl Chloride	14.2	40	0.03	9	0.36
Xylenes	5	40	500	1	0.13
Dichlorodifluoromethane*	20.4	24	1000	4	0.85
Diethyphthalate*	0	24	6000	0	0
bis(2-ethylhexyl)phthalate*	91.4	24	3	1	3.808333
NOTES					

Table 4
Groundwater Monitoring Well Data
Monitoring Well 9 (MW9)
Downgradient Well - Set 1
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT	MW9 Detects		NCGS	# Detects	Averages
SAMPLING DATES	SUM	Events	(ug/l)		
ORGANICS (ug/l)					
Acetone	0	19	6000	0	0
Benzene	114.8	19	1	15	6.042105
Carbon Disulfide	0	19	700	0	0
Carbon Tetrachloride	0	19	0.3	0	0
Chlorobenzene	231.6	19	50	17	12.18947
Chloroethane	423.2	19	3000	16	22.27368
Chloromethane	189	19	3	1	9.947368
1,2-Dibromoethane	14	19	0.02	1	0.736842
1,4-Dichlorobenzene	16.2	19	6	6	0.852632
cis-1,2-Dichloroethene	108.8	19	70	10	5.726316
1,1-Dichloroethane	1709.6	19	6	16	89.97895
1,2-Dichloroethane	11.8	19	0.4	1	0.621053
1,1-Dichloroethene	0	19	7	0	0
Methylene Chloride	1918.2	19	5	17	100.9579
Tetrachloroethylene	29	19	0.7	9	1.526316
Toluene	0	19	600	0	0
1,1,1-Trichloroethane	0	19	200	0	0
Trichloroethylene	120.4	19	3	18	6.336842
Trichloroflouromethane	0	19	2000	0	0
Vinyl Chloride	50.8	19	0.03	7	2.673684
Xylenes	174.8	19	500	10	9.2
Dichlorodifluoromethane*	0	3	1000	0	NA
Diethyphthalate*	0	3	6000	0	NA
bis(2-ethylhexyl)phthalate*	0	3	3	0	NA
NOTES					

Table 4
Groundwater Monitoring Well Data
Monitoring Well 10 (MW10)
Downgradient Well - Set 1
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT	MW10 Detects		NCGS	# Detects	Averages
SAMPLING DATES	SUM	Events	(ug/l)		
ORGANICS (ug/l)					
Acetone	3279	23	6000	5	142.5652
Benzene	56.3	23	1	12	2.447826
Carbon Disulfide	0	23	700	0	0
Carbon Tetrachloride	0	23	0.3	0	0
Chlorobenzene	133.1	23	50	12	5.786957
Chloroethane	285.4	23	3000	9	12.4087
Chloromethane	0	23	3	0	0
1,2-Dibromoethane	0	23	0.02	0	0
1,4-Dichlorobenzene	18.4	23	6	7	0.8
cis-1,2-Dichloroethene	266.5	23	70	19	11.58696
1,1-Dichloroethane	1352.6	23	6	19	58.8087
1,2-Dichloroethane	0	23	0.4	0	0
1,1-Dichloroethene	0	23	7	0	0
Methylene Chloride	936.5	23	5	15	40.71739
Tetrachloroethylene	58.3	23	0.7	7	2.534783
Toluene	25.3	23	600	3	1.1
1,1,1-Trichloroethane	0	23	200	0	0
Trichloroethylene	40.8	23	3	7	1.773913
Trichloroflouromethane	0	23	2000	0	0
Vinyl Chloride	28.5	23	0.03	9	1.23913
Xylenes	145.9	23	500	9	6.343478
Dichlorodifluoromethane*	0	5	1000	0	NA
Diethyphthalate*	0	5	6000	0	NA
bis(2-ethylhexyl)phthalate*	41	5	3	1	NA
NOTES					

Table 4
Groundwater Monitoring Well Data
Monitoring Well 11 (MW11)
Downgradient Well - Set 1
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT	MW11 Detects		NCGS	# Detects	Averages
SAMPLING DATES	SUM	Events	(ug/l)		
ORGANICS (ug/l)					
Acetone	0	12	6000	0	0
Benzene	0	12	1	0	0
Carbon Disulfide	0	12	700	0	0
Carbon Tetrachloride	0	12	0.3	0	0
Chlorobenzene	0	12	50	0	0
Chloroethane	0	12	3000	0	0
Chloromethane	0	12	3	0	0
1,2-Dibromoethane	0	12	0.02	0	0
1,4-Dichlorobenzene	0	12	6	0	0
cis-1,2-Dichloroethene	0	12	70	0	0
1,1-Dichloroethane	0	12	6	0	0
1,2-Dichloroethane	0	12	0.4	0	0
1,1-Dichloroethene	0	12	7	0	0
Methylene Chloride	0	12	5	0	0
Tetrachloroethylene	0	12	0.7	0	0
Toluene	0	12	600	0	0
1,1,1-Trichloroethane	0	12	200	0	0
Trichloroethylene	0	12	3	0	0
Trichloroflouromethane	0	12	2000	0	0
Vinyl Chloride	0	12	0.03	0	0
Xylenes	0	12	500	0	0
Dichlorodifluoromethane*	0	0	1000	0	NA
Diethyphthalate*	0	0	6000	0	NA
bis(2-ethylhexyl)phthalate*	0	0	3	0	NA
NOTES					

Table 4
Groundwater Monitoring Well Data
Monitoring Well 12 (MW12)
Downgradient Well - Set 1
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT	MW12 Detects		NCGS	# Detects	Averages
SAMPLING DATES	SUM	Events	(ug/l)		
ORGANICS (ug/l)					
Acetone	0	12	6000	0	0
Benzene	0	12	1	0	0
Carbon Disulfide	0	12	700	0	0
Carbon Tetrachloride	0	12	0.3	0	0
Chlorobenzene	0	12	50	0	0
Chloroethane	0	12	3000	0	0
Chloromethane	0	12	3	0	0
1,2-Dibromoethane	0	12	0.02	0	0
1,4-Dichlorobenzene	0	12	6	0	0
cis-1,2-Dichloroethene	0	12	70	0	0
1,1-Dichloroethane	0	12	6	0	0
1,2-Dichloroethane	0	12	0.4	0	0
1,1-Dichloroethene	0	12	7	0	0
Methylene Chloride	0	12	5	0	0
Tetrachloroethylene	0	12	0.7	0	0
Toluene	0	12	600	0	0
1,1,1-Trichloroethane	0	12	200	0	0
Trichloroethylene	0	12	3	0	0
Trichloroflouromethane	0	12	2000	0	0
Vinyl Chloride	0	12	0.03	0	0
Xylenes	0	12	500	0	0
Dichlorodifluoromethane*	0	0	1000	0	NA
Diethyphthalate*	0	0	6000	0	NA
bis(2-ethylhexyl)phthalate*	0	0	3	0	NA
NOTES					

Table 4
Groundwater Monitoring Well Data
Monitoring Well 13 (MW13)
Downgradient Well - Set 1
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT	MW13 Detects		NCGS	# Detects	Averages
SAMPLING DATES	SUM	Events	(ug/l)		
ORGANICS (ug/l)					
Acetone	0	12	6000	0	0
Benzene	0	12	1	0	0
Carbon Disulfide	0	12	700	0	0
Carbon Tetrachloride	0	12	0.3	0	0
Chlorobenzene	0	12	50	0	0
Chloroethane	0	12	3000	0	0
Chloromethane	0	12	3	0	0
1,2-Dibromoethane	0	12	0.02	0	0
1,4-Dichlorobenzene	0	12	6	0	0
cis-1,2-Dichloroethene	0	12	70	0	0
1,1-Dichloroethane	0	12	6	0	0
1,2-Dichloroethane	0	12	0.4	0	0
1,1-Dichloroethene	0	12	7	0	0
Methylene Chloride	0	12	5	0	0
Tetrachloroethylene	0	12	0.7	0	0
Toluene	0	12	600	0	0
1,1,1-Trichloroethane	0	12	200	0	0
Trichloroethylene	0	12	3	0	0
Trichloroflouromethane	0	12	2000	0	0
Vinyl Chloride	0	12	0.03	0	0
Xylenes	0	12	500	0	0
Dichlorodifluoromethane*	0	0	1000	0	NA
Diethyphthalate*	0	0	6000	0	NA
bis(2-ethylhexyl)phthalate*	0	0	3	0	NA
NOTES					

Table 4
Groundwater Monitoring Well Data
Monitoring Well 14 (MW14)
Downgradient Well - Set 1
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT	MW14 Detects		NCGS	# Detects	Averages
SAMPLING DATES	SUM	Events	(ug/l)		
ORGANICS (ug/l)					
Acetone	0	12	6000	0	0
Benzene	0	12	1	0	0
Carbon Disulfide	0	12	700	0	0
Carbon Tetrachloride	0	12	0.3	0	0
Chlorobenzene	0	12	50	0	0
Chloroethane	0	12	3000	0	0
Chloromethane	1	12	3	1	0.083333
1,2-Dibromoethane	0	12	0.02	0	0
1,4-Dichlorobenzene	0	12	6	0	0
cis-1,2-Dichloroethene	0	12	70	0	0
1,1-Dichloroethane	0	12	6	0	0
1,2-Dichloroethane	0	12	0.4	0	0
1,1-Dichloroethene	0	12	7	0	0
Methylene Chloride	0	12	5	0	0
Tetrachloroethylene	0	12	0.7	0	0
Toluene	0	12	600	0	0
1,1,1-Trichloroethane	0	12	200	0	0
Trichloroethylene	0	12	3	0	0
Trichloroflouromethane	0	12	2000	0	0
Vinyl Chloride	0	12	0.03	0	0
Xylenes	0	12	500	0	0
Dichlorodifluoromethane*	0	0	1000	0	NA
Diethyphthalate*	0	0	6000	0	NA
bis(2-ethylhexyl)phthalate*	0	0	3	0	NA
NOTES					

Table 4
Groundwater Monitoring Well Data
Monitoring Well 15 (MW15)
Downgradient Well - Set 1
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT	MW15 Detects		NCGS	# Detects	Averages
SAMPLING DATES	SUM	Events	(ug/l)		
ORGANICS (ug/l)					
Acetone	144	9	6000	1	16.0
Benzene	0	9	1	0	0
Carbon Disulfide	0	9	700	0	0
Carbon Tetrachloride	0	9	0.3	0	0
Chlorobenzene	0	9	50	0	0
Chloroethane	0	9	3000	0	0
Chloromethane	0	9	3	0	0
1,2-Dibromoethane	0	9	0.02	0	0
1,4-Dichlorobenzene	0	9	6	0	0
cis-1,2-Dichloroethene	0	9	70	0	0
1,1-Dichloroethane	0	9	6	0	0
1,2-Dichloroethane	0	9	0.4	0	0
1,1-Dichloroethene	0	9	7	0	0
Methylene Chloride	0	9	5	0	0
Tetrachloroethylene	0	9	0.7	0	0
Toluene	207.1	9	600	6	23.0
1,1,1-Trichloroethane	0	9	200	0	0
Trichloroethylene	0	9	3	0	0
Trichloroflouromethane	0	9	2000	0	0
Vinyl Chloride	0	9	0.03	0	0
Xylenes	0	9	500	0	0
Dichlorodifluoromethane*	0	0	1000	0	NA
Diethyphthalate*	0	0	6000	0	NA
bis(2-ethylhexyl)phthalate*	0	0	3	0	NA
NOTES					

Table 4
Groundwater Monitoring Well Data
Monitoring Well 23B (MW23B)
Downgradient Well - Set 1
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT	MW23B Detects		NCGS	# Detects	Averages
SAMPLING DATES	SUM	Events	(ug/l)		
ORGANICS (ug/l)					
Acetone	0	38	6000	0	0
Benzene	0	38	1	0	0
Carbon Disulfide	0	38	700	0	0
Carbon Tetrachloride	0	38	0.3	0	0
Chlorobenzene	0	38	50	0	0
Chloroethane	0	38	3000	0	0
Chloromethane	0	38	3	0	0
1,2-Dibromoethane	0	38	0.02	0	0
1,4-Dichlorobenzene	0	38	6	0	0
cis-1,2-Dichloroethene	0	38	70	0	0
1,1-Dichloroethane	0	38	6	0	0
1,2-Dichloroethane	0	38	0.4	0	0
1,1-Dichloroethene	0	38	7	0	0
Methylene Chloride	0	38	5	0	0
Tetrachloroethylene	0	38	0.7	0	0
Toluene	0	38	600	0	0
1,1,1-Trichloroethane	0	38	200	0	0
Trichloroethylene	0	38	3	0	0
Trichloroflouromethane	0	38	2000	0	0
Vinyl Chloride	0	38	0.03	0	0
Xylenes	0	38	500	0	0
Dichlorodifluoromethane*	0	2	1000	0	0
Diethyphthalate*	0	2	6000	0	0
bis(2-ethylhexyl)phthalate*	0	2	3	0	0
NOTES					

Table 4
Total Downgradient Detects and Averages
Set 1 Data
Dunn-Erwin MSW Landfill
Harnett County, NC

CONSTITUENT	# Detects	Average Conc	NCGS (ug/l)	Avg/NCGS
ORGANICS (ug/l)				
Acetone	7	10.85	6000	1.81E-03
Benzene	66	0.92	1	0.92
Carbon Disulfide	7	0.27	700	3.90E-04
Carbon Tetrachloride	1	0.00	0.3	0.00E+00
Chlorobenzene	45	1.53	50	0.03
Chloroethane	82	5.55	3000	1.85E-03
Chloromethane	7	1.06	3	0.35
1,2-Dibromoethane	1	0.05	0.02	2
1,4-Dichlorobenzene	46	0.32	6	5.38E-02
cis-1,2-Dichloroethene	69	2.22	70	0.03
1,1-Dichloroethane	137	22.61	6	3.77
1,2-Dichloroethane	2	0.06	0.4	0.14
1,1-Dichloroethene	23	0.61	7	0.09
Methylene Chloride	123	17.74	5	3.55
Tetrachloroethylene	62	0.66	0.7	0.94
Toluene	16	1.74	600	2.90E-03
1,1,1-Trichloroethane	26	1.21	200	0.01
Trichloroethylene	96	1.44	3	0.48
Trichlorofluoromethane	17	0.24	2000	1.21E-04
Vinyl Chloride	51	0.58	0.03	19.2
Xylenes	43	1.90	500	3.81E-03
Dichlorodifluoromethane**	30	4.40	1000	4.40E-03
Diethyphthalate**	4	0.56	6000	9.25E-05
bis(2-ethylhexyl)phthalate**	6	0.99	3	0.33

Table 4
Average Concentrations in Plume Wells
MW-6, MW-7B, MW-8, MW-9, and MW-10
Dunn-Erwin MSW Landfill
Harnett County, NC

CONSTITUENT	# Detects	Average Conc	NCGS	Avg/NCGS
ORGANICS (ug/l)				
Acetone	6	29.36	6000	4.89E-03
Benzene	66	2.76	1	2.76
Carbon Disulfide	1	0.04	700	5.64E-05
Carbon Tetrachloride	1	0.00	0.3	0.00E+00
Chlorobenzene	45	4.59	50	0.09
Chloroethane	82	16.66	3000	0.01
Chloromethane	6	3.15	3	1.05
1,2-Dibromoethane	1	0.15	0.02	7.37
1,4-Dichlorobenzene	46	0.97	6	1.61E-01
cis-1,2-Dichloroethene	69	6.65	70	0.10
1,1-Dichloroethane	137	67.84	6	11.31
1,2-Dichloroethane	2	0.17	0.4	0.43
1,1-Dichloroethene	23	1.82	7	0.26
Methylene Chloride	123	53.21	5	10.64
Tetrachloroethylene	62	1.97	0.7	2.81
Toluene	10	0.62	600	1.04E-03
1,1,1-Trichloroethane	26	3.63	200	0.02
Trichloroethylene	96	4.31	3	1.44
Trichlorofluoromethane	17	0.73	2000	3.64E-04
Vinyl Chloride	51	1.73	0.03	57.54
Xylenes	43	5.71	500	0.01
Dichlorodifluoromethane**	30	11.73	1000	0.01
Diethyphthalate**	1	0.18	6000	3.01E-05
bis(2-ethylhexyl)phthalate**	6	2.64	3	0.88

Table 5
Comparison of Standards, SWSL, Current and Historic Detection Limits
For selected Constituents
Dunn-Erwin Landfill
Harnett County, North Carolina
Oct-12

Constituent	2L STD	13B STD	SWSL	2012 MDL	2006 DL
Inorganics					
Antimony	NE	1	6	0.02	30
Arsenic	10	--	10	0.13	10
Barium	700	--	100	0.07	500
Beryllium	NE	4	1	0.07	2
Cadmium	2	--	1	0.03	1
Chromium	10	--	10	0.18	10
Cobalt	NE	1	10	0.02	10
Copper	1000	--	10	0.06	200
Lead	15	--	10	0.08	10
Nickel	100	--	50	0.06	50
Selenium	20	--	10	0.17	20
Silver	20	--	10	0.1	10
Thallium	NE	0.28	5.5	0.07	10
Vanadium	NE	0.3	25	0.1	40
Zinc	1000	--	10	0.48	50
Cyanide	70	--	10	5	50
Mercury	1	--	0.2	0.02	1
Tin	NE	2000	100	0.1	100
Organics					
Acetone	6000	--	100	9.06	100
Benzene	1	--	1	0.24	5
Carbon disulfide	700	--	100	0.23	100
Carbon Tetrachloride	0.3	--	1	0.22	10
Chlorobenzene	50	--	3	0.3	5
Chloroethane	3000	--	10	0.48	10
Methyl chloride	3	--	1	0.77	10
1,2-Dibromoethane	0.02	--	1	0.26	5
1,4-Dichlorobenzene	6	--	1	0.39	5
cis-1,2-Dichloroethene	70	--	5	0.25	5
1,1-Dichloroethane	6	--	5	0.2	5
1,2-Dichloroethane	0.4	--	1	0.27	5
1,1-Dichloroethene	7	--	5	0.17	5
Methylene chloride	5	--	1	0.64	10
Tetrachloroethylene	0.7	--	1	0.17	5
Toluene	600	--	1	0.23	5
1,1,1-Trichloroethane	200	--	1	0.19	5
Trichloroethylene	3	--	1	0.23	5
Trichlorofluoromethane	2000	--	1	0.24	5
Vinyl chloride	0.03	--	1	0.63	10
Xylenes (total)	500	--	5	0.68	5

NE = Not Established
All units are in (ug/L) unless noted.

FIGURES

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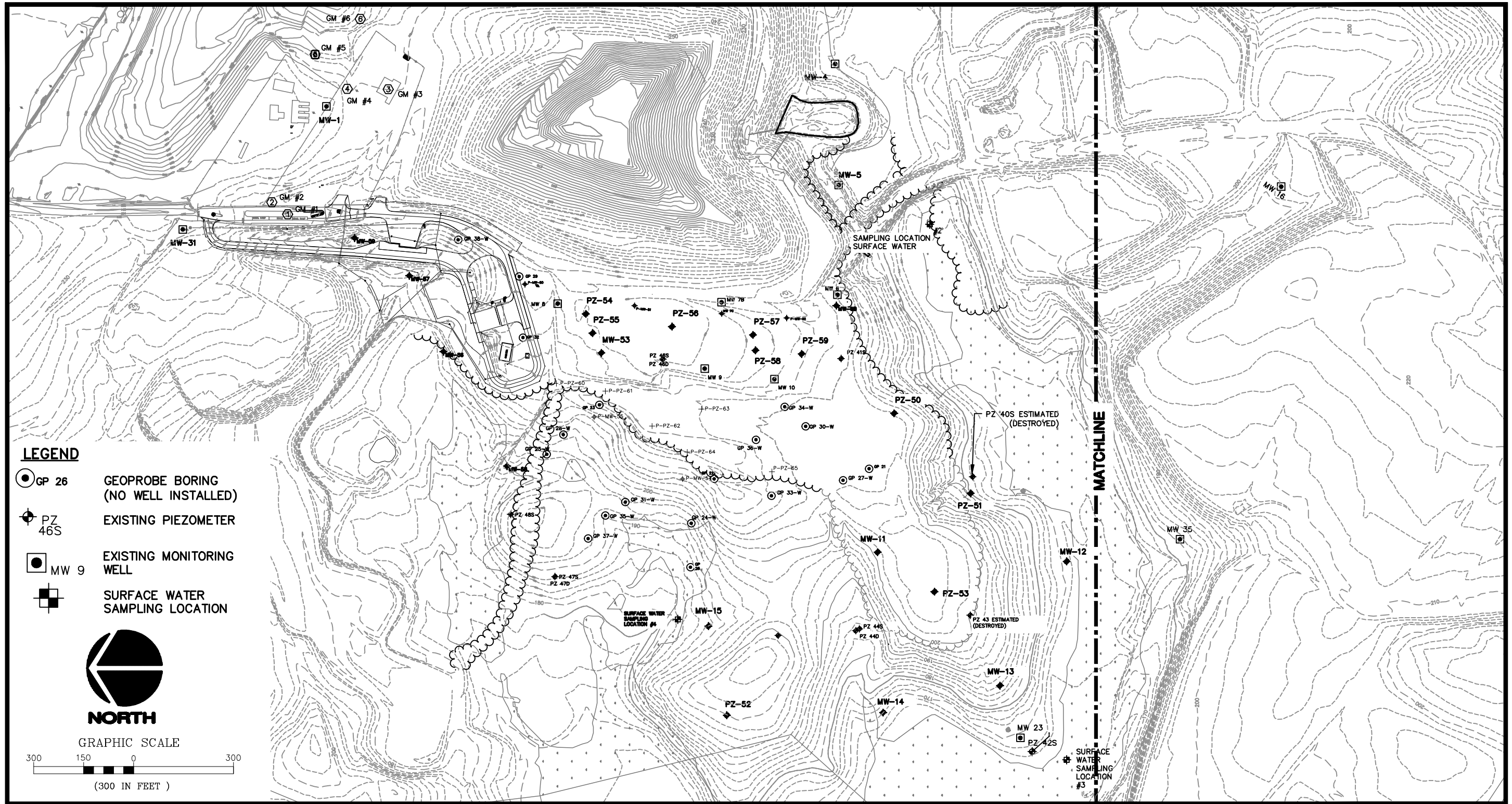
DUNN-ERWIN
LANDFILL

LANDFILL LAYOUT

HARNETT COUNTY NORTH CAROLINA

PROJECT #	:	3002
PROJ. ENG.	:	RS
DRAWN BY	:	SBK
FIELD BK.	:	–
CAD FILE	:	3035Mas Exhibit.DWG
SCALE	:	1" = 300'
DATE	:	5 DEC 2012
FIGURE #	:	1



LEGEND

- GP 26 — GEOPROBE BORING (NO WELL INSTALLED)
- PZ 46S — EXISTING PIEZOMETER
- MW 9 — EXISTING MONITORING WELL
- SURFACE WATER SAMPLING LOCATION

NORTH

GRAPHIC SCALE

300 150 0 300

(300 IN FEET)

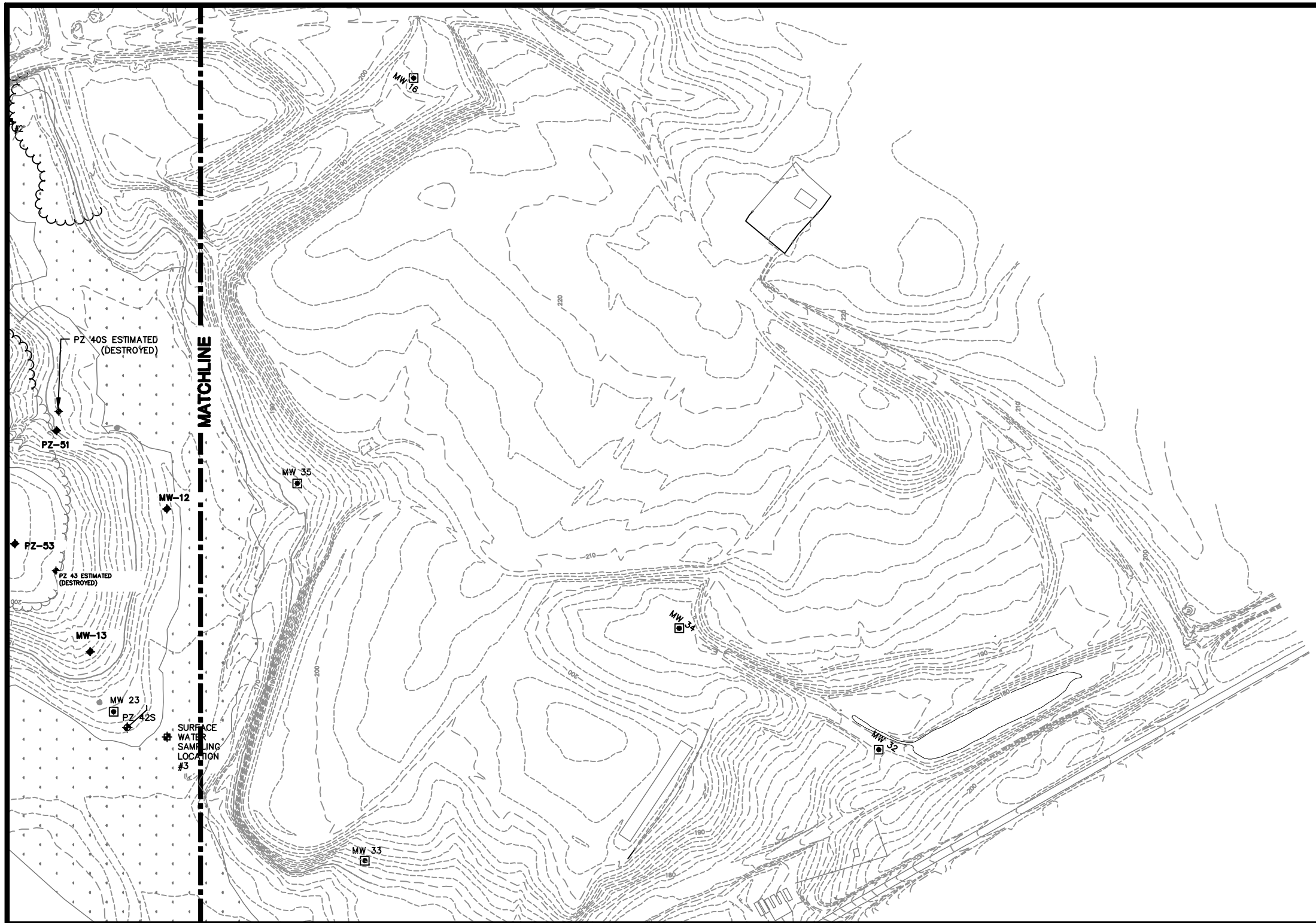
Clayton, Sr., P.E., Inc.
CIVIL & ENVIRONMENTAL ENGINEERING
46 WEST WASHINGTON STREET
COATS, NORTH CAROLINA 27521
PHONE: 910-897-7070 FAX: 910-897-6767
License No. C-2570 www.ctclayton.com

DUNN-ERWIN
LANDFILL

LANDFILL LAYOUT

HARNETT COUNTY NORTH CAROLINA

PROJECT #	:	3002
PROJ. ENG.	:	RS
DRAWN BY	:	SBK
FIELD BK.	:	–
CAD FILE	:	3035Mas Exhibit.DWG
SCALE	:	1" = 300'
DATE	:	5 DEC 2012
FIGURE #	:	2



LEGEND

- GP 26 — GEOPROBE BORING (NO WELL INSTALLED)
- PZ 46S — EXISTING PIEZOMETER
- MW 9 — EXISTING MONITORING WELL

NORTH

GRAPHIC SCALE

300 150 0 300

(300 IN FEET)

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LANDFILL

LANDFILL LAYOUT

HARNETT COUNTY NORTH CAROLINA

PROJECT #	:	3002
PROJ. ENG.	:	RS
DRAWN BY	:	SBK
FIELD BK.	:	–
CAD FILE	:	3035Mas Exhibit.DWG
SCALE	:	1" = 300'
DATE	:	5 DEC 2012
FIGURE #	:	2A

Figure 3

Top Six, NCGS-Normalized Average Organics Concentrations per Sampling Event
Averages for Select Downgradient Wells (Contaminant Plume Area)
MW6B, MW7B, MW8, MW9, MW10
Dunn-Erwin Landfill, Harnett County

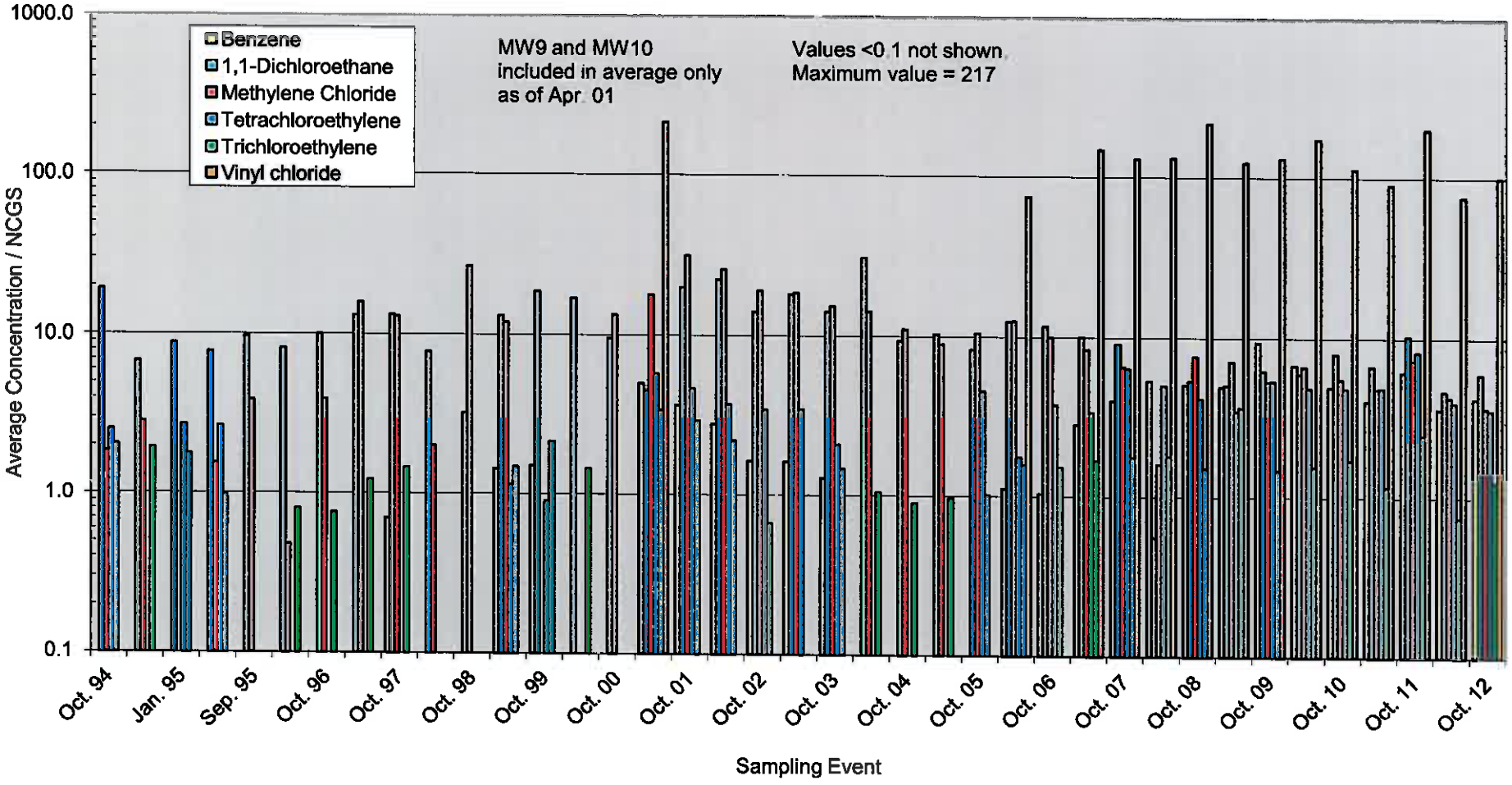


Figure 3-PLUME-AvgNCGS-Oct-12
4/8/2013

APPENDIX A

DATA SET 1
(ALSO INCLUDING THE CAP AREA)

Groundwater Monitoring Well Data
Monitoring Well 1 (MW1)
Upgradient Well - Set 1
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT	MW1																						
SAMPLING DATES	Oct. 94	Nov.94	Jan. 95	Mar. 95	Sep. 95	Dec. 95	Feb. 96	Apr. 96	July 96	Oct. 96	Apr. 97	Oct. 97	Apr. 98	Oct. 98	Mar. 99	Oct. 99	Apr. 00	Oct. 00	Apr. 01	Oct. 01	Apr. 02	Oct. 02	Apr. 03	Oct. 03
INORGANICS (mg/l)																							
Antimony						NA	NA		NA														
Arsenic						NA	NA		NA														
Barium	0.252	0.024	[redacted]	0.586		NA	NA		NA			0.083		0.1									
Beryllium			0.024	0.006	0.002	NA	NA	0.002	NA	0.003	0.006	0.001	0.004	0.003		0.002					0.002		
Cadmium	0.0008	0.001	[redacted]	0.001		NA	NA		NA														
Chromium	0.005		0.018	[redacted]		NA	NA		NA		[redacted]		[redacted]										
Cobalt			[redacted]			NA	NA		NA														
Copper	0.017		0.078	0.018		NA	NA		NA			0.007											
Lead	0.005		[redacted]	[redacted]	[redacted]	NA	NA		NA		[redacted]	[redacted]											
Nickel			0.03			NA	NA		NA														
Selenium						NA	NA		NA														
Silver						NA	NA		NA														
Vanadium	[redacted]		[redacted]			NA	NA		NA														
Zinc	0.098	0.012	0.237	0.038	0.08	NA	NA		NA		0.0647												
t-Cyanide*	NA	NA	NA	NA		NA	NA		NA		NA		NA		NA		NA	NA	NA	NA	NA	NA	NA
Mercury*	NA	NA	NA	NA		NA	NA		NA		NA		NA		NA		NA	NA	NA	NA	NA	NA	NA
Tin*	NA	NA	NA	NA		NA	NA		NA		NA	0.1	NA		NA		NA	NA	NA	NA	NA	NA	NA
ORGANICS (ug/l)																							
Acetone						NA	NA		NA														
Benzene						NA	NA		NA														
Carbon Disulfide		20.9				NA	NA		NA							7.4							
Carbon Tetrachloride						NA	NA		NA														
Chlorobenzene						NA	NA		NA														
Chloroethane						NA	NA		NA														
Chloromethane						NA	NA		NA														
1,2-Dibromoethane						NA	NA		NA														
1,4-Dichlorobenzene						NA	NA		NA														
cis-1,2-Dichloroethene						NA	NA		NA														
1,1-Dichloroethane						NA	NA		NA														
1,2-Dichloroethane						NA	NA		NA														
1,1-Dichloroethene						NA	NA		NA														
Methylene Chloride						NA	NA		NA														
Tetrachloroethylene						NA	NA		NA														
Toluene						NA	NA		NA														
1,1,1-Trichloroethane						NA	NA		NA														
Trichloroethylene						NA	NA		NA														
Trichlorofluoromethane						NA	NA		NA														
Vinyl Chloride						NA	NA		NA														
Xylenes						NA	NA		NA														
Dichlorodifluoromethane*	NA	NA	NA	NA									NA		NA		NA	NA	NA	NA	NA	NA	NA
Diethyphthalate*	NA	NA	NA	NA	5.3			5.3			9.8		NA		NA		NA	NA	NA	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate*	NA	NA	NA	NA									NA		NA		NA	NA	NA	NA	NA	NA	NA
	[redacted]	- Indicates concentrations exceeding NCGS																					
	"NE"	- not established																					
	"NA"	- not applicable																					
	*	-denotes an Appendix II constituent not included in Appendix I																					

Groundwater Monitoring Well Data
Monitoring Well 1 (MW1)
Upgradient Well - Set 1
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT																			MW1 detects		NCGS
SAMPLING DATES	Apr. 04	Oct. 04	Apr. 05	Oct. 05	Apr. 06	Oct. 06	May 07	Oct. 07	Apr. 08	Oct. 08	Apr. 09	Oct. 09	Apr. 10	Oct. 10	Apr. 11	Oct. 11	Apr. 12	Oct. 12	detect#	detect%	
INORGANICS (mg/l)																					(mg/l)
Antimony																			0	0%	0.001**
Arsenic																			0	0%	0.01
Barium																			6	15%	0.7
Beryllium												0.001							12	31%	0.004**
Cadmium																			4	10%	0.002
Chromium																			5	13%	0.01
Cobalt																			1	3%	0.001**
Copper																			4	10%	1
Lead																			6	15%	0.015
Nickel																			1	3%	0.1
Selenium																			0	0%	0.02
Silver																			0	0%	0.02
Vanadium																			2	5%	0.0003**
Zinc	0.08						0.011												8	21%	1
t-Cyanide*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0%	0.07
Mercury*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0%	0.001
Tin*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	17%	2**
ORGANICS (ug/l)																					(ug/l)
Acetone																			0	0%	6000
Benzene																			0	0%	1
Carbon Disulfide																			2	5%	700
Carbon Tetrachloride																			0	0%	0.3
Chlorobenzene																			0	0%	50
Chloroethane																			0	0%	3000
Chloromethane																			0	0%	3
1,2-Dibromoethane																			0	0%	0.02
1,4-Dichlorobenzene																			0	0%	6
cis-1,2-Dichloroethene																			0	0%	70
1,1-Dichloroethane																			0	0%	6
1,2-Dichloroethane																			0	0%	0.4
1,1-Dichloroethene																			0	0%	7
Methylene Chloride																			0	0%	5
Tetrachloroethylene																			0	0%	0.7
Toluene																			0	0%	600
1,1,1-Trichloroethane																			0	0%	200
Trichloroethylene																			0	0%	3
Trichloroflouromethane																			0	0%	2000
Vinyl Chloride																			0	0%	0.03
Xylenes																			0	0%	500
Dichlorodifluoromethane*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0%	1000
Diethyphthalate*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3	30%	6000
bis(2-ethylhexyl)phthalate*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0%	3

NCGS = 2L STD or
** 13B GWPS as of Oct 07

Groundwater Monitoring Well Data
Monitoring Well 31 (MW31)
Upgradient Well - Set 1
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT	MW31																						
SAMPLING DATES	Oct. 94	Nov.94	Jan. 95	Mar. 95	Sep. 95	Dec. 95	Feb. 96	Apr. 96	July 96	Oct. 96	Apr. 97	Oct. 97	Apr. 98	Oct. 98	Mar. 99	Oct. 99	Apr. 00	Oct. 00	Apr. 01	Oct. 01	Apr. 02	Oct. 02	Apr. 03	Oct. 03
INORGANICS (mg/l)																							
Antimony						NA	NA		NA														
Arsenic				0.005		NA	NA		NA			0.005											
Barium	0.04		0.157	0.097		NA	NA		NA			0.098			0.1								
Beryllium		0.028			0.006	NA	NA		NA		0.003	0.001			0.002	0.005							
Cadmium						NA	NA		NA		0.0013												
Chromium			0.021		0.21	NA	NA		NA								0.01						
Cobalt						NA	NA		NA														
Copper	0.017	0.012	0.095	0.04	0.22	NA	NA	0.033	NA			0.043		0.06	0.07								
Lead	0.011	0.006				NA	NA		NA														
Nickel						NA	NA		NA														
Selenium						NA	NA		NA														
Silver						NA	NA		NA														
Vanadium						NA	NA		NA														
Zinc	0.017	0.01	0.027	0.037	0.07	NA	NA		NA			0.05		0.04	0.04	0.1							
t-Cyanide*	NA	NA	NA	NA		NA	NA		NA		NA		NA		NA		NA	NA	NA	NA	NA	NA	NA	NA
Mercury*	NA	NA	NA	NA		NA	NA		NA		NA		NA		NA		NA	NA	NA	NA	NA	NA	NA	NA
Tin*	NA	NA	NA	NA		NA	NA		NA		NA		NA		NA		NA	NA	NA	NA	NA	NA	NA	NA
ORGANICS (ug/l)																							
Acetone						NA	NA		NA														
Benzene						NA	NA		NA														
Carbon Disulfide						NA	NA		NA														
Carbon Tetrachloride						NA	NA		NA														
Chlorobenzene						NA	NA		NA														
Chloroethane						NA	NA		NA														
Chloromethane						NA	NA		NA														
1,2-Dibromoethane						NA	NA		NA														
1,4-Dichlorobenzene						NA	NA		NA														
cis-1,2-Dichloroethene						NA	NA		NA														
1,1-Dichloroethane						NA	NA		NA														
1,2-Dichloroethane						NA	NA		NA														
1,1-Dichloroethene						NA	NA		NA														
Methylene Chloride						NA	NA		NA														
Tetrachloroethylene						NA	NA		NA														
Toluene						NA	NA		NA														
1,1,1-Trichloroethane						NA	NA		NA														
Trichloroethylene						NA	NA		NA														
Trichloroflouromethane						NA	NA		NA														
Vinyl Chloride						NA	NA		NA														
Xylenes						NA	NA		NA														
Dichlorodifluoromethane*	NA	NA	NA	NA									NA		NA		NA	NA	NA	NA	NA	NA	NA	NA
Diethyphthalate*	NA	NA	NA	NA									NA		NA		NA	NA	NA	NA	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate*	NA	NA	NA	NA									NA		NA		NA	NA	NA	NA	NA	NA	NA	NA
		- Indicates concentrations exceeding NCGS																						
	"NE"	- not established																						
	"NA"	- not applicable																						
	*	-denotes an Appendix II constituent not included in Appendix I																						

Groundwater Monitoring Well Data
Monitoring Well 31 (MW31)
Upgradient Well - Set 1
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT																			MW31 Detects		NCGS
SAMPLING DATES	Apr. 04	Oct. 04	Apr. 05	Oct. 05	Apr. 06	Oct. 06	May 07	Oct. 07	Apr. 08	Oct. 08	Apr. 09	Oct. 09	Apr. 10	Oct. 10	Apr. 11	Oct. 11	Apr. 12	Oct. 12	detect#	detect%	
INORGANICS (mg/l)																					(mg/l)
Antimony																			0	0%	0.001**
Arsenic																			5	13%	0.01
Barium																			5	13%	0.7
Beryllium																			6	15%	0.004**
Cadmium																			4	10%	0.002
Chromium																			11	28%	0.01
Cobalt																			2	5%	0.001**
Copper																			9	23%	1
Lead									0.014	0.013									13	33%	0.015
Nickel																			0	0%	0.1
Selenium																			0	0%	0.02
Silver																			0	0%	0.02
Vanadium																			10	26%	0.0003**
Zinc							0.017		0.01										11	28%	1
t-Cyanide*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0%	0.07
Mercury*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0%	0.001
Tin*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0%	2**
ORGANICS (ug/l)																					(ug/l)
Acetone																			0	0%	6000
Benzene																			0	0%	1
Carbon Disulfide																			0	0%	700
Carbon Tetrachloride																			0	0%	0.3
Chlorobenzene																			0	0%	50
Chloroethane																			0	0%	3000
Chloromethane																			0	0%	3
1,2-Dibromoethane																			0	0%	0.02
1,4-Dichlorobenzene																			0	0%	6
cis-1,2-Dichloroethene																			0	0%	70
1,1-Dichloroethane																			0	0%	6
1,2-Dichloroethane																			0	0%	0.4
1,1-Dichloroethene																			0	0%	7
Methylene Chloride																			0	0%	5
Tetrachloroethylene																			0	0%	0.7
Toluene																			0	0%	600
1,1,1-Trichloroethane																			0	0%	200
Trichloroethylene																			0	0%	3
Trichloroflouromethane																			0	0%	2000
Vinyl Chloride																			0	0%	0.03
Xylenes																			0	0%	500
Dichlorodifluoromethane*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0%	1000
Diethyphthalate*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0%	6000
bis(2-ethylhexyl)phthalate*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0%	3

NCGS = 2L STD or
** 13B GWPS as of Oct 07

Groundwater Monitoring Well Data
Monitoring Well 2 (MW2)
Downgradient Well - Set 1
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT	MW2																						
SAMPLING DATES	Oct. 94	Nov.94	Jan. 95	Mar. 95	Sep. 95	Dec. 95	Feb. 96	Apr. 96	July 96	Oct. 96	Apr. 97	Oct. 97	Apr. 98	Oct. 98	Mar. 99	Oct. 99	Apr. 00	Oct. 00	Apr. 01	Oct. 01	Apr. 02	Oct. 02	Apr. 03	Oct. 03	Apr. 04
INORGANICS (mg/l)																							
Antimony						NA	NA		NA														
Arsenic				0.005		NA	NA		NA														
Barium	0.143	0.404	0.489	0.469		NA	NA		NA			0.05		0.1									
Beryllium			0.012	0.035		NA	NA	0.004	NA	0.005	0.005	0.002	0.004	0.003		0.008	0.002		0.002	0.002	0.002		0.004		0.002
Cadmium		0.001	0.001			NA	NA		NA																
Chromium	0.006			0.02	0.02	NA	NA		NA							0.01									
Cobalt						NA	NA		NA																
Copper	0.027	0.046	0.037	0.041		NA	NA		NA			0.008													
Lead	0.006					NA	NA		NA		0.0148	0.004				0.01									
Nickel		0.02		0.01		NA	NA		NA																
Selenium						NA	NA		NA																
Silver						NA	NA		NA																
Vanadium						NA	NA		NA																
Zinc	0.037	0.026	0.096	0.104	0.05	NA	NA		NA	0.102		0.023				0.06									
t-Cyanide*	NA	NA	NA	NA		NA	NA		NA		NA		NA		NA		NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury*	NA	NA	NA	NA		NA	NA		NA		NA	0.0008	NA		NA		NA	NA	NA	NA	NA	NA	NA	NA	NA
Tin*	NA	NA	NA	NA		NA	NA		NA		NA	0.1	NA		NA		NA	NA	NA	NA	NA	NA	NA	NA	NA
ORGANICS (ug/l)																							
Acetone						NA	NA		NA																
Benzene						NA	NA		NA																
Carbon Disulfide						NA	NA		NA																
Carbon Tetrachloride						NA	NA		NA																
Chlorobenzene						NA	NA		NA																
Chloroethane						NA	NA		NA																
Chloromethane						NA	NA		NA																
1,2-Dibromoethane						NA	NA		NA																
1,4-Dichlorobenzene						NA	NA		NA																
cis-1,2-Dichloroethene						NA	NA		NA																
1,1-Dichloroethane						NA	NA		NA																
1,2-Dichloroethane						NA	NA		NA																
1,1-Dichloroethene						NA	NA		NA																
Methylene Chloride						NA	NA		NA																
Tetrachloroethylene						NA	NA		NA																
Toluene						NA	NA		NA																
1,1,1-Trichloroethane						NA	NA		NA																
Trichloroethylene						NA	NA		NA																
Trichloroflouromethane						NA	NA		NA																
Vinyl Chloride						NA	NA		NA																
Xylenes						NA	NA		NA																
Dichlorodifluoromethane*	NA	NA	NA	NA									NA		NA		NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyphthalate*	NA	NA	NA	NA	13								NA		NA		NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate*	NA	NA	NA	NA									NA		NA		NA	NA	NA	NA	NA	NA	NA	NA	NA

- indicates concentrations exceeding NCGS
"NE" - not established
"NA" - not applicable
* -denotes an Appendix II constituent not included in Appendix I

Groundwater Monitoring Well Data
Monitoring Well 2 (MW2)
Downgradient Well - Set 1
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT																		MW2 Detects		NCGS
SAMPLING DATES	Oct. 04	Apr. 05	Oct. 05	Apr. 06	Oct. 06	May 07	Oct. 07	Apr. 08	Oct. 08	Apr. 09	Oct. 09	Apr. 10	Oct. 10	Apr. 11	Oct. 11	Apr. 12	Oct. 12	detect#	detect%	
INORGANICS (mg/l)																				(mg/l)
Antimony																		0	0%	0.001**
Arsenic																		2	5%	0.01
Barium																		7	18%	0.7
Beryllium	0.003					0.002	0.0015	0.002	0.002	0.0019	0.0018	0.0017	0.002	0.002	0.002	0.001	0.002	28	72%	0.004**
Cadmium																		4	10%	0.002
Chromium																		6	15%	0.01
Cobalt																		3	8%	0.001**
Copper																		5	13%	1
Lead																		8	21%	0.015
Nickel																		2	5%	0.1
Selenium																		0	0%	0.02
Silver																		0	0%	0.02
Vanadium																		4	10%	0.0003**
Zinc						0.013		0.012					0.012	0.016	0.018	0.014	0.011	15	38%	1
t-Cyanide*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0%	0.07
Mercury*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	17%	0.001
Tin*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	17%	2**
ORGANICS (ug/l)																				(ug/l)
Acetone																		0	0%	6000
Benzene																		0	0%	1
Carbon Disulfide																		0	0%	700
Carbon Tetrachloride																		0	0%	0.3
Chlorobenzene																		0	0%	50
Chloroethane																		0	0%	3000
Chloromethane																		0	0%	3
1,2-Dibromoethane																		0	0%	0.02
1,4-Dichlorobenzene																		0	0%	6
cis-1,2-Dichloroethene																		0	0%	70
1,1-Dichloroethane																		0	0%	6
1,2-Dichloroethane																		0	0%	0.4
1,1-Dichloroethene																		0	0%	7
Methylene Chloride																		0	0%	5
Tetrachloroethylene																		0	0%	0.7
Toluene																		0	0%	600
1,1,1-Trichloroethane																		0	0%	200
Trichloroethylene																		0	0%	3
Trichloroflouromethane																		0	0%	2000
Vinyl Chloride																		0	0%	0.03
Xylenes																		0	0%	500
Dichlorodifluoromethane*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0%	1000
Diethyphthalate*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	10%	6000
bis(2-ethylhexyl)phthalate*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0%	3

NCGS = 2L STD or
** 13B GWPS as of Oct 07

Groundwater Monitoring Well Data
Monitoring Well 3 (MW3)
Downgradient Well - Set 1
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT	MW3																							
SAMPLING DATES	Oct. 94	Nov.94	Jan. 95	Mar. 95	Sep. 95	Dec. 95	Feb. 96	Apr. 96	July 96	Oct. 96	Apr. 97	Oct. 97	Apr. 98	Oct. 98	Mar. 99	Oct. 99	Apr. 00	Oct. 00	Apr. 01	Oct. 01	Apr. 02	Oct. 02	Apr. 03	Oct. 03
INORGANICS (mg/l)																								
Antimony						NA	NA		NA															
Arsenic						NA	NA		NA															
Barium	0.095	0.174	0.083	0.061		NA	NA		NA			0.062			0.1									
Beryllium		0.004	0.08	0.007	0.007	NA	NA	0.007	NA	0.011	0.009	0.004	0.005	0.005	0.011	0.008	0.004	0.005	0.006	0.005	0.005	0.005	0.005	0.005
Cadmium		0.002	0.001	0.011		NA	NA		NA															
Chromium	0.005			0.003		NA	NA		NA							0.01					0.014			
Cobalt		0.005	0.012			NA	NA		NA															
Copper				0.006		NA	NA		NA			0.006												
Lead	0.006					NA	NA		NA			0.003				0.01								
Nickel						NA	NA		NA															
Selenium						NA	NA		NA															
Silver						NA	NA		NA															
Vanadium	0.009			0.01		NA	NA		NA															
Zinc	0.023	0.039	0.018	0.018	0.06	NA	NA		NA			0.03				0.05								
t-Cyanide*	NA	NA	NA	NA		NA	NA		NA		NA		NA		NA		NA	NA	NA	NA	NA	NA	NA	NA
Mercury*	NA	NA	NA	NA		NA	NA		NA		NA		NA		NA		NA	NA	NA	NA	NA	NA	NA	NA
Tin*	NA	NA	NA	NA		NA	NA		NA		NA		NA		NA		NA	NA	NA	NA	NA	NA	NA	NA
ORGANICS (ug/l)																								
Acetone						NA	NA		NA															
Benzene						NA	NA		NA															
Carbon Disulfide		64.4				NA	NA		NA															
Carbon Tetrachloride						NA	NA		NA															
Chlorobenzene						NA	NA		NA															
Chloroethane						NA	NA		NA															
Chloromethane						NA	NA		NA															
1,2-Dibromoethane						NA	NA		NA															
1,4-Dichlorobenzene						NA	NA		NA															
cis-1,2-Dichloroethene						NA	NA		NA															
1,1-Dichloroethane						NA	NA		NA															
1,2-Dichloroethane						NA	NA		NA															
1,1-Dichloroethene						NA	NA		NA															
Methylene Chloride						NA	NA		NA															
Tetrachloroethylene						NA	NA		NA															
Toluene						NA	NA		NA															
1,1,1-Trichloroethane						NA	NA		NA															
Trichloroethylene						NA	NA		NA															
Trichloroflouromethane						NA	NA		NA															
Vinyl Chloride						NA	NA		NA															
Xylenes						NA	NA		NA															
Dichlorodifluoromethane*	NA	NA	NA	NA									NA		NA		NA	NA	NA	NA	NA	NA	NA	NA
Diethyphthalate*	NA	NA	NA	NA									NA		NA		NA	NA	NA	NA	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate*	NA	NA	NA	NA									NA		NA		NA	NA	NA	NA	NA	NA	NA	NA
		- Indicates concentrations exceeding NCGS																						
	"NE"	- not established																						
	"NA"	- not applicable																						
	*	-denotes an Appendix II constituent not included in Appendix I																						

Groundwater Monitoring Well Data
Monitoring Well 3 (MW3)
Downgradient Well - Set 1
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT				MW3R															MW3 Detects		NCGS
SAMPLING DATES	Apr. 04	Oct. 04	Apr. 05	Oct. 05	Apr. 06	Oct. 06	May 07	Oct. 07	Apr. 08	Oct. 08	Apr. 09	Oct. 09	Apr. 10	Oct. 10	Apr. 11	Oct. 11	Apr. 12	Oct. 13	detect#	detect%	
INORGANICS (mg/l)																					(mg/l)
Antimony			NA																0	0%	0.001**
Arsenic			NA																0	0%	0.01
Barium			NA							0.124	0.107								6	21%	0.7
Beryllium	0.005	0.006	NA						0.001	0.002	0.0027	0.0032	0.0028	0.003	0.003	0.003	0.003	0.003	32	84%	0.004**
Cadmium			NA																3	8%	0.002
Chromium			NA																4	11%	0.01
Cobalt			NA																2	5%	0.001**
Copper			NA																2	5%	1
Lead			NA																3	8%	0.015
Nickel			NA																0	0%	0.1
Selenium			NA																0	0%	0.02
Silver			NA																0	0%	0.02
Vanadium			NA																2	5%	0.0003**
Zinc			NA				0.015		0.014	0.022	0.016	0.014	0.012	0.011	0.012	0.011		0.011	17	45%	1
t-Cyanide*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0%	0.07
Mercury*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0%	0.001
Tin*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0%	2**
ORGANICS (ug/l)																					(ug/l)
Acetone			NA																0	0%	6000
Benzene			NA																0	0%	1
Carbon Disulfide			NA																1	3%	700
Carbon Tetrachloride			NA																0	0%	0.3
Chlorobenzene			NA																0	0%	50
Chloroethane			NA																0	0%	3000
Chloromethane			NA																0	0%	3
1,2-Dibromoethane			NA																0	0%	0.02
1,4-Dichlorobenzene			NA																0	0%	6
cis-1,2-Dichloroethene			NA																0	0%	70
1,1-Dichloroethane			NA																0	0%	6
1,2-Dichloroethane			NA																0	0%	0.4
1,1-Dichloroethene			NA																0	0%	7
Methylene Chloride			NA																0	0%	5
Tetrachloroethylene			NA																0	0%	0.7
Toluene			NA																0	0%	600
1,1,1-Trichloroethane			NA																0	0%	200
Trichloroethylene			NA																0	0%	3
Trichlorofluoromethane			NA																0	0%	2000
Vinyl Chloride			NA																0	0%	0.03
Xylenes			NA																0	0%	500
Dichlorodifluoromethane*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0%	1000
Diethyphthalate*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0%	6000
bis(2-ethylhexyl)phthalate*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0%	3

NCGS = 2L STD or
** 13B GWPS as of Oct 07

Groundwater Monitoring Well Data
Monitoring Well 4 (MW4)
Downgradient Well - Set 1
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT	MW4																						
SAMPLING DATES	Oct. 94	Nov.94	Jan. 95	Mar. 95	Sept. 95	Dec. 95	Feb. 96	Apr. 96	July 96	Oct. 96	Apr. 97	Oct. 97	Apr. 98	Oct. 98	Mar. 99	Oct. 99	Apr. 00	Oct. 00	Apr. 01	Oct. 01	Apr. 02	Oct. 02	Apr. 03	Oct. 03
INORGANICS (mg/l)																							
Antimony						NA	NA		NA														
Arsenic						NA	NA		NA														
Barium	0.106	0.47	0.07	0.041		NA	NA		NA			0.127			0.1								
Beryllium			0.003	0.003	0.006	NA	NA	0.006	NA	0.014	0.006	0.009	0.003	0.004	0.01	0.012	0.004	0.003	0.002	0.003	0.003	0.003	0.003	
Cadmium		0.001		[redacted]		NA	NA		NA															
Chromium	0.003	[redacted]				NA	NA		NA	[redacted]		0.01			0.01	[redacted]								
Cobalt		[redacted]				NA	NA		NA							[redacted]								
Copper	0.01	0.033	0.005	0.006		NA	NA		NA			0.01												
Lead	0.004	[redacted]	0.002	0.002		NA	NA		NA	[redacted]	0.012	0.013			0.01	0.02								
Nickel						NA	NA		NA			0.01												
Selenium						NA	NA		NA															
Silver						NA	NA		NA															
Vanadium		[redacted]				NA	NA		NA							[redacted]								
Zinc	0.026	0.093	0.028	0.026		NA	NA		NA		0.052	0.042			0.04	0.12								
t-Cyanide*	NA	NA	NA	NA		NA	NA		NA		NA		NA		NA		NA	NA	NA	NA	NA	NA	NA	NA
Mercury*	NA	NA	NA	NA		NA	NA		NA		NA		NA		NA		NA	NA	NA	NA	NA	NA	NA	NA
Tin*	NA	NA	NA	NA		NA	NA		NA		NA		NA		NA		NA	NA	NA	NA	NA	NA	NA	NA
ORGANICS (ug/l)																								
Acetone						NA	NA		NA															
Benzene						NA	NA		NA															
Carbon Disulfide		21.3	21.3	6.2		NA	NA		NA															
Carbon Tetrachloride						NA	NA		NA															
Chlorobenzene						NA	NA		NA															
Chloroethane						NA	NA		NA															
Chloromethane						NA	NA		NA															
1,2-Dibromoethane						NA	NA		NA															
1,4-Dichlorobenzene						NA	NA		NA															
cis-1,2-Dichloroethene						NA	NA		NA															
1,1-Dichloroethane						NA	NA		NA															
1,2-Dichloroethane						NA	NA		NA															
1,1-Dichloroethene						NA	NA		NA															
Methylene Chloride						NA	NA		NA															
Tetrachloroethylene						NA	NA		NA															
Toluene						NA	NA		NA															
1,1,1-Trichloroethane						NA	NA		NA															
Trichloroethylene						NA	NA		NA															
Trichlorofluoromethane						NA	NA		NA															
Vinyl Chloride						NA	NA		NA															
Xylenes						NA	NA		NA															
Dichlorodifluoromethane*	NA	NA	NA	NA									NA		NA		NA	NA	NA	NA	NA	NA	NA	NA
Diethyphthalate*	NA	NA	NA	NA		13			13				NA		NA		NA	NA	NA	NA	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate*	NA	NA	NA	NA									NA		NA		NA	NA	NA	NA	NA	NA	NA	NA
	[redacted]	- indicates concentrations exceeding NCGS																						
	"NE"	- not established																						
	"NA"	- not applicable																						
	*	-denotes an Appendix II constituent not included in Appendix I																						

Groundwater Monitoring Well Data
Monitoring Well 4 (MW4)
Downgradient Well - Set 1
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT																			MW4 Detects		NCGS
SAMPLING DATES	Apr. 04	Oct. 04	Apr. 05	Oct. 05	Apr. 06	Oct. 06	May 07	Oct. 07	Apr. 08	Oct. 08	Apr. 09	Oct. 09	Apr. 10	Oct. 10	Apr. 11	Oct. 11	Apr. 12	Oct. 12	detect#	detect%	
INORGANICS (mg/l)																					(mg/l)
Antimony																			0	0%	0.001**
Arsenic																			0	0%	0.01
Barium															0.153				7	18%	0.7
Beryllium	0.002	0.004		0.002	0.002	0.002	0.002	0.0026	0.003	[illegible]	0.0029	0.003	0.0028	0.003	[illegible]	0.003	0.002	0.003	35	90%	0.004**
Cadmium																			2	5%	0.002
Chromium																			6	15%	0.01
Cobalt																			2	5%	0.001**
Copper																			5	13%	1
Lead															0.014				10	26%	0.015
Nickel																			1	3%	0.1
Selenium																			0	0%	0.02
Silver																			0	0%	0.02
Vanadium																			2	5%	0.0003**
Zinc							0.019		0.017	0.013	0.016	0.01	0.013		0.04	0.024	0.014	0.036	18	46%	1
t-Cyanide*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0%	0.07
Mercury*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0%	0.001
Tin*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0%	2**
ORGANICS (ug/l)																					(ug/l)
Acetone																			0	0%	6000
Benzene																			0	0%	1
Carbon Disulfide																			3	8%	700
Carbon Tetrachloride																			0	0%	0.3
Chlorobenzene																			0	0%	50
Chloroethane																			0	0%	3000
Chloromethane																			0	0%	3
1,2-Dibromoethane																			0	0%	0.02
1,4-Dichlorobenzene																			0	0%	6
cis-1,2-Dichloroethene																			0	0%	70
1,1-Dichloroethane																			0	0%	6
1,2-Dichloroethane																			0	0%	0.4
1,1-Dichloroethene																			0	0%	7
Methylene Chloride																			0	0%	5
Tetrachloroethylene																			0	0%	0.7
Toluene																			0	0%	600
1,1,1-Trichloroethane																			0	0%	200
Trichloroethylene																			0	0%	3
Trichloroflouromethane																			0	0%	2000
Vinyl Chloride																			0	0%	0.03
Xylenes																			0	0%	500
Dichlorodifluoromethane*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0%	1000
Diethyphthalate*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2	20%	6000
bis(2-ethylhexyl)phthalate*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0%	3

NCGS = 2L STD or
** 13B GWPS as of Oct 07

Groundwater Monitoring Well Data
Monitoring Well 5 (MW5)
Downgradient Well - Set 1
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT	MW5																						
SAMPLING DATES	Oct. 94	Nov.94	Jan. 95	Mar. 95	Sep. 95	Dec. 95	Feb. 96	Apr. 96	July 96	Oct. 96	Apr. 97	Oct. 97	Apr. 98	Oct. 98	Mar. 99	Oct. 99	Apr. 00	Oct. 00	Apr. 01	Oct. 01	Apr. 02	Oct. 02	Apr. 03	Oct. 03
INORGANICS (mg/l)																							
Antimony						NA	NA		NA														
Arsenic						NA	NA		NA														
Barium	0.208	0.142	0.243	0.104		NA	NA		NA			0.127	0.1	0.2	0.2								
Beryllium						NA	NA		NA	0.002				0.002	0.003	0.006								
Cadmium			0.001			NA	NA	0.001	NA														
Chromium	0.009					NA	NA		NA														
Cobalt						NA	NA		NA														
Copper	0.017	0.006	0.007	0.006		NA	NA		NA														
Lead	0.008	0.002	0.008			NA	NA		NA			0.002											
Nickel				0.08		NA	NA		NA														
Selenium						NA	NA		NA														
Silver						NA	NA		NA														
Vanadium	[redacted]					NA	NA		NA														
Zinc	0.027	0.019	0.026	0.01		NA	NA		NA			0.019											
t-Cyanide*	NA	NA	NA	NA		NA	NA		NA		NA		NA		NA		NA	NA	NA	NA	NA	NA	NA	NA
Mercury*	NA	NA	NA	NA		NA	NA		NA		NA		NA		NA		NA	NA	NA	NA	NA	NA	NA	NA
Tin*	NA	NA	NA	NA		NA	NA		NA		NA		NA		NA		NA	NA	NA	NA	NA	NA	NA	NA
ORGANICS (ug/l)																							
Acetone						NA	NA		NA														
Benzene						NA	NA		NA														
Carbon Disulfide		30.5				NA	NA		NA							6.8							
Carbon Tetrachloride						NA	NA		NA														
Chlorobenzene						NA	NA		NA														
Chloroethane						NA	NA		NA														
Chloromethane						NA	NA		NA														
1,2-Dibromoethane						NA	NA		NA														
1,4-Dichlorobenzene						NA	NA		NA														
cis-1,2-Dichloroethene						NA	NA		NA														
1,1-Dichloroethane						NA	NA		NA														
1,2-Dichloroethane						NA	NA		NA														
1,1-Dichloroethene						NA	NA		NA														
Methylene Chloride						NA	NA		NA														
Tetrachloroethylene						NA	NA		NA														
Toluene						NA	NA		NA														
1,1,1-Trichloroethane						NA	NA		NA														
Trichloroethylene						NA	NA		NA														
Trichloroflouromethane						NA	NA		NA														
Vinyl Chloride						NA	NA		NA														
Xylenes						NA	NA		NA														
Dichlorodifluoromethane*	NA	NA	NA	NA									NA		NA		NA	NA	NA	NA	NA	NA	NA	NA
Diethyphthalate*	NA	NA	NA	NA									NA		NA		NA	NA	NA	NA	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate*	NA	NA	NA	NA									NA		NA		NA	NA	NA	NA	NA	NA	NA	NA
	[redacted]	- indicates concentrations exceeding NCGS																						
	"NE"	- not established																						
	"NA"	- not applicable																						
	*	-denotes an Appendix II constituent not included in Appendix I																						

Groundwater Monitoring Well Data
Monitoring Well 5 (MW5)
Downgradient Well - Set 1
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT																			MW5 Detects		NCGS
SAMPLING DATES	Apr. 04	Oct. 04	Apr. 05	Oct. 05	Apr. 06	Oct. 06	May 07	Oct. 07	Apr. 08	Oct. 08	Apr. 09	Oct. 09	Apr. 10	Oct. 10	Apr. 11	Oct. 11	Apr. 12	Oct. 12	detect#	detect%	
INORGANICS (mg/l)																					(mg/l)
Antimony																			0	0%	0.001**
Arsenic																			1	3%	0.01
Barium							0.112	0.103		0.197	0.129	0.117	0.113	0.115	0.112	0.101	0.106	0.105	19	49%	0.7
Beryllium										0.003									5	13%	0.004**
Cadmium																			2	5%	0.002
Chromium																			1	3%	0.01
Cobalt																			0	0%	0.001**
Copper																			4	10%	1
Lead																			4	10%	0.015
Nickel																			1	3%	0.1
Selenium																			0	0%	0.02
Silver																			0	0%	0.02
Vanadium																			1	3%	0.0003**
Zinc										0.014									6	15%	1
t-Cyanide*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0%	0.07
Mercury*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0%	0.001
Tin*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0%	2**
ORGANICS (ug/l)																					(ug/l)
Acetone																			0	0%	6000
Benzene																			0	0%	1
Carbon Disulfide																			2	5%	700
Carbon Tetrachloride																			0	0%	0.3
Chlorobenzene																			0	0%	50
Chloroethane																			0	0%	3000
Chloromethane																			0	0%	3
1,2-Dibromoethane																			0	0%	0.02
1,4-Dichlorobenzene																			0	0%	6
cis-1,2-Dichloroethene																			0	0%	70
1,1-Dichloroethane																			0	0%	6
1,2-Dichloroethane																			0	0%	0.4
1,1-Dichloroethene																			0	0%	7
Methylene Chloride																			0	0%	5
Tetrachloroethylene																			0	0%	0.7
Toluene																			0	0%	600
1,1,1-Trichloroethane																			0	0%	200
Trichloroethylene																			0	0%	3
Trichlorofluoromethane																			0	0%	2000
Vinyl Chloride																			0	0%	0.03
Xylenes																			0	0%	500
Dichlorodifluoromethane*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0%	1000
Diethyphthalate*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0%	6000
bis(2-ethylhexyl)phthalate*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0%	3

NCGS = 2L STD or
** 13B GWPS as of Oct 07

Groundwater Monitoring Well Data
Monitoring Well 6,6B (MW6,6B)
Downgradient Well - Set 1
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT	MW6,6B																						
SAMPLING DATES	Oct. 94	Nov.94	Jan. 95	Mar. 95	Sep. 95	Dec. 95	Feb. 96	Apr. 96	July 96	Oct. 96	Apr. 97	Oct. 97	Apr. 98	Oct. 98	Mar. 99	Oct. 99	Apr. 00	Oct. 00	Apr. 01	Oct .01	Apr. 02	Oct. 02	Apr. 03	Oct. 03
INORGANICS (mg/l)																							
Antimony						NA	NA		NA														
Arsenic				0.005		NA	NA		NA														
Barium	0.068	0.096	0.141	0.062		NA	NA		NA			0.084	0.1	0.1									
Beryllium						NA	NA		NA														
Cadmium	[redacted]	[redacted]	[redacted]			NA	NA		NA														
Chromium	0.003	[redacted]		0.005		NA	NA	[redacted]	NA		[redacted]										[redacted]		
Cobalt						NA	NA		NA		[redacted]	[redacted]			[redacted]		[redacted]		[redacted]	[redacted]	[redacted]		[redacted]	[redacted]
Copper		0.019	0.01	0.008		NA	NA		NA			0.020											
Lead	0.009	[redacted]	[redacted]	0.007	[redacted]	NA	NA	[redacted]	NA		0.011	0.007											
Nickel	0.005					NA	NA		NA														
Selenium						NA	NA		NA														
Silver						NA	NA		NA														
Vanadium	[redacted]	[redacted]	[redacted]			NA	NA	[redacted]	NA														
Zinc	0.038	0.047	0.029	0.018		NA	NA		NA			0.017											
t-Cyanide*	NA	NA	NA	NA		NA	NA		NA		NA				NA		NA		NA		NA		NA	
Mercury*	NA	NA	NA	NA		NA	NA		NA		NA	0.0004	0.0004	0.0004	NA	[redacted]	NA		NA		NA	0.0006	NA	0.0008
Tin*	NA	NA	NA	NA		NA	NA		NA		NA	0.1			NA		NA		NA		NA		NA	
ORGANICS (ug/l)																							
Acetone						NA			NA								170						
Benzene						NA			NA						[redacted]	[redacted]			[redacted]				
Carbon Disulfide		7.9				NA			NA														
Carbon Tetrachloride						NA			NA														
Chlorobenzene		4	8.5			NA			NA		13	24		[redacted]	11	5.1							
Chloroethane					38	NA	40	40	NA	64	91	46	28.6	190	44	53	53	21	78	17	19		
Chloromethane						NA			NA								[redacted]						
1,2-Dibromoethane						NA			NA														
1,4-Dichlorobenzene						NA			NA										[redacted]				
cis-1,2-Dichloroethene						NA			NA						1.9	2.6			13		5.8		
1,1-Dichloroethane	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	NA	[redacted]	[redacted]	NA	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		[redacted]	[redacted]	27.7	[redacted]	[redacted]
1,2-Dichloroethene						NA			NA														
1,1-Dichloroethene			[redacted]			NA			NA						1.4								
Methylene Chloride	[redacted]	[redacted]		[redacted]	[redacted]	NA	[redacted]	[redacted]	NA	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			[redacted]	[redacted]	[redacted]	[redacted]	54.8		[redacted]
Tetrachloroethylene	6.3		[redacted]	[redacted]		NA			NA						[redacted]	[redacted]			[redacted]					
Toluene						NA			NA														
1,1,1-Trichloroethane	15.4	16	15.1	8.3	10	NA	13	7.1	NA		7.2				2.4								
Trichloroethylene	[redacted]	[redacted]	[redacted]	[redacted]		NA	[redacted]		NA	[redacted]	[redacted]	[redacted]			[redacted]	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]			
Trichloroflouromethane						NA			NA														
Vinyl Chloride						NA			NA										[redacted]				
Xylenes	46.7	83.8	68.9	74.8	24	NA	22	23	NA	24	32				11		6		11					
Dichlorodifluoromethane*	NA	NA	NA	NA	6.4		5	6.8	10.9		7.9		NA		2.4	2.7	NA		NA		NA		NA	
Diethyphthalate*	NA	NA	NA	NA									NA				NA		NA		NA		NA	
bis(2-ethylhexyl)phthalate*	NA	NA	NA	NA					[redacted]				NA				NA		NA		NA		NA	

[redacted] - indicates concentrations exceeding NCGS
"NE" - not established
"NA" - not applicable
* -denotes an Appendix II constituent not included in Appendix I

Groundwater Monitoring Well Data
Monitoring Well 6,6B (MW6,6B)
Downgradient Well - Set 1
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT																			MW6,6B Detects		NCGS
SAMPLING DATES	Apr. 04	Oct. 04	Apr. 05	Oct. 05	Apr. 06	Oct. 06	May 07	Oct. 07	Apr. 08	Oct. 08	Apr. 09	Oct. 09	Apr. 10	Oct. 10	Apr. 11	Oct. 11	Apr. 12	Oct. 12	detect#	detect%	
INORGANICS (mg/l)																					(mg/l)
Antimony																			0	0%	0.001**
Arsenic																			1	3%	0.01
Barium							0.148	0.103	0.14	0.136	0.118		0.153	0.136	0.198	0.145	0.22	0.199	18	46%	0.7
Beryllium																			0	0%	0.004**
Cadmium													0.0014						4	10%	0.002
Chromium																			6	15%	0.01
Cobalt																			27	69%	0.001**
Copper																			4	10%	1
Lead																			9	23%	0.015
Nickel																			1	3%	0.1
Selenium																			0	0%	0.02
Silver																			0	0%	0.02
Vanadium																			4	10%	0.0003**
Zinc								0.015	0.016				0.1						9	23%	1
t-Cyanide*	NA		NA		NA		NA		NA		NA		NA		NA		NA		0	0%	0.07
Mercury*	NA		NA		NA		NA	0.0004	NA		NA		NA	0.0008	NA		NA		8	40%	0.001
Tin*	NA		NA		NA		NA		NA		NA		NA		NA		NA		1	5%	2**
ORGANICS (ug/l)																					(ug/l)
Acetone																			1	3%	6000
Benzene																			13	33%	1
Carbon Disulfide																			1	3%	700
Carbon Tetrachloride																			1	3%	0.3
Chlorobenzene																			7	18%	50
Chloroethane	15.9			12.3															17	43%	3000
Chloromethane																			1	3%	3
1,2-Dibromoethane																			0	0%	0.02
1,4-Dichlorobenzene							3.2			5	4.7	4.4	5.2				5.3	4.8	14	35%	6
cis-1,2-Dichloroethene				17.3	11.9	12.8	12.6	23.1	31.4	41.2	12.5	13.6	17.3	28.8	25.3	27.6	12.8	12.5	19	48%	70
1,1-Dichloroethane															5.3	5.3			33	83%	6
1,2-Dichloroethane																			0	0%	0.4
1,1-Dichloroethene																			2	5%	7
Methylene Chloride									4.1		1.5		1.5	4.8	1.5				31	78%	5
Tetrachloroethylene																			21	53%	0.7
Toluene																			0	0%	600
1,1,1-Trichloroethane																			9	23%	200
Trichloroethylene											2.3								29	73%	3
Trichlorofluoromethane																			0	0%	2000
Vinyl Chloride																			14	35%	0.03
Xylenes				9.8										10.8					14	35%	500
Dichlorodifluoromethane*	NA		NA		NA		NA		NA		NA		NA		NA		NA		7	29%	1000
Diethyphthalate*	NA		NA		NA		NA		NA		NA		NA		NA		NA		0	0%	6000
bis(2-ethylhexyl)phthalate*	NA		NA		NA		NA		NA		NA		NA		NA		NA		2	8%	3

NCGS = 2L STD or
** 13B GWPS as of Oct 07

Groundwater Monitoring Well Data
Monitoring Well 7,7B (MW7,7B)
Downgradient Well - Set 1
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT	MW7				MW7B																		
SAMPLING DATES	Oct. 94	Nov.94	Jan. 95	Mar. 95	Sep. 95	Dec. 95	Feb. 96	Apr. 96	July 96	Oct. 96	Apr. 97	Oct. 97	Apr. 98	Oct. 98	Mar. 99	Oct. 99	Apr. 00	Oct.00	Apr. 01	Oct. 01	Apr. 02	Oct. 02	Apr. 03	Oct. 03
INORGANICS (mg/l)																								
Antimony		NA	NA			NA	NA		NA					NT										
Arsenic		NA	NA			NA	NA	0.010	NA	0.01				NT										
Barium		NA	NA	0.2	0.55	NA	NA		NA				0.3	NT			0.5							
Beryllium		NA	NA	0.001	0.003	NA	NA		NA		0.003			NT	0.004									
Cadmium	0.0013	NA	NA	0.001		NA	NA		NA					NT										
Chromium		NA	NA		0.09	NA	NA		NA		0.071		0.010	NT		0.01								
Cobalt		NA	NA			NA	NA		NA					NT								0.024		
Copper	0.034	NA	NA	0.036		NA	NA		NA			0.013		NT	0.08									
Lead		NA	NA			NA	NA		NA					NT										
Nickel	0.02	NA	NA			NA	NA		NA					NT										
Selenium		NA	NA			NA	NA		NA					NT										
Silver		NA	NA			NA	NA		NA					NT										
Vanadium		NA	NA			NA	NA		NA					NT										
Zinc	0.051	NA	NA	0.065	0.06	NA	NA		NA			0.026		NT	0.15	0.05								
t-Cyanide*	NA	NA	NA	NA		NA	NA		NA		NA		NA	NT	NA		NA		NA		NA		NA	
Mercury*	NA	NA	NA	NA		NA	NA		NA		NA	0.0006	NA	NT	NA	0.001	NA		NA	0.001	NA		NA	
Tin*	NA	NA	NA	NA		NA	NA		NA		NA		NA	NT	NA		NA		NA		NA	0.179	NA	
ORGANICS (ug/l)																								
Acetone			NA			NA			NA					NT										
Benzene			NA			NA			NA					NT										
Carbon Disulfide			NA			NA			NA					NT										
Carbon Tetrachloride			NA			NA			NA					NT										
Chlorobenzene			NA			NA			NA					NT										
Chloroethane			NA	29.3	30	NA	13	14	NA	37		4.8	177	NT	31	68	44	21	31	22	34	14.9	19.9	30.7
Chloromethane			NA			NA			NA					NT										
1,2-Dibromoethane			NA			NA			NA					NT										
1,4-Dichlorobenzene			NA			NA			NA					NT										
cis-1,2-Dichloroethene			NA			NA			NA					NT										
1,1-Dichloroethane			NA			NA			NA					NT										
1,2-Dichloroethane			NA			NA			NA					NT										
1,1-Dichloroethene	8.6	8.1	NA	6.2	17	NA	15	8.8	NA	15	14	12	14.7	NT	7.2	7.4			10	5.3	7.4	6.5	8.1	6
Methylene Chloride			NA			NA			NA			2.2		NT								26.4		
Tetrachloroethylene			NA			NA			NA					NT										
Toluene	31.4	13.2	NA	3.8	11	NA	9		NA					NT	3.4		5							
1,1,1-Trichloroethane	59.1	59.3	NA	29.1	78	NA	65	75	NA	65	49	27	33.4	NT	11	12	12		8.20	5.6	6.9		5.1	
Trichloroethylene			NA			NA			NA			1		NT										
Trichlorofluoromethane			NA	11.7	14	NA	8.7	11	NA	22	11	13	9.4	NT	8.3				9.10		7	5.1		
Vinyl Chloride			NA			NA			NA					NT										
Xylenes	6.5	5.4	NA			NA			NA					NT	4.8		12				9.3		6.3	
Dichlorodifluoromethane*	NA	NA	NA	NA	56	155	34	53	69.2	110	94		33.2	NT	31	41	NA		NA		NA	24.7	NA	20.6
Diethyphthalate*	NA	NA	NA	NA	13									NT			NA		NA		NA		NA	
bis(2-ethylhexyl)phthalate*	NA	NA	NA	NA										NT			NA		NA		NA		NA	
Tetrahydrofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		- indicates concentrations exceeding NCGS																						
	"NE"	- not established																						
	"NA"	- not applicable																						
	*	-denotes an Appendix II constituent not included in Appendix I																						

Groundwater Monitoring Well Data
Monitoring Well 7,7B (MW7,7B)
Downgradient Well - Set 1
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT																			MW7,7B Detects		NCGS
SAMPLING DATES	Apr. 04	Oct. 04	Apr. 05	Oct. 05	Apr. 06	Oct. 06	May 07	Oct. 07	Apr. 08	Oct. 08	Apr. 09	Oct. 09	Apr. 10	Oct. 10	Apr. 11	Oct. 11	Apr. 12	Oct. 12	detect#	detect%	
INORGANICS (mg/l)																					(mg/l)
Antimony																			0	0%	0.001**
Arsenic																			5	14%	0.01
Barium							0.341	0.345	0.268	0.64	0.626	0.453	0.364	0.260	0.265	0.318	0.293	0.354	18	50%	0.7
Beryllium																			4	11%	0.004**
Cadmium														0.001					5	14%	0.002
Chromium																			12	33%	0.01
Cobalt																			31	86%	0.001**
Copper																			4	11%	1
Lead					0.010	0.015	0.014				0.015				0.013				31	86%	0.015
Nickel																			1	3%	0.1
Selenium																			0	0%	0.02
Silver																			0	0%	0.02
Vanadium																			7	19%	0.0003**
Zinc																			6	17%	1
t-Cyanide*	NA		NA		NA		NA		NA		NA		NA		NA		NA		0	0%	0.07
Mercury*	NA		NA		NA		NA		NA	0.00038	NA	0.00063	NA	0.00027	NA	0.0003	NA		13	72%	0.001
Tin*	NA		NA		NA		NA		NA		NA		NA		NA		NA		1	6%	2**
ORGANICS (ug/l)																					(ug/l)
Acetone																			0	0%	6000
Benzene																			13	34%	1
Carbon Disulfide																			0	0%	700
Carbon Tetrachloride																			0	0%	0.3
Chlorobenzene		5.3							3	3.9	4			8.2	10	8.9	11.4		9	24%	50
Chloroethane	28.5	22.6	13.6	21.9	24.9	16.1	10.5	12.4		11.1									26	68%	3000
Chloromethane																			1	3%	3
1,2-Dibromoethane																			0	0%	0.02
1,4-Dichlorobenzene										1.7	1.4	1.4	1.5	2.3	2.5	2.1	2.8		8	21%	6
cis-1,2-Dichloroethene							6			16	8.1	7.8	5.7	10.9	11.7	10	11.1	14.1	10	26%	70
1,1-Dichloroethane																			36	95%	6
1,2-Dichloroethane																			1	3%	0.4
1,1-Dichloroethene	5.9		5.4																20	53%	7
Methylene Chloride																			30	79%	5
Tetrachloroethylene																			12	32%	0.7
Toluene																			7	18%	600
1,1,1-Trichloroethane																			17	45%	200
Trichloroethylene																			26	68%	3
Trichlorofluoromethane								1.5	2.2	1	1.1		2.3						17	45%	2000
Vinyl Chloride																			12	32%	0.03
Xylenes		5.6					4.8			9.2									9	24%	500
Dichlorodifluoromethane*	NA	10.7	NA	12.6	NA	9.5	NA	7	NA	5.7	NA	5.2	NA		NA	9.5	NA		19	79%	1000
Diethyphthalate*	NA		NA		NA		NA		NA		NA		NA		NA		NA		1	4%	6000
bis(2-ethylhexyl)phthalate*	NA		NA		NA		NA		NA		NA		NA		NA		NA		2	8%	3
Tetrahydrofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	1			2	50%	NE

NCGS = 2L STD or
** 13B GWPS as of Oct 07

Groundwater Monitoring Well Data
Monitoring Well 8 (MW8)
Downgradient Well - Set 1
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT	MW8																						
SAMPLING DATES	Oct. 94	Nov.94	Jan. 95	Mar. 95	Sep. 95	Dec. 95	Feb. 96	Apr. 96	July 96	Oct. 96	Apr. 97	Oct. 97	Apr. 98	Oct. 98	Mar. 99	Oct. 99	Apr. 00	Oct. 00	Apr. 01	Oct. 01	Apr. 02	Oct. 02	Apr. 03	Oct. 03
INORGANICS (mg/l)																							
Antimony						NA	NA		NA														
Arsenic						NA	NA		NA		0.016												
Barium	0.043	0.05	0.025	0.032		NA	NA		NA			0.037					0.08						
Beryllium						NA	NA		NA		0.004					0.007							
Cadmium		0.002	0.001			NA	NA		NA		0.002												
Chromium		0.013				NA	NA		NA		0.011	0.009								0.022			
Cobalt						NA	NA		NA														
Copper	0.005	0.015	0.09	0.005		NA	NA		NA			0.007											
Lead		0.008			0.011	NA	NA		NA		0.013	0.008											
Nickel						NA	NA		NA													0.053	
Selenium						NA	NA		NA														
Silver						NA	NA		NA														
Vanadium		0.043				NA	NA		NA		0.016												
Zinc	0.02	0.035	0.019	0.009		NA	NA		NA		0.056	0.020		0.040						0.028			
t-Cyanide*	NA	NA	NA	NA		NA	NA		NA	0.021	NA		NA		NA		NA		NA		NA		NA	
Mercury*	NA	NA	NA	NA		NA	NA		NA		NA		NA	0.0002	NA		NA		NA		NA		NA	
Tin*	NA	NA	NA	NA		NA	NA		NA		NA		NA		NA		NA		NA		NA		NA	
ORGANICS (ug/l)																							
Acetone						NA			NA														
Benzene						NA			NA			2.1			1.6								
Carbon Disulfide						NA			NA														
Carbon Tetrachloride						NA			NA														
Chlorobenzene						NA			NA														
Chloroethane					16	NA	7.2		NA		31	22	12.2		14	21	41	16	19		28	15.3	12.7	13.2
Chloromethane						NA			NA							6.1	55			25				
1,2-Dibromoethane						NA			NA															
1,4-Dichlorobenzene						NA			NA															
cis-1,2-Dichloroethene						NA			NA															
1,1-Dichloroethane					8.4	NA	11	7.8	NA		45	47	16.2	55	37	48	52	45	185		58	76.8	77.6	66.2
1,2-Dichloroethane						NA			NA															
1,1-Dichloroethene						NA			NA											61				
Methylene Chloride						NA			NA		49	31	6.2	20	30			74	145	62	58	60.5	71.2	80
Tetrachloroethylene						NA			NA															
Toluene						NA			NA															
1,1,1-Trichloroethane						NA			NA															
Trichloroethylene						NA			NA			2.2			1.8	2.8			6.68	5.9				
Trichloroflouromethane						NA			NA															
Vinyl Chloride						NA			NA															
Xylenes						NA			NA										5					
Dichlorodifluoromethane*	NA	NA	NA	NA	7	6.8							NA		2.3	4.3	NA		NA		NA		NA	
Diethyphthalate*	NA	NA	NA	NA									NA				NA		NA		NA		NA	
bis(2-ethylhexyl)phthalate*	NA	NA	NA	NA									NA				NA		NA		NA		NA	
Tetrahydrofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		- indicates concentrations exceeding NCGS																						
	"NE"	- not established																						
	"NA"	- not applicable																						
	*	-denotes an Appendix II constituent not included in Appendix I																						

Groundwater Monitoring Well Data
Monitoring Well 8 (MW8)
Downgradient Well - Set 1
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT																			MW8 Detects		NCGS
SAMPLING DATES	Apr. 04	Oct. 04	Apr. 05	Oct. 05	Apr. 06	Oct. 06	May 07	Oct. 07	Apr. 08	Oct. 08	Apr. 09	Oct. 09	Apr. 10	Oct. 10	Apr. 11	Oct. 11	Apr. 12	Oct. 12	detect#	detect%	
INORGANICS (mg/l)																					(mg/l)
Antimony																			0	0%	0.001**
Arsenic																			1	3%	0.01
Barium									0.115	0.108	0.123		0.115		0.113				11	28%	0.7
Beryllium																			2	5%	0.004**
Cadmium																			3	8%	0.002
Chromium																			4	10%	0.01
Cobalt																			0	0%	0.001**
Copper																			5	13%	1
Lead																			4	10%	0.015
Nickel																			1	3%	0.1
Selenium																			0	0%	0.02
Silver																			0	0%	0.02
Vanadium																			3	8%	0.0003**
Zinc											0.019								8	21%	1
t-Cyanide*	NA		NA		NA		NA		NA		NA		NA		NA		NA		1	5%	0.07
Mercury*	NA		NA		NA		NA		NA	0.0002	NA	0.0003	NA	0.0005	NA	0.0005	NA	0.0006	6	32%	0.001
Tin*	NA		NA		NA		NA		NA		NA		NA		NA		NA		0	0%	2**
ORGANICS (ug/l)																					(ug/l)
Acetone																			0	0%	6000
Benzene								[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	13	33%	1
Carbon Disulfide																			0	0%	700
Carbon Tetrachloride																			0	0%	0.3
Chlorobenzene																			0	0%	50
Chloroethane																			14	35%	3000
Chloromethane																			3	8%	3
1,2-Dibromoethane																			0	0%	0.02
1,4-Dichlorobenzene								1.3	1.2	1.5	1.7	1.7	2	3.3	3.3	4.5	4.2	2.6	11	28%	6
cis-1,2-Dichloroethene							7	5.4	10.2	13.2	17.3	12.9	21.2	30.8	24.9	33.6		30.3	11	28%	70
1,1-Dichloroethane	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	33	83%	6
1,2-Dichloroethane																			0	0%	0.4
1,1-Dichloroethene																			1	3%	7
Methylene Chloride	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	30	75%	5
Tetrachloroethylene						[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	13	33%	0.7
Toluene																			0	0%	600
1,1,1-Trichloroethane																			0	0%	200
Trichloroethylene							[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	16	40%	3
Trichlorofluoromethane																			0	0%	2000
Vinyl Chloride									[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	9	23%	0.03
Xylenes																			1	3%	500
Dichlorodifluoromethane*	NA		NA		NA		NA		NA		NA		NA		NA		NA		4	17%	1000
Diethyphthalate*	NA		NA		NA		NA		NA		NA		NA		NA		NA		0	0%	6000
bis(2-ethylhexyl)phthalate*	NA		NA		NA		NA		NA		NA		NA		NA		NA	[illegible]	1	4%	3
Tetrahydrofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		1.4	1.8	2.6	3	75%	NE

NCGS = 2L STD or
** 13B GWPS as of Oct 07

Groundwater Monitoring Well Data
Monitoring Well 9 (MW9)
Downgradient Well - Set 1
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT	MW9																		
SAMPLING DATES	Apr. 01	Oct. 01	Apr. 02	Oct. 02	Apr. 03	Oct. 03	Apr. 04	Oct. 04	Apr. 05	Oct. 05	Apr. 06	Oct. 06	May 07	Oct. 07	Apr. 08	Oct. 08	Apr. 09	Oct. 09	Apr. 10
INORGANICS (mg/l)																			
Antimony																			
Arsenic																			
Barium													0.103	0.123	0.129	0.140	0.105	0.15	0.126
Beryllium																			
Cadmium																			
Chromium																			
Cobalt																			
Copper														0.013				0.015	
Lead				0.014															0.014
Nickel																			
Selenium																			
Silver																			
Vanadium																			
Zinc																			
t-Cyanide*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		NA
Mercury*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	0.00075	NA
Tin*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		NA
ORGANICS (ug/l)																			
Acetone																			
Benzene																			
Carbon Disulfide																			
Carbon Tetrachloride																			
Chlorobenzene			18	23.6	19.8	18	16.2	10.3	10.1	12.1	18.2	11.7	11.1	11.8	8.1	9.6	11.2	11.7	10.1
Chloroethane	65	51	39	35.7	27.4	36	21.4	16.5	15.7	22.4	23.5	20.3	13	12.4	11.6	12.3			
Chloromethane																			
1,2-Dibromoethane																			
1,4-Dichlorobenzene														2.5		2.1	1.6	2	1.4
cis-1,2-Dichloroethene				6							6.5	7.9	5.7	8	25	13.1	10.7	11.7	14.2
1,1-Dichloroethane																			
1,2-Dichloroethane																			
1,1-Dichloroethene																			
Methylene Chloride																			
Tetrachloroethylene																			
Toluene																			
1,1,1-Trichloroethane																			
Trichloroethylene																	2.9	2.4	2.40
Trichloroflouromethane																			
Vinyl Chloride																			
Xylenes	26	39	25	24.5	19.6	15.6	7.3				7.1	5.6							
Dichlorodifluoromethane*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		5.1		NA		NA
Diethyphthalate*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		NA
bis(2-ethylhexyl)phthalate*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		NA
		- indicates concentrations exceeding NCGS																	
	"NE"	- not established																	
	"NA"	- not applicable																	
	*	-denotes an Appendix II constituent not included in Appendix I																	

Groundwater Monitoring Well Data
Monitoring Well 9 (MW9)
Downgradient Well - Set 1
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT						MW9 Detects		NCGS
SAMPLING DATES	Oct. 10	Apr. 11	Oct. 11	Apr. 12	Oct. 12	detect#	detect%	
INORGANICS (mg/l)								(mg/l)
Antimony	NA	NA	NA	NA		0	0%	0.001**
Arsenic	NA	NA	NA	NA		0	0%	0.01
Barium	NA	NA	NA	NA	NA	7	37%	0.7
Beryllium	NA	NA	NA	NA	NA	0	0%	0.004**
Cadmium	NA	NA	NA	NA	NA	0	0%	0.002
Chromium	NA	NA	NA	NA	NA	4	21%	0.01
Cobalt	NA	NA	NA	NA	NA	0	0%	0.001**
Copper	NA	NA	NA	NA	NA	2	11%	1
Lead	NA	NA	NA	NA	NA	2	11%	0.015
Nickel	NA	NA	NA	NA	NA	0	0%	0.1
Selenium	NA	NA	NA	NA	NA	0	0%	0.02
Silver	NA	NA	NA	NA	NA	0	0%	0.02
Vanadium	NA	NA	NA	NA	NA	3	16%	0.0003**
Zinc	NA	NA	NA	NA	NA	0	0%	1
t-Cyanide*	NA	NA	NA	NA	NA	0	NA	0.07
Mercury*	NA	NA	NA	NA	NA	3	NA	0.001
Tin*	NA	NA	NA	NA	NA	0	NA	2**
ORGANICS (ug/l)								(ug/l)
Acetone						0	0%	6000
Benzene	NA	NA	NA	NA	NA	15	79%	1
Carbon Disulfide	NA	NA	NA	NA	NA	0	0%	700
Carbon Tetrachloride	NA	NA	NA	NA	NA	0	0%	0.3
Chlorobenzene	NA	NA	NA	NA	NA	17	89%	50
Chloroethane	NA	NA	NA	NA	NA	16	84%	3000
Chloromethane	NA	NA	NA	NA	NA	1	5%	3
1,2-Dibromoethane	NA	NA	NA	NA	NA	1	5%	0.02
1,4-Dichlorobenzene	NA	NA	NA	NA	NA	6	32%	6
cis-1,2-Dichloroethene	NA	NA	NA	NA	NA	10	53%	70
1,1-Dichloroethane	NA	NA	NA	NA	NA	16	84%	6
1,2-Dichloroethane	NA	NA	NA	NA	NA	1	5%	0.4
1,1-Dichloroethene	NA	NA	NA	NA	NA	0	0%	7
Methylene Chloride	NA	NA	NA	NA	NA	17	89%	5
Tetrachloroethylene	NA	NA	NA	NA	NA	9	47%	0.7
Toluene	NA	NA	NA	NA	NA	0	0%	600
1,1,1-Trichloroethane	NA	NA	NA	NA	NA	0	0%	200
Trichloroethylene	NA	NA	NA	NA	NA	18	95%	3
Trichloroflouromethane	NA	NA	NA	NA	NA	0	0%	2000
Vinyl Chloride	NA	NA	NA	NA	NA	7	37%	0.03
Xylenes	NA	NA	NA	NA	NA	10	53%	500
Dichlorodifluoromethane*	NA	NA	NA	NA	NA	0	NA	1000
Diethyphthalate*	NA	NA	NA	NA	NA	0	NA	6000
bis(2-ethylhexyl)phthalate*	NA	NA	NA	NA	NA	0	NA	3

NCGS = 2L STD or
** 13B GWPS as of Oct 07

Groundwater Monitoring Well Data
Monitoring Well 10 (MW10)
Downgradient Well - Set 1
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT	MW10																		
SAMPLING DATES	Apr. 01	Oct. 01	Apr. 02	Oct. 02	Apr. 03	Oct. 03	Apr. 04	Oct. 04	Apr. 05	Oct. 05	Apr. 06	Oct. 06	May 07	Oct. 07	Apr. 08	Oct. 08	Apr. 09	Oct. 09	Apr. 10
INORGANICS (mg/l)																			
Antimony																			
Arsenic																	0.016		
Barium																			
Beryllium																			
Cadmium																			
Chromium	[redacted]		[redacted]	[redacted]						[redacted]									
Cobalt																			
Copper																			
Lead				0.012										0.018	0.021		0.015	0.01	
Nickel																			
Selenium																			
Silver																			
Vanadium				[redacted]															
Zinc	0.052												0.019		0.013		0.01		
t-Cyanide*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		NA
Mercury*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	0.00029	NA
Tin*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		NA
ORGANICS (ug/l)																			
Acetone					156				130	419	234						2340		
Benzene	[redacted]	[redacted]	[redacted]										[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
Carbon Disulfide																			
Carbon Tetrachloride																			
Chlorobenzene	25	33	21	9.2		6.8	5.7	6.7					3.4				3.6	3.3	3.3
Chloroethane	72	47	51	16.7	11.6	18.8	19.1	19.8	12.2										
Chloromethane																			
1,2-Dibromoethane																			
1,4-Dichlorobenzene																			
cis-1,2-Dichloroethene	17	17	20	6.9		6.8	11.7	12.6	10.7	6.5	15.8	7.9	16.9	6.9	9	13	27.4	22.1	31.2
1,1-Dichloroethane		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	5.8	6	[redacted]
1,2-Dichloroethane																			
1,1-Dichloroethene																			
Methylene Chloride	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		[redacted]		[redacted]		4.9		[redacted]	[redacted]	[redacted]
Tetrachloroethylene	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]													[redacted]
Toluene																13.1	6	6.2	
1,1,1-Trichloroethane																			
Trichloroethylene	[redacted]	[redacted]	[redacted]			[redacted]									1.3		1.1		1.6
Trichloroflouromethane																			
Vinyl Chloride	[redacted]													[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
Xylenes	35	39	30	7.4	5	6.4		12.3	5.5		5.3								
Dichlorodifluoromethane*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		NA
Diethyphthalate*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		NA
bis(2-ethylhexyl)phthalate*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		NA
	[redacted]	- indicates concentrations exceeding NCGS																	
	"NE"	- not established																	
	"NA"	- not applicable																	
	*	-denotes an Appendix II constituent not included in Appendix I																	

Groundwater Monitoring Well Data
Monitoring Well 10 (MW10)
Downgradient Well - Set 1
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT						MW10 Detects		NCGS
SAMPLING DATES	Oct. 10	Apr. 11	Oct. 11	Apr. 12	Oct. 12	detect#	detect%	
INORGANICS (mg/l)								(mg/l)
Antimony			NA			0	0%	0.001**
Arsenic			NA			1	4%	0.01
Barium	0.117		NA			1	4%	0.7
Beryllium			NA			0	0%	0.004**
Cadmium			NA			0	0%	0.002
Chromium			NA			4	17%	0.01
Cobalt			NA			0	0%	0.001**
Copper	0.015		NA	0.01	0.015	7	30%	1
Lead			NA			1	4%	0.015
Nickel			NA			0	0%	0.1
Selenium			NA			0	0%	0.02
Silver			NA			0	0%	0.02
Vanadium			NA			1	4%	0.0003**
Zinc			NA		0.017	5	22%	1
t-Cyanide*		NA	NA	NA		0	NA	0.07
Mercury*	0.00031	NA	NA	NA	0.00029	3	NA	0.001
Tin*		NA	NA	NA		0	NA	2**
ORGANICS (ug/l)								(ug/l)
Acetone			NA			5	22%	6000
Benzene	[illegible]		NA		1	12	52%	1
Carbon Disulfide			NA			0	0%	700
Carbon Tetrachloride			NA			0	0%	0.3
Chlorobenzene			NA			11	48%	50
Chloroethane			NA			9	39%	3000
Chloromethane			NA			0	0%	3
1,2-Dibromoethane			NA			0	0%	0.02
1,4-Dichlorobenzene	2.2		NA			7	30%	6
cis-1,2-Dichloroethene	7.1		NA			19	83%	70
1,1-Dichloroethane			NA		5.4	19	83%	6
1,2-Dichloroethane			NA			0	0%	0.4
1,1-Dichloroethene			NA			0	0%	7
Methylene Chloride			NA			15	65%	5
Tetrachloroethylene			NA			7	30%	0.7
Toluene			NA			3	13%	600
1,1,1-Trichloroethane			NA			0	0%	200
Trichloroethylene			NA			7	30%	3
Trichloroflouromethane			NA			0	0%	2000
Vinyl Chloride	[illegible]		NA		[illegible]	9	39%	0.03
Xylenes			NA			9	39%	500
Dichlorodifluoromethane*		NA	NA	NA		0	NA	1000
Diethyphthalate*		NA	NA	NA		0	NA	6000
bis(2-ethylhexyl)phthalate*		NA	NA	NA	[illegible]	1	NA	3
								NCGS =
								2L STD or
								** 13B GWPS as of Oct 07

Groundwater Monitoring Well Data
Monitoring Well 11 (MW11)
Downgradient Well - Set 1 (Subset 1N)
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT	MW11												MW11 Detects		NCGS
SAMPLING DATES	May 07	Oct. 07	Apr. 08	Oct. 08	Apr. 09	Oct. 09	Apr. 10	Oct. 10	Apr. 11	Oct. 11	Apr. 12	Oct. 12	detect#	detect%	
INORGANICS (mg/l)															(mg/l)
Antimony													0	0%	0.001**
Arsenic													0	0%	0.01
Barium													0	0%	0.7
Beryllium													0	0%	0.004**
Cadmium										0.001			1	8%	0.002
Chromium													0	0%	0.01
Cobalt													0	0%	0.001**
Copper													0	0%	1
Lead													0	0%	0.015
Nickel													0	0%	0.1
Selenium													0	0%	0.02
Silver													0	0%	0.02
Vanadium													0	0%	0.0003**
Zinc		0.013											1	8%	1
t-Cyanide*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	NA	0.07
Mercury*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	NA	0.001
Tin*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	NA	2**
ORGANICS (ug/l)															(ug/l)
Acetone													0	0%	6000
Benzene													0	0%	1
Carbon Disulfide													0	0%	700
Carbon Tetrachloride													0	0%	0.3
Chlorobenzene													0	0%	50
Chloroethane													0	0%	3000
Chloromethane													0	0%	3
1,2-Dibromoethane													0	0%	0.02
1,4-Dichlorobenzene													0	0%	6
cis-1,2-Dichloroethene													0	0%	70
1,1-Dichloroethane													0	0%	6
1,2-Dichloroethane													0	0%	0.4
1,1-Dichloroethene													0	0%	7
Methylene Chloride													0	0%	5
Tetrachloroethylene													0	0%	0.7
Toluene													0	0%	600
1,1,1-Trichloroethane													0	0%	200
Trichloroethylene													0	0%	3
Trichloroflouromethane													0	0%	2000
Vinyl Chloride													0	0%	0.03
Xylenes													0	0%	500
Dichlorodifluoromethane*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	NA	1000
Diethyphthalate*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	NA	6000
bis(2-ethylhexyl)phthalate*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	NA	3
		- indicates concentrations exceeding NCGS													
	"NE"	- not established													NCGS =
	"NA"	- not applicable													2L STD or
	*	-denotes an Appendix II constituent not included in Appendix I													** 13B GWPS as of Oct 07

Groundwater Monitoring Well Data
Monitoring Well 12 (MW12)
Downgradient Well - Set 1 (Subset 1N)
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT	MW12												MW12 Detects		NCGS
SAMPLING DATES	May 07	Oct. 07	Apr. 08	Oct. 08	Apr. 09	Oct. 09	Apr. 10	Oct. 10	Apr. 11	Oct. 11	Apr. 12	Oct. 12	detect#	detect%	
INORGANICS (mg/l)															(mg/l)
Antimony													0	0%	0.001**
Arsenic													0	0%	0.01
Barium													0	0%	0.7
Beryllium	0.001	0.0019	0.0015	0.002	0.0035	0.0022	0.0012	0.001	0.001	0.003	0.002		11	92%	0.004**
Cadmium													0	0%	0.002
Chromium													0	0%	0.01
Cobalt													0	0%	0.001**
Copper													0	0%	1
Lead													0	0%	0.015
Nickel													0	0%	0.1
Selenium													0	0%	0.02
Silver													0	0%	0.02
Vanadium													0	0%	0.0003**
Zinc	0.013	0.017		0.012	0.015					0.013			5	42%	1
t-Cyanide*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	NA	0.07
Mercury*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	NA	0.001
Tin*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	NA	2**
ORGANICS (ug/l)															(ug/l)
Acetone													0	0%	700
Benzene													0	0%	1
Carbon Disulfide													0	0%	6000
Carbon Tetrachloride													0	0%	0.3
Chlorobenzene													0	0%	50
Chloroethane													0	0%	3000
Chloromethane													0	0%	3
1,2-Dibromoethane													0	0%	0.02
1,4-Dichlorobenzene													0	0%	6
cis-1,2-Dichloroethene													0	0%	70
1,1-Dichloroethane													0	0%	6
1,2-Dichloroethane													0	0%	0.4
1,1-Dichloroethene													0	0%	7
Methylene Chloride													0	0%	5
Tetrachloroethylene													0	0%	0.7
Toluene													0	0%	600
1,1,1-Trichloroethane													0	0%	200
Trichloroethylene													0	0%	3
Trichloroflouromethane													0	0%	2000
Vinyl Chloride													0	0%	0.03
Xylenes													0	0%	500
Dichlorodifluoromethane*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	NA	1000
Diethyphthalate*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	NA	6000
bis(2-ethylhexyl)phthalate*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	NA	3

		- indicates concentrations exceeding NCGS
	"NE"	- not established
	"NA"	- not applicable
	*	-denotes an Appendix II constituent not included in Appendix I

NCGS = 2L STD or ** 13B GWPS as of Oct 07

Groundwater Monitoring Well Data
Monitoring Well 13 (MW13)
Downgradient Well - Set 1 (Subset 1N)
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT	MW13												MW13 Detects		NCGS
SAMPLING DATES	May 07	Oct. 07	Apr. 08	Oct. 08	Apr. 09	Oct. 09	Apr. 10	Oct. 10	Apr. 11	Oct. 11	Apr. 12	Oct. 12	detect#	detect%	
INORGANICS (mg/l)															(mg/l)
Antimony													0	0%	0.001**
Arsenic													0	0%	0.01
Barium									0.102				1	8%	0.7
Beryllium													0	0%	0.004**
Cadmium													0	0%	0.002
Chromium													0	0%	0.01
Cobalt													0	0%	0.001**
Copper													0	0%	1
Lead													0	0%	0.015
Nickel													0	0%	0.1
Selenium													0	0%	0.02
Silver													0	0%	0.02
Vanadium													0	0%	0.0003**
Zinc	0.012												1	8%	1
t-Cyanide*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	NA	0.07
Mercury*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	NA	0.001
Tin*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	NA	2**
ORGANICS (ug/l)															(ug/l)
Acetone													0	0%	6000
Benzene													0	0%	1
Carbon Disulfide													0	0%	700
Carbon Tetrachloride													0	0%	0.3
Chlorobenzene													0	0%	50
Chloroethane													0	0%	3000
Chloromethane													0	0%	3
1,2-Dibromoethane													0	0%	0.02
1,4-Dichlorobenzene													0	0%	6
cis-1,2-Dichloroethene													0	0%	70
1,1-Dichloroethane													0	0%	6
1,2-Dichloroethane													0	0%	0.4
1,1-Dichloroethene													0	0%	7
Methylene Chloride													0	0%	5
Tetrachloroethylene													0	0%	0.7
Toluene													0	0%	600
1,1,1-Trichloroethane													0	0%	200
Trichloroethylene													0	0%	3
Trichloroflouromethane													0	0%	2000
Vinyl Chloride													0	0%	0.03
Xylenes													0	0%	500
Dichlorodifluoromethane*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	NA	1000
Diethyphthalate*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	NA	6000
bis(2-ethylhexyl)phthalate*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	NA	3

		- indicates concentrations exceeding NCGS
	"NE"	- not established
	"NA"	- not applicable
	*	-denotes an Appendix II constituent not included in Appendix I

NCGS = 2L STD or
** 13B GWPS as of Oct 07

Groundwater Monitoring Well Data
Monitoring Well 14 (MW14)
Downgradient Well - Set 1 (Subset 1N)
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT	MW14												MW14 Detects		NCGS
SAMPLING DATES	May 07	Oct. 07	Apr. 08	Oct. 08	Apr. 09	Oct. 09	Apr. 10	Oct. 10	Apr. 11	Oct. 11	Apr. 12	Oct. 12	detect#	detect%	
INORGANICS (mg/l)															(mg/l)
Antimony													0	0%	0.001**
Arsenic													0	0%	0.01
Barium													0	0%	0.7
Beryllium					0.001					[illegible]	0.003		3	25%	0.004**
Cadmium													0	0%	0.002
Chromium													0	0%	0.01
Cobalt													0	0%	0.001**
Copper													0	0%	1
Lead													0	0%	0.015
Nickel													0	0%	0.1
Selenium													0	0%	0.02
Silver													0	0%	0.02
Vanadium													0	0%	0.0003**
Zinc	0.012	0.018		0.012			0.011			0.017	0.013		6	50%	1
t-Cyanide*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	NA	0.07
Mercury*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	NA	0.001
Tin*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	NA	2**
ORGANICS (ug/l)															(ug/l)
Acetone													0	0%	6000
Benzene													0	0%	1
Carbon Disulfide													0	0%	700
Carbon Tetrachloride													0	0%	0.3
Chlorobenzene													0	0%	50
Chloroethane													0	0%	3000
Chloromethane						1							1	8%	3
1,2-Dibromoethane													0	0%	0.02
1,4-Dichlorobenzene													0	0%	6
cis-1,2-Dichloroethene													0	0%	70
1,1-Dichloroethane													0	0%	6
1,2-Dichloroethane													0	0%	0.4
1,1-Dichloroethene													0	0%	7
Methylene Chloride													0	0%	5
Tetrachloroethylene													0	0%	0.7
Toluene													0	0%	600
1,1,1-Trichloroethane													0	0%	200
Trichloroethylene													0	0%	3
Trichloroflouromethane													0	0%	2000
Vinyl Chloride													0	0%	0.03
Xylenes													0	0%	500
Dichlorodifluoromethane*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	NA	1000
Diethyphthalate*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	NA	6000
bis(2-ethylhexyl)phthalate*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	NA	3

	- indicates concentrations exceeding NCGS
"NE"	- not established
"NA"	- not applicable
*	-denotes an Appendix II constituent not included in Appendix I

NCGS = 2L STD or ** 13B GWPS as of Oct 07

Groundwater Monitoring Well Data
Monitoring Well 15 (MW15)
Downgradient Well - Set 1
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT	MW15												MW15 Detects		NCGS
SAMPLING DATES	May 07	Oct. 07	Apr. 08	Oct. 08	Apr. 09	Oct. 09	Apr. 10	Oct. 10	Apr. 11	Oct. 11	Apr. 12	Oct. 12	detect#	detect%	
INORGANICS (mg/l)															
Antimony		NA								NA		NA	0	0%	(mg/l) 0.001**
Arsenic		NA								NA		NA	0	0%	0.01
Barium		NA						0.116		NA		NA	1	11%	0.7
Beryllium		NA						0.001		NA		NA	1	11%	0.004**
Cadmium		NA								NA	0.001	NA	1	11%	0.002
Chromium		NA								NA		NA	0	0%	0.01
Cobalt		NA								NA		NA	0	0%	0.001**
Copper		NA								NA		NA	0	0%	1
Lead		NA								NA		NA	0	0%	0.015
Nickel		NA								NA		NA	0	0%	0.1
Selenium		NA								NA		NA	0	0%	0.02
Silver		NA								NA		NA	0	0%	0.02
Vanadium		NA								NA		NA	0	0%	0.0003**
Zinc		NA								NA		NA	0	0%	1
t-Cyanide*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	NA	0.07
Mercury*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	NA	0.001
Tin*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	NA	2**
ORGANICS (ug/l)															
Acetone		NA						144		NA		NA	1	11%	(ug/l) 6000
Benzene		NA								NA		NA	0	0%	1
Carbon Disulfide		NA								NA		NA	0	0%	700
Carbon Tetrachloride		NA								NA		NA	0	0%	0.3
Chlorobenzene		NA								NA		NA	0	0%	50
Chloroethane		NA								NA		NA	0	0%	3000
Chloromethane		NA								NA		NA	0	0%	3
1,2-Dibromoethane		NA								NA		NA	0	0%	0.02
1,4-Dichlorobenzene		NA								NA		NA	0	0%	6
cis-1,2-Dichloroethene		NA								NA		NA	0	0%	70
1,1-Dichloroethane		NA								NA		NA	0	0%	6
1,2-Dichloroethane		NA								NA		NA	0	0%	0.4
1,1-Dichloroethene		NA								NA		NA	0	0%	7
Methylene Chloride		NA								NA		NA	0	0%	5
Tetrachloroethylene		NA								NA		NA	0	0%	0.7
Toluene		NA	4.5	149	11.6	2.6		28.6		NA	10.8	NA	6	67%	600
1,1,1-Trichloroethane		NA								NA		NA	0	0%	200
Trichloroethylene		NA								NA		NA	0	0%	3
Trichloroflouromethane		NA								NA		NA	0	0%	2000
Vinyl Chloride		NA								NA		NA	0	0%	0.03
Xylenes		NA								NA		NA	0	0%	500
Dichlorodifluoromethane*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	NA	1000
Diethyphthalate*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	NA	6000
bis(2-ethylhexyl)phthalate*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	NA	3

- indicates concentrations exceeding NCGS
"NE" - not established
"NA" - not applicable
* -denotes an Appendix II constituent not included in Appendix I

NCGS = 2L STD or ** 13B GWPS as of Oct 07

Groundwater Monitoring Well Data
Monitoring Well 23B (MW23B)
Downgradient Well - Set 1
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT	MW23B																							
SAMPLING DATES	Oct. 94	Nov.94	Jan. 95	Mar. 95	Sep. 95	Dec. 95	Feb. 96	Mar. 96	July 96	Oct. 96	Apr. 97	Oct. 97	Apr. 98	Oct. 98	Mar. 99	Oct. 99	Apr. 00	Oct. 00	Apr. 01	Oct. 01	Apr. 02	Oct. 02	Apr. 03	Oct. 03
INORGANICS (mg/l)																								
Antimony						NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	NA	NA	NA	NA	NA
Arsenic						NA			NA	NA		[redacted]			0.006	[redacted]								
Barium	0.071	0.17	0.109	0.228		NA	0.076		NA	NA			0.029	0.077	0.26	1.64	0.084							
Beryllium		0.002		0.02	0.019	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	NA	NA	NA	NA	NA
Cadmium	0.0008	0.001				NA			NA	NA														
Chromium	0.009	[redacted]		[redacted]	0.01	NA	[redacted]		NA	NA					[redacted]	[redacted]								
Cobalt						NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	NA	NA	NA	NA	NA
Copper	0.015	0.034	0.02	0.037		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	NA	NA	NA	NA	NA
Lead	0.005	0.015	0.006	[redacted]	[redacted]	NA	[redacted]		NA	NA		0.005	0.002	0.009	[redacted]	[redacted]								
Nickel						NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	NA	NA	NA	NA	NA
Selenium			[redacted]			NA			NA	NA						0.002								
Silver						NA			NA	NA														
Vanadium	0.013	0.05	0.006	0.04		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	NA	NA	NA	NA	NA
Zinc	0.043	0.035	0.021	0.047	0.06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	NA	NA	NA	NA	NA
t-Cyanide*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA
Mercury*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					[redacted]	0.0003								
Tin*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA
ORGANICS (ug/l)																								
Acetone						NA			NA	NA	NA													
Benzene						NA			NA	NA	NA													
Carbon Disulfide						NA			NA	NA	NA													
Carbon Tetrachloride						NA			NA	NA	NA													
Chlorobenzene						NA			NA	NA	NA													
Chloroethane						NA			NA	NA	NA													
Chloromethane						NA			NA	NA	NA													
1,2-Dibromoethane						NA			NA	NA	NA													
1,4-Dichlorobenzene						NA			NA	NA	NA													
cis-1,2-Dichloroethene						NA			NA	NA	NA													
1,1-Dichloroethane						NA			NA	NA	NA													
1,2-Dichloroethane						NA			NA	NA	NA													
1,1-Dichloroethene						NA			NA	NA	NA													
Methylene Chloride						NA			NA	NA	NA													
Tetrachloroethylene						NA			NA	NA	NA													
Toluene						NA			NA	NA	NA													
1,1,1-Trichloroethane						NA			NA	NA	NA													
Trichloroethylene						NA			NA	NA	NA													
Trichlorofluoromethane						NA			NA	NA	NA													
Vinyl Chloride						NA			NA	NA	NA													
Xylenes						NA			NA	NA	NA													
Dichlorodifluoromethane*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyphthalate*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	MW23B, a Set 2 well, is statistically compared with Set 1 since it is downgradient of Set 1 wells.																							
	[redacted]	- indicates concentrations exceeding NCGS																						
	"NE"	- not established																						
	"NA"	- not applicable																						
	*	-denotes an Appendix II constituent not included in Appendix I																						

Groundwater Monitoring Well Data
Monitoring Well 23B (MW23B)
Downgradient Well - Set 1
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT																			MW23B Detects		NCGS
SAMPLING DATES	Apr. 04	Oct. 04	Apr. 04	Oct. 05	Apr. 06	Oct. 06	May 07	Oct. 07	Apr. 08	Oct. 08	Apr. 09	Oct. 09	Apr. 10	Oct. 10	Apr. 11	Oct. 11	Apr. 12	Oct. 12	detect#	detect%	
INORGANICS (mg/l)																					(mg/l)
Antimony	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0%	0.001**
Arsenic																			3	8%	0.01
Barium									0.101	0.101									12	31%	0.7
Beryllium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3	43%	0.004**
Cadmium																			2	5%	0.002
Chromium																			7	18%	0.01
Cobalt	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0%	0.001**
Copper	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4	57%	1
Lead																			11	28%	0.015
Nickel	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0%	0.1
Selenium																			1	3%	0.02
Silver																			1	3%	0.02
Vanadium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4	57%	0.0003**
Zinc	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5	71%	1
t-Cyanide*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0%	0.07
Mercury*																			2	6%	0.001
Tin*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0%	2**
ORGANICS (ug/l)																					(ug/l)
Acetone																			0	0%	6000
Benzene																			0	0%	1
Carbon Disulfide																			0	0%	700
Carbon Tetrachloride																			0	0%	0.3
Chlorobenzene																			0	0%	50
Chloroethane																			0	0%	3000
Chloromethane																			0	0%	3
1,2-Dibromoethane																			0	0%	0.02
1,4-Dichlorobenzene																			0	0%	6
cis-1,2-Dichloroethene																			0	0%	70
1,1-Dichloroethane																			0	0%	6
1,2-Dichloroethane																			0	0%	0.4
1,1-Dichloroethene																			0	0%	7
Methylene Chloride																			0	0%	5
Tetrachloroethylene																			0	0%	0.7
Toluene																			0	0%	600
1,1,1-Trichloroethane																			0	0%	200
Trichloroethylene																			0	0%	3
Trichloroflouromethane																			0	0%	2000
Vinyl Chloride																			0	0%	0.03
Xylenes																			0	0%	500
Dichlorodifluoromethane*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	NA	1000
Diethyphthalate*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	NA	6000
bis(2-ethylhexyl)phthalate*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	NA	3

NCGS = 2L STD or
** 13B GWPS as of Oct 07

Groundwater Monitoring Well Data
Monitoring Well 53 (MW53)
Corrective Action Well
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT	MW53					MW53 Detects		NCGS
SAMPLING DATES	Oct. 10	Apr. 11	Oct. 11	Apr. 12	Oct. 12	detect#	detect%	
INORGANICS (mg/l)								(mg/l)
Antimony						0	0%	0.001**
Arsenic						0	0%	0.01
Barium		0.109				1	20%	0.7
Beryllium						0	0%	0.004**
Cadmium						0	0%	0.002
Chromium						0	0%	0.01
Cobalt						0	0%	0.001**
Copper	0.015					1	20%	1
Lead						0	0%	0.015
Nickel						0	0%	0.1
Selenium						0	0%	0.02
Silver						0	0%	0.02
Vanadium						0	0%	0.0003**
Zinc						0	0%	1
t-Cyanide*	NA	NA	NA	NA	NA	0	NA	0.07
Mercury*	NA	NA	NA	NA	NA	0	NA	0.001
Tin*	NA	NA	NA	NA	NA	0	NA	2**
ORGANICS (ug/l)								(ug/l)
Acetone						0	0%	700
Benzene		[illegible]	[illegible]	[illegible]	[illegible]	4	80%	1
Carbon Disulfide						0	0%	700
Carbon Tetrachloride						0	0%	0.3
Chlorobenzene						0	0%	50
Chloroethane						0	0%	3000
Chloromethane						0	0%	3
1,2-Dibromoethane						0	0%	0.02
1,4-Dichlorobenzene	1.3	3.1	2.9	4.4	3	5	100%	6
cis-1,2-Dichloroethene		11	6.5	7	5.1	4	80%	70
1,1-Dichloroethane	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	5	100%	6
1,2-Dichloroethane						0	0%	0.4
1,1-Dichloroethene						0	0%	7
Methylene Chloride	[illegible]	[illegible]	1.5	[illegible]	2.6	5	100%	5
Tetrachloroethylene	[illegible]	[illegible]			[illegible]	3	60%	0.7
Toluene						0	0%	600
1,1,1-Trichloroethane						0	0%	200
Trichloroethylene	1.5	1.5	1.1		1	4	80%	3
Trichloroflouromethane						0	0%	2000
Vinyl Chloride	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	5	100%	0.03
Xylenes						0	0%	500
Dichlorodifluoromethane*	NA	NA	NA	NA	NA	0	NA	1000
Diethyphthalate*	NA	NA	NA	NA	NA	0	NA	6000
bis(2-ethylhexyl)phthalate*	NA	NA	NA	NA	NA	0	NA	3
Tetrahydrofuran	NA			3.2	2	2	NA	NE
	[illegible]	- indicates concentrations exceeding NCGS						
	"NE"	- not established						NCGS =
	"NA"	- not applicable						2L STD or

Groundwater Monitoring Well Data
Monitoring Well 53 (MW53)
Corrective Action Well
Dunn-Erwin Landfill
Harnett County, North Carolina

	*	-denotes an Appendix II constituent not included in Appendix I									** 13B GWPS as of Oct 07

Groundwater Monitoring Well Data
Monitoring Well 56 (MW56)
Corrective Action Well
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT	MW56					MW56 Detects		NCGS
SAMPLING DATES	Oct. 10	Apr. 11	Oct. 11	Apr. 12	Oct. 12	detect#	detect%	
INORGANICS (mg/l)								(mg/l)
Antimony						0	0%	0.001**
Arsenic						0	0%	0.01
Barium						0	0%	0.7
Beryllium						0	0%	0.004**
Cadmium						0	0%	0.002
Chromium						0	0%	0.01
Cobalt						0	0%	0.001**
Copper						0	0%	1
Lead			0.012			1	20%	0.015
Nickel						0	0%	0.1
Selenium						0	0%	0.02
Silver						0	0%	0.02
Vanadium						0	0%	0.0003**
Zinc	0.016	0.017	0.015			3	60%	1
t-Cyanide*	NA	NA	NA	NA	NA	0	NA	0.07
Mercury*	NA	NA	NA	NA	NA	0	NA	0.001
Tin*	NA	NA	NA	NA	NA	0	NA	2**
ORGANICS (ug/l)								(ug/l)
Acetone						0	0%	700
Benzene						0	0%	1
Carbon Disulfide						0	0%	700
Carbon Tetrachloride						0	0%	0.3
Chlorobenzene						0	0%	50
Chloroethane						0	0%	3000
Chloromethane						0	0%	3
1,2-Dibromoethane						0	0%	0.02
1,4-Dichlorobenzene						0	0%	6
cis-1,2-Dichloroethene						0	0%	70
1,1-Dichloroethane						0	0%	6
1,2-Dichloroethane						0	0%	0.4
1,1-Dichloroethene						0	0%	7
Methylene Chloride						0	0%	5
Tetrachloroethylene						0	0%	0.7
Toluene						0	0%	600
1,1,1-Trichloroethane						0	0%	200
Trichloroethylene						0	0%	3
Trichloroflouromethane						0	0%	2000
Vinyl Chloride						0	0%	0.03
Xylenes						0	0%	500
Dichlorodifluoromethane*	NA	NA	NA	NA	NA	0	NA	1000
Diethyphthalate*	NA	NA	NA	NA	NA	0	NA	6000
bis(2-ethylhexyl)phthalate*	NA	NA	NA	NA	NA	0	NA	3
		- indicates concentrations exceeding NCGS						
	"NE"	- not established						NCGS =
	"NA"	- not applicable						2L STD or
	*	-denotes an Appendix II constituent not included in Appendix I						** 13B GWPS as of Oct 07

Groundwater Monitoring Well Data
Monitoring Well 57 (MW57)
Corrective Action Well
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT	MW57																											MW57 Detects		NCGS
SAMPLING DATES	Oct. 10	Apr. 11	Oct. 11	Apr. 12	Oct. 12																							detect#	detect%	
INORGANICS (mg/l)																														
Antimony																														(mg/l)
Arsenic																												0	0%	0.001**
Barium	0.105	0.103	0.121		0.108																							0	0%	0.01
Beryllium			0.002																									4	80%	0.7
Cadmium																												1	20%	0.004**
Chromium			[redacted]																									0	0%	0.002
Cobalt																												1	20%	0.01
Copper					0.014																							0	0%	0.001**
Lead			[redacted]																									1	20%	1
Nickel																												1	20%	0.015
Selenium																												0	0%	0.1
Silver																												0	0%	0.02
Vanadium			[redacted]																									0	0%	0.02
Zinc			0.012																									1	20%	0.0003**
t-Cyanide*	NA	NA	NA	NA	NA																							1	20%	1
Mercury*	NA	NA	NA	NA	NA																							0	NA	0.07
Tin*	NA	NA	NA	NA	NA																							0	NA	0.001
																												0	NA	2**
ORGANICS (ug/l)																														
Acetone																														(ug/l)
Benzene	[redacted]			[redacted]		[redacted]																						0	0%	700
Carbon Disulfide																												3	60%	1
Carbon Tetrachloride																												0	0%	700
Chlorobenzene																												0	0%	0.3
Chloroethane																												0	0%	50
Chloromethane																												0	0%	3000
1,2-Dibromoethane																												0	0%	3
1,4-Dichlorobenzene		1		1		1.3																						0	0%	0.02
cis-1,2-Dichloroethene	9.3	8.3		6.3		5.8																						3	60%	6
1,1-Dichloroethane																												4	80%	70
1,2-Dichloroethane																												0	0%	6
1,1-Dichloroethene																												0	0%	0.4
Methylene Chloride			1.6																									0	0%	7
Tetrachloroethylene																												1	20%	5
Toluene																												0	0%	0.7
1,1,1-Trichloroethane																												0	0%	600
Trichloroethylene	1.1	1																										0	0%	200
Trichloroflouromethane																												2	40%	3
Vinyl Chloride	[redacted]	[redacted]		[redacted]		[redacted]																						0	0%	2000
Xylenes																												4	80%	0.03
																												0	0%	500
Dichlorodifluoromethane*	NA	NA	NA	NA	NA																							0	NA	1000
Diethyphthalate*	NA	NA	NA	NA	NA																							0	NA	6000
bis(2-ethylhexyl)phthalate*	NA	NA	NA	NA	NA																							0	NA	3

[redacted] - indicates concentrations exceeding NCGS
"NE" - not established
"NA" - not applicable
NCGS = 2L STD or
* -denotes an Appendix II constituent not included in Appendix I
** 13B GWPS as of Oct 07

Groundwater Monitoring Well Data
Monitoring Well 58 (MW58)
Corrective Action Well
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT	MW58					MW58 Detects		NCGS
SAMPLING DATES	Oct. 10	Apr. 11	Oct. 11	Apr. 12	Oct. 12	detect#	detect%	
INORGANICS (mg/l)								(mg/l)
Antimony						0	0%	0.001**
Arsenic						0	0%	0.01
Barium						0	0%	0.7
Beryllium						0	0%	0.004**
Cadmium				0.001		1	20%	0.002
Chromium			[redacted]			1	20%	0.01
Cobalt						0	0%	0.001**
Copper						0	0%	1
Lead			0.014			1	20%	0.015
Nickel						0	0%	0.1
Selenium						0	0%	0.02
Silver						0	0%	0.02
Vanadium						0	0%	0.0003**
Zinc						0	0%	1
t-Cyanide*	NA	NA	NA	NA	NA	0	NA	0.07
Mercury*	NA	NA	NA	NA	NA	0	NA	0.001
Tin*	NA	NA	NA	NA	NA	0	NA	2**
ORGANICS (ug/l)								(ug/l)
Acetone						0	0%	700
Benzene						0	0%	1
Carbon Disulfide						0	0%	700
Carbon Tetrachloride						0	0%	0.3
Chlorobenzene						0	0%	50
Chloroethane						0	0%	3000
Chloromethane						0	0%	3
1,2-Dibromoethane						0	0%	0.02
1,4-Dichlorobenzene						0	0%	6
cis-1,2-Dichloroethene						0	0%	70
1,1-Dichloroethane						0	0%	6
1,2-Dichloroethane						0	0%	0.4
1,1-Dichloroethene						0	0%	7
Methylene Chloride						0	0%	5
Tetrachloroethylene						0	0%	0.7
Toluene						0	0%	600
1,1,1-Trichloroethane						0	0%	200
Trichloroethylene						0	0%	3
Trichloroflouromethane						0	0%	2000
Vinyl Chloride						0	0%	0.03
Xylenes						0	0%	500
Dichlorodifluoromethane*	NA	NA	NA	NA	NA	0	NA	1000
Diethyphthalate*	NA	NA	NA	NA	NA	0	NA	6000
bis(2-ethylhexyl)phthalate*	NA	NA	NA	NA	NA	0	NA	3

[redacted] - indicates concentrations exceeding NCGS
"NE" - not established
"NA" - not applicable
* -denotes an Appendix II constituent not included in Appendix I

NCGS = 2L STD or ** 13B GWPS as of Oct 07

Groundwater Monitoring Well Data
Monitoring Well 59 (MW59)
Corrective Action Well
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT	MW59					MW59 Detects		NCGS
SAMPLING DATES	Oct. 10	Apr. 11	Oct. 11	Apr. 12	Oct. 12	detect#	detect%	
INORGANICS (mg/l)								(mg/l)
Antimony						0	0%	0.001**
Arsenic						0	0%	0.01
Barium	0.104					1	20%	0.7
Beryllium		0.001	0.002			2	40%	0.004**
Cadmium						0	0%	0.002
Chromium						2	40%	0.01
Cobalt						0	0%	0.001**
Copper	0.01	0.012	0.034	0.023		4	80%	1
Lead						1	20%	0.015
Nickel						0	0%	0.1
Selenium						0	0%	0.02
Silver						0	0%	0.02
Vanadium						1	20%	0.0003**
Zinc	0.015		0.014			2	40%	1
t-Cyanide*	NA	NA	NA	NA	NA	0	NA	0.07
Mercury*	NA	NA	NA	NA	NA	0	NA	0.001
Tin*	NA	NA	NA	NA	NA	0	NA	2**
ORGANICS (ug/l)								(ug/l)
Acetone						0	0%	700
Benzene	1	1	1			3	60%	1
Carbon Disulfide						0	0%	700
Carbon Tetrachloride						0	0%	0.3
Chlorobenzene						0	0%	50
Chloroethane						0	0%	3000
Chloromethane						0	0%	3
1,2-Dibromoethane						0	0%	0.02
1,4-Dichlorobenzene						0	0%	6
cis-1,2-Dichloroethene						0	0%	70
1,1-Dichloroethane						0	0%	6
1,2-Dichloroethane						0	0%	0.4
1,1-Dichloroethene						0	0%	7
Methylene Chloride						0	0%	5
Tetrachloroethylene						0	0%	0.7
Toluene						0	0%	600
1,1,1-Trichloroethane						0	0%	200
Trichloroethylene						0	0%	3
Trichloroflouromethane						0	0%	2000
Vinyl Chloride						1	20%	0.03
Xylenes						0	0%	500
Dichlorodifluoromethane*	NA	NA	NA	NA	NA	0	NA	1000
Diethyphthalate*	NA	NA	NA	NA	NA	0	NA	6000
bis(2-ethylhexyl)phthalate*	NA	NA	NA	NA	NA	0	NA	3

		- indicates concentrations exceeding NCGS
	"NE"	- not established
	"NA"	- not applicable
	*	-denotes an Appendix II constituent not included in Appendix I

NCGS = 2L STD or ** 13B GWPS as of Oct 07

Groundwater Monitoring Well Data
Monitoring Well 2 (MW2)
Downgradient Well - Set 1
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT	Average																							
Averages	Oct. 94	Nov.94	Jan. 95	Mar. 95	Sep. 95	Apr. 96	Oct. 96	Apr. 97	Oct. 97	Apr. 98	Oct. 98	Mar. 99	Oct. 99	Apr. 00	Oct. 00	Apr. 01	Oct. 01	Apr. 02	Oct. 02	Apr. 03	Oct. 03	Apr. 04	Oct. 04	Apr. 05
Benzene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.70	0.00	0.00	1.43	1.50	0.00	0.00	5.00	3.66	2.80	1.64	1.62	1.28	0.00	0.00	0.00
[redacted]	113.63	40.47	52.50	46.50	57.80	48.60	60.00	78.33	79.00	46.60	19.50	78.33	111.00	101.00	57.00	27.00	119.00	133.20	84.18	108.54	84.54	184.16	55.98	62.32
Methylene Chloride	9.17	14.20	0.00	7.73	19.33	2.40	19.67	78.33	64.40	10.00	132.50	59.67	0.00	0.00	66.67	88.80	156.40	128.80	94.60	92.38	76.44	71.12	55.30	44.80
Tetrachloroethylene	1.77	0.00	1.90	1.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.80	0.63	0.00	0.00	4.04	3.26	2.60	2.42	2.44	1.46	0.00	0.00	0.00

Groundwater Monitoring Well Data
Monitoring Well 6 (MW6)
Downgradient Well - Set 1
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT	MW6																									
SAMPLING DATES	Oct. 94	Nov.94	Jan. 95	Mar. 95	Sep. 95	Apr. 96	Oct. 96	Apr. 97	Oct. 97	Apr. 98	Oct. 98	Mar. 99	Oct. 99	Apr. 00	Oct. 00	Apr. 01	Oct .01	Apr. 02	Oct. 02	Apr. 03	Oct. 03	Apr. 04	Oct. 04	Apr. 05	Oct. 05	Apr. 06
ORGANICS (ug/l)																										
Benzene	0	0	0	0	0	0	0	0	0	0	0	2.7	3.4	0	0	9.50	0	0	0	0	0	0	0	0	0	0
[illegible]	78.9	51.7	105	87.1	67	61	80	134	160	30.1	0	88	64	41	37	0	27	28	27.7	6.6	18.4	13.1	7.4	8.9	33.2	18.6
Methylene Chloride	27.5	31.4	0	23.2	58	7.2	46	158	160	10.2	240	96	0	0	66	109	47	37	34.8	0	28.2	12.8	0	0	64.5	20.1
Tetrachloroethylene	5.3	0	3.8	5.6	0	0	0	0	0	0	0	2.4	1.9	0	0	8.20	0	0	0	0	0	0	0	0	7.1	6.2

Groundwater Monitoring Well Data
Monitoring Well 7,7B (MW7,7B)
Downgradient Well - Set 1
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT	MW7				MW7B																					
SAMPLING DATES	Oct. 94	Nov.94	Jan. 95	Mar. 95	Sep. 95	Apr. 96	Oct. 96	Apr. 97	Oct. 97	Apr. 98	Oct. 98	Mar. 99	Oct. 99	Apr. 00	Oct.00	Apr. 01	Oct. 01	Apr. 02	Oct. 02	Apr. 03	Oct. 03	Apr. 04	Oct. 04	Apr. 05	Oct. 05	Apr. 06
ORGANICS (ug/l)																										
Benzene	0	0	NA	0	0	0	0	0	0	0	NA	0	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0
[illegible]	262	69.7	NA	52.4	100	77	100	56	30	99.5	NA	110	210	170	90	0	176	230	87.1	220	141	137	113	147	22.5	176
Methylene Chloride	0	11.2	NA	0	0	0	13	28	2.2	14.6	NA	53	0	0	60	75	138	154	26.4	174	70.3	93.3	101	75.1	59.6	79.9
[illegible]	0	0	NA	0	0	0	0	0	0	0	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0

Groundwater Monitoring Well Data
Monitoring Well 8 (MW8)
Downgradient Well - Set 1
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT	MW8																									
SAMPLING DATES	Oct. 94	Nov.94	Jan. 95	Mar. 95	Sep. 95	Apr. 96	Oct. 96	Apr. 97	Oct. 97	Apr. 98	Oct. 98	Mar. 99	Oct. 99	Apr. 00	Oct. 00	Apr. 01	Oct. 01	Apr. 02	Oct. 02	Apr. 03	Oct. 03	Apr. 04	Oct. 04	Apr. 05	Oct. 05	Apr. 06
ORGANICS (ug/l)																										
Benzene	0	0	0	0	0	0	0	0	2.1	0	0	1.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0
[redacted]	0	0	0	0	6.4	7.8	0	45	47	10.2	39	37	59	92	44	135	0	80	76.8	71.5	59.2	42.7	31	38.9	59	58.6
Methylene Chloride	0	0	0	0	0	0	0	49	31	5.2	25	30	0	0	74	140	92	90	80.5	71.2	69	44.5	39.9	40.6	63.3	64
[redacted]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Groundwater Monitoring Well Data
Monitoring Well 9 (MW9)
Downgradient Well - Set 1
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT	MW9															MW9										
SAMPLING DATES	Oct. 94	Nov.94	Jan. 95	Mar. 95	Sep. 95	Apr. 96	Oct. 96	Apr. 97	Oct. 97	Apr. 98	Oct. 98	Mar. 99	Oct. 99	Apr. 00	Oct. 00	Apr. 01	Oct. 01	Apr. 02	Oct. 02	Apr. 03	Oct. 03	Apr. 04	Oct. 04	Apr. 05	Oct. 05	Apr. 06
ORGANICS (ug/l)																										
Benzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.6	11	7.8	8.2	8.1	6.4	0	0	0	0	5.6
[redacted]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	126	219	170	202	135	122	75.2	81.9	110	103
Methylene Chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	195	231	272	197	166	127	67.9	56.7	75.7	122
[redacted]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	5.3	0	5.3	5.1	0	0	0	0	0	0

Groundwater Monitoring Well Data
Monitoring Well 10 (MW10)
Downgradient Well - Set 1
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT																MW10										
SAMPLING DATES	Oct. 94	Nov.94	Jan. 95	Mar. 95	Sep. 95	Apr. 96	Oct. 96	Apr. 97	Oct. 97	Apr. 98	Oct. 98	Mar. 99	Oct. 99	Apr. 00	Oct. 00	Apr. 01	Oct. 01	Apr. 02	Oct. 02	Apr. 03	Oct. 03	Apr. 04	Oct. 08	Apr. 05	Oct. 05	Apr. 06
ORGANICS (ug/l)																										
Benzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	[redacted]			0	0	0	0	0	0	0	0
[redacted]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	266	109	59.3	42.6	69.1	606	53.3	34.9	25.2	19.1
Methylene Chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	120	310	132	59.3	[redacted]	48.7	78	67.7	51.6	0	27.1
[redacted]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	[redacted]					7.3	0	0	0	0	0

APPENDIX B

DATA SET 2

Groundwater Monitoring Well Data
Monitoring Well 16 (MW16)
Upgradient Well - Set2
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT	MW16																	
SAMPLE DATE	Oct. 94	Nov.94	Jan. 95	Mar. 95	Sep. 95	Dec. 95	Feb. 96	Apr. 96	Oct. 96	Apr. 97	Oct. 97	Apr. 98	Oct. 98	Mar. 99	Oct. 99	Apr. 00	Oct. 00	Apr. 01
INORGANICS (mg/l)																		
Antimony						NA	NA			NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic						NA	NA											
Barium	0.112	0.194	0.114	0.147		NA	NA				0.104	0.099	0.1	0.281	0.162	0.06		
Beryllium						NA	NA			NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.0018	0.001	[redacted]	[redacted]	0.002	NA	NA		[redacted]	[redacted]				0.001				
Chromium	0.004	0.007		0.005	0.01	NA	NA			[redacted]		0.006	0.008	[redacted]	[redacted]			
Cobalt						NA	NA		[redacted]	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	0.008	0.009	0.018	0.014		NA	NA			NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	0.002	0.003		0.004	0.013	NA	NA		0.012	[redacted]	0.002		0.005	[redacted]	0.011	0.002		
Mercury						NA	NA						0.0002					
Nickel						NA	NA			NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium						NA	NA											
Silver						NA	NA											
Vanadium	[redacted]	[redacted]				NA	NA			NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	0.012	0.014	0.015	0.027		NA	NA		0.070	NA	NA	NA	NA	NA	NA	NA	NA	NA
ORGANICS (ug/l)																		
cis-1,2-dichloroethene						NA	NA											
methylene chloride			[redacted]			NA	NA											
mek; 2-butanone						NA	NA											
NOTES	[redacted]	- indicates concentrations exceeding NCGS																
	"NE"	- not established																
	"NT"	- not tested																
	"NA"	- not applicable																
	*	-denotes an Appendix II constituent not included in Appendix I																

Groundwater Monitoring Well Data
Monitoring Well 16 (MW16)
Upgradient Well - Set2
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT																	
SAMPLE DATE	Oct. 01	Apr. 02	Oct. 02	Apr. 03	Oct. 03	Apr. 04	Oct. 04	Apr. 05	Oct. 05	Apr. 06	Oct. 06	May 07	Oct. 07	Apr. 08	Oct. 08	Apr. 09	Oct. 09
INORGANICS (mg/l)																	
Antimony	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic																	
Barium																	
Beryllium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium																	
Chromium																	
Cobalt	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead																	
Mercury																	
Nickel	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium																	
Silver																	
Vanadium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ORGANICS (ug/l)																	
cis-1,2-dichloroethene																	
methylene chloride																	
mek; 2-butanone																	
NOTES																	

Groundwater Monitoring Well Data
Monitoring Well 16 (MW16)
Upgradient Well - Set2
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT							MW16 Detects		NCGS
SAMPLE DATE	Apr. 10	Oct. 10	Apr. 11	Oct. 11	Apr. 12	Oct. 12	detect#	detect%	
INORGANICS (mg/l)									(mg/l)
Antimony	NA	NA	NA	NA	NA	NA	0	0%	0.0014**
Arsenic							0	0%	0.01
Barium							10	26%	0.7
Beryllium	NA	NA	NA	NA	NA	NA	0	0%	0.004**
Cadmium							8	21%	0.002
Chromium							9	23%	0.01
Cobalt	NA	NA	NA	NA	NA	NA	1	14%	0.001**
Copper	NA	NA	NA	NA	NA	NA	4	57%	1
Lead							11	28%	0.015
Mercury							1	3%	0.001
Nickel	NA	NA	NA	NA	NA	NA	0	0%	0.1
Selenium							0	0%	0.02
Silver							0	0%	0.02
Vanadium	NA	NA	NA	NA	NA	NA	2	29%	0.0003**
Zinc	NA	NA	NA	NA	NA	NA	5	71%	1
ORGANICS (ug/l)									(ug/l)
cis-1,2-dichloroethene							0	0%	70
methylene chloride							1	3%	5
mek; 2-butanone							0	0%	4000
NOTES									
									NCGS =
									2L STD or
							** 13B GWPS as of Oct 07		

Groundwater Monitoring Well Data
Monitoring Well 32 (MW32)
Downgradient Well - Set2
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT	MW32																		
SAMPLE DATE	Oct. 94	Nov 94	Jan. 95	Mar. 95	Sep. 95	Dec. 95	Feb. 96	Apr. 96	Oct. 96	Apr. 97	Oct. 97	Apr. 98	Oct. 98	Mar. 99	Oct. 99	Apr. 00	Oct. 00	Apr. 01	Oct. 01
INORGANICS (mg/l)																			
Antimony		0.004				NA	NA			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic				0.007		NA	NA							0.006	0.005				
Barium	0.097	0.646	0.145	0.251		NA	NA					0.043	0.249	0.352	0.303	0.067			
Beryllium				0.004		NA	NA			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.0013					NA	NA							0.001	0.001				
Chromium	0.004	0.133				NA	NA												
Cobalt						NA	NA			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	0.006	0.094	0.017	0.026		NA	NA			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	0.002		0.01			NA	NA				0.004	0.002	0.012						
Mercury						NA	NA												
Nickel		0.05				NA	NA			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium		0.002				NA	NA												
Silver						NA	NA												
Vanadium						NA	NA			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	0.008	0.189	0.029	0.051		NA	NA			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ORGANICS (ug/l)																			
cis-1,2-dichloroethene						NA	NA												
methylene chloride						NA	NA												
mek; 2-butanone			471			NA	NA												

NOTES		
		- indicates concentrations exceeding NCGS
	"NE"	- not established
	"NT"	- not tested
	"NA"	- not applicable
	*	-denotes an Appendix II constituent not included in Appendix I

Groundwater Monitoring Well Data
Monitoring Well 32 (MW32)
Downgradient Well - Set2
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT																	
SAMPLE DATE	Apr. 02	Oct. 02	Apr. 03	Oct. 03	Apr. 04	Oct. 04	Apr. 05	Oct. 05	Apr. 06	Oct. 06	May 07	Oct. 07	Apr. 08	Oct. 08	Apr. 09	Oct. 09	Apr. 10
INORGANICS (mg/l)																	
Antimony	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic																	
Barium													0.105			0.11	
Beryllium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium													0.001				
Chromium			[redacted]	[redacted]													
Cobalt	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead			[redacted]				[redacted]		[redacted]		0.011	0.011	[redacted]			[redacted]	
Mercury																	
Nickel	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium																	
Silver																	
Vanadium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ORGANICS (ug/l)																	
cis-1,2-dichloroethene																	
methylene chloride																	
mek; 2-butanone																	
NOTES																	

Groundwater Monitoring Well Data
Monitoring Well 32 (MW32)
Downgradient Well - Set2
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT						MW32 Detects		NCGS
SAMPLE DATE	Oct. 10	Apr. 11	Oct. 11	Apr. 12	Oct. 12	detect#	detect%	
INORGANICS (mg/l)								(mg/l)
Antimony	NA	NA	NA	NA	NA	1	14%	0.0014**
Arsenic						4	10%	0.01
Barium		0.36				12	31%	0.7
Beryllium	NA	NA	NA	NA	NA	1	14%	0.004**
Cadmium		0.001				7	18%	0.002
Chromium		[redacted]				9	23%	0.01
Cobalt	NA	NA	NA	NA	NA	3	43%	0.001**
Copper	NA	NA	NA	NA	NA	4	57%	1
Lead		[redacted]			0.013	18	46%	0.015
Mercury						0	0%	0.001
Nickel	NA	NA	NA	NA	NA	1	14%	0.1
Selenium						1	3%	0.02
Silver						0	0%	0.02
Vanadium	NA	NA	NA	NA	NA	4	57%	0.0003**
Zinc	NA	NA	NA	NA	NA	4	57%	1
ORGANICS (ug/l)								(ug/l)
cis-1,2-dichloroethene						0	0%	70
methylene chloride						0	0%	5
mek; 2-butanone						1	3%	4000
NOTES								
								NCGS =
								2L STD or
						** 13B GWPS as of Oct 07		

Groundwater Monitoring Well Data
Monitoring Well 33 (MW33)
Downgradient Well - Set2
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT	MW33																		
SAMPLE DATE	Oct. 94	Nov.94	Jan. 95	Mar. 95	Sep. 95	Dec. 95	Feb. 96	Apr. 96	Oct. 96	Apr. 97	Oct. 97	Apr. 98	Oct. 98	Mar. 99	Oct. 99	Apr. 00	Oct. 00	Apr. 01	Oct. 01
INORGANICS (mg/l)																			
Antimony						NA	NA			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic						NA	NA												
Barium	0.1	0.332	0.184	0.12		NA	NA				0.135	0.005	0.185	0.107	0.121	0.06			
Beryllium				0.008	0.007	NA	NA		0.004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	[redacted]	[redacted]	[redacted]			NA	NA												
Chromium	0.005	[redacted]	[redacted]	0.006		NA	NA						[redacted]	0.007					
Cobalt		[redacted]	[redacted]			NA	NA			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	0.013	0.02	0.028	0.015		NA	NA			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	0.004	0.012	[redacted]	0.006		NA	NA				0.004		[redacted]	0.01	0.011				
Mercury						NA	NA				0.0004							0.0005	
Nickel						NA	NA			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium						NA	NA												
Silver						NA	NA												
Vanadium	[redacted]	[redacted]	[redacted]			NA	NA			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	0.011	0.026	0.42	0.023		NA	NA			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ORGANICS (ug/l)																			
cis-1,2-dichloroethene						NA	NA						1.8	1.2	1.8				
methylene chloride						NA	NA												
mek; 2-butanone						NA	NA												
NOTES	[redacted]	- indicates concentrations exceeding NCGS																	
	"NE"	- not established																	
	"NT"	- not tested																	
	"NA"	- not applicable																	
	*	-denotes an Appendix II constituent not included in Appendix I																	

Groundwater Monitoring Well Data
Monitoring Well 33 (MW33)
Downgradient Well - Set2
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT																	
SAMPLE DATE	Apr. 02	Oct. 02	Apr. 03	Oct. 03	Apr. 04	Oct. 04	Apr. 05	Oct. 05	Apr. 06	Oct. 06	May 07	Oct. 07	Apr. 08	Oct. 08	Apr. 09	Oct. 09	Apr. 10
INORGANICS (mg/l)																	
Antimony	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic																	
Barium																	
Beryllium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium																	
Chromium																	
Cobalt	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead																	
Mercury																	
Nickel	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium																	
Silver																	
Vanadium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ORGANICS (ug/l)																	
cis-1,2-dichloroethene																	
methylene chloride																	
mek; 2-butanone																	
NOTES																	

Groundwater Monitoring Well Data
Monitoring Well 33 (MW33)
Downgradient Well - Set2
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT						MW33 Detects		NCGS
SAMPLE DATE	Oct. 10	Apr. 11	Oct. 11	Apr. 12	Oct. 12	detect#	detect%	
INORGANICS (mg/l)								(mg/l)
Antimony	NA	NA	NA	NA	NA	0	0%	0.0014**
Arsenic						0	0%	0.01
Barium						10	26%	0.7
Beryllium	NA	NA	NA	NA	NA	3	43%	0.004**
Cadmium						3	8%	0.002
Chromium						6	15%	0.01
Cobalt	NA	NA	NA	NA	NA	2	29%	0.001**
Copper	NA	NA	NA	NA	NA	4	57%	1
Lead						8	21%	0.015
Mercury						2	5%	0.001
Nickel	NA	NA	NA	NA	NA	0	0%	0.1
Selenium						0	0%	0.02
Silver						0	0%	0.02
Vanadium	NA	NA	NA	NA	NA	3	43%	0.0003**
Zinc	NA	NA	NA	NA	NA	4	57%	1
ORGANICS (ug/l)								(ug/l)
cis-1,2-dichloroethene						3	8%	70
methylene chloride						0	0%	5
mek; 2-butanone						0	0%	4000
NOTES								
								NCGS =
								2L STD or
						** 13B GWPS as of Oct 07		

Groundwater Monitoring Well Data
Monitoring Well 34 (MW34)
Downgradient Well - Set2
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT	MW34																	
SAMPLE DATE	Oct. 96	Apr. 97	Oct. 97	Apr. 98	Oct. 98	Mar. 99	Oct. 99	Apr. 00	Oct. 00	Apr. 01	Oct. 01	Apr. 02	Oct. 02	Apr. 03	Oct. 03	Apr. 04	Oct. 04	Apr. 05
INORGANICS (mg/l)																		
Antimony	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic																		
Barium			0.112	0.005	0.201	0.246	0.221	0.062										
Beryllium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium																		
Chromium																		
Cobalt	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead			0.003	0.002														
Mercury					0.0003	0.0003												
Nickel	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium																		
Silver																		
Vanadium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ORGANICS (ug/l)																		
cis-1,2-dichloroethene																		
methylene chloride																		
mek; 2-butanone																		

NOTES	
MW34 was installed in June 1996 therefore no data prior to this date are available.	
	- indicates concentrations exceeding NCGS
"NE"	- not established
"NT"	- not tested
"NA"	- not applicable
*	-denotes an Appendix II constituent not included in Appendix I

Groundwater Monitoring Well Data
Monitoring Well 34 (MW34)
Downgradient Well - Set2
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT																MW34 Detects	
SAMPLE DATE	Oct. 05	Apr. 06	Oct. 06	May 07	Oct. 07	Apr. 08	Oct. 08	Apr. 09	Oct. 09	Apr. 10	Oct. 10	Apr. 11	Oct. 11	Apr. 12	Oct. 12	detect#	detect%
INORGANICS (mg/l)																	
Antimony	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic																0	0%
Barium																6	18%
Beryllium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium						0.001	0.001									0	6%
Chromium																3	16%
Cobalt	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead										[redacted]						5	26%
Mercury																2	11%
Nickel	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium																0	0%
Silver																0	0%
Vanadium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ORGANICS (ug/l)																	
cis-1,2-dichloroethene																0	0%
methylene chloride																0	0%
mek; 2-butanone																0	0%

NOTES	
MW34 was installed in Ju	
[redacted]	
"NE"	
"NT"	** 13B GWPS a
"NA"	
*	

Groundwater Monitoring Well Data
Monitoring Well 34 (MW34)
Downgradient Well - Set2
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT	NCGS
SAMPLE DATE	
INORGANICS (mg/l)	(mg/l)
Antimony	0.0014**
Arsenic	0.01
Barium	0.7
Beryllium	0.004**
Cadmium	0.002
Chromium	0.01
Cobalt	0.001**
Copper	1
Lead	0.015
Mercury	0.001
Nickel	0.1
Selenium	0.02
Silver	0.02
Vanadium	0.0003**
Zinc	1
ORGANICS (ug/l)	(ug/l)
cis-1,2-dichloroethene	70
methylene chloride	5
mek; 2-butanone	4000
NOTES	
MW34 was installed in Ju	NCGS =
	2L STD or
"NE"	s of Oct 07
"NT"	
"NA"	
*	

Groundwater Monitoring Well Data
Monitoring Well 35 (MW35)
Downgradient Well - Set2
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT	MW35																	
SAMPLE DATE	Oct. 96	Apr. 97	Oct. 97	Apr. 98	Oct. 98	Mar. 99	Oct. 99	Apr. 00	Oct. 00	Apr. 01	Oct. 01	Apr. 02	Oct. 02	Apr. 03	Oct. 03	Apr. 04	Oct. 04	Apr. 05
INORGANICS (mg/l)																		
Antimony	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic		[redacted]	[redacted]		[redacted]	0.008	0.010											
Barium		[redacted]	[redacted]	0.005	0.489	[redacted]	0.512	0.132										
Beryllium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium		[redacted]	[redacted]			0.001												
Chromium		[redacted]			[redacted]	[redacted]	[redacted]	0.006										
Cobalt	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead		[redacted]	[redacted]	0.002	[redacted]	[redacted]	[redacted]	0.003										
Mercury		[redacted]			0.0002	0.0004												
Nickel	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium			0.004															
Silver																		
Vanadium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ORGANICS (ug/l)																		
cis-1,2-dichloroethene																		
methylene chloride																		
mek; 2-butanone																		

NOTES	
MW35 was installed in June 1996 therefore no data prior to this date are available.	
[redacted]	- indicates concentrations exceeding NCGS
"NE"	- not established
"NT"	- not tested
"NA"	- not applicable
*	-denotes an Appendix II constituent not included in Appendix I

Groundwater Monitoring Well Data
Monitoring Well 35 (MW35)
Downgradient Well - Set2
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT																MW35 Detects	
SAMPLE DATE	Oct. 05	Apr. 06	Oct. 06	May 07	Oct. 07	Apr. 08	Oct. 08	Apr. 09	Oct. 09	Apr. 10	Oct. 10	Apr. 11	Oct. 11	Apr. 12	Oct. 12	detect#	detect%
INORGANICS (mg/l)																	
Antimony	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic																5	15%
Barium				0.132	0.318	0.225	0.25	0.179	0.29	0.179	0.405	0.423	0.535	0.335	0.543	7	58%
Beryllium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium																3	9%
Chromium																5	26%
Cobalt	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead																7	37%
Mercury																3	16%
Nickel	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium																1	3%
Silver																0	0%
Vanadium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ORGANICS (ug/l)																	
cis-1,2-dichloroethene																0	0%
methylene chloride																0	0%
mek; 2-butanone																0	0%
NOTES																	
MW35 was installed in Ju																	
[redacted]																	
"NE"																	
"NT"																** 13B GWPS a	
"NA"																	
*																	

Groundwater Monitoring Well Data
Monitoring Well 35 (MW35)
Downgradient Well - Set2
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT	NCGS
SAMPLE DATE	
INORGANICS (mg/l)	(mg/l)
Antimony	0.0014**
Arsenic	0.01
Barium	0.7
Beryllium	0.004**
Cadmium	0.002
Chromium	0.01
Cobalt	0.001**
Copper	1
Lead	0.015
Mercury	0.001
Nickel	0.1
Selenium	0.02
Silver	0.02
Vanadium	0.0003**
Zinc	1
ORGANICS (ug/l)	(ug/l)
cis-1,2-dichloroethene	70
methylene chloride	5
mek; 2-butanone	4000
NOTES	
MW35 was installed in Ju	NCGS =
	2L STD or
"NE"	s of Oct 07
"NT"	
"NA"	
*	

APPENDIX C

DATA SET 3

Groundwater Monitoring Point Data
Surface Water Monitoring Point 1 (SWPT1)
Upgradient Point - Set 3
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT	SWPT1																		
SAMPLE DATE	Oct. 94	Nov.94	Jan. 95	Mar. 95	Sep. 95	Dec. 95	Feb. 96	Mar. 96	Oct. 96	Apr. 97	Oct. 97	Apr. 98	Oct. 98	Mar. 99	Oct. 99	Apr. 00	Oct. 00	Apr. 01	Oct. 01
INORGANICS (mg/l)																			
Antimony						NA	NA												
Arsenic	0.007				[redacted]	NA	NA												
Barium	0.045	0.033	0.03	0.029		NA	NA												
Beryllium						NA	NA												
Cadmium					0.001	NA	NA												
Chromium	0.002					NA	NA												
Cobalt						NA	NA								[redacted]				
Copper	0.006			0.006		NA	NA												
Lead						NA	NA												
Nickel						NA	NA												
Selenium						NA	NA												
Silver						NA	NA												
Vanadium						NA	NA												
Zinc	0.011	0.016	0.021	0.013		NA	NA				0.022		0.04						
ORGANICS (ug/l)																			
Benzene						NA	NA												
Chloromethane						NA	NA												
cis-1,2 Dichloroethene						NA	NA												
Ethylbenzene						NA	NA												
Toluene						NA	NA								1.3				
Vinyl chloride						NA	NA												
Xylenes						NA	NA												
NOTES	[redacted]	- indicates concentrations exceeding NCGS																	
	"NE"	- not established																	
	"NT"	- not tested																	
	"NA"	- not applicable																	
	*	-denotes an Appendix II constituent not included in Appendix I																	

Groundwater Monitoring Point Data
Surface Water Monitoring Point 1 (SWPT1)
Upgradient Point - Set 3
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT																
SAMPLE DATE	Apr. 02	Oct. 02	Apr. 03	Oct. 03	Apr. 04	Oct. 04	Apr. 05	Oct. 05	Apr. 06	Oct. 06	May 07	Oct. 07	Apr. 08	Oct. 08	Apr. 09	Oct. 09
INORGANICS (mg/l)																
Antimony								NA				NA				
Arsenic								NA				NA		[illegible]	[illegible]	[illegible]
Barium								NA				NA		0.183	0.222	
Beryllium								NA				NA				
Cadmium				0.001				NA				NA				
Chromium								NA				NA			[illegible]	
Cobalt								NA				NA		[illegible]	[illegible]	
Copper								NA				NA			0.015	
Lead								NA				NA		0.01	[illegible]	
Nickel								NA				NA				
Selenium								NA				NA				
Silver								NA				NA				
Vanadium								NA				NA		[illegible]	[illegible]	
Zinc								NA			0.011	NA	0.022	0.033	0.073	
ORGANICS (ug/l)																
Benzene								NA				NA				
Chloromethane								NA				NA		1.3		
cis-1,2 Dichloroethene								NA				NA				
Ethylbenzene								NA				NA				
Toluene								NA				NA				
Vinyl chloride								NA				NA				
Xylenes								NA				NA				
NOTES																

Groundwater Monitoring Point Data
Surface Water Monitoring Point 1 (SWPT1)
Upgradient Point - Set 3
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT							SWPT1 Detects		NCGS
SAMPLE DATE	Apr. 10	Oct. 10	Apr. 11	Oct. 11	Apr. 12	Oct. 12	detect#	detect%	
INORGANICS (mg/l)									(mg/l)
Antimony				NA			0	0%	0.001**
Arsenic				NA			5	14%	0.01
Barium				NA			6	17%	0.7
Beryllium				NA			0	0%	0.004**
Cadmium		0.001		NA			3	8%	0.002
Chromium				NA			2	6%	0.01
Cobalt				NA			3	8%	0.001**
Copper				NA			3	8%	1
Lead				NA			2	6%	0.015
Nickel				NA			0	0%	0.1
Selenium				NA			0	0%	0.02
Silver				NA			0	0%	0.02
Vanadium				NA			2	6%	0.0003**
Zinc		0.016		NA		0.035	12	33%	1
ORGANICS (ug/l)									(ug/l)
Benzene				NA			0	0%	1
Chloromethane				NA			1	3%	3
cis-1,2 Dichloroethene				NA			0	0%	70
Ethylbenzene				NA			0	0%	600
Toluene				NA			1	3%	600
Vinyl chloride				NA			0	0%	0.03
Xylenes				NA			0	0%	500
NOTES									
									NCGS = 2L STD or
									** 13B GWPS

Groundwater Monitoring Point Data
Surface Water Monitoring Point 2 (SWPT2)
Set 3 - Downgradient Point
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT	SWPT2																		
SAMPLE DATE	Oct. 94	Nov.94	Jan. 95	Mar. 95	Sep. 95	Dec. 95	Feb. 96	Mar. 96	Oct. 96	Apr. 97	Oct. 97	Apr. 98	Oct. 98	Mar. 99	Oct. 99	Apr. 00	Oct. 00	Apr .01	Oct. 01
INORGANICS (mg/l)																			
Antimony						NA	NA												
Arsenic		0.005				NA	NA												
Barium	0.032	0.027	0.025	0.028		NA	NA				0.01								
Beryllium						NA	NA												
Cadmium		0.001				NA	NA												
Chromium				0.002		NA	NA												
Cobalt						NA	NA								0.01				
Copper	0.005		0.006	0.005		NA	NA												
Lead			0.002			NA	NA												
Nickel						NA	NA												
Selenium						NA	NA												
Silver						NA	NA												
Vanadium						NA	NA												
Zinc	0.007	0.005	0.01	0.016		NA	NA				0.007								
ORGANICS (ug/l)																			
Benzene						NA	NA												
Chloromethane						NA	NA												
cis-1,2 Dichloroethene						NA	NA												
Ethylbenzene						NA	NA												
Toluene						NA	NA												
Vinyl chloride						NA	NA												
Xylenes						NA	NA												
NOTES		- indicates concentrations exceeding NCGS																	
	"NE"	- not established																	
	"NT"	- not tested																	
	"NA"	- not applicable																	
	*	-denotes an Appendix II constituent not included in Appendix I																	

Groundwater Monitoring Point Data
Surface Water Monitoring Point 2 (SWPT2)
Set 3 - Downgradient Point
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT																
SAMPLE DATE	Apr. 02	Oct. 02	Apr. 03	Oct. 03	Apr. 04	Oct. 04	Apr. 05	Oct. 05	Apr. 06	Oct. 06	May 07	Oct. 07	Apr. 08	Oct. 08	Apr. 09	Oct. 09
INORGANICS (mg/l)																
Antimony												NA				
Arsenic												NA		0.012		
Barium												NA				
Beryllium												NA				
Cadmium												NA				
Chromium												NA				
Cobalt												NA				
Copper												NA				
Lead												NA				
Nickel												NA				
Selenium												NA				
Silver												NA				
Vanadium												NA				
Zinc												NA	0.02	0.014	0.01	
ORGANICS (ug/l)																
Benzene												NA				
Chloromethane												NA				
cis-1,2 Dichloroethene												NA				
Ethylbenzene												NA				
Toluene												NA		2.3		
Vinyl chloride												NA				
Xylenes												NA				
NOTES																

Groundwater Monitoring Point Data
Surface Water Monitoring Point 2 (SWPT2)
Set 3 - Downgradient Point
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT							SWPT2 Detects		NCGS
SAMPLE DATE	Apr. 10	Oct. 10	Apr. 11	Oct. 11	Apr. 12	Oct. 12	detect#	detect%	
INORGANICS (mg/l)									(mg/l)
Antimony				NA			0	0%	0.001**
Arsenic				NA			2	5%	0.01
Barium				NA			5	14%	0.7
Beryllium				NA			0	0%	0.004**
Cadmium				NA			1	3%	0.002
Chromium				NA			1	3%	0.01
Cobalt				NA			1	3%	0.001**
Copper				NA			3	8%	1
Lead				NA			1	3%	0.015
Nickel				NA			0	0%	0.1
Selenium				NA			0	0%	0.02
Silver				NA			0	0%	0.02
Vanadium				NA			0	0%	0.0003**
Zinc	0.017	0.014		NA			10	27%	1
ORGANICS (ug/l)									(ug/l)
Benzene				NA			0	0%	1
Chloromethane				NA			0	0%	3
cis-1,2 Dichloroethene				NA			0	0%	70
Ethylbenzene				NA			0	0%	600
Toluene	1.4			NA			2	5%	600
Vinyl chloride				NA			0	0%	0.03
Xylenes				NA			0	0%	500
NOTES									
									NCGS =
									2L STD or
									** 13B GWPS

Groundwater Monitoring Point Data
Surface Water Monitoring Point 3 (SWPT3)
Set 3 - Downgradient Point
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT	SWPT3																		
SAMPLE DATE	Oct. 94	Nov.94	Jan. 95	Mar. 95	Sep. 95	Dec. 95	Feb. 96	Mar. 96	Oct. 96	Apr. 97	Oct. 97	Apr. 98	Oct. 98	Mar. 99	Oct. 99	Apr. 00	Oct. 00	Apr. 01	Oct. 01
INORGANICS (mg/l)																			
Antimony						NA	NA												
Arsenic						NA	NA												
Barium	0.035	0.03	0.025	0.029		NA	NA				0.032		0.2		0.036				
Beryllium						NA	NA												
Cadmium						NA	NA												
Chromium				0.002		NA	NA												
Cobalt						NA	NA												
Copper	0.009	0.005	0.007	0.005		NA	NA												
Lead	0.003					NA	NA												
Nickel						NA	NA												
Selenium						NA	NA												
Silver						NA	NA												
Vanadium						NA	NA												
Zinc	0.013	0.005	0.009	0.01		NA	NA				0.026		0.1						
ORGANICS (ug/l)																			
Benzene						NA	NA												
Chloromethane						NA	NA												
cis-1,2 Dichloroethene					11	NA	NA												
Ethylbenzene					14	NA	NA												
Toluene					14	NA	NA								5.6				
Vinyl chloride						NA	NA												
Xylenes					20	NA	NA												

NOTES		
		- indicates concentrations exceeding NCGS
	"NE"	- not established
	"NT"	- not tested
	"NA"	- not applicable
	*	-denotes an Appendix II constituent not included in Appendix I

Groundwater Monitoring Point Data
Surface Water Monitoring Point 3 (SWPT3)
Set 3 - Downgradient Point
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT																
SAMPLE DATE	Apr. 02	Oct. 02	Apr. 03	Oct. 03	Apr. 04	Oct. 04	Apr. 05	Oct. 05	Apr. 06	Oct. 06	May 07	Oct. 07	Apr. 08	Oct. 08	Apr. 09	Oct. 09
INORGANICS (mg/l)																
Antimony												NA				
Arsenic												NA		0.011		
Barium												NA		0.118		
Beryllium												NA				
Cadmium												NA				
Chromium												NA				
Cobalt		0.30										NA				
Copper												NA				
Lead												NA				
Nickel												NA				
Selenium												NA				
Silver												NA				
Vanadium												NA				
Zinc					0.366							NA	0.016	0.028		
ORGANICS (ug/l)																
Benzene												NA				
Chloromethane												NA				
cis-1,2 Dichloroethene												NA				
Ethylbenzene												NA				
Toluene												NA		3.5		
Vinyl chloride												NA				
Xylenes												NA				
NOTES																

Groundwater Monitoring Point Data
Surface Water Monitoring Point 3 (SWPT3)
Set 3 - Downgradient Point
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT							SWPT3 Detects		NCGS
SAMPLE DATE	Apr. 10	Oct. 10	Apr. 11	Oct. 11	Apr. 12	Oct. 12	detect#	detect%	
INORGANICS (mg/l)									(mg/l)
Antimony							0	0%	0.001**
Arsenic							2	5%	0.01
Barium				0.124			9	24%	0.7
Beryllium							0	0%	0.004**
Cadmium							2	5%	0.002
Chromium							2	5%	0.01
Cobalt							2	5%	0.001**
Copper							4	11%	1
Lead							2	5%	0.015
Nickel							0	0%	0.1
Selenium							0	0%	0.02
Silver							0	0%	0.02
Vanadium							0	0%	0.0003**
Zinc		0.01	0.01	0.023	0.015		13	34%	1
ORGANICS (ug/l)									(ug/l)
Benzene							1	3%	1
Chloromethane							0	0%	3
cis-1,2 Dichloroethene							1	3%	70
Ethylbenzene							1	3%	600
Toluene							3	8%	600
Vinyl chloride							1	3%	0.03
Xylenes							1	3%	500
NOTES									
									NCGS = 2L STD or
									** 13B GWPS

Groundwater Monitoring Point Data
Surface Water Monitoring Point 4 (SWPT4)
Set 3 - Downgradient Point
Dunn-Erwin Landfill
Harnett County, North Carolina

CONSTITUENT	SWPT4						SWPT3 Detects		NCGS
SAMPLE DATE	Apr. 10	Oct. 10	Apr. 11	Oct. 11	Apr. 12	Oct. 12	detect#	detect%	
INORGANICS (mg/l)									(mg/l)
Antimony				NA			0	0%	0.001**
Arsenic				NA			0	0%	0.01
Barium				NA			0	0%	0.7
Beryllium				NA			0	0%	0.004**
Cadmium				NA			0	0%	0.002
Chromium				NA			0	0%	0.01
Cobalt				NA			0	0%	0.001**
Copper				NA			0	0%	1
Lead				NA			0	0%	0.015
Nickel				NA			0	0%	0.1
Selenium				NA			0	0%	0.02
Silver				NA			0	0%	0.02
Vanadium				NA			0	0%	0.0003**
Zinc		0.012	0.01	NA		0.014	3	60%	1
ORGANICS (ug/l)									(ug/l)
Benzene				NA			0	0%	1
Chloromethane				NA			0	0%	3
cis-1,2 Dichloroethene				NA			0	0%	70
Ethylbenzene				NA			0	0%	600
Toluene			17.3	NA		1.6	2	40%	600
Vinyl chloride				NA			0	0%	0.03
Xylenes				NA			0	0%	500
NOTES	[redacted]	- indicates concentrations exceeding NCGS							
	"NE"	- not established							NCGS =
	"NT"	- not tested							2L STD or
	"NA"	- not applicable							** 13B GWPS
	*	-denotes an Appendix II constituent not included in Appendix I							

APPENDIX D

LABORATORY RESULTS AND CHAIN OF CUSTODY FORMS

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

ID#: 6040

HARNETT CO. (DUNN/ERWIN)
GENERAL SERVICES HARNETT CO.
MR. JERRY BLANCHARD, MANAGER
900 SOUTH 9TH STREET
LILLINGTON ,NC 27546

DATE COLLECTED: 10/30/12
DATE REPORTED : 11/29/12

REVIEWED BY:

PARAMETERS	MDL	SWSL	MW-6B	MW-7B	MW-8	Trip Blank	Analysis Date	Analyst	Method Code
PH (field measurement), Units			5.9	5.7	4.5		10/30/12	RJH	4500HB-00
Cyanide, ug/l	5.0	10.0	--- U	--- U	--- U		11/02/12	SEJ	4500CNE-99
Antimony, ug/l	0.02	6.0	--- U	--- U	--- U		11/01/12	LFJ	EPA200.8
Arsenic, ug/l	0.13	10.0	1.0 J	0.62 J	--- U		11/01/12	LFJ	EPA200.8
Barium, ug/l	0.07	100.0	199	354	85.0 J		11/01/12	LFJ	EPA200.8
Beryllium, ug/l	0.07	1.0	--- U	0.11 J	0.62 J		11/01/12	LFJ	EPA200.8
Cadmium, ug/l	0.03	1.0	0.05 J	0.10 J	0.08 J		11/01/12	LFJ	EPA200.8
Cobalt, ug/l	0.02	10.0	68	27	1.3 J		11/01/12	LFJ	EPA200.8
Copper, ug/l	0.06	10.0	2.3 J	2.7 J	1.3 J		11/01/12	LFJ	EPA200.8
Total Chromium, ug/l	0.18	10.0	1.6 J	--- U	--- U		11/01/12	LFJ	EPA200.8
Lead, ug/l	0.08	10.0	4.2 J	41	1.3 J		11/01/12	LFJ	EPA200.8
Mercury, ug/l	0.02	0.20	--- U	0.18 J	0.57		11/01/12	LFJ	EPA200.8
Nickel, ug/l	0.06	50.0	2.7 J	21 J	1.9 J		11/01/12	LFJ	EPA200.8
Selenium, ug/l	0.17	10.0	--- U	0.18 J	0.38 J		11/01/12	LFJ	EPA200.8
Silver, ug/l	0.10	10.0	--- U	--- U	--- U		11/01/12	LFJ	EPA200.8
Thallium, ug/l	0.07	5.5	0.92 J	1.2 J	--- U		11/01/12	LFJ	EPA200.8
Tin, ug/l	0.10	100.0	0.25 J	0.64 J	0.25 J		11/01/12	LFJ	EPA200.8
Vanadium, ug/l	0.10	25.0	6.0 J	0.88 J	1.2 J		11/01/12	LFJ	EPA200.8
Zinc, ug/l	0.48	10.0	5.7 J	6.2 J	6.6 J		11/01/12	LFJ	EPA200.8
Turbidity, NTU	1.0	1.0	160	45	7.0		11/01/12	HLB	2130B-01
Sulfide, ug/l	100	1000	--- U	--- U	--- U		10/30/12	LFJ	4500S2D-00
Conductivity (at 25c), uMhos/cm	1.0	1.0	287	269	99		10/30/12	RJH	2510B-97
Temperature, °C			20	18	19		10/30/12	RJH	2550B-00
Static Water Level, feet			17.45	25.99	16.81		10/30/12	RJH	
Well Depth, feet			23.11	30.23	25.22		10/30/12	RJH	
Water Bailed, Gals.			2.4	2.1	3.9		10/30/12	RJH	

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

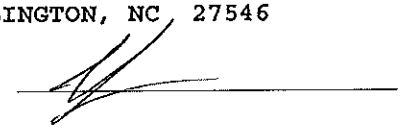
Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: HARNETT CO. (DUNN/ERWIN)
GENERAL SERVICES HARNETT CO.
MR. JERRY BLANCHARD, MANAGER
900 SOUTH 9TH STREET
LILLINGTON, NC 27546

REVIEWED BY: 

CLIENT ID: 6040

ANALYST: CHS
DATE COLLECTED: 10/30/12
DATE EXTRACTED: 11/02/12
DATE ANALYZED: 11/09/12
DATE REPORTED: 11/29/12

PESTICIDES AND PCB'S
EPA METHOD 8081B R2(07)

PARAMETERS, ug/l	MDL	SWSL	MW-6B	MW-7B	MW-8
1. Aldrin	0.029	0.05	--- U	--- U	--- U
2. Alpha-BHC	0.032	0.05	--- U	--- U	--- U
3. Beta-BHC	0.031	0.05	--- U	--- U	--- U
4. Delta-BHC	0.030	0.05	--- U	--- U	--- U
5. Gamma-BHC (Lindane)	0.032	0.05	--- U	--- U	--- U
6. Chlordane	0.320	0.50	--- U	--- U	--- U
7. 4,4-DDD	0.051	0.10	--- U	--- U	--- U
8. 4,4-DDE	0.049	0.10	--- U	--- U	--- U
9. 4,4-DDT	0.052	0.10	--- U	--- U	--- U
10. Dieldrin	0.042	0.075	--- U	--- U	--- U
11. Endosulfan I	0.056	0.10	--- U	--- U	--- U
12. Endosulfan II	0.046	0.10	--- U	--- U	--- U
13. Endosulfan Sulfate	0.072	0.10	--- U	--- U	--- U
14. Endrin	0.053	0.10	--- U	--- U	--- U
15. Endrin Aldehyde	0.068	0.10	--- U	--- U	--- U
16. Heptachlor	0.039	0.05	--- U	--- U	--- U
17. Heptachlor Epoxide	0.042	0.075	--- U	--- U	--- U
18. Methoxychlor	0.530	1.00	--- U	--- U	--- U
19. Pcb's (Aroclors)	0.500	2.00	--- U	--- U	--- U
20. Toxaphene	0.690	1.50	--- U	--- U	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: HARNETT CO. (DUNN/ERWIN)
GENERAL SERVICES HARNETT CO.
MR. JERRY BLANCHARD, MANAGER
900 SOUTH 9TH STREET
LILLINGTON, NC 27546

REVIEWED BY:

CLIENT ID: 6040

ANALYST: CHS
DATE COLLECTED: 10/30/12
DATE EXTRACTED: 11/05/12
DATE ANALYZED: 11/28/12
DATE REPORTED: 11/29/12

LANDFILL APPENDIX II
EPA METHOD 8151A R1(96)

PARAMETERS, ug/l	MDL	SWSL	MW-6B	MW-7B	MW-8
1. 2,4-D	0.36	2.0	--- U	--- U	--- U
2. Dinoseb	0.54	1.0	--- U	--- U	--- U
3. 2,4,5-TP	0.42	2.0	--- U	--- U	--- U
4. 2,4,5-T	0.47	2.0	--- U	--- U	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
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CLIENT: HARNETT CO. (DUNN/ERWIN)
GENERAL SERVICES HARNETT CO.
MR. JERRY BLANCHARD, MANAGER
900 SOUTH 9TH STREET
LILLINGTON, NC 27546

REVIEWED BY: _____

CLIENT ID: 6040

ANALYST: CHS
DATE COLLECTED: 10/30/12
DATE EXTRACTED: 11/01/12
DATE ANALYZED: 11/28/12
DATE REPORTED: 11/29/12

SEMI-VOLATILE ORGANICS
EPA METHOD 8270D R4(07)

PARAMETERS, ug/l	MDL	SWSL	MW-6B	MW-7B	MW-8
1. Acenaphthene	2.66	10.0	--- U	--- U	--- U
2. Acenaphthylene	2.60	10.0	--- U	--- U	--- U
3. Anthracene	2.97	10.0	--- U	--- U	--- U
4. Benzo[a]antrhacene	4.16	10.0	--- U	--- U	--- U
5. Benzo[b]fluoranthene	3.32	10.0	--- U	--- U	--- U
6. Benzo[k]fluoranthene	4.23	10.0	--- U	--- U	--- U
7. Benzo[g,h,i]perylene	2.61	10.0	--- U	--- U	--- U
8. Benzo[a]pyrene	3.27	10.0	--- U	--- U	--- U
9. 4-Bromophenyl Phenyl Ether	2.63	10.0	--- U	--- U	--- U
10. Butyl Benzyl Phthalate	5.78	10.0	--- U	--- U	--- U
11. Bis-(2-Chloroethoxy) Methane	3.14	10.0	--- U	--- U	--- U
12. Bis-(2-Chloroethyl) Ether	2.58	10.0	--- U	--- U	--- U
13. Bis-(2-Chloroisopropyl) Ether	2.58	10.0	--- U	--- U	--- U
14. 2-Chloronaphthalene	2.17	10.0	--- U	--- U	--- U
15. 4-Chlorophenyl Phenyl Ether	2.42	10.0	--- U	--- U	--- U
16. Chrysene	4.04	10.0	--- U	--- U	--- U
17. Dibenzo[a,h]anthracene	2.78	10.0	--- U	--- U	--- U
18. Di-N-Butyl Phthalate	3.09	10.0	--- U	--- U	--- U
19. Dimethyl Phthalate	3.78	10.0	--- U	--- U	--- U
20. Diethyl Phthalate	3.92	10.0	--- U	--- U	--- U
21. 2,4-Dinitrotoluene	3.95	10.0	--- U	--- U	--- U
22. 2,6-Dinitrotoluene	3.88	10.0	--- U	--- U	--- U
23. Di-N-Octyl Phthalate	2.81	10.0	--- U	--- U	--- U
24. Bis-(2-Ethylhexyl) Phthalate	9.97	15.0	39.60	28.50	91.40
25. Fluoranthene	3.92	10.0	--- U	--- U	--- U
26. Fluorene	2.95	10.0	--- U	--- U	--- U
27. Hexachlorobenzene	2.61	10.0	--- U	--- U	--- U
28. Hexachlorocyclopentadiene	4.16	10.0	--- U	--- U	--- U
29. Indeno[1,2,3-Cd]pyrene	2.91	10.0	--- U	--- U	--- U
30. Isophorone	3.74	10.0	--- U	--- U	--- U
31. Nitrobenzene	2.85	10.0	--- U	--- U	--- U
32. N-Nitrosodimethylamine	4.25	10.0	--- U	--- U	--- U
33. N-Nitrosodiphenylamine	3.95	10.0	--- U	--- U	--- U
34. N-Nitrosodi-N-Propylamine	4.06	10.0	--- U	--- U	--- U
35. Phenanthrene	3.24	10.0	--- U	--- U	--- U
36. Pyrene	3.63	10.0	--- U	--- U	--- U
37. 4-Chloro-3-Methylphenol	3.79	20.0	--- U	--- U	--- U
38. 2-Chlorophenol	2.75	10.0	--- U	--- U	--- U
39. O-Cresol	3.68	10.0	--- U	--- U	--- U
40. P-Cresol	4.12	10.0	--- U	--- U	--- U
41. 2,4-Dichlorophenol	5.19	10.0	--- U	--- U	--- U
42. 2,6-Dichlorophenol	4.89	10.0	--- U	--- U	--- U
43. 2,4-Dimethylphenol	3.21	10.0	--- U	--- U	--- U
44. 4,6-Dinitro-2-Methylphenol	4.77	50.0	--- U	--- U	--- U
45. 2,4-Dinitrophenol	4.37	50.0	--- U	--- U	--- U
46. Ethyl Methanesulfonate	5.26	20.0	--- U	--- U	--- U
47. Methyl Methanesulfonate	4.92	10.0	--- U	--- U	--- U
48. 2-Nitrophenol	3.64	10.0	--- U	--- U	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: HARNETT CO. (DUNN/ERWIN)
GENERAL SERVICES HARNETT CO.
MR. JERRY BLANCHARD, MANAGER
900 SOUTH 9TH STREET
LILLINGTON, NC 27546

REVIEWED BY: _____

CLIENT ID: 6040

ANALYST: CHS
DATE COLLECTED: 10/30/12
DATE EXTRACTED: 11/01/12
DATE ANALYZED: 11/28/12
DATE REPORTED: 11/29/12

SEMI-VOLATILE ORGANICS
EPA METHOD 8270D R4(07)

PARAMETERS, ug/l	MDL	SWSL	MW-6B	MW-7B	MW-8
49. 4-Nitrophenol	3.17	50.0	--- U	--- U	--- U
50. Pentachlorophenol	5.33	25.0	--- U	--- U	--- U
51. Phenol	1.86	10.0	--- U	--- U	--- U
52. 2,3,4,6-Tetrachlorophenol	3.12	10.0	--- U	--- U	--- U
53. 2,4,5-Trichlorophenol	4.17	10.0	--- U	--- U	--- U
54. 2,4,6-Trichlorophenol	3.84	10.0	--- U	--- U	--- U
55. Acetophenone	2.89	10.0	--- U	--- U	--- U
56. 2-Acetylaminofluorene	3.98	20.0	--- U	--- U	--- U
57. 4-Aminobiphenyl	4.12	20.0	--- U	--- U	--- U
58. Benzyl Alcohol	4.47	20.0	--- U	--- U	--- U
59. 4-Chloroaniline	3.36	20.0	--- U	--- U	--- U
60. Chlorobenzilate	5.12	10.0	--- U	--- U	--- U
61. Diallate	2.98	10.0	--- U	--- U	--- U
62. Dibenzofuran	4.28	10.0	--- U	--- U	--- U
63. 3,3-Dichlorobenzidine	4.22	20.0	--- U	--- U	--- U
64. Dimethoate	3.98	20.0	--- U	--- U	--- U
65. P-Dimethylaminoazobenzene	2.89	10.0	--- U	--- U	--- U
66. 7,12-Dimethylbenz[a]anthracene	5.26	10.0	--- U	--- U	--- U
67. 3,3-Dimethylbenzadine	3.21	10.0	--- U	--- U	--- U
68. 1,3-Dinitrobenzene	2.89	20.0	--- U	--- U	--- U
69. Diphenylamine	5.10	10.0	--- U	--- U	--- U
70. Disulfoton	4.28	10.0	--- U	--- U	--- U
71. Famphur	3.98	20.0	--- U	--- U	--- U
72. Hexachloropropene	4.31	10.0	--- U	--- U	--- U
73. Isosafrole	2.88	10.0	--- U	--- U	--- U
74. Kepone	2.78	20.0	--- U	--- U	--- U
75. Methapyrilene	3.54	100.0	--- U	--- U	--- U
76. 3-Methylchloroanthrene	4.21	10.0	--- U	--- U	--- U
77. 2-Methylnaphthalene	3.79	10.0	--- U	--- U	--- U
78. Methyl Parathion	4.32	10.0	--- U	--- U	--- U
79. m-Cresol	3.81	10.0	--- U	--- U	--- U
80. 1,4-Naphthoquinone	4.00	10.0	--- U	--- U	--- U
81. 1-Naphthylamine	5.61	10.0	--- U	--- U	--- U
82. 2-Naphthylamine	4.62	10.0	--- U	--- U	--- U
83. 2-Nitroaniline	3.61	50.0	--- U	--- U	--- U
84. 3-Nitroaniline	4.81	50.0	--- U	--- U	--- U
85. 4-Nitroaniline	4.22	20.0	--- U	--- U	--- U
86. 5-Nitro-O-Toluidine	4.01	10.0	--- U	--- U	--- U
87. N-Nitrosodi-n-butylamine	3.63	10.0	--- U	--- U	--- U
88. N-Nitrosodiethylamine	3.83	20.0	--- U	--- U	--- U
89. N-Nitrosomethylethylamine	3.83	10.0	--- U	--- U	--- U
90. N-Nitrosopiperidine	5.19	20.0	--- U	--- U	--- U
91. N-Nitrosopyrrolidine	2.89	10.0	--- U	--- U	--- U
92. Parathion	3.12	10.0	--- U	--- U	--- U
93. Pentachlorobenzene	3.92	10.0	--- U	--- U	--- U
94. Pentachloronitrobenzene	3.71	20.0	--- U	--- U	--- U
95. Phenacetin	4.41	20.0	--- U	--- U	--- U
96. 1,4 Benzenediamine	2.99	10.0	--- U	--- U	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: HARNETT CO. (DUNN/ERWIN)
GENERAL SERVICES HARNETT CO.
MR. JERRY BLANCHARD, MANAGER
900 SOUTH 9TH STREET
LILLINGTON, NC 27546

REVIEWED BY: _____

CLIENT ID: 6040

ANALYST: CHS
DATE COLLECTED: 10/30/12
DATE EXTRACTED: 11/01/12
DATE ANALYZED: 11/28/12
DATE REPORTED: 11/29/12

SEMI-VOLATILE ORGANICS
EPA METHOD 8270D R4(07)

PARAMETERS, ug/l	MDL	SWSL	MW-6B	MW-7B	MW-8
97. Phorate	3.86	10.0	--- U	--- U	--- U
98. Pronamide	3.69	10.0	--- U	--- U	--- U
99. Safrole	4.12	10.0	--- U	--- U	--- U
100. 1,2,4,5-Tetrachlorobenzene	5.01	10.0	--- U	--- U	--- U
101. Thionazin	4.62	20.0	--- U	--- U	--- U
102. O-Toluidine	4.11	10.0	--- U	--- U	--- U
103. 1,3,5-Trinitrobenzene	3.98	10.0	--- U	--- U	--- U
104. 0,0,0-Triethyl Phosphorothioate	3.61	10.0	--- U	--- U	--- U
105. Hexachloroethane	1.49	10.0	--- U	--- U	--- U
106. Isodrin	3.11	20.0	--- U	--- U	--- U

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Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

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CLIENT: HARNETT CO. (DUNN/ERWIN)
GENERAL SERVICES HARNETT CO.
MR. JERRY BLANCHARD, MANAGER
900 SOUTH 9TH STREET
LILLINGTON, NC 27546

REVIEWED BY:

CLIENT ID: 6040

ANALYST: MAO
DATE COLLECTED: 10/30/12
DATE ANALYZED: 11/09/12
DATE REPORTED: 11/29/12

LANDFILL APPENDIX II
EPA METHOD 8260B R1(96)

PARAMETERS, ug/l	MDL	SWSL	MW-6B	MW-7B	MW-8	Trip Blank
1. Chloromethane	0.77	1.0	--- U	--- U	--- U	--- U
2. Vinyl Chloride	0.63	1.0	3.90	5.30	1.80	--- U
3. Bromomethane	0.67	10.0	--- U	--- U	--- U	--- U
4. Chloroethane	0.48	10.0	--- U	2.90 J	1.50 J	--- U
5. Trichlorofluoromethane	0.24	1.0	--- U	0.30 J	--- U	--- U
6. 1,1-Dichloroethene	0.17	5.0	--- U	2.00 J	--- U	--- U
7. Acetone	9.06	100.0	--- U	16.20 J	--- U	--- U
8. Iodomethane	0.26	10.0	--- U	--- U	--- U	--- U
9. Carbon Disulfide	0.23	100.0	--- U	--- U	--- U	--- U
10. Methylene Chloride	0.64	1.0	--- U	38.50	35.20	--- U
11. trans-1,2-Dichloroethene	0.23	5.0	--- U	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.20	5.0	2.30 J	108.00	30.40	--- U
13. Vinyl Acetate	0.20	50.0	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.25	5.0	12.50	14.10	30.30	--- U
15. 2-Butanone	2.21	100.0	--- U	--- U	--- U	--- U
16. Bromochloromethane	0.27	3.0	--- U	--- U	--- U	--- U
17. Chloroform	0.25	5.0	--- U	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.19	1.0	--- U	--- U	--- U	--- U
19. Carbon Tetrachloride	0.22	1.0	--- U	--- U	--- U	--- U
20. Benzene	0.24	1.0	3.80	7.10	5.00	--- U
21. 1,2-Dichloroethane	0.21	1.0	--- U	--- U	0.30 J	--- U
22. Trichloroethene	0.23	1.0	4.00	7.30	3.90	--- U
23. 1,2-Dichloropropane	0.21	1.0	--- U	--- U	--- U	--- U
24. Bromodichloromethane	0.21	1.0	--- U	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.24	1.0	--- U	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	1.19	100.0	--- U	--- U	--- U	--- U
27. Toluene	0.23	1.0	--- U	--- U	--- U	--- U
28. trans-1,3-Dichloropropene	0.28	1.0	--- U	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.25	1.0	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.17	1.0	3.90	2.70	3.40	--- U
31. 2-Hexanone	1.57	50.0	--- U	--- U	--- U	--- U
32. Dibromochloromethane	0.24	3.0	--- U	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.26	1.0	--- U	--- U	--- U	--- U
34. Chlorobenzene	0.30	3.0	--- U	14.40	2.30 J	--- U
35. 1,1,1,2-Tetrachloroethane	0.22	5.0	--- U	--- U	--- U	--- U
36. Ethylbenzene	0.21	1.0	--- U	--- U	--- U	--- U
37. Xylenes	0.68	5.0	--- U	2.30 J	--- U	--- U
38. Dibromomethane	0.28	10.0	--- U	--- U	--- U	--- U
39. Styrene	0.19	1.0	--- U	--- U	--- U	--- U
40. Bromoform	0.20	3.0	--- U	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.26	3.0	--- U	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.43	1.0	--- U	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.39	1.0	4.80	2.60	5.10	--- U
44. 1,2-Dichlorobenzene	0.32	5.0	--- U	--- U	1.50 J	--- U
45. 1,2-Dibromo-3-Chloropropane	0.34	13.0	--- U	--- U	--- U	--- U
46. Acrylonitrile	2.72	200.0	--- U	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.42	100.0	--- U	--- U	--- U	--- U
48. Acrolein	40.57	53.0	--- U	--- U	--- U	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: HARNETT CO. (DUNN/ERWIN)
GENERAL SERVICES HARNETT CO.
MR. JERRY BLANCHARD, MANAGER
900 SOUTH 9TH STREET
LILLINGTON, NC 27546

CLIENT ID: 6040

ANALYST: MAO
DATE COLLECTED: 10/30/12
DATE ANALYZED: 11/09/12
DATE REPORTED: 11/29/12

REVIEWED BY: _____

LANDFILL APPENDIX II
EPA METHOD 8260B R1(96)

PARAMETERS, ug/l	MDL	SWSL	MW-6B	MW-7B	MW-8	Trip Blank
49. Allyl Chloride	0.20	10.0	--- U	--- U	--- U	--- U
50. Chloroprene	0.21	20.0	--- U	--- U	--- U	--- U
51. 1,3-Dichlorobenzene	0.41	5.0	--- U	--- U	--- U	--- U
52. Dichlorodifluoromethane	0.51	5.0	--- U	--- U	--- U	--- U
53. 1,3-Dichloropropane	0.28	1.0	--- U	--- U	--- U	--- U
54. 2,2-Dichloropropane	0.17	15.0	--- U	--- U	--- U	--- U
55. 1,1-Dichloropropene	0.22	5.0	--- U	--- U	--- U	--- U
56. Ethyl Methacrylate	0.16	10.0	--- U	--- U	--- U	--- U
57. Hexachlorobutadiene	0.57	10.0	--- U	--- U	--- U	--- U
58. Isobutyl Alcohol	12.80	100.0	--- U	--- U	--- U	--- U
59. Methacrylonitrile	1.93	100.0	--- U	--- U	--- U	--- U
60. Methyl Methacrylate	0.25	30.0	--- U	--- U	--- U	--- U
61. Naphthalene	0.47	10.0	--- U	--- U	--- U	--- U
62. Propionitrile	3.26	150.0	--- U	--- U	--- U	--- U
63. 1,2,4-Trichlorobenzene	0.50	10.0	--- U	--- U	--- U	--- U
64. Acetonitrile	36.29	55.0	--- U	--- U	--- U	--- U
65. Tetrahydrofuran	0.39	1.0	--- U	--- U	2.60	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Inc.
P.O. Box 7085, 114 Oakmont Dr.
Greenville, NC 27858

Phone (252) 756-6208 - Fax (252) 756-0633

CHAIN OF CUSTODY RECORD

CLIENT: 6040 Week: 43

HARNETT CO. (DUNN/ERWIN)
GENERAL SERVICES HARNETT CO.
MR. JERRY BLANCHARD, MANAGER
900 SOUTH 9TH STREET
LILLINGTON NC 27546

(919) 233-0407

DISINFECTION
- [ ] CHLORINE
- [ ] UV
- [ ] NONE
- [ ] _____

CHLORINE NEUTRALIZED AT COLLECTION		1															
pH CHECK (LAB)		>9	<2										<2	<2	<2		
CONTAINER TYPE, P/G	P	P	P	P	P	P	P		G	G	G	G	G	G	G	G	
CHEMICAL PRESERVATION	A	D	A	A	F	A	A		A	A	A	A	E	E	E	A	
PARAMETERS	Field pH	Cyanide	Metals	Turbidity	Sulfide	Conductivity	Temperature	Field Parameter	EPA 8270D	8270D Dup. 1	EPA 8081B	8081B Duplicate	8260B App. II	8260 App. II 1	8260 App. II 2	8151A Landfill	

A - NONE D - NAOH
B - HNO_3 E - HCL
C - H_2SO_4 F - ZINC ACETATE
G - NA THIOSULFATE

SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l OR ug/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	Field pH	Cyanide	Metals	Turbidity	Sulfide	Conductivity	Temperature	Field Parameter	EPA 8270D	8270D Dup. 1	EPA 8081B	8081B Duplicate	8260B App. II	8260 App. II 1	8260 App. II 2	8151A Landfill
MW-6B	10 30 12	0935		20	13	G	G	G	G	G	G	G	G	G	G	G	G	G	G		G
MW-7B	10 30 12	0940		18	13	G	G	G	G	G	G	G	G	G	G	G	G	G	G		G
MW-8	10 30 12	0905		19	14	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
~~MW-9~~					~~13~~																
~~MW-10~~					~~13~~																
~~Equipment Blank~~	~~10 30 12~~				~~11~~		G	G		G				G	G	G	G	G	G		G
Trip Blank					2																

CLASSIFICATION:
- [ ] WASTEWATER (NPDES)
- [ ] DRINKING WATER
- [ ] DWQ/GW
- [X] SOLID WASTE SECTION

CHAIN OF CUSTODY MAINTAINED DURING SHIPMENT/DELIVERY
(Y) N

SAMPLES COLLECTED BY:
(Please Print)

SAMPLES RECEIVED IN LAB AT 2.0 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
[signature]	10 30 12	[signature]	10/30/12 230
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:
MW 9 DRY
MW 10 WILL BE DONE 10-30

PLEASE READ Instructions for completing this form on the reverse side.

Sampler must place a "C" for composite sample or a "G" for Grab sample in the blocks above for each parameter requested.

No. 250825

Environment 1, Inc.
P.O. Box 7085, 114 Oakmont Dr.
Greenville, NC 27858

Phone (252) 756-0203 - Fax (252) 756-0633

CHAIN OF CUSTODY RECORD

CLIENT: 6040 Week: 43

HARNETT CO. (DUNN/ERWIN)
GENERAL SERVICES HARNETT CO.
MR. JERRY BLANCHARD, MANAGER
900 SOUTH 9TH STREET
LILLINGTON NC 27546

(919) 233-0407

DISINFECTION
- ☐ CHLORINE
- ☐ UV
- ☐ NONE
- ☐ _____

SAMPLE LOCATION	/	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l OR ug/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	G	A	8151A Duplicate
MW-6B	10	30/12	0935		20	13			
MW-7B	10	30/12	0940		18	13			
MW-8	10	30/12	0905		19	14			
MW-9						13			
MW-10						13			
Equipment Blank	10	30/12				11			
Trip Blank						2			

CHLORINE NEUTRALIZED AT COLLECTION

pH CHECK (LAB)

CONTAINER TYPE, P/G

CHEMICAL PRESERVATION

PARAMETERS

A - NONE D - NAOH
B - HNO_3 E - HCL
C - H_2SO_4 F - ZINC ACETATE
G - NA THIOSULFATE

CLASSIFICATION:
- ☐ WASTEWATER (NPDES)
- ☐ DRINKING WATER
- ☐ DWQ/GW
- ☒ SOLID WASTE SECTION

CHAIN OF CUSTODY MAINTAINED DURING SHIPMENT/DELIVERY
(Y) N

SAMPLES COLLECTED BY:
(Please Print)
N Lane / FGT

SAMPLES RECEIVED IN LAB AT 2-0 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
N Lane	10/30/12		
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
			10/30 1230
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:
MW9 DRY
MW10 WILL BE DONE 10-31

PLEASE READ Instructions for completing this form on the reverse side.

Sampler must place a "C" for composite sample or a "G" for Grab sample in the blocks above for each parameter requested.

No. 250034

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

ID#: 6040

HARNETT CO. (DUNN/ERWIN)
GENERAL SERVICES HARNETT CO.
MR. JERRY BLANCHARD, MANAGER
900 SOUTH 9TH STREET
LILLINGTON ,NC 27546

DATE COLLECTED: 10/31/12
DATE REPORTED : 11/29/12

REVIEWED BY:

PARAMETERS	MDL	SWSL	MW-10	Analysis Date	Analyst	Method Code
PH (field measurement), Units			5.8	10/31/12	RJH	4500HB-00
Cyanide, ug/l	5.0	10.0	--- U	11/02/12	SEJ	4500CNE-99
Antimony, ug/l	0.02	6.0	0.41 J	11/05/12	LFJ	EPA200.8
Arsenic, ug/l	0.13	10.0	7 J	11/05/12	LFJ	EPA200.8
Barium, ug/l	0.07	100.0	88.3 J	11/05/12	LFJ	EPA200.8
Beryllium, ug/l	0.07	1.0	0.42 J	11/05/12	LFJ	EPA200.8
Cadmium, ug/l	0.03	1.0	0.61 J	11/07/12	LFJ	EPA200.8
Cobalt, ug/l	0.02	10.0	1.2 J	11/05/12	LFJ	EPA200.8
Copper, ug/l	0.06	10.0	15	11/05/12	LFJ	EPA200.8
Total Chromium, ug/l	0.18	10.0	5.8 J	11/05/12	LFJ	EPA200.8
Lead, ug/l	0.08	10.0	9.3 J	11/05/12	LFJ	EPA200.8
Mercury, ug/l	0.02	0.20	0.29	11/05/12	LFJ	EPA200.8
Nickel, ug/l	0.06	50.0	2.8 J	11/05/12	LFJ	EPA200.8
Selenium, ug/l	0.17	10.0	0.37 J	11/05/12	LFJ	EPA200.8
Silver, ug/l	0.10	10.0	--- U	11/05/12	LFJ	EPA200.8
Thallium, ug/l	0.07	5.5	--- U	11/07/12	LFJ	EPA200.8
Tin, ug/l	0.10	100.0	0.45 J	11/07/12	LFJ	EPA200.8
Vanadium, ug/l	0.10	25.0	12.9 J	11/05/12	LFJ	EPA200.8
Zinc, ug/l	0.48	10.0	17	11/05/12	LFJ	EPA200.8
Turbidity, NTU	1.0	1.0	160	11/01/12	HLB	2130B-01
Sulfide, ug/l	100	1000	--- U	11/06/12	LFJ	4500S2D-00
Conductivity (at 25c), uMhos/cm	1.0	1.0	170	10/31/12	RJH	2510B-97
Temperature, °C			18	10/31/12	RJH	2550B-00
Static Water Level, feet			12.48	10/31/12	RJH	
Well Depth, feet			16.56	10/31/12	RJH	
Water Bailed, Gals.			2.1	10/31/12	RJH	

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
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CLIENT: HARNETT CO. (DUNN/ERWIN)
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900 SOUTH 9TH STREET
LILLINGTON, NC 27546

REVIEWED BY: _____

CLIENT ID: 6040

ANALYST: CHS
DATE COLLECTED: 10/31/12
DATE EXTRACTED: 11/02/12
DATE ANALYZED: 11/09/12
DATE REPORTED: 11/29/12

PESTICIDES AND PCB'S
EPA METHOD 8081B R2(07)

PARAMETERS, ug/l	MDL	SWSL	MW-10
1. Aldrin	0.029	0.05	--- U
2. Alpha-BHC	0.032	0.05	--- U
3. Beta-BHC	0.031	0.05	--- U
4. Delta-BHC	0.030	0.05	--- U
5. Gamma-BHC (Lindane)	0.032	0.05	--- U
6. Chlordane	0.320	0.50	--- U
7. 4,4-DDD	0.051	0.10	--- U
8. 4,4-DDE	0.049	0.10	--- U
9. 4,4-DDT	0.052	0.10	--- U
10. Dieldrin	0.042	0.075	--- U
11. Endosulfan I	0.056	0.10	--- U
12. Endosulfan II	0.046	0.10	--- U
13. Endosulfan Sulfate	0.072	0.10	--- U
14. Endrin	0.053	0.10	--- U
15. Endrin Aldehyde	0.068	0.10	--- U
16. Heptachlor	0.039	0.05	--- U
17. Heptachlor Epoxide	0.042	0.075	--- U
18. Methoxychlor	0.530	1.00	--- U
19. Pcb's (Aroclors)	0.500	2.00	--- U
20. Toxaphene	0.690	1.50	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: HARNETT CO. (DUNN/ERWIN)
GENERAL SERVICES HARNETT CO.
MR. JERRY BLANCHARD, MANAGER
900 SOUTH 9TH STREET
LILLINGTON, NC 27546

REVIEWED BY:

CLIENT ID: 6040

ANALYST: CHS
DATE COLLECTED: 10/31/12
DATE EXTRACTED: 11/05/12
DATE ANALYZED: 11/28/12
DATE REPORTED: 11/29/12

LANDFILL APPENDIX II
EPA METHOD 8151A R1(96)

PARAMETERS, ug/l	MDL	SWSL	MW-10
1. 2,4-D	0.36	2.0	0.66 J
2. Dinoseb	0.54	1.0	--- U
3. 2,4,5-TP	0.42	2.0	--- U
4. 2,4,5-T	0.47	2.0	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

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CLIENT: HARNETT CO. (DUNN/ERWIN)
GENERAL SERVICES HARNETT CO.
MR. JERRY BLANCHARD, MANAGER
900 SOUTH 9TH STREET
LILLINGTON, NC 27546

REVIEWED BY: _____

CLIENT ID: 6040

ANALYST: CHS
DATE COLLECTED: 10/31/12
DATE EXTRACTED: 11/01/12
DATE ANALYZED: 11/28/12
DATE REPORTED: 11/29/12

SEMI-VOLATILE ORGANICS
EPA METHOD 8270D R4(07)

PARAMETERS, ug/l	MDL	SWSL	MW-10
1. Acenaphthene	2.66	10.0	--- U
2. Acenaphthylene	2.60	10.0	--- U
3. Anthracene	2.97	10.0	--- U
4. Benzo[a]antrhacene	4.16	10.0	--- U
5. Benzo[b]fluoranthene	3.32	10.0	--- U
6. Benzo[k]fluoranthene	4.23	10.0	--- U
7. Benzo[g,h,i]perylene	2.61	10.0	--- U
8. Benzo[a]pyrene	3.27	10.0	--- U
9. 4-Bromophenyl Phenyl Ether	2.63	10.0	--- U
10. Butyl Benzyl Phthalate	5.78	10.0	--- U
11. Bis-(2-Chloroethoxy) Methane	3.14	10.0	--- U
12. Bis-(2-Chloroethyl) Ether	2.58	10.0	--- U
13. Bis-(2-Chloroisopropyl) Ether	2.58	10.0	--- U
14. 2-Chloronaphthalene	2.17	10.0	--- U
15. 4-Chlorophenyl Phenyl Ether	2.42	10.0	--- U
16. Chrysene	4.04	10.0	--- U
17. Dibenzo[a,h]anthracene	2.78	10.0	--- U
18. Di-N-Butyl Phthalate	3.09	10.0	--- U
19. Dimethyl Phthalate	3.78	10.0	--- U
20. Diethyl Phthalate	3.92	10.0	--- U
21. 2,4-Dinitrotoluene	3.95	10.0	--- U
22. 2,6-Dinitrotoluene	3.88	10.0	--- U
23. Di-N-Octyl Phthalate	2.81	10.0	--- U
24. Bis-(2-Ethylhexyl) Phthalate	9.97	15.0	41.00
25. Fluoranthene	3.92	10.0	--- U
26. Fluorene	2.95	10.0	--- U
27. Hexachlorobenzene	2.61	10.0	--- U
28. Hexachlorocyclopentadiene	4.16	10.0	--- U
29. Indeno[1,2,3-Cd]pyrene	2.91	10.0	--- U
30. Isophorone	3.74	10.0	--- U
31. Nitrobenzene	2.85	10.0	--- U
32. N-Nitrosodimethylamine	4.25	10.0	--- U
33. N-Nitrosodiphenylamine	3.95	10.0	--- U
34. N-Nitrosodi-N-Propylamine	4.06	10.0	--- U
35. Phenanthrene	3.24	10.0	--- U
36. Pyrene	3.63	10.0	--- U
37. 4-Chloro-3-Methylphenol	3.79	20.0	--- U
38. 2-Chlorophenol	2.75	10.0	--- U
39. O-Cresol	3.68	10.0	--- U
40. P-Cresol	4.12	10.0	--- U
41. 2,4-Dichlorophenol	5.19	10.0	--- U
42. 2,6-Dichlorophenol	4.89	10.0	--- U
43. 2,4-Dimethylphenol	3.21	10.0	--- U
44. 4,6-Dinitro-2-Methylphenol	4.77	50.0	--- U
45. 2,4-Dinitrophenol	4.37	50.0	--- U
46. Ethyl Methanesulfonate	5.26	20.0	--- U
47. Methyl Methanesulfonate	4.92	10.0	--- U
48. 2-Nitrophenol	3.64	10.0	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: HARNETT CO. (DUNN/ERWIN)
GENERAL SERVICES HARNETT CO.
MR. JERRY BLANCHARD, MANAGER
900 SOUTH 9TH STREET
LILLINGTON, NC 27546

REVIEWED BY: _____

CLIENT ID: 6040

ANALYST: CHS
DATE COLLECTED: 10/31/12
DATE EXTRACTED: 11/01/12
DATE ANALYZED: 11/28/12
DATE REPORTED: 11/29/12

SEMI-VOLATILE ORGANICS
EPA METHOD 8270D R4(07)

PARAMETERS, ug/l	MDL	SWSL	MW-10
49. 4-Nitrophenol	3.17	50.0	--- U
50. Pentachlorophenol	5.33	25.0	--- U
51. Phenol	1.86	10.0	--- U
52. 2,3,4,6-Tetrachlorophenol	3.12	10.0	--- U
53. 2,4,5-Trichlorophenol	4.17	10.0	--- U
54. 2,4,6-Trichlorophenol	3.84	10.0	--- U
55. Acetophenone	2.89	10.0	--- U
56. 2-Acetylaminofluorene	3.98	20.0	--- U
57. 4-Aminobiphenyl	4.12	20.0	--- U
58. Benzyl Alcohol	4.47	20.0	--- U
59. 4-Chloroaniline	3.36	20.0	--- U
60. Chlorobenzilate	5.12	10.0	--- U
61. Diallate	2.98	10.0	--- U
62. Dibenzofuran	4.28	10.0	--- U
63. 3,3-Dichlorobenzidine	4.22	20.0	--- U
64. Dimethoate	3.98	20.0	--- U
65. P-Dimethylaminoazobenzene	2.89	10.0	--- U
66. 7,12-Dimethylbenz[a]anthracene	5.26	10.0	--- U
67. 3,3-Dimethylbenzadine	3.21	10.0	--- U
68. 1,3-Dinitrobenzene	2.89	20.0	--- U
69. Diphenylamine	5.10	10.0	--- U
70. Disulfoton	4.28	10.0	--- U
71. Famphur	3.98	20.0	--- U
72. Hexachloropropene	4.31	10.0	--- U
73. Isosafrole	2.88	10.0	--- U
74. Kepone	2.78	20.0	--- U
75. Methapyrilene	3.54	100.0	--- U
76. 3-Methylchloroanthrene	4.21	10.0	--- U
77. 2-Methylnaphthalene	3.79	10.0	--- U
78. Methyl Parathion	4.32	10.0	--- U
79. m-Cresol	3.81	10.0	--- U
80. 1,4-Naphthoquinone	4.00	10.0	--- U
81. 1-Naphthylamine	5.61	10.0	--- U
82. 2-Naphthylamine	4.62	10.0	--- U
83. 2-Nitroaniline	3.61	50.0	--- U
84. 3-Nitroaniline	4.81	50.0	--- U
85. 4-Nitroaniline	4.22	20.0	--- U
86. 5-Nitro-O-Toluidine	4.01	10.0	--- U
87. N-Nitrosodi-n-butylamine	3.63	10.0	--- U
88. N-Nitrosodiethylamine	3.83	20.0	--- U
89. N-Nitrosomethylethylamine	3.83	10.0	--- U
90. N-Nitrosopiperidine	5.19	20.0	--- U
91. N-Nitrosopyrrolidine	2.89	10.0	--- U
92. Parathion	3.12	10.0	--- U
93. Pentachlorobenzene	3.92	10.0	--- U
94. Pentachloronitrobenzene	3.71	20.0	--- U
95. Phenacetin	4.41	20.0	--- U
96. 1,4 Benzenediamine	2.99	10.0	--- U

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Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: HARNETT CO. (DUNN/ERWIN)
GENERAL SERVICES HARNETT CO.
MR. JERRY BLANCHARD, MANAGER
900 SOUTH 9TH STREET
LILLINGTON, NC 27546

REVIEWED BY: _____

CLIENT ID: 6040

ANALYST: CHS
DATE COLLECTED: 10/31/12
DATE EXTRACTED: 11/01/12
DATE ANALYZED: 11/28/12
DATE REPORTED: 11/29/12

SEMI-VOLATILE ORGANICS
EPA METHOD 8270D R4(07)

PARAMETERS, ug/l	MDL	SWSL	MW-10
97. Phorate	3.86	10.0	--- U
98. Pronamide	3.69	10.0	--- U
99. Safrole	4.12	10.0	--- U
100. 1,2,4,5-Tetrachlorobenzene	5.01	10.0	--- U
101. Thionazin	4.62	20.0	--- U
102. O-Toluidine	4.11	10.0	--- U
103. 1,3,5-Trinitrobenzene	3.98	10.0	--- U
104. 0,0,0-Triethyl Phosphorothioate	3.61	10.0	--- U
105. Hexachloroethane	1.49	10.0	--- U
106. Isodrin	3.11	20.0	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
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CLIENT: HARNETT CO. (DUNN/ERWIN)
GENERAL SERVICES HARNETT CO.
MR. JERRY BLANCHARD, MANAGER
900 SOUTH 9TH STREET
LILLINGTON, NC 27546

CLIENT ID: 6040

ANALYST: MAO
DATE COLLECTED: 10/31/12
DATE ANALYZED: 11/09/12
DATE REPORTED: 11/29/12

REVIEWED BY: _____

LANDFILL APPENDIX II
EPA METHOD 8260B R1(96)

PARAMETERS, ug/l	MDL	SWSL	MW-10
1. Chloromethane	0.77	1.0	--- U
2. Vinyl Chloride	0.63	1.0	1.00
3. Bromomethane	0.67	10.0	--- U
4. Chloroethane	0.48	10.0	--- U
5. Trichlorofluoromethane	0.24	1.0	--- U
6. 1,1-Dichloroethene	0.17	5.0	--- U
7. Acetone	9.06	100.0	--- U
8. Iodomethane	0.26	10.0	--- U
9. Carbon Disulfide	0.23	100.0	--- U
10. Methylene Chloride	0.64	1.0	--- U
11. trans-1,2-Dichloroethene	0.23	5.0	--- U
12. 1,1-Dichloroethane	0.20	5.0	5.40
13. Vinyl Acetate	0.20	50.0	--- U
14. Cis-1,2-Dichloroethene	0.25	5.0	3.90 J
15. 2-Butanone	2.21	100.0	--- U
16. Bromochloromethane	0.27	3.0	--- U
17. Chloroform	0.25	5.0	--- U
18. 1,1,1-Trichloroethane	0.19	1.0	--- U
19. Carbon Tetrachloride	0.22	1.0	--- U
20. Benzene	0.24	1.0	1.00
21. 1,2-Dichloroethane	0.21	1.0	--- U
22. Trichloroethene	0.23	1.0	0.60 J
23. 1,2-Dichloropropane	0.21	1.0	--- U
24. Bromodichloromethane	0.21	1.0	--- U
25. Cis-1,3-Dichloropropene	0.24	1.0	--- U
26. 4-Methyl-2-Pentanone	1.19	100.0	--- U
27. Toluene	0.23	1.0	--- U
28. trans-1,3-Dichloropropene	0.28	1.0	--- U
29. 1,1,2-Trichloroethane	0.25	1.0	--- U
30. Tetrachloroethene	0.17	1.0	0.50 J
31. 2-Hexanone	1.57	50.0	--- U
32. Dibromochloromethane	0.24	3.0	--- U
33. 1,2-Dibromoethane	0.26	1.0	--- U
34. Chlorobenzene	0.30	3.0	1.00 J
35. 1,1,1,2-Tetrachloroethane	0.22	5.0	--- U
36. Ethylbenzene	0.21	1.0	--- U
37. Xylenes	0.68	5.0	--- U
38. Dibromomethane	0.28	10.0	--- U
39. Styrene	0.19	1.0	--- U
40. Bromoform	0.20	3.0	--- U
41. 1,1,2,2-Tetrachloroethane	0.26	3.0	--- U
42. 1,2,3-Trichloropropane	0.43	1.0	--- U
43. 1,4-Dichlorobenzene	0.39	1.0	0.90 J
44. 1,2-Dichlorobenzene	0.32	5.0	--- U
45. 1,2-Dibromo-3-Chloropropane	0.34	13.0	--- U
46. Acrylonitrile	2.72	200.0	--- U
47. trans-1,4-Dichloro-2-Butene	0.42	100.0	--- U
48. Acrolein	40.57	53.0	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: HARNETT CO. (DUNN/ERWIN)
GENERAL SERVICES HARNETT CO.
MR. JERRY BLANCHARD, MANAGER
900 SOUTH 9TH STREET
LILLINGTON, NC 27546

CLIENT ID: 6040

ANALYST: MAO
DATE COLLECTED: 10/31/12
DATE ANALYZED: 11/09/12
DATE REPORTED: 11/29/12

REVIEWED BY:

LANDFILL APPENDIX II
EPA METHOD 8260B R1(96)

PARAMETERS, ug/l	MDL	SWSL	MW-10
49. Allyl Chloride	0.20	10.0	--- U
50. Chloroprene	0.21	20.0	--- U
51. 1,3-Dichlorobenzene	0.41	5.0	--- U
52. Dichlorodifluoromethane	0.51	5.0	--- U
53. 1,3-Dichloropropane	0.28	1.0	--- U
54. 2,2-Dichloropropane	0.17	15.0	--- U
55. 1,1-Dichloropropene	0.22	5.0	--- U
56. Ethyl Methacrylate	0.16	10.0	--- U
57. Hexachlorobutadiene	0.57	10.0	--- U
58. Isobutyl Alcohol	12.80	100.0	--- U
59. Methacrylonitrile	1.93	100.0	--- U
60. Methyl Methacrylate	0.25	30.0	--- U
61. Naphthalene	0.47	10.0	--- U
62. Propionitrile	3.26	150.0	--- U
63. 1,2,4-Trichlorobenzene	0.50	10.0	--- U
64. Acetonitrile	36.29	55.0	--- U
65. Tetrahydrofuran	0.39	1.0	--- U

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Environment 1, Inc.
P.O. Box 7085, 114 Oakmont Dr.
Greenville, NC 27858

Phone (252) 756-6208 • Fax (252) 756-0633

CHAIN OF CUSTODY RECORD

CLIENT: 6040 Week: 43

HARNETT CO. (DUNN/ERWIN)
GENERAL SERVICES HARNETT CO.
MR. JERRY BLANCHARD, MANAGER
900 SOUTH 9TH STREET
LILLINGTON NC 27546

(919) 233-0407

DISINFECTION
- [ ] CHLORINE
- [ ] UV
- [ ] NONE
- [ ] _____

CHLORINE NEUTRALIZED AT COLLECTION																						
pH CHECK (LAB)																						
CONTAINER TYPE, P/G																						
CHEMICAL PRESERVATION																						
SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l OR ug/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	Field pH	Cyanide	Metals	Turbidity	Sulfide	Conductivity	Temperature	Field Parameter	EPA 8270D	8270D Dup. 1	EPA 8081B	8081B Duplicate	8260B App. II	8260 App. II 1	8260 App. II 2	8151A Landfill	PARAMETERS
~~MW-6B~~					~~13~~																	
~~MW-7B~~					~~13~~																	
~~MW-8~~					~~14~~																	
~~MW-9~~					~~13~~																	
MW-10	10 31 12	0945		18	13	G	G	G	G	G	G	G	G	G	G	G	G	G	G		G	
~~Equipment Blank~~					~~11~~																	
Trip Blank					2																	

A - NONE D - NAOH
B - HNO_3 E - HCL
C - H_2SO_4 F - ZINC ACETATE
G - NA THIOSULFATE

CLASSIFICATION:
- [ ] WASTEWATER (NPDES)
- [ ] DRINKING WATER
- [ ] DWQ/GW
- [X] SOLID WASTE SECTION

CHAIN OF CUSTODY MAINTAINED DURING SHIPMENT/DELIVERY
(Y) N

SAMPLES COLLECTED BY: (Please Print)
H Lgoe

SAMPLES RECEIVED IN LAB AT 0.2 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bob H Lgoe	10 31 12	B [signature]	10/31/12 11:14
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:

PLEASE READ Instructions for completing this form on the reverse side.

Sampler must place a "C" for composite sample or a "G" for Grab sample in the blocks above for each parameter requested.

No 247028

Environment 1, Inc.
P.O. Box 7085, 114 Oakmont Dr.
Greenville, NC 27858

Phone (252) 756-6208 • Fax (252) 756-0633

CHAIN

CLIENT: 6040 Week: 43

HARNETT CO. (DUNN/ERWIN)
GENERAL SERVICES HARNETT CO.
MR. JERRY BLANCHARD, MANAGER
900 SOUTH 9TH STREET
LILLINGTON NC 27546

(919) 233-0407

DISINFECTION
- ☐ CHLORINE
- ☐ UV
- ☐ NONE
- ☐ _____

SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l OR ug/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	8151A Duplicate	G	A
~~MW-6B~~					13			
~~MW-7B~~					13			
~~MW-8~~					14			
~~MW-9~~					13			
MW-10	10/31/12	0945		18	13		G	
~~Equipment Blank~~					11			
Trip Blank					2			

PARAMETERS

A - NONE
B - HNO_3 E - HCL
C - H_2SO_4 F - ZINC ACETATE
G - NA THIOSULFATE

CLASSIFICATION:
- ☐ WASTEWATER (NPDES)
- ☐ DRINKING WATER
- ☐ DWQ/GW
- ☒ SOLID WASTE SECTION

CHAIN OF CUSTODY MAINTAINED DURING SHIPMENT/DELIVERY
Y N

SAMPLES COLLECTED BY: (Please Print)
N Cagle

SAMPLES RECEIVED IN LAB AT 0.2 °C

	DATE/TIME		DATE/TIME
RELINQUISHED BY (SIG.) (SAMPLER) Bob N Cagle	10/31/12	RECEIVED BY (SIG.)	10/31/12 11:14
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:

PLEASE READ Instructions for completing this form on the reverse side.

Sampler must place a "C" for composite sample or a "G" for Grab sample in the blocks above for each parameter requested.

FORM #5

No 247027

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

ID#: 6040

HARNETT CO. (DUNN/ERWIN)
GENERAL SERVICES HARNETT CO.
MR. JERRY BLANCHARD, MANAGER
900 SOUTH 9TH STREET
LILLINGTON ,NC 27546

DATE COLLECTED: 10/29/12
DATE REPORTED : 11/29/12

REVIEWED BY: _____

PARAMETERS	MDL	Equipment SWSL	Blank	Analysis Date	Analyst	Method Code
Cyanide, ug/l	5.0	10.0	--- U	11/02/12	SEJ	4500CNE-99
Antimony, ug/l	0.02	6.0	--- U	11/01/12	LFJ	EPA200.8
Arsenic, ug/l	0.13	10.0	--- U	11/01/12	LFJ	EPA200.8
Barium, ug/l	0.07	100.0	0.32 J	11/01/12	LFJ	EPA200.8
Beryllium, ug/l	0.07	1.0	--- U	11/01/12	LFJ	EPA200.8
Cadmium, ug/l	0.03	1.0	--- U	11/01/12	LFJ	EPA200.8
Cobalt, ug/l	0.02	10.0	--- U	11/01/12	LFJ	EPA200.8
Copper, ug/l	0.06	10.0	1.0 J	11/01/12	LFJ	EPA200.8
Total Chromium, ug/l	0.18	10.0	--- U	11/01/12	LFJ	EPA200.8
Lead, ug/l	0.08	10.0	--- U	11/01/12	LFJ	EPA200.8
Mercury, ug/l	0.02	0.20	--- U	11/01/12	LFJ	EPA200.8
Nickel, ug/l	0.06	50.0	0.38 J	11/01/12	LFJ	EPA200.8
Selenium, ug/l	0.17	10.0	--- U	11/01/12	LFJ	EPA200.8
Silver, ug/l	0.10	10.0	--- U	11/01/12	LFJ	EPA200.8
Thallium, ug/l	0.07	5.5	--- U	11/01/12	LFJ	EPA200.8
Tin, ug/l	0.10	100.0	--- U	11/01/12	LFJ	EPA200.8
Vanadium, ug/l	0.10	25.0	0.38 J	11/01/12	LFJ	EPA200.8
Zinc, ug/l	0.48	10.0	2.4 J	11/01/12	LFJ	EPA200.8
Sulfide, ug/l	100	1000	--- U	10/30/12	LFJ	4500S2D-00

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

<<< LABORATORY COPY >>>

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: HARNETT CO. (DUNN/ERWIN)
GENERAL SERVICES HARNETT CO.
MR. JERRY BLANCHARD, MANAGER
900 SOUTH 9TH STREET
LILLINGTON, NC 27546

REVIEWED BY: _____

CLIENT ID: 6040

ANALYST: CHS
DATE COLLECTED: 10/29/12
DATE EXTRACTED: 11/02/12
DATE ANALYZED: 11/09/12
DATE REPORTED: 11/29/12

PESTICIDES AND PCB'S
EPA METHOD 8081B R2(07)

PARAMETERS, ug/l	MDL	SWSL	Equipment Blank
1. Aldrin	0.029	0.05	--- U
2. Alpha-BHC	0.032	0.05	--- U
3. Beta-BHC	0.031	0.05	--- U
4. Delta-BHC	0.030	0.05	--- U
5. Gamma-BHC (Lindane)	0.032	0.05	--- U
6. Chlordane	0.320	0.50	--- U
7. 4,4-DDD	0.051	0.10	--- U
8. 4,4-DDE	0.049	0.10	--- U
9. 4,4-DDT	0.052	0.10	--- U
10. Dieldrin	0.042	0.075	--- U
11. Endosulfan I	0.056	0.10	--- U
12. Endosulfan II	0.046	0.10	--- U
13. Endosulfan Sulfate	0.072	0.10	--- U
14. Endrin	0.053	0.10	--- U
15. Endrin Aldehyde	0.068	0.10	--- U
16. Heptachlor	0.039	0.05	--- U
17. Heptachlor Epoxide	0.042	0.075	--- U
18. Methoxychlor	0.530	1.00	--- U
19. Pcb's (Aroclors)	0.500	2.00	--- U
20. Toxaphene	0.690	1.50	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

<<< LABORATORY COPY >>>

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
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CLIENT: HARNETT CO. (DUNN/ERWIN)
GENERAL SERVICES HARNETT CO.
MR. JERRY BLANCHARD, MANAGER
900 SOUTH 9TH STREET
LILLINGTON, NC 27546

REVIEWED BY: _____

CLIENT ID: 6040

ANALYST: CHS
DATE COLLECTED: 10/29/12
DATE EXTRACTED: 11/05/12
DATE ANALYZED: 11/28/12
DATE REPORTED: 11/29/12

LANDFILL APPENDIX II
EPA METHOD 8151A R1(96)

PARAMETERS, ug/l	MDL	SWSL	Equipment Blank
1. 2,4-D	0.36	2.0	--- U
2. Dinoseb	0.54	1.0	--- U
3. 2,4,5-TP	0.42	2.0	--- U
4. 2,4,5-T	0.47	2.0	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

<<< LABORATORY COPY >>>

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: HARNETT CO. (DUNN/ERWIN)
GENERAL SERVICES HARNETT CO.
MR. JERRY BLANCHARD, MANAGER
900 SOUTH 9TH STREET
LILLINGTON, NC 27546

REVIEWED BY: _____

CLIENT ID: 6040

ANALYST: CHS
DATE COLLECTED: 10/29/12
DATE EXTRACTED: 11/01/12
DATE ANALYZED: 11/28/12
DATE REPORTED: 11/29/12

SEMI-VOLATILE ORGANICS
EPA METHOD 8270D R4(07)

PARAMETERS, ug/l	MDL	SWSL	Equipment Blank
1. Acenaphthene	2.66	10.0	--- U
2. Acenaphthylene	2.60	10.0	--- U
3. Anthracene	2.97	10.0	--- U
4. Benzo[a]antrhacene	4.16	10.0	--- U
5. Benzo[b]fluoranthene	3.32	10.0	--- U
6. Benzo[k]fluoranthene	4.23	10.0	--- U
7. Benzo[g,h,i]perylene	2.61	10.0	--- U
8. Benzo[a]pyrene	3.27	10.0	--- U
9. 4-Bromophenyl Phenyl Ether	2.63	10.0	--- U
10. Butyl Benzyl Phthalate	5.78	10.0	--- U
11. Bis-(2-Chloroethoxy) Methane	3.14	10.0	--- U
12. Bis-(2-Chloroethyl) Ether	2.58	10.0	--- U
13. Bis-(2-Chloroisopropyl) Ether	2.58	10.0	--- U
14. 2-Chloronaphthalene	2.17	10.0	--- U
15. 4-Chlorophenyl Phenyl Ether	2.42	10.0	--- U
16. Chrysene	4.04	10.0	--- U
17. Dibenzo[a,h]anthracene	2.78	10.0	--- U
18. Di-N-Butyl Phthalate	3.09	10.0	--- U
19. Dimethyl Phthalate	3.78	10.0	--- U
20. Diethyl Phthalate	3.92	10.0	--- U
21. 2,4-Dinitrotoluene	3.95	10.0	--- U
22. 2,6-Dinitrotoluene	3.88	10.0	--- U
23. Di-N-Octyl Phthalate	2.81	10.0	--- U
24. Bis-(2-Ethylhexyl) Phthalate	9.97	15.0	--- U
25. Fluoranthene	3.92	10.0	--- U
26. Fluorene	2.95	10.0	--- U
27. Hexachlorobenzene	2.61	10.0	--- U
28. Hexachlorocyclopentadiene	4.16	10.0	--- U
29. Indeno[1,2,3-Cd]pyrene	2.91	10.0	--- U
30. Isophorone	3.74	10.0	--- U
31. Nitrobenzene	2.85	10.0	--- U
32. N-Nitrosodimethylamine	4.25	10.0	--- U
33. N-Nitrosodiphenylamine	3.95	10.0	--- U
34. N-Nitrosodi-N-Propylamine	4.06	10.0	--- U
35. Phenanthrene	3.24	10.0	--- U
36. Pyrene	3.63	10.0	--- U
37. 4-Chloro-3-Methylphenol	3.79	20.0	--- U
38. 2-Chlorophenol	2.75	10.0	--- U
39. O-Cresol	3.68	10.0	--- U
40. P-Cresol	4.12	10.0	--- U
41. 2,4-Dichlorophenol	5.19	10.0	--- U
42. 2,6-Dichlorophenol	4.89	10.0	--- U
43. 2,4-Dimethylphenol	3.21	10.0	--- U
44. 4,6-Dinitro-2-Methylphenol	4.77	50.0	--- U
45. 2,4-Dinitrophenol	4.37	50.0	--- U
46. Ethyl Methanesulfonate	5.26	20.0	--- U
47. Methyl Methanesulfonate	4.92	10.0	--- U
48. 2-Nitrophenol	3.64	10.0	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

<<< LABORATORY COPY >>>

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: HARNETT CO. (DUNN/ERWIN)
GENERAL SERVICES HARNETT CO.
MR. JERRY BLANCHARD, MANAGER
900 SOUTH 9TH STREET
LILLINGTON, NC 27546

REVIEWED BY: _____

CLIENT ID: 6040
ANALYST: CHS
DATE COLLECTED: 10/29/12
DATE EXTRACTED: 11/01/12
DATE ANALYZED: 11/28/12
DATE REPORTED: 11/29/12

SEMI-VOLATILE ORGANICS
EPA METHOD 8270D R4(07)

PARAMETERS, ug/l	MDL	SWSL	Equipment Blank
49. 4-Nitrophenol	3.17	50.0	--- U
50. Pentachlorophenol	5.33	25.0	--- U
51. Phenol	1.86	10.0	--- U
52. 2,3,4,6-Tetrachlorophenol	3.12	10.0	--- U
53. 2,4,5-Trichlorophenol	4.17	10.0	--- U
54. 2,4,6-Trichlorophenol	3.84	10.0	--- U
55. Acetophenone	2.89	10.0	--- U
56. 2-Acetylaminofluorene	3.98	20.0	--- U
57. 4-Aminobiphenyl	4.12	20.0	--- U
58. Benzyl Alcohol	4.47	20.0	--- U
59. 4-Chloroaniline	3.36	20.0	--- U
60. Chlorobenzilate	5.12	10.0	--- U
61. Diallate	2.98	10.0	--- U
62. Dibenzofuran	4.28	10.0	--- U
63. 3,3-Dichlorobenzidine	4.22	20.0	--- U
64. Dimethoate	3.98	20.0	--- U
65. P-Dimethylaminoazobenzene	2.89	10.0	--- U
66. 7,12-Dimethylbenz(a)anthracene	5.26	10.0	--- U
67. 3,3-Dimethylbenzadine	3.21	10.0	--- U
68. 1,3-Dinitrobenzene	2.89	20.0	--- U
69. Diphenylamine	5.10	10.0	--- U
70. Disulfoton	4.28	10.0	--- U
71. Famphur	3.98	20.0	--- U
72. Hexachloropropene	4.31	10.0	--- U
73. Isosafrole	2.88	10.0	--- U
74. Kepone	2.78	20.0	--- U
75. Methapyrilene	3.54	100.0	--- U
76. 3-Methylchloroanthrene	4.21	10.0	--- U
77. 2-Methylnaphthalene	3.79	10.0	--- U
78. Methyl Parathion	4.32	10.0	--- U
79. m-Cresol	3.81	10.0	--- U
80. 1,4-Naphthoquinone	4.00	10.0	--- U
81. 1-Naphthylamine	5.61	10.0	--- U
82. 2-Naphthylamine	4.62	10.0	--- U
83. 2-Nitroaniline	3.61	50.0	--- U
84. 3-Nitroaniline	4.81	50.0	--- U
85. 4-Nitroaniline	4.22	20.0	--- U
86. 5-Nitro-O-Toluidine	4.01	10.0	--- U
87. N-Nitrosodi-n-butylamine	3.63	10.0	--- U
88. N-Nitrosodiethylamine	3.83	20.0	--- U
89. N-Nitrosomethylethylamine	3.83	10.0	--- U
90. N-Nitrosopiperidine	5.19	20.0	--- U
91. N-Nitrosopyrrolidine	2.89	10.0	--- U
92. Parathion	3.12	10.0	--- U
93. Pentachlorobenzene	3.92	10.0	--- U
94. Pentachloronitrobenzene	3.71	20.0	--- U
95. Phenacetin	4.41	20.0	--- U
96. 1,4 Benzenediamine	2.99	10.0	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: HARNETT CO. (DUNN/ERWIN)
GENERAL SERVICES HARNETT CO.
MR. JERRY BLANCHARD, MANAGER
900 SOUTH 9TH STREET
LILLINGTON, NC 27546

REVIEWED BY: _____

CLIENT ID: 6040

ANALYST: CHS
DATE COLLECTED: 10/29/12
DATE EXTRACTED: 11/01/12
DATE ANALYZED: 11/28/12
DATE REPORTED: 11/29/12

SEMI-VOLATILE ORGANICS
EPA METHOD 8270D R4(07)

PARAMETERS, ug/l	MDL	SWSL	Equipment Blank
97. Phorate	3.86	10.0	--- U
98. Pronamide	3.69	10.0	--- U
99. Safrole	4.12	10.0	--- U
100. 1,2,4,5-Tetrachlorobenzene	5.01	10.0	--- U
101. Thionazin	4.62	20.0	--- U
102. O-Toluidine	4.11	10.0	--- U
103. 1,3,5-Trinitrobenzene	3.98	10.0	--- U
104. 0,0,0-Triethyl Phosphorothioate	3.61	10.0	--- U
105. Hexachloroethane	1.49	10.0	--- U
106. Isodrin	3.11	20.0	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: HARNETT CO. (DUNN/ERWIN)
GENERAL SERVICES HARNETT CO.
MR. JERRY BLANCHARD, MANAGER
900 SOUTH 9TH STREET
LILLINGTON, NC 27546

CLIENT ID: 6040
ANALYST: MAO
DATE COLLECTED: 10/29/12
DATE ANALYZED: 11/01/12
DATE REPORTED: 11/29/12

REVIEWED BY: _____

LANDFILL APPENDIX II
EPA METHOD 8260B R1(96)

PARAMETERS, ug/l	MDL	SWSL	Equipment Blank
1. Chloromethane	0.77	1.0	--- U
2. Vinyl Chloride	0.63	1.0	--- U
3. Bromomethane	0.67	10.0	--- U
4. Chloroethane	0.48	10.0	--- U
5. Trichlorofluoromethane	0.24	1.0	--- U
6. 1,1-Dichloroethene	0.17	5.0	--- U
7. Acetone	9.06	100.0	--- U
8. Iodomethane	0.26	10.0	--- U
9. Carbon Disulfide	0.23	100.0	--- U
10. Methylene Chloride	0.64	1.0	--- U
11. trans-1,2-Dichloroethene	0.23	5.0	--- U
12. 1,1-Dichloroethane	0.20	5.0	--- U
13. Vinyl Acetate	0.20	50.0	--- U
14. Cis-1,2-Dichloroethene	0.25	5.0	--- U
15. 2-Butanone	2.21	100.0	--- U
16. Bromochloromethane	0.27	3.0	--- U
17. Chloroform	0.25	5.0	--- U
18. 1,1,1-Trichloroethane	0.19	1.0	--- U
19. Carbon Tetrachloride	0.22	1.0	--- U
20. Benzene	0.24	1.0	--- U
21. 1,2-Dichloroethane	0.21	1.0	--- U
22. Trichloroethene	0.23	1.0	--- U
23. 1,2-Dichloropropane	0.21	1.0	--- U
24. Bromodichloromethane	0.21	1.0	--- U
25. Cis-1,3-Dichloropropene	0.24	1.0	--- U
26. 4-Methyl-2-Pentanone	1.19	100.0	--- U
27. Toluene	0.23	1.0	--- U
28. trans-1,3-Dichloropropene	0.28	1.0	--- U
29. 1,1,2-Trichloroethane	0.25	1.0	--- U
30. Tetrachloroethene	0.17	1.0	--- U
31. 2-Hexanone	1.57	50.0	--- U
32. Dibromochloromethane	0.24	3.0	--- U
33. 1,2-Dibromoethane	0.26	1.0	--- U
34. Chlorobenzene	0.30	3.0	--- U
35. 1,1,1,2-Tetrachloroethane	0.22	5.0	--- U
36. Ethylbenzene	0.21	1.0	--- U
37. Xylenes	0.68	5.0	--- U
38. Dibromomethane	0.28	10.0	--- U
39. Styrene	0.19	1.0	--- U
40. Bromoform	0.20	3.0	--- U
41. 1,1,2,2-Tetrachloroethane	0.26	3.0	--- U
42. 1,2,3-Trichloropropane	0.43	1.0	--- U
43. 1,4-Dichlorobenzene	0.39	1.0	--- U
44. 1,2-Dichlorobenzene	0.32	5.0	--- U
45. 1,2-Dibromo-3-Chloropropane	0.34	13.0	--- U
46. Acrylonitrile	2.72	200.0	--- U
47. trans-1,4-Dichloro-2-Butene	0.42	100.0	--- U
48. Acrolein	40.57	53.0	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

<<< LABORATORY COPY >>>

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: HARNETT CO. (DUNN/ERWIN)
GENERAL SERVICES HARNETT CO.
MR. JERRY BLANCHARD, MANAGER
900 SOUTH 9TH STREET
LILLINGTON, NC 27546

CLIENT ID: 6040
ANALYST: MAO
DATE COLLECTED: 10/29/12
DATE ANALYZED: 11/01/12
DATE REPORTED: 11/29/12

REVIEWED BY: _____

LANDFILL APPENDIX II
EPA METHOD 8260B R1(96)

PARAMETERS, ug/l	MDL	SWSL	Equipment Blank
49. Allyl Chloride	0.20	10.0	--- U
50. Chloroprene	0.21	20.0	--- U
51. 1,3-Dichlorobenzene	0.41	5.0	--- U
52. Dichlorodifluoromethane	0.51	5.0	--- U
53. 1,3-Dichloropropane	0.28	1.0	--- U
54. 2,2-Dichloropropane	0.17	15.0	--- U
55. 1,1-Dichloropropene	0.22	5.0	--- U
56. Ethyl Methacrylate	0.16	10.0	--- U
57. Hexachlorobutadiene	0.57	10.0	--- U
58. Isobutyl Alcohol	12.80	100.0	--- U
59. Methacrylonitrile	1.93	100.0	--- U
60. Methyl Methacrylate	0.25	30.0	--- U
61. Naphthalene	0.47	10.0	--- U
62. Propionitrile	3.26	150.0	--- U
63. 1,2,4-Trichlorobenzene	0.50	10.0	--- U
64. Acetonitrile	36.29	55.0	--- U
65. Tetrahydrofuran	0.39	1.0	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

<<< LABORATORY COPY >>>

Environment 1, Inc.
P.O. Box 7085, 114 Oakmont Dr.
Greenville, NC 27858

Phone (252) 756-6208 • Fax (252) 756-0633

CHAIN OF CUSTODY RECORD

CLIENT: 6040 **Week: 43**

HARNETT CO. (DUNN/ERWIN)
GENERAL SERVICES HARNETT CO.
MR. JERRY BLANCHARD, MANAGER
900 SOUTH 9TH STREET
LILLINGTON NC 27546

(919) 233-0407

DISINFECTION
- ☐ CHLORINE
- ☐ UV
- ☐ NONE
- ☐ _____

CHLORINE NEUTRALIZED AT COLLECTION																					
pH CHECK (LAB)																					
CONTAINER TYPE, P/G																					
CHEMICAL PRESERVATION																					
SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l OR ug/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	Field pH	Cyanide	Metals	Turbidity	Sulfide	Conductivity	Temperature	Field Parameter	EPA 8270D	8270D Dup. 1	EPA 8081B	8081B Duplicate	8260B App. II	8260 App. II 1	8260 App. II 2	8151A Landfill	PARAMETERS
						P	P	P	P	P	P	P		G	G	G	G	G	G	G	G	
						A	D	A	A	F	A	A		A	A	A	A	E	E	E	A	
MW-6B					13																	
MW-7B					13																	
MW-8					14																	
MW-9					13																	
MW-10					13																	
Equipment Blank	102912				11		G	G		G				G	G	G	G	G	G		G	
Trip Blank					2																	

A - NONE
B - HNO_3
C - H_2SO_4
D - NAOH
E - HCL
F - ZINC ACETATE
G - NA THIOSULFATE

CLASSIFICATION:
- ☐ WASTEWATER (NPDES)
- ☐ DRINKING WATER
- ☐ DWQ/GW
- ☒ SOLID WASTE SECTION

CHAIN OF CUSTODY MAINTAINED DURING SHIPMENT/DELIVERY
Y N

SAMPLES COLLECTED BY: (Please Print)
H Hogge / Fox

SAMPLES RECEIVED IN LAB AT 1.6 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
BB Hogge	102912	B	10/29 330
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:

PLEASE READ Instructions for completing this form on the reverse side.

Sampler must place a "C" for composite sample or a "G" for Grab sample in the blocks above for each parameter requested.

FORM #5

№ 247003

Environment 1, Inc.
P.O. Box 7085, 114 Oakmont Dr.
Greenville, NC 27858

Phone (252) 756-6208 • Fax (252) 756-0633

CHAIN OF CUSTODY RECORD

CLIENT: 6040 **Week: 43**

HARNETT CO. (DUNN/ERWIN)
GENERAL SERVICES HARNETT CO.
MR. JERRY BLANCHARD, MANAGER
900 SOUTH 9TH STREET
LILLINGTON NC 27546

(919) 233-0407

DISINFECTION
- [ ] CHLORINE
- [ ] UV
- [ ] NONE
- [ ] _____

CHLORINE NEUTRALIZED AT COLLECTION

pH CHECK (LAB)

CONTAINER TYPE, P/G

CHEMICAL PRESERVATION

A - NONE D - NAOH
B - HNO_3 E - HCL
C - H_2SO_4 F - ZINC ACETATE
G - NA THIOSULFATE

SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l OR ug/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	8151A Duplicate
~~MW-6B~~					~~13~~	
~~MW-7B~~					~~13~~	
~~MW-8~~					~~14~~	
~~MW-9~~					~~13~~	
~~MW-10~~					~~13~~	
Equipment Blank 10/29/12					11	G
Trip Blank					2	

PARAMETERS

CLASSIFICATION:
- [ ] WASTEWATER (NPDES)
- [ ] DRINKING WATER
- [ ] DWQ/GW
- [X] SOLID WASTE SECTION

CHAIN OF CUSTODY MAINTAINED DURING SHIPMENT/DELIVERY
Y N

SAMPLES COLLECTED BY: (Please Print) H Ogae / Fat

SAMPLES RECEIVED IN LAB AT 1.6 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bob H Ogae	10/29/12	B	10/29 3:20
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:

PLEASE READ Instructions for completing this form on the reverse side.

Sampler must place a "C" for composite sample or a "G" for Grab sample in the blocks above for each parameter requested.

FORM #5

№ 247002

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: HARNETT CO. (DUNN/ERWIN)
GENERAL SERVICES HARNETT CO.
MR. JERRY BLANCHARD, MANAGER
900 SOUTH 9TH STREET
LILLINGTON, NC 27546

CLIENT ID: 6040 Z

ANALYST: MAO
DATE COLLECTED: 10/30/12
DATE ANALYZED: 11/09/12
DATE REPORTED: 11/23/12

REVIEWED BY: _____

VOLATILE ORGANICS
EPA METHOD 8260B R1(96)

PARAMETERS, ug/l	MDL	SWSL	Equipment Blank
1. Chloromethane	0.77	1.0	--- U
2. Vinyl Chloride	0.63	1.0	--- U
3. Bromomethane	0.67	10.0	--- U
4. Chloroethane	0.48	10.0	--- U
5. Trichlorofluoromethane	0.24	1.0	--- U
6. 1,1-Dichloroethene	0.17	5.0	--- U
7. Acetone	9.06	100.0	--- U
8. Iodomethane	0.26	10.0	--- U
9. Carbon Disulfide	0.23	100.0	--- U
10. Methylene Chloride	0.64	1.0	--- U
11. trans-1,2-Dichloroethene	0.23	5.0	--- U
12. 1,1-Dichloroethane	0.20	5.0	--- U
13. Vinyl Acetate	0.20	50.0	--- U
14. Cis-1,2-Dichloroethene	0.25	5.0	--- U
15. 2-Butanone	2.21	100.0	--- U
16. Bromochloromethane	0.27	3.0	--- U
17. Chloroform	0.25	5.0	--- U
18. 1,1,1-Trichloroethane	0.19	1.0	--- U
19. Carbon Tetrachloride	0.22	1.0	--- U
20. Benzene	0.24	1.0	--- U
21. 1,2-Dichloroethane	0.27	1.0	--- U
22. Trichloroethene	0.23	1.0	--- U
23. 1,2-Dichloropropane	0.21	1.0	--- U
24. Bromodichloromethane	0.21	1.0	--- U
25. Cis-1,3-Dichloropropene	0.24	1.0	--- U
26. 4-Methyl-2-Pentanone	1.19	100.0	--- U
27. Toluene	0.23	1.0	--- U
28. trans-1,3-Dichloropropene	0.28	1.0	--- U
29. 1,1,2-Trichloroethane	0.25	1.0	--- U
30. Tetrachloroethene	0.17	1.0	--- U
31. 2-Hexanone	1.57	50.0	--- U
32. Dibromochloromethane	0.24	3.0	--- U
33. 1,2-Dibromoethane	0.26	1.0	--- U
34. Chlorobenzene	0.30	3.0	--- U
35. 1,1,1,2-Tetrachloroethane	0.22	5.0	--- U
36. Ethylbenzene	0.21	1.0	--- U
37. Xylenes	0.68	5.0	--- U
38. Dibromomethane	0.28	10.0	--- U
39. Styrene	0.19	1.0	--- U
40. Bromoform	0.20	3.0	--- U
41. 1,1,2,2-Tetrachloroethane	0.26	3.0	--- U
42. 1,2,3-Trichloropropane	0.43	1.0	--- U
43. 1,4-Dichlorobenzene	0.39	1.0	--- U
44. 1,2-Dichlorobenzene	0.32	5.0	--- U
45. 1,2-Dibromo-3-Chloropropane	0.34	13.0	--- U
46. Acrylonitrile	2.72	200.0	--- U
47. trans-1,4-Dichloro-2-Butene	0.42	100.0	--- U
48. Tetrahydrofuran	0.39	1.0	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
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ID#: 6040 D

HARNETT CO. (DUNN/ERWIN)
GENERAL SERVICES HARNETT CO.
MR. JERRY BLANCHARD, MANAGER
900 SOUTH 9TH STREET
LILLINGTON ,NC 27546

DATE COLLECTED: 10/30/12
DATE REPORTED : 11/23/12

REVIEWED BY:

PARAMETERS	MDL	SWSL	MW-1	MW-2	MW-3R	MW-4	MW-5	Analysis Date	Analyst	Method Code
PH (field measurement), Units			5.7	4.7	5.1	4.7	6.4	10/30/12	RJH	4500HB-00
Antimony, ug/l	0.02	6.0	0.74 J	--- U				11/01/12	LFJ	EPA200.8
Antimony, ug/l	0.02	6.0			0.03 J	0.05 J	0.10 J	11/05/12	LFJ	EPA200.8
Arsenic, ug/l	0.13	10.0	0.15 J	0.26 J				11/01/12	LFJ	EPA200.8
Arsenic, ug/l	0.13	10.0			--- U	0.28 J	--- U	11/05/12	LFJ	EPA200.8
Barium, ug/l	0.07	100.0	31.4 J	56.6 J				11/01/12	LFJ	EPA200.8
Barium, ug/l	0.07	100.0			62.2 J	60.5 J	105	11/05/12	LFJ	EPA200.8
Beryllium, ug/l	0.07	1.0	0.80 J	2				11/01/12	LFJ	EPA200.8
Beryllium, ug/l	0.07	1.0			3	3	0.21 J	11/05/12	LFJ	EPA200.8
Cadmium, ug/l	0.03	1.0	--- U	0.08 J				11/01/12	LFJ	EPA200.8
Cadmium, ug/l	0.03	1.0			0.09 J	0.24 J	0.16 J	11/07/12	LFJ	EPA200.8
Cobalt, ug/l	0.02	10.0	0.50 J	1.4 J				11/01/12	LFJ	EPA200.8
Cobalt, ug/l	0.02	10.0			2.1 J	2.0 J	2.6 J	11/05/12	LFJ	EPA200.8
Copper, ug/l	0.06	10.0	0.86 J	1.6 J				11/01/12	LFJ	EPA200.8
Copper, ug/l	0.06	10.0			0.58 J	1.2 J	0.49 J	11/05/12	LFJ	EPA200.8
Total Chromium, ug/l	0.18	10.0	--- U	0.45 J				11/01/12	LFJ	EPA200.8
Total Chromium, ug/l	0.18	10.0			--- U	--- U	--- U	11/05/12	LFJ	EPA200.8
Lead, ug/l	0.08	10.0	0.24 J	1.6 J				11/01/12	LFJ	EPA200.8
Lead, ug/l	0.08	10.0			0.09 J	0.41 J	0.13 J	11/05/12	LFJ	EPA200.8
Nickel, ug/l	0.06	50.0	0.83 J	1.9 J				11/01/12	LFJ	EPA200.8
Nickel, ug/l	0.06	50.0			2.8 J	2.1 J	2.7 J	11/05/12	LFJ	EPA200.8
Selenium, ug/l	0.17	10.0	--- U	0.23 J				11/01/12	LFJ	EPA200.8
Selenium, ug/l	0.17	10.0			--- U	0.39 J	--- U	11/05/12	LFJ	EPA200.8
Silver, ug/l	0.10	10.0	--- U	--- U				11/01/12	LFJ	EPA200.8
Silver, ug/l	0.10	10.0			--- U	0.13 J	--- U	11/05/12	LFJ	EPA200.8
Thallium, ug/l	0.07	5.5	0.12 J	--- U				11/01/12	LFJ	EPA200.8
Thallium, ug/l	0.07	5.5			0.21 J	0.30 J	0.09 J	11/07/12	LFJ	EPA200.8
Vanadium, ug/l	0.10	25.0	0.70 J	3.9 J				11/01/12	LFJ	EPA200.8
Vanadium, ug/l	0.10	25.0			0.40 J	0.54 J	0.26 J	11/05/12	LFJ	EPA200.8
Zinc, ug/l	0.48	10.0	4.8 J	11				11/01/12	LFJ	EPA200.8
Zinc, ug/l	0.48	10.0			11	36	3.9 J	11/05/12	LFJ	EPA200.8
Turbidity, NTU	1.0	1.0	12	150	2.8	6.8	18	11/01/12	HLB	2130B-01
Conductivity (at 25c), uMhos/cm	1.0	1.0	64	88	125	69	149	10/30/12	RJH	2510B-97
Temperature, °C			17	18	18	19	19	10/30/12	RJH	2550B-00
Static Water Level, feet			25.25	15.58	5.10	8.05	13.39	10/30/12	RJH	
Well Depth, feet			65.18	30.21	25.12	25.21	40.14	10/30/12	RJH	
Water Bailed, Gals.			19.2	6.9	9.6	8.4	12.6	10/30/12	RJH	

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

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Drinking Water ID: 37715
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P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

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ID#: 6040 D

HARNETT CO. (DUNN/ERWIN)
GENERAL SERVICES HARNETT CO.
MR. JERRY BLANCHARD, MANAGER
900 SOUTH 9TH STREET
LILLINGTON ,NC 27546

DATE COLLECTED: 10/30/12
DATE REPORTED : 11/23/12

REVIEWED BY:

PARAMETERS	MDL	SWSL	MW-31	Equipment Blank	Trip Blank	Analysis Date	Analyst	Method Code
PH (field measurement), Units			5.4			10/30/12	RJH	4500HB-00
Antimony, ug/l	0.02	6.0	0.24 J			11/05/12	LFJ	EPA200.8
Antimony, ug/l	0.02	6.0		--- U		11/01/12	LFJ	EPA200.8
Arsenic, ug/l	0.13	10.0	--- U			11/05/12	LFJ	EPA200.8
Arsenic, ug/l	0.13	10.0		--- U		11/01/12	LFJ	EPA200.8
Barium, ug/l	0.07	100.0	6.3 J			11/05/12	LFJ	EPA200.8
Barium, ug/l	0.07	100.0		0.60 J		11/01/12	LFJ	EPA200.8
Beryllium, ug/l	0.07	1.0	0.09 J			11/05/12	LFJ	EPA200.8
Beryllium, ug/l	0.07	1.0		--- U		11/01/12	LFJ	EPA200.8
Cadmium, ug/l	0.03	1.0	0.09 J			11/07/12	LFJ	EPA200.8
Cadmium, ug/l	0.03	1.0		--- U		11/01/12	LFJ	EPA200.8
Cobalt, ug/l	0.02	10.0	0.14 J			11/05/12	LFJ	EPA200.8
Cobalt, ug/l	0.02	10.0		--- U		11/01/12	LFJ	EPA200.8
Copper, ug/l	0.06	10.0	0.43 J			11/05/12	LFJ	EPA200.8
Copper, ug/l	0.06	10.0		0.57 J		11/01/12	LFJ	EPA200.8
Total Chromium, ug/l	0.18	10.0	0.71 J			11/05/12	LFJ	EPA200.8
Total Chromium, ug/l	0.18	10.0		--- U		11/01/12	LFJ	EPA200.8
Lead, ug/l	0.08	10.0	0.39 J			11/05/12	LFJ	EPA200.8
Lead, ug/l	0.08	10.0		--- U		11/01/12	LFJ	EPA200.8
Nickel, ug/l	0.06	50.0	0.47 J			11/05/12	LFJ	EPA200.8
Nickel, ug/l	0.06	50.0		0.50 J		11/01/12	LFJ	EPA200.8
Selenium, ug/l	0.17	10.0	--- U			11/05/12	LFJ	EPA200.8
Selenium, ug/l	0.17	10.0		--- U		11/01/12	LFJ	EPA200.8
Silver, ug/l	0.10	10.0	--- U			11/05/12	LFJ	EPA200.8
Silver, ug/l	0.10	10.0		--- U		11/01/12	LFJ	EPA200.8
Thallium, ug/l	0.07	5.5	--- U			11/07/12	LFJ	EPA200.8
Thallium, ug/l	0.07	5.5		--- U		11/01/12	LFJ	EPA200.8
Vanadium, ug/l	0.10	25.0	0.38 J			11/05/12	LFJ	EPA200.8
Vanadium, ug/l	0.10	25.0		0.11 J		11/01/12	LFJ	EPA200.8
Zinc, ug/l	0.48	10.0	1.1 J			11/05/12	LFJ	EPA200.8
Zinc, ug/l	0.48	10.0		2.6 J		11/01/12	LFJ	EPA200.8
Turbidity, NTU	1.0	1.0	13			11/01/12	HLB	2130B-01
Conductivity (at 25c), uMhos/cm	1.0	1.0	26			10/30/12	RJH	2510B-97
Temperature, °C			17			10/30/12	RJH	2550B-00
Static Water Level, feet			24.00			10/30/12	RJH	
Well Depth, feet			39.33			10/30/12	RJH	
Water Bailed, Gals.			7.2			10/30/12	RJH	

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

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Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

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CLIENT: HARNETT CO. (DUNN/ERWIN)
GENERAL SERVICES HARNETT CO.
MR. JERRY BLANCHARD, MANAGER
900 SOUTH 9TH STREET
LILLINGTON, NC 27546

CLIENT ID: 6040 D

ANALYST: MAO
DATE COLLECTED: 10/30/12
DATE REPORTED: 11/23/12

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B R1(96)

PARAMETERS, ug/l	Date Analyzed: MDL	SWSL	11/01/12 MW-1	11/01/12 MW-2	11/02/12 MW-3R	11/02/12 MW-4	11/02/12 MW-5
1. Chloromethane	0.77	1.0	--- U	--- U	--- U	--- U	--- U
2. Vinyl Chloride	0.63	1.0	--- U	--- U	--- U	--- U	--- U
3. Bromomethane	0.67	10.0	--- U	--- U	--- U	--- U	--- U
4. Chloroethane	0.48	10.0	--- U	--- U	--- U	--- U	--- U
5. Trichlorofluoromethane	0.24	1.0	--- U	--- U	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.17	5.0	--- U	--- U	--- U	--- U	--- U
7. Acetone	9.06	100.0	--- U	--- U	--- U	--- U	--- U
8. Iodomethane	0.26	10.0	--- U	--- U	--- U	--- U	--- U
9. Carbon Disulfide	0.23	100.0	--- U	--- U	--- U	--- U	--- U
10. Methylene Chloride	0.64	1.0	--- U	--- U	--- U	--- U	--- U
11. trans-1,2-Dichloroethene	0.23	5.0	--- U	--- U	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.20	5.0	--- U	0.30 J	--- U	--- U	--- U
13. Vinyl Acetate	0.20	50.0	--- U	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.25	5.0	--- U	--- U	--- U	--- U	--- U
15. 2-Butanone	2.21	100.0	--- U	--- U	--- U	--- U	--- U
16. Bromochloromethane	0.27	3.0	--- U	--- U	--- U	--- U	--- U
17. Chloroform	0.25	5.0	--- U	--- U	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.19	1.0	--- U	--- U	--- U	--- U	--- U
19. Carbon Tetrachloride	0.22	1.0	--- U	--- U	--- U	--- U	--- U
20. Benzene	0.24	1.0	--- U	--- U	--- U	--- U	--- U
21. 1,2-Dichloroethane	0.27	1.0	--- U	--- U	--- U	--- U	--- U
22. Trichloroethene	0.23	1.0	--- U	--- U	--- U	--- U	--- U
23. 1,2-Dichloropropane	0.21	1.0	--- U	--- U	--- U	--- U	--- U
24. Bromodichloromethane	0.21	1.0	--- U	--- U	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.24	1.0	--- U	--- U	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	1.19	100.0	--- U	--- U	--- U	--- U	--- U
27. Toluene	0.23	1.0	--- U	--- U	--- U	--- U	--- U
28. trans-1,3-Dichloropropene	0.28	1.0	--- U	--- U	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.25	1.0	--- U	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.17	1.0	--- U	--- U	--- U	--- U	--- U
31. 2-Hexanone	1.57	50.0	--- U	--- U	--- U	--- U	--- U
32. Dibromochloromethane	0.24	3.0	--- U	--- U	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.26	1.0	--- U	--- U	--- U	--- U	--- U
34. Chlorobenzene	0.30	3.0	--- U	--- U	--- U	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.22	5.0	--- U	--- U	--- U	--- U	--- U
36. Ethylbenzene	0.21	1.0	--- U	--- U	--- U	--- U	--- U
37. Xylenes	0.68	5.0	--- U	--- U	--- U	--- U	--- U
38. Dibromomethane	0.28	10.0	--- U	--- U	--- U	--- U	--- U
39. Styrene	0.19	1.0	--- U	--- U	--- U	--- U	--- U
40. Bromoform	0.20	3.0	--- U	--- U	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.26	3.0	--- U	--- U	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.43	1.0	--- U	--- U	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.39	1.0	--- U	--- U	--- U	--- U	--- U
44. 1,2-Dichlorobenzene	0.32	5.0	--- U	--- U	--- U	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.34	13.0	--- U	--- U	--- U	--- U	--- U
46. Acrylonitrile	2.72	200.0	--- U	--- U	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.42	100.0	--- U	--- U	--- U	--- U	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

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VOLATILE ORGANICS
EPA METHOD 8260B R1(96)

PARAMETERS, ug/l	Date Analyzed: MDL	SWSL	11/01/12 MW-1	11/01/12 MW-2	11/02/12 MW-3R	11/02/12 MW-4	11/02/12 MW-5
48. Tetrahydrofuran	0.39	1.0	--- U	--- U	--- U	--- U	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

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VOLATILE ORGANICS
EPA METHOD 8260B R1(96)

PARAMETERS, ug/l	Date Analyzed: MDL	SWSL	11/09/12 MW-31	11/09/12 Trip Blank
1. Chloromethane	0.77	1.0	--- U	--- U
2. Vinyl Chloride	0.63	1.0	--- U	--- U
3. Bromomethane	0.67	10.0	--- U	--- U
4. Chloroethane	0.48	10.0	--- U	--- U
5. Trichlorofluoromethane	0.24	1.0	--- U	--- U
6. 1,1-Dichloroethene	0.17	5.0	--- U	--- U
7. Acetone	9.06	100.0	--- U	--- U
8. Iodomethane	0.26	10.0	--- U	--- U
9. Carbon Disulfide	0.23	100.0	--- U	--- U
10. Methylene Chloride	0.64	1.0	--- U	--- U
11. trans-1,2-Dichloroethene	0.23	5.0	--- U	--- U
12. 1,1-Dichloroethane	0.20	5.0	--- U	--- U
13. Vinyl Acetate	0.20	50.0	--- U	--- U
14. Cis-1,2-Dichloroethene	0.25	5.0	--- U	--- U
15. 2-Butanone	2.21	100.0	--- U	--- U
16. Bromochloromethane	0.27	3.0	--- U	--- U
17. Chloroform	0.25	5.0	--- U	--- U
18. 1,1,1-Trichloroethane	0.19	1.0	--- U	--- U
19. Carbon Tetrachloride	0.22	1.0	--- U	--- U
20. Benzene	0.24	1.0	--- U	--- U
21. 1,2-Dichloroethane	0.27	1.0	--- U	--- U
22. Trichloroethene	0.23	1.0	--- U	--- U
23. 1,2-Dichloropropane	0.21	1.0	--- U	--- U
24. Bromodichloromethane	0.21	1.0	--- U	--- U
25. Cis-1,3-Dichloropropene	0.24	1.0	--- U	--- U
26. 4-Methyl-2-Pentanone	1.19	100.0	--- U	--- U
27. Toluene	0.23	1.0	--- U	--- U
28. trans-1,3-Dichloropropene	0.28	1.0	--- U	--- U
29. 1,1,2-Trichloroethane	0.25	1.0	--- U	--- U
30. Tetrachloroethene	0.17	1.0	--- U	--- U
31. 2-Hexanone	1.57	50.0	--- U	--- U
32. Dibromochloromethane	0.24	3.0	--- U	--- U
33. 1,2-Dibromoethane	0.26	1.0	--- U	--- U
34. Chlorobenzene	0.30	3.0	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.22	5.0	--- U	--- U
36. Ethylbenzene	0.21	1.0	--- U	--- U
37. Xylenes	0.68	5.0	--- U	--- U
38. Dibromomethane	0.28	10.0	--- U	--- U
39. Styrene	0.19	1.0	--- U	--- U
40. Bromoform	0.20	3.0	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.26	3.0	--- U	--- U
42. 1,2,3-Trichloropropane	0.43	1.0	--- U	--- U
43. 1,4-Dichlorobenzene	0.39	1.0	--- U	--- U
44. 1,2-Dichlorobenzene	0.32	5.0	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.34	13.0	--- U	--- U
46. Acrylonitrile	2.72	200.0	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.42	100.0	--- U	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: HARNETT CO. (DUNN/ERWIN)
GENERAL SERVICES HARNETT CO.
MR. JERRY BLANCHARD, MANAGER
900 SOUTH 9TH STREET
LILLINGTON, NC 27546

CLIENT ID: 6040 D

ANALYST: MAO
DATE COLLECTED: 10/30/12
DATE REPORTED: 11/23/12

REVIEWED BY: _____

VOLATILE ORGANICS
EPA METHOD 8260B R1(96)

PARAMETERS, ug/l	Date Analyzed: MDL	SWSL	11/09/12 MW-31	11/09/12 Trip Blank
48. Tetrahydrofuran	0.39	1.0	--- U	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Inc.
P.O. Box 7085, 114 Oakmont Dr.
Greenville, NC 27858

Phone (252) 756-6208 • Fax (252) 756-0633

CHAIN OF CUSTODY RECORD

CLIENT: 6040 D Week: 43

HARNETT CO. (DUNN/ERWIN)
GENERAL SERVICES HARNETT CO.
MR. JERRY BLANCHARD, MANAGER
900 SOUTH 9TH STREET
LILLINGTON NC 27546

(919) 233-0407

DISINFECTION
- [ ] CHLORINE
- [ ] UV
- [ ] NONE
- [ ] _____

SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l OR ug/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	Field pH	Metals	Turbidity	Conductivity	Temperature	Field Parameter	EPA 8260B	8260 Dup. 1	8260 Dup. 2
							C2					C2	C2	C2
						P	P	P	P	P		G	G	G
						A	A	A	A	A		E	E	E
MW-1	10 3012	1010		17	6	G	G	G	G	G	G	G	G	G
MW-2	10 3012	1015		18	5	G	G	G	G	G	G	G	G	
MW-3R	10 3012	1020		18	5	G	G	G	G	G	G	G	G	
MW-4	10 3012	1025		19	5	G	G	G	G	G	G	G	G	
MW-5	10 3012	1030		19	5	G	G	G	G	G	G	G	G	
MW-31	10 3012	1135		17	5	G	G	G	G	G	G	G	G	
~~Equipment Blank~~					3		G					G	G	crossed-dist in error. [illegible]
Trip Blank	RTH				2									
Equipment Blank	10 3012						G					G	G	

PARAMETERS

CHLORINE NEUTRALIZED AT COLLECTION

pH CHECK (LAB)

CONTAINER TYPE, P/G

CHEMICAL PRESERVATION

A - NONE D - NAOH
B - HNO_3 E - HCL
C - H_2SO_4 F - ZINC ACETATE
G - NA THIOSULFATE

CLASSIFICATION:
- [ ] WASTEWATER (NPDES)
- [ ] DRINKING WATER
- [ ] DWQ/GW
- [X] SOLID WASTE SECTION

CHAIN OF CUSTODY MAINTAINED DURING SHIPMENT/DELIVERY
(Y) N

SAMPLES COLLECTED BY: (Please Print) H Igoe / Fox

SAMPLES RECEIVED IN LAB AT 2.0 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bob H Igoe	10 3012	[signature]	10/30/12 240
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:

PLEASE READ Instructions for completing this form on the reverse side.

Sampler must place a "C" for composite sample or a "G" for Grab sample in the blocks above for each parameter requested.

No 250821

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

ID#: 6040 C

HARNETT CO. (DUNN/ERWIN)
GENERAL SERVICES HARNETT CO.
MR. JERRY BLANCHARD, MANAGER
900 SOUTH 9TH STREET
LILLINGTON ,NC 27546

DATE COLLECTED: 10/30/12
DATE REPORTED : 11/23/12

REVIEWED BY:

PARAMETERS	MDL	SWSL	MW-16	MW-32	MW-33	MW23-B	MW-34	Analysis Date	Analyst	Method Code
PH (field measurement), Units			6.1	5.7	5.1	5.4	5.8	10/30/12	RJH	4500HB-00
Arsenic, ug/l	0.13	10.0	--- U	1.7 J	0.53 J	0.20 J	--- U	11/01/12	LFJ	EPA200.8
Barium, ug/l	0.07	100.0	63.2 J	60.2 J	66.7 J	89.2 J	41.9 J	11/01/12	LFJ	EPA200.8
Cadmium, ug/l	0.03	1.0	0.50 J	0.23 J	0.27 J	0.08 J	0.11 J	11/01/12	LFJ	EPA200.8
Total Chromium, ug/l	0.18	10.0	--- U	8.1 J	--- U	--- U	--- U	11/01/12	LFJ	EPA200.8
Lead, ug/l	0.08	10.0	0.32 J	13	0.51 J	1.3 J	0.80 J	11/01/12	LFJ	EPA200.8
Mercury, ug/l	0.02	0.20	--- U	0.03 J	--- U	--- U	--- U	11/01/12	LFJ	EPA200.8
Selenium, ug/l	0.17	10.0	--- U	0.49 J	--- U	--- U	--- U	11/01/12	LFJ	EPA200.8
Silver, ug/l	0.10	10.0	--- U	--- U	--- U	--- U	--- U	11/01/12	LFJ	EPA200.8
Turbidity, NTU	1.0	1.0	5.8	7400	6.2	70	8.7	11/01/12	HLB	2130B-01
Conductivity (at 25c), uMhos/cm	1.0	1.0	118	45	70	51	80	10/30/12	RJH	2510B-97
Temperature, °C			18	16	17	18	17	10/30/12	RJH	2550B-00
Static Water Level, feet			7.38	3.55	10.48	6.45	2.88	10/30/12	RJH	
Well Depth, feet			45.23	24.55	26.43	24.55	40.23	10/30/12	RJH	
Water Bailed, Gals.			18.3	10.2	7.2	8.7	18.3	10/30/12	RJH	

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

ID#: 6040 C

HARNETT CO. (DUNN/ERWIN)
GENERAL SERVICES HARNETT CO.
MR. JERRY BLANCHARD, MANAGER
900 SOUTH 9TH STREET
LILLINGTON ,NC 27546

DATE COLLECTED: 10/30/12
DATE REPORTED : 11/23/12

REVIEWED BY:

PARAMETERS	MDL	SWSL	MW-35	Analysis Date	Analyst	Method Code
PH (field measurement), Units			5.7	10/30/12	RJH	4500HB-00
Arsenic, ug/l	0.13	10.0	1.1 J	11/01/12	LFJ	EPA200.8
Barium, ug/l	0.07	100.0	543	11/01/12	LFJ	EPA200.8
Cadmium, ug/l	0.03	1.0	0.84 J	11/01/12	LFJ	EPA200.8
Total Chromium, ug/l	0.18	10.0	0.30 J	11/01/12	LFJ	EPA200.8
Lead, ug/l	0.08	10.0	0.67 J	11/01/12	LFJ	EPA200.8
Mercury, ug/l	0.02	0.20	--- U	11/01/12	LFJ	EPA200.8
Selenium, ug/l	0.17	10.0	0.85 J	11/01/12	LFJ	EPA200.8
Silver, ug/l	0.10	10.0	--- U	11/01/12	LFJ	EPA200.8
Turbidity, NTU	1.0	1.0	60	11/01/12	HLB	2130B-01
Conductivity (at 25c), uMhos/cm	1.0	1.0	977	10/30/12	RJH	2510B-97
Temperature, °C			17	10/30/12	RJH	2550B-00
Static Water Level, feet			5.44	10/30/12	RJH	
Well Depth, feet			22.15	10/30/12	RJH	
Water Bailed, Gals.			7.8	10/30/12	RJH	

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: HARNETT CO. (DUNN/ERWIN)
GENERAL SERVICES HARNETT CO.
MR. JERRY BLANCHARD, MANAGER
900 SOUTH 9TH STREET
LILLINGTON, NC 27546

CLIENT ID: 6040 C

ANALYST: MAO
DATE COLLECTED: 10/30/12
DATE ANALYZED: 11/01/12
DATE REPORTED: 11/23/12

REVIEWED BY: _____

VOLATILE ORGANICS
EPA METHOD 8260B R1(96)

PARAMETERS, ug/l	MDL	SWSL	MW-16	MW-32	MW-33	MW23-B	MW-34
1. Chloromethane	0.77	1.0	--- U	--- U	--- U	--- U	--- U
2. Vinyl Chloride	0.63	1.0	--- U	--- U	--- U	--- U	--- U
3. Bromomethane	0.67	10.0	--- U	--- U	--- U	--- U	--- U
4. Chloroethane	0.48	10.0	--- U	--- U	--- U	--- U	--- U
5. Trichlorofluoromethane	0.24	1.0	--- U	--- U	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.17	5.0	--- U	--- U	--- U	--- U	--- U
7. Acetone	9.06	100.0	--- U	--- U	--- U	--- U	--- U
8. Iodomethane	0.26	10.0	--- U	--- U	--- U	--- U	--- U
9. Carbon Disulfide	0.23	100.0	--- U	--- U	--- U	--- U	--- U
10. Methylene Chloride	0.64	1.0	--- U	--- U	--- U	--- U	--- U
11. trans-1,2-Dichloroethene	0.23	5.0	--- U	--- U	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.20	5.0	--- U	--- U	0.40 J	--- U	--- U
13. Vinyl Acetate	0.20	50.0	--- U	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.25	5.0	--- U	--- U	1.10 J	--- U	--- U
15. 2-Butanone	2.21	100.0	--- U	--- U	--- U	--- U	--- U
16. Bromochloromethane	0.27	3.0	--- U	--- U	--- U	--- U	--- U
17. Chloroform	0.25	5.0	--- U	--- U	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.19	1.0	--- U	--- U	--- U	--- U	--- U
19. Carbon Tetrachloride	0.22	1.0	--- U	--- U	--- U	--- U	--- U
20. Benzene	0.24	1.0	--- U	--- U	--- U	--- U	--- U
21. 1,2-Dichloroethane	0.27	1.0	--- U	--- U	--- U	--- U	--- U
22. Trichloroethene	0.23	1.0	--- U	--- U	--- U	--- U	--- U
23. 1,2-Dichloropropane	0.21	1.0	--- U	--- U	--- U	--- U	--- U
24. Bromodichloromethane	0.21	1.0	--- U	--- U	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.24	1.0	--- U	--- U	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	1.19	100.0	--- U	--- U	--- U	--- U	--- U
27. Toluene	0.23	1.0	--- U	--- U	--- U	--- U	--- U
28. trans-1,3-Dichloropropene	0.28	1.0	--- U	--- U	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.25	1.0	--- U	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.17	1.0	--- U	--- U	--- U	--- U	--- U
31. 2-Hexanone	1.57	50.0	--- U	--- U	--- U	--- U	--- U
32. Dibromochloromethane	0.24	3.0	--- U	--- U	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.26	1.0	--- U	--- U	--- U	--- U	--- U
34. Chlorobenzene	0.30	3.0	--- U	--- U	--- U	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.22	5.0	--- U	--- U	--- U	--- U	--- U
36. Ethylbenzene	0.21	1.0	--- U	--- U	--- U	--- U	--- U
37. Xylenes	0.68	5.0	--- U	--- U	--- U	--- U	--- U
38. Dibromomethane	0.28	10.0	--- U	--- U	--- U	--- U	--- U
39. Styrene	0.19	1.0	--- U	--- U	--- U	--- U	--- U
40. Bromoform	0.20	3.0	--- U	--- U	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.26	3.0	--- U	--- U	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.43	1.0	--- U	--- U	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.39	1.0	--- U	--- U	--- U	--- U	--- U
44. 1,2-Dichlorobenzene	0.32	5.0	--- U	--- U	--- U	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.34	13.0	--- U	--- U	--- U	--- U	--- U
46. Acrylonitrile	2.72	200.0	--- U	--- U	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.42	100.0	--- U	--- U	--- U	--- U	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: HARNETT CO. (DUNN/ERWIN)
GENERAL SERVICES HARNETT CO.
MR. JERRY BLANCHARD, MANAGER
900 SOUTH 9TH STREET
LILLINGTON, NC 27546

CLIENT ID: 6040 C

ANALYST: MAO
DATE COLLECTED: 10/30/12
DATE ANALYZED: 11/01/12
DATE REPORTED: 11/23/12

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B R1(96)

PARAMETERS, ug/l	MDL	SWSL	MW-35
1. Chloromethane	0.77	1.0	--- U
2. Vinyl Chloride	0.63	1.0	--- U
3. Bromomethane	0.67	10.0	--- U
4. Chloroethane	0.48	10.0	--- U
5. Trichlorofluoromethane	0.24	1.0	--- U
6. 1,1-Dichloroethene	0.17	5.0	--- U
7. Acetone	9.06	100.0	--- U
8. Iodomethane	0.26	10.0	--- U
9. Carbon Disulfide	0.23	100.0	--- U
10. Methylene Chloride	0.64	1.0	--- U
11. trans-1,2-Dichloroethene	0.23	5.0	--- U
12. 1,1-Dichloroethane	0.20	5.0	--- U
13. Vinyl Acetate	0.20	50.0	--- U
14. Cis-1,2-Dichloroethene	0.25	5.0	--- U
15. 2-Butanone	2.21	100.0	--- U
16. Bromochloromethane	0.27	3.0	--- U
17. Chloroform	0.25	5.0	--- U
18. 1,1,1-Trichloroethane	0.19	1.0	--- U
19. Carbon Tetrachloride	0.22	1.0	--- U
20. Benzene	0.24	1.0	--- U
21. 1,2-Dichloroethane	0.27	1.0	--- U
22. Trichloroethene	0.23	1.0	--- U
23. 1,2-Dichloropropane	0.21	1.0	--- U
24. Bromodichloromethane	0.21	1.0	--- U
25. Cis-1,3-Dichloropropene	0.24	1.0	--- U
26. 4-Methyl-2-Pentanone	1.19	100.0	--- U
27. Toluene	0.23	1.0	--- U
28. trans-1,3-Dichloropropene	0.28	1.0	--- U
29. 1,1,2-Trichloroethane	0.25	1.0	--- U
30. Tetrachloroethene	0.17	1.0	--- U
31. 2-Hexanone	1.57	50.0	--- U
32. Dibromochloromethane	0.24	3.0	--- U
33. 1,2-Dibromoethane	0.26	1.0	--- U
34. Chlorobenzene	0.30	3.0	--- U
35. 1,1,1,2-Tetrachloroethane	0.22	5.0	--- U
36. Ethylbenzene	0.21	1.0	--- U
37. Xylenes	0.68	5.0	--- U
38. Dibromomethane	0.28	10.0	--- U
39. Styrene	0.19	1.0	--- U
40. Bromoform	0.20	3.0	--- U
41. 1,1,2,2-Tetrachloroethane	0.26	3.0	--- U
42. 1,2,3-Trichloropropane	0.43	1.0	--- U
43. 1,4-Dichlorobenzene	0.39	1.0	--- U
44. 1,2-Dichlorobenzene	0.32	5.0	--- U
45. 1,2-Dibromo-3-Chloropropane	0.34	13.0	--- U
46. Acrylonitrile	2.72	200.0	--- U
47. trans-1,4-Dichloro-2-Butene	0.42	100.0	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Inc.
P.O. Box 7085, 114 Oakmont Dr.
Greenville, NC 27858

Phone (252) 756-6208 • Fax (252) 756-0633

CHAIN OF CUSTODY RECORD

Page 1 of 1

CLIENT: 6040 C Week: 43

HARNETT CO. (DUNN/ERWIN)
GENERAL SERVICES HARNETT CO.
MR. JERRY BLANCHARD, MANAGER
900 SOUTH 9TH STREET
LILLINGTON NC 27546

(919) 233-0407

DISINFECTION
- [ ] CHLORINE
- [ ] UV
- [ ] NONE
- [ ] _____

																						CHLORINE NEUTRALIZED AT COLLECTION
							22					22	22	22								pH CHECK (LAB)
						P	P	P	P	P		G	G	G								CONTAINER TYPE, P/G
						A	A	A	A	A		E	E	E								CHEMICAL PRESERVATION
SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l OR ug/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	Field pH	Metals	Turbidity	Conductivity	Temperature	Field Parameter	EPA 8260B	8260 Dup. 1	8260 Dup. 2								PARAMETERS
MW-16	10 30 12	1115		18	6	G	G	G	G	G	G	G	G	G								
MW-32	10 30 12	1040		16	5	G	G	G	G	G	G	G	G									
MW-33	10 30 12	1055		17	5	G	G	G	G	G	G	G	G									
MW23-B	10 30 12	1125		18	5	G	G	G	G	G	G	G	G									
MW-34	10 30 12	1050		17	5	G	G	G	G	G	G	G	G									
MW-35	10 30 12	1105		17	5	G	G	G	G	G	G	G	G									

A - NONE D - NAOH
B - HNO_3 E - HCL
C - H_2SO_4 F - ZINC ACETATE
G - NA THIOSULFATE

CLASSIFICATION:
- [ ] WASTEWATER (NPDES)
- [ ] DRINKING WATER
- [ ] DWQ/GW
- [X] SOLID WASTE SECTION

CHAIN OF CUSTODY MAINTAINED DURING SHIPMENT/DELIVERY
(Y) N

SAMPLES COLLECTED BY: (Please Print) Hilgoe / Fox

SAMPLES RECEIVED IN LAB AT 2.0 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bob Hilgoe	10 30 12	[signature]	10/30/12 230
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:

PLEASE READ Instructions for completing this form on the reverse side.

Sampler must place a "C" for composite sample or a "G" for Grab sample in the blocks above for each parameter requested.

No. 250822

Environmental 1, Inc.
P.O. Box 7085, 141 Oakmont Dr.
Greenville, NC 27858

Phone (252) 756-6208 • Fax (252) 756-0633

CHAIN OF CUSTODY RECORD

Page 1 of 1

CLIENT: 6040 C Week: 43

HARNETT CO. (DUNN/ERWIN)
GENERAL SERVICES HARNETT CO.
MR. JERRY BLANCHARD, MANAGER
900 SOUTH 9TH STREET
LILLINGTON NC 27546

(919) 233-0407

DISINFECTION
- ☐ CHLORINE
- ☐ UV
- ☐ NONE
- ☐ _____

SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l OR ug/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	Field pH	Metals	Turbidity	Conductivity	Temperature	Field Parameter	EPA 8260B	8260 Dup. 1	8260 Dup. 2
						P	P	P	P	P		G	G	G
						A	A	A	A	A		E	E	E
MW-16	10/30/12	1115		18	6	✓	✓	✓	✓	✓	✓	✓	✓	✓
MW-32	10/30/12	1040		16	5	✓	✓	✓	✓	✓	✓	✓	✓	
MW-33	10/30/12	1055		17	5	✓	✓	✓	✓	✓	✓	✓	✓	
MW23-B	10/30/12	1125		18	5	✓	✓	✓	✓	✓	✓	✓	✓	
MW-34	10/30/12	1050		17	5	✓	✓	✓	✓	✓	✓	✓	✓	
MW-35	10/30/12	1105		17	5	✓	✓	✓	✓	✓	✓	✓	✓	

CHLORINE NEUTRALIZED AT COLLECTION

pH CHECK (LAB): 12 12 12

CONTAINER TYPE, P/G

CHEMICAL PRESERVATION

PARAMETERS

A - NONE D - NAOH
B - HNO_3 E - HCL
C - H_2SO_4 F - ZINC ACETATE
G - NA THIOSULFATE

CLASSIFICATION:
- ☐ WASTEWATER (NPDES)
- ☐ DRINKING WATER
- ☐ DWQ/GW
- ☒ SOLID WASTE SECTION

CHAIN OF CUSTODY MAINTAINED DURING SHIPMENT/DELIVERY
(Y) N

SAMPLES COLLECTED BY: (Please Print) H Page / Fox

SAMPLES RECEIVED IN LAB AT 2.0 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
H Page	10/30/12		10/30/12 230
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:

PLEASE READ Instructions for completing this form on the reverse side.

Sampler must place a "C" for composite sample or a "G" for Grab sample in the blocks above for each parameter requested

No. 250222

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

ID#: 6040 F

HARNETT CO. (DUNN/ERWIN)
GENERAL SERVICES HARNETT CO.
MR. JERRY BLANCHARD, MANAGER
900 SOUTH 9TH STREET
LILLINGTON ,NC 27546

DATE COLLECTED: 10/31/12
DATE REPORTED : 11/26/12

REVIEWED BY:

PARAMETERS	MDL	SWSL	MW-11	MW-12	MW-13	MW-14	MW-15	Analysis Date	Analyst	Method Code
PH (field measurement), Units			5.2	5.5	6.8	5.7	Missing	10/31/12	RJH	4500HB-00
Antimony, ug/l	0.02	6.0	--- U	0.11 J	0.62 J	0.16 J	Missing	11/21/12	LFJ	EPA200.8
Arsenic, ug/l	0.13	10.0	0.28 J	--- U	0.24 J	--- U	Missing	11/21/12	LFJ	EPA200.8
Barium, ug/l	0.07	100.0	32.9 J	27.2 J	89.7 J	31.8 J	Missing	11/21/12	LFJ	EPA200.8
Beryllium, ug/l	0.07	1.0	0.17 J	0.91 J	0.25 J	0.47 J	Missing	11/21/12	LFJ	EPA200.8
Cadmium, ug/l	0.03	1.0	0.54 J	0.24 J	0.39 J	0.08 J	Missing	11/21/12	LFJ	EPA200.8
Cobalt, ug/l	0.02	10.0	0.53 J	0.43 J	1.2 J	0.22 J	Missing	11/21/12	LFJ	EPA200.8
Copper, ug/l	0.06	10.0	1.2 J	0.93 J	1.7 J	0.90 J	Missing	11/21/12	LFJ	EPA200.8
Total Chromium, ug/l	0.18	10.0	0.65 J	--- U	--- U	--- U	Missing	11/21/12	LFJ	EPA200.8
Lead, ug/l	0.08	10.0	0.84 J	0.48 J	0.46 J	0.55 J	Missing	11/21/12	LFJ	EPA200.8
Nickel, ug/l	0.06	50.0	0.89 J	1.1 J	4.7 J	1.1 J	Missing	11/21/12	LFJ	EPA200.8
Selenium, ug/l	0.17	10.0	0.25 J	--- U	--- U	--- U	Missing	11/21/12	LFJ	EPA200.8
Silver, ug/l	0.10	10.0	--- U	--- U	0.12 J	--- U	Missing	11/21/12	LFJ	EPA200.8
Thallium, ug/l	0.07	5.5	0.25 J	--- U	--- U	--- U	Missing	11/21/12	LFJ	EPA200.8
Vanadium, ug/l	0.10	25.0	1.8 J	1.4 J	0.95 J	1.8 J	Missing	11/21/12	LFJ	EPA200.8
Zinc, ug/l	0.48	10.0	3.5 J	4.4 J	8.1 J	4.4 J	Missing	11/21/12	LFJ	EPA200.8
Turbidity, NTU	1.0	1.0	31	28	12	21	Missing	11/01/12	HLB	2130B-01
Conductivity (at 25c), uMhos/cm	1.0	1.0	69	65	166	100	Missing	10/31/12	RJH	2510B-97
Temperature, °C			19	17	15	17	Missing	10/31/12	RJH	2550B-00
Static Water Level, feet			19.81	6.46	24.23	9.29	Missing	10/31/12	RJH	
Well Depth, feet			27.60	22.25	50.51	29.92	Missing	10/31/12	RJH	
Water Bailed, Gals.			3.6	7.2	12.6	9.6	Missing	10/31/12	RJH	

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: HARNETT CO. (DUNN/ERWIN)
GENERAL SERVICES HARNETT CO.
MR. JERRY BLANCHARD, MANAGER
900 SOUTH 9TH STREET
LILLINGTON, NC 27546

CLIENT ID: 6040 F

ANALYST: MAO
DATE COLLECTED: 10/31/12
DATE REPORTED: 11/26/12

REVIEWED BY: _____

VOLATILE ORGANICS
EPA METHOD 8260B R1(96)

PARAMETERS, ug/l	MDL	SWSL	Date Analyzed: 11/12/12 MW-11	11/09/12 MW-12	11/12/12 MW-13	11/12/12 MW-14
1. Chloromethane	0.77	1.0	--- U	--- U	--- U	--- U
2. Vinyl Chloride	0.63	1.0	--- U	--- U	--- U	--- U
3. Bromomethane	0.67	10.0	--- U	--- U	--- U	--- U
4. Chloroethane	0.48	10.0	--- U	--- U	--- U	--- U
5. Trichlorofluoromethane	0.24	1.0	--- U	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.17	5.0	--- U	--- U	--- U	--- U
7. Acetone	9.06	100.0	--- U	--- U	--- U	--- U
8. Iodomethane	0.26	10.0	--- U	--- U	--- U	--- U
9. Carbon Disulfide	0.23	100.0	--- U	--- U	--- U	--- U
10. Methylene Chloride	0.64	1.0	--- U	--- U	--- U	--- U
11. trans-1,2-Dichloroethene	0.23	5.0	--- U	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.20	5.0	--- U	--- U	--- U	--- U
13. Vinyl Acetate	0.20	50.0	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.25	5.0	--- U	--- U	--- U	--- U
15. 2-Butanone	2.21	100.0	--- U	--- U	--- U	--- U
16. Bromochloromethane	0.27	3.0	--- U	--- U	--- U	--- U
17. Chloroform	0.25	5.0	--- U	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.19	1.0	--- U	--- U	--- U	--- U
19. Carbon Tetrachloride	0.22	1.0	--- U	--- U	--- U	--- U
20. Benzene	0.24	1.0	--- U	--- U	--- U	--- U
21. 1,2-Dichloroethane	0.27	1.0	--- U	--- U	--- U	--- U
22. Trichloroethene	0.23	1.0	--- U	--- U	--- U	--- U
23. 1,2-Dichloropropane	0.21	1.0	--- U	--- U	--- U	--- U
24. Bromodichloromethane	0.21	1.0	--- U	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.24	1.0	--- U	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	1.19	100.0	--- U	--- U	--- U	--- U
27. Toluene	0.23	1.0	--- U	--- U	--- U	--- U
28. trans-1,3-Dichloropropene	0.28	1.0	--- U	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.25	1.0	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.17	1.0	--- U	--- U	--- U	--- U
31. 2-Hexanone	1.57	50.0	--- U	--- U	--- U	--- U
32. Dibromochloromethane	0.24	3.0	--- U	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.26	1.0	--- U	--- U	--- U	--- U
34. Chlorobenzene	0.30	3.0	--- U	--- U	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.22	5.0	--- U	--- U	--- U	--- U
36. Ethylbenzene	0.21	1.0	--- U	--- U	--- U	--- U
37. Xylenes	0.68	5.0	--- U	--- U	--- U	--- U
38. Dibromomethane	0.28	10.0	--- U	--- U	--- U	--- U
39. Styrene	0.19	1.0	--- U	--- U	--- U	--- U
40. Bromoform	0.20	3.0	--- U	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.26	3.0	--- U	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.43	1.0	--- U	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.39	1.0	--- U	--- U	--- U	--- U
44. 1,2-Dichlorobenzene	0.32	5.0	--- U	--- U	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.34	13.0	--- U	--- U	--- U	--- U
46. Acrylonitrile	2.72	200.0	--- U	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.42	100.0	--- U	--- U	--- U	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: HARNETT CO. (DUNN/ERWIN)
GENERAL SERVICES HARNETT CO.
MR. JERRY BLANCHARD, MANAGER
900 SOUTH 9TH STREET
LILLINGTON, NC 27546

CLIENT ID: 6040 F
ANALYST: MAO
DATE COLLECTED: 10/31/12
DATE REPORTED: 11/26/12

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B R1(96)

PARAMETERS, ug/l	Date Analyzed: MDL	SWSL	11/12/12 MW-11	11/09/12 MW-12	11/12/12 MW-13	11/12/12 MW-14
48. Tetrahydrofuran	0.39	1.0	--- U	--- U	--- U	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Inc.
P.O. Box 7025, 414 Oakmont Dr.
Greenville, NC 27858

Phone (252) 756-6208 • Fax (252) 756-0633

CHAIN OF CUSTODY RECORD

CLIENT: 6040 F Week: 43

HARNETT CO. (DUNN/ERWIN)
GENERAL SERVICES HARNETT CO.
MR. JERRY BLANCHARD, MANAGER
900 SOUTH 9TH STREET
LILLINGTON NC 27546

(919) 233-0407

DISINFECTION
- ☐ CHLORINE
- ☐ UV
- ☐ NONE
- ☐ _____

SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l OR ug/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	Field pH	Metals	Turbidity	Conductivity	Temperature	Field Parameter	EPA 8260B	8260 Dup. 1	8260 Dup. 2
						A	A	A	A	A		E	E	E
						P	P	P	P	P		G	G	G
							12					12	12	12
MW-11	10/31/12	0830		19	6	G	G	G	G	G	G	G	G	G
MW-12	10/31/12	0850		17	5	G	G	G	G	G	G	G	G	
MW-13	10/31/12	0840		15	5	G	G	G	G	G	G	G	G	
MW-14	10/31/12	0985		17	5	G	G	G	G	G	G	G	G	
~~MW-15~~					5									

PARAMETERS

A - NONE D - NAOH
B - HNO_3 E - HCL
C - H_2SO_4 F - ZINC ACETATE
G - NA THIOSULFATE

CHLORINE NEUTRALIZED AT COLLECTION

pH CHECK (LAB)

CONTAINER TYPE, P/G

CHEMICAL PRESERVATION

CLASSIFICATION:
- ☐ WASTEWATER (NPDES)
- ☐ DRINKING WATER
- ☐ DWQ/GW
- ☒ SOLID WASTE SECTION

CHAIN OF CUSTODY MAINTAINED DURING SHIPMENT/DELIVERY
(Y) N

SAMPLES COLLECTED BY:
(Please Print)
N Lape

SAMPLES RECEIVED IN LAB AT 0.2 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
N Lape	10/31/12		10/31/12 11:14
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:
40 15 DRY

PLEASE READ Instructions for completing this form on the reverse side.

Sampler must place a "C" for composite sample or a "G" for Grab sample in the blocks above for each parameter requested.

No. 250847

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

ID#: 6040 G

HARNETT CO. (DUNN/ERWIN)
GENERAL SERVICES HARNETT CO.
MR. JERRY BLANCHARD, MANAGER
900 SOUTH 9TH STREET
LILLINGTON ,NC 27546

DATE COLLECTED: 10/30/12
DATE REPORTED : 11/23/12

REVIEWED BY:

PARAMETERS	MDL	SWSL	MW-53	MW-56	MW-57	MW-58	MW-59	Analysis Date	Analyst	Method Code
PH (field measurement), Units			4.7	4.7	4.7	5.1	5.0	10/30/12	RJH	4500HB-00
Antimony, ug/l	0.02	6.0	0.15 J	0.03 J	0.06 J	--- U	--- U	11/05/12	LFJ	EPA200.8
Arsenic, ug/l	0.13	10.0	2.6 J	0.24 J	0.81 J	0.35 J	3.0 J	11/05/12	LFJ	EPA200.8
Barium, ug/l	0.07	100.0	35.3 J	29.9 J	108	27.6 J	52.6 J	11/05/12	LFJ	EPA200.8
Beryllium, ug/l	0.07	1.0	0.11 J	0.30 J	0.87 J	0.10 J	0.62 J	11/05/12	LFJ	EPA200.8
Cadmium, ug/l	0.03	1.0	0.75 J	0.13 J	0.24 J	0.13 J	0.15 J	11/07/12	LFJ	EPA200.8
Cobalt, ug/l	0.02	10.0	1.1 J	0.87 J	2.9 J	0.51 J	3.0 J	11/05/12	LFJ	EPA200.8
Copper, ug/l	0.06	10.0	0.98 J	0.77 J	3.2 J	1.1 J	14	11/05/12	LFJ	EPA200.8
Total Chromium, ug/l	0.18	10.0	--- U	--- U	1.2 J	1.6 J	1.8 J	11/05/12	LFJ	EPA200.8
Lead, ug/l	0.08	10.0	0.70 J	0.84 J	1.8 J	1.1 J	7.0 J	11/05/12	LFJ	EPA200.8
Nickel, ug/l	0.06	50.0	1.4 J	0.89 J	2.7 J	1.3 J	2.3 J	11/05/12	LFJ	EPA200.8
Selenium, ug/l	0.17	10.0	0.18 J	--- U	0.94 J	--- U	0.29 J	11/05/12	LFJ	EPA200.8
Silver, ug/l	0.10	10.0	--- U	--- U	--- U	--- U	--- U	11/05/12	LFJ	EPA200.8
Thallium, ug/l	0.07	5.5	--- U	--- U	--- U	--- U	--- U	11/07/12	LFJ	EPA200.8
Vanadium, ug/l	0.10	25.0	0.65 J	1.1 J	3.5 J	2.6 J	6.4 J	11/05/12	LFJ	EPA200.8
Zinc, ug/l	0.48	10.0	5.0 J	4.0 J	8.2 J	2.9 J	7.0 J	11/05/12	LFJ	EPA200.8
Turbidity, NTU	1.0	1.0	8.3	37	30	58	38	11/01/12	HLB	2130B-01
Conductivity (at 25c), uMhos/cm	1.0	1.0	124	79	265	57	126	10/30/12	RJH	2510B-97
Temperature, °C			19	19	20	18	20	10/30/12	RJH	2550B-00
Static Water Level, feet			14.13	7.65	6.42	10.14	10.14	10/30/12	RJH	
Well Depth, feet			18.09	17.10	17.11	18.08	18.04	10/30/12	RJH	
Water Bailed, Gals.			1.5	4.5	4.8	3.6	3.6	10/30/12	RJH	

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: HARNETT CO. (DUNN/ERWIN)
GENERAL SERVICES HARNETT CO.
MR. JERRY BLANCHARD, MANAGER
900 SOUTH 9TH STREET
LILLINGTON, NC 27546

REVIEWED BY: _____

CLIENT ID: 6040 G

ANALYST: MAO
DATE COLLECTED: 10/30/12
DATE ANALYZED: 11/09/12
DATE REPORTED: 11/23/12

VOLATILE ORGANICS
EPA METHOD 8260B R1(96)

PARAMETERS, ug/l	MDL	SWSL	MW-53	MW-56	MW-57	MW-58	MW-59
1. Chloromethane	0.77	1.0	--- U	--- U	--- U	--- U	--- U
2. Vinyl Chloride	0.63	1.0	1.40	--- U	1.20	--- U	0.80 J
3. Bromomethane	0.67	10.0	--- U	--- U	--- U	--- U	--- U
4. Chloroethane	0.48	10.0	2.60 J	--- U	1.20 J	--- U	--- U
5. Trichlorofluoromethane	0.24	1.0	--- U	--- U	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.17	5.0	--- U	--- U	--- U	--- U	--- U
7. Acetone	9.06	100.0	17.80 J	--- U	--- U	--- U	12.40 J
8. Iodomethane	0.26	10.0	--- U	--- U	--- U	--- U	--- U
9. Carbon Disulfide	0.23	100.0	--- U	--- U	--- U	--- U	--- U
10. Methylene Chloride	0.64	1.0	2.60	--- U	0.70 J	--- U	--- U
11. trans-1,2-Dichloroethene	0.23	5.0	--- U	--- U	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.20	5.0	6.70	--- U	3.60 J	2.30 J	0.40 J
13. Vinyl Acetate	0.20	50.0	--- U	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.25	5.0	5.10	--- U	5.80	--- U	2.70 J
15. 2-Butanone	2.21	100.0	--- U	--- U	--- U	--- U	--- U
16. Bromochloromethane	0.27	3.0	--- U	--- U	--- U	--- U	--- U
17. Chloroform	0.25	5.0	--- U	--- U	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.19	1.0	--- U	--- U	--- U	--- U	--- U
19. Carbon Tetrachloride	0.22	1.0	--- U	--- U	--- U	--- U	--- U
20. Benzene	0.24	1.0	1.90	--- U	1.70	--- U	0.60 J
21. 1,2-Dichloroethane	0.27	1.0	--- U	--- U	--- U	--- U	--- U
22. Trichloroethene	0.23	1.0	1.00	--- U	0.70 J	0.40 J	0.30 J
23. 1,2-Dichloropropane	0.21	1.0	--- U	--- U	--- U	--- U	--- U
24. Bromodichloromethane	0.21	1.0	--- U	--- U	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.24	1.0	--- U	--- U	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	1.19	100.0	--- U	--- U	--- U	--- U	--- U
27. Toluene	0.23	1.0	--- U	--- U	--- U	--- U	--- U
28. trans-1,3-Dichloropropene	0.28	1.0	--- U	--- U	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.25	1.0	--- U	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.17	1.0	0.70 J	--- U	--- U	0.20 J	--- U
31. 2-Hexanone	1.57	50.0	--- U	--- U	--- U	--- U	--- U
32. Dibromochloromethane	0.24	3.0	--- U	--- U	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.26	1.0	--- U	--- U	--- U	--- U	--- U
34. Chlorobenzene	0.30	3.0	--- U	--- U	--- U	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.22	5.0	--- U	--- U	--- U	--- U	--- U
36. Ethylbenzene	0.21	1.0	--- U	--- U	--- U	--- U	--- U
37. Xylenes	0.68	5.0	--- U	--- U	--- U	--- U	--- U
38. Dibromomethane	0.28	10.0	--- U	--- U	--- U	--- U	--- U
39. Styrene	0.19	1.0	--- U	--- U	--- U	--- U	--- U
40. Bromoform	0.20	3.0	--- U	--- U	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.26	3.0	--- U	--- U	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.43	1.0	--- U	--- U	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.39	1.0	3.00	--- U	1.30	--- U	--- U
44. 1,2-Dichlorobenzene	0.32	5.0	--- U	--- U	--- U	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.34	13.0	--- U	--- U	--- U	--- U	--- U
46. Acrylonitrile	2.72	200.0	--- U	--- U	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.42	100.0	--- U	--- U	--- U	--- U	--- U
48. Tetrahydrofuran	0.39	1.0	2.00	--- U	--- U	--- U	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Inc.
P.O. Box 7085, 114 Oakmont Dr.
Greenville, NC 27858

Phone (252) 756-6208 - Fax (252) 756-0633

CHAIN OF CUSTODY RECORD

CLIENT: 6040 G Week: 43

HARNETT CO. (DUNN/ERWIN)
GENERAL SERVICES HARNETT CO.
MR. JERRY BLANCHARD, MANAGER
900 SOUTH 9TH STREET
LILLINGTON NC 27546

(919) 233-0407

DISINFECTION
- [ ] CHLORINE
- [ ] UV
- [ ] NONE
- [ ] _____

SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l OR ug/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	Field pH	Metals	Turbidity	Conductivity	Temperature	Field Parameter	EPA 8260B	8260 Dup. 1	8260 Dup. 2
							L2					L2	L2	L2
						P	P	P	P	P		G	G	G
						A	A	A	A	A		E	E	E
MW-53	10 3012	0850		19	6	G	G	G	G	G	G	G	G	G
MW-56	10 3012	0950		19	5	G	G	G	G	G	G	G	G	
MW-57	10 3012	1000		20	5	G	G	G	G	G	G	G	G	
MW-58	10 3012	0945		18	5	G	G	G	G	G	G	G	G	
MW-59	10 3012	1005		20	5	G	G	G	G	G	G	G	G	

PARAMETERS

CHLORINE NEUTRALIZED AT COLLECTION

pH CHECK (LAB)

CONTAINER TYPE, P/G

CHEMICAL PRESERVATION

A - NONE D - NAOH
B - HNO_3 E - HCL
C - H_2SO_4 F - ZINC ACETATE
G - NA THIOSULFATE

CLASSIFICATION:
- [ ] WASTEWATER (NPDES)
- [ ] DRINKING WATER
- [ ] DWQ/GW
- [X] SOLID WASTE SECTION

CHAIN OF CUSTODY MAINTAINED DURING SHIPMENT/DELIVERY
(Y) N

SAMPLES COLLECTED BY: (Please Print) H Igoe | Fox

SAMPLES RECEIVED IN LAB AT 2.0 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bob H Igoe	10 3012	[signature]	10/30/12 240
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:

PLEASE READ Instructions for completing this form on the reverse side.

Sampler must place a "C" for composite sample or a "G" for Grab sample in the blocks above for each parameter [illegible]

No. 250816

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

ID#: 6040 A

HARNETT CO. (DUNN/ERWIN)
GENERAL SERVICES HARNETT CO.
MR. JERRY BLANCHARD, MANAGER
900 SOUTH 9TH STREET
LILLINGTON ,NC 27546

DATE COLLECTED: 10/29/12
DATE REPORTED : 11/23/12

REVIEWED BY:

PARAMETERS	MDL	SWSL	SW-1	SW-2	SW-3	SW-4	Analysis Date	Analyst	Method Code
PH (field measurement), Units			6.0	5.9	5.8	5.9	10/29/12	RJH	4500HB-00
Antimony, ug/l	0.02	6.0	--- U	--- U	--- U	--- U	11/01/12	LFJ	EPA200.8
Arsenic, ug/l	0.13	10.0	4.3 J	1.6 J	1.5 J	8 J	11/01/12	LFJ	EPA200.8
Barium, ug/l	0.07	100.0	72.3 J	42.1 J	64.3 J	86.6 J	11/01/12	LFJ	EPA200.8
Beryllium, ug/l	0.07	1.0	0.25 J	--- U	--- U	0.21 J	11/01/12	LFJ	EPA200.8
Cadmium, ug/l	0.03	1.0	0.21 J	--- U	--- U	0.08 J	11/01/12	LFJ	EPA200.8
Cobalt, ug/l	0.02	10.0	2.1 J	2.0 J	5.1 J	2.0 J	11/01/12	LFJ	EPA200.8
Copper, ug/l	0.06	10.0	8.6 J	4.1 J	2.2 J	3.0 J	11/01/12	LFJ	EPA200.8
Total Chromium, ug/l	0.18	10.0	6.6 J	0.37 J	1.4 J	2.8 J	11/01/12	LFJ	EPA200.8
Lead, ug/l	0.08	10.0	8.0 J	0.43 J	0.90 J	8.8 J	11/01/12	LFJ	EPA200.8
Nickel, ug/l	0.06	50.0	2.8 J	1.4 J	2.5 J	2.1 J	11/01/12	LFJ	EPA200.8
Selenium, ug/l	0.17	10.0	0.28 J	--- U	--- U	0.28 J	11/01/12	LFJ	EPA200.8
Silver, ug/l	0.10	10.0	--- U	--- U	--- U	--- U	11/01/12	LFJ	EPA200.8
Thallium, ug/l	0.07	5.5	--- U	--- U	--- U	--- U	11/01/12	LFJ	EPA200.8
Vanadium, ug/l	0.10	25.0	16.8 J	2.0 J	4.3 J	12.0 J	11/01/12	LFJ	EPA200.8
Zinc, ug/l	0.48	10.0	35	9.3 J	15	14	11/01/12	LFJ	EPA200.8
Turbidity, NTU	1.0	1.0	700	55	60	155	10/29/12	HLB	2130B-01
Conductivity (at 25c), uMhos/cm	1.0	1.0	106	162	443	117	10/29/12	RJH	2510B-97
Temperature, °C			14	13	15	14	10/29/12	RJH	2550B-00

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: HARNETT CO. (DUNN/ERWIN)
GENERAL SERVICES HARNETT CO.
MR. JERRY BLANCHARD, MANAGER
900 SOUTH 9TH STREET
LILLINGTON, NC 27546

REVIEWED BY:

CLIENT ID: 6040 A

ANALYST: MAO
DATE COLLECTED: 10/29/12
DATE ANALYZED: 11/01/12
DATE REPORTED: 11/23/12

VOLATILE ORGANICS
EPA METHOD 8260B R1(96)

PARAMETERS, ug/l	MDL	SWSL	SW-1	SW-2	SW-3	SW-4
1. Chloromethane	0.77	1.0	--- U	--- U	--- U	--- U
2. Vinyl Chloride	0.63	1.0	--- U	--- U	--- U	--- U
3. Bromomethane	0.67	10.0	--- U	--- U	--- U	--- U
4. Chloroethane	0.48	10.0	--- U	--- U	--- U	--- U
5. Trichlorofluoromethane	0.24	1.0	--- U	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.17	5.0	--- U	--- U	--- U	--- U
7. Acetone	9.06	100.0	--- U	--- U	--- U	--- U
8. Iodomethane	0.26	10.0	--- U	--- U	--- U	--- U
9. Carbon Disulfide	0.23	100.0	--- U	--- U	--- U	--- U
10. Methylene Chloride	0.64	1.0	--- U	--- U	--- U	--- U
11. trans-1,2-Dichloroethene	0.23	5.0	--- U	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.20	5.0	--- U	--- U	--- U	--- U
13. Vinyl Acetate	0.20	50.0	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.25	5.0	--- U	--- U	--- U	--- U
15. 2-Butanone	2.21	100.0	--- U	--- U	--- U	--- U
16. Bromochloromethane	0.27	3.0	--- U	--- U	--- U	--- U
17. Chloroform	0.25	5.0	--- U	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.19	1.0	--- U	--- U	--- U	--- U
19. Carbon Tetrachloride	0.22	1.0	--- U	--- U	--- U	--- U
20. Benzene	0.24	1.0	--- U	--- U	--- U	--- U
21. 1,2-Dichloroethane	0.27	1.0	--- U	--- U	--- U	--- U
22. Trichloroethene	0.23	1.0	--- U	--- U	--- U	--- U
23. 1,2-Dichloropropane	0.21	1.0	--- U	--- U	--- U	--- U
24. Bromodichloromethane	0.21	1.0	--- U	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.24	1.0	--- U	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	1.19	100.0	--- U	--- U	--- U	--- U
27. Toluene	0.23	1.0	--- U	--- U	--- U	1.60
28. trans-1,3-Dichloropropene	0.28	1.0	--- U	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.25	1.0	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.17	1.0	--- U	--- U	--- U	--- U
31. 2-Hexanone	1.57	50.0	--- U	--- U	--- U	--- U
32. Dibromochloromethane	0.24	3.0	--- U	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.26	1.0	--- U	--- U	--- U	--- U
34. Chlorobenzene	0.30	3.0	--- U	--- U	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.22	5.0	--- U	--- U	--- U	--- U
36. Ethylbenzene	0.21	1.0	--- U	--- U	--- U	--- U
37. Xylenes	0.68	5.0	--- U	--- U	--- U	--- U
38. Dibromomethane	0.28	10.0	--- U	--- U	--- U	--- U
39. Styrene	0.19	1.0	--- U	--- U	--- U	--- U
40. Bromoform	0.20	3.0	--- U	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.26	3.0	--- U	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.43	1.0	--- U	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.39	1.0	--- U	--- U	--- U	--- U
44. 1,2-Dichlorobenzene	0.32	5.0	--- U	--- U	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.34	13.0	--- U	--- U	--- U	--- U
46. Acrylonitrile	2.72	200.0	--- U	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.42	100.0	--- U	--- U	--- U	--- U
48. Tetrahydrofuran	0.39	1.0	--- U	--- U	--- U	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Inc.
P.O. Box 7085, 114 Oakmont Dr.
Greenville, NC 27858

Phone (252) 756-6208 • Fax (252) 756-0633

CHAIN OF CUSTODY RECORD

CLIENT: 6040 A **Week:** 43

HARNETT CO. (DUNN/ERWIN)
GENERAL SERVICES HARNETT CO.
MR. JERRY BLANCHARD, MANAGER
900 SOUTH 9TH STREET
LILLINGTON NC 27546

(919) 233-0407

DISINFECTION: ☐ CHLORINE ☐ UV ☐ NONE ☐ _____

SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l OR ug/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	Field pH	Metals	Turbidity	Conductivity	Temperature	EPA 8260B	8260 Dup. 1	8260 Dup. 2
						P	P	P	P	P	G	G	G
						A	A	A	A	A	E	E	E
SW-1	10/29/12	1215		14	6	☐	☐	☐	☐	☐	☐	☐	☐
SW-2	10/29/12	0925		13	5	☐	☐	☐	☐	☐	☐	☐	
SW-3	10/29/12	1035		15	5	☐	☐	☐	☐	☐	☐	☐	
SW-4	10/29/12	1120		14	6	☐	☐	☐	☐	☐	☐	☐	☐

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME 10/29/12	RECEIVED BY (SIG.)	DATE/TIME 10/29 1330
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

CHLORINE NEUTRALIZED AT COLLECTION

pH CHECK (LAB): 12 12 12

CONTAINER TYPE, P/G: P P P P P G G G

CHEMICAL PRESERVATION: A A A A A E E E

PARAMETERS

A - NONE D - NAOH
B - HNO_3 E - HCL
C - H_2SO_4 F - ZINC ACETATE
G - NA THIOSULFATE

CLASSIFICATION:
☐ WASTEWATER (NPDES)
☐ DRINKING WATER
☐ DWQ/GW
☒ SOLID WASTE SECTION

CHAIN OF CUSTODY MAINTAINED DURING SHIPMENT/DELIVERY
(Y) N

SAMPLES COLLECTED BY: (Please Print)

SAMPLES RECEIVED IN LAB AT 1.6 °C

COMMENTS:

PLEASE READ Instructions for completing this form on the reverse side.

FORM #5

Sampler must place a "C" for composite sample or a "G" for Grab sample in the blocks above for each parameter requested.

No. 250823

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

ID#: 6040 E

HARNETT CO. (DUNN/ERWIN)
GENERAL SERVICES HARNETT CO.
MR. JERRY BLANCHARD, MANAGER
900 SOUTH 9TH STREET
LILLINGTON ,NC 27546

DATE COLLECTED: 10/29/12
DATE REPORTED : 11/23/12

REVIEWED BY:

PARAMETERS	MDL	SWSL	Piezometer #41S	Piezometer #44S	Piezometer #44D	Piezometer #46D	Piezometer #47S	Analysis Date	Analyst	Method Code
Static Water Level, feet			16.89	7.68	10.28	16.92	15.62	10/29/12	RJH	

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

ID#: 6040 E

HARNETT CO. (DUNN/ERWIN)
GENERAL SERVICES HARNETT CO.
MR. JERRY BLANCHARD, MANAGER
900 SOUTH 9TH STREET
LILLINGTON ,NC 27546

DATE COLLECTED: 10/29/12
DATE REPORTED : 11/23/12

REVIEWED BY:

PARAMETERS	MDL	Piezometer SWSL #47D	Piezometer #48S	Piezometer #51	Piezometer #52	Piezometer #53	Analysis Date	Analyst	Method Code
Static Water Level, feet		25.88	14.14	10.05	20.73	18.54	10/29/12	RJH	

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

ID#: 6040 E

HARNETT CO. (DUNN/ERWIN)
GENERAL SERVICES HARNETT CO.
MR. JERRY BLANCHARD, MANAGER
900 SOUTH 9TH STREET
LILLINGTON ,NC 27546

DATE COLLECTED: 10/29/12
DATE REPORTED : 11/23/12

REVIEWED BY:

PARAMETERS	MDL	SWSL	Piezometer #54	Piezometer #55	Piezometer #56	Piezometer #57	Piezometer #58	Analysis Date	Analyst	Method Code
Static Water Level, feet			15.56	14.35	12.79	11.63	12.43	10/29/12	RJH	

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

ID#: 6040 E

HARNETT CO. (DUNN/ERWIN)
GENERAL SERVICES HARNETT CO.
MR. JERRY BLANCHARD, MANAGER
900 SOUTH 9TH STREET
LILLINGTON ,NC 27546

DATE COLLECTED: 10/29/12
DATE REPORTED : 11/23/12

REVIEWED BY:

PARAMETERS	MDL	Piezometer SWSL #59	GP-24-W	GP-25-W	GP-27-W	GP-28-W	Analysis Date	Analyst	Method Code
Static Water Level, feet		13.02	8.22	10.22	18.05	13.39	10/29/12	RJH	

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
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ID#: 6040 E

HARNETT CO. (DUNN/ERWIN)
GENERAL SERVICES HARNETT CO.
MR. JERRY BLANCHARD, MANAGER
900 SOUTH 9TH STREET
LILLINGTON ,NC 27546

DATE COLLECTED: 10/29/12
DATE REPORTED : 11/23/12

REVIEWED BY:

PARAMETERS	MDL	GP-30-W SWSL	GP-31-W	GP-33-W	GP-34-W	GP-35-W	Analysis Date	Analyst	Method Code
Static Water Level, feet		16.94	9.37	Missing	Missing	4.71	10/29/12	RJH	

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

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ID#: 6040 E

HARNETT CO. (DUNN/ERWIN)
GENERAL SERVICES HARNETT CO.
MR. JERRY BLANCHARD, MANAGER
900 SOUTH 9TH STREET
LILLINGTON ,NC 27546

DATE COLLECTED: 10/29/12
DATE REPORTED : 11/23/12

REVIEWED BY:

PARAMETERS	MDL	GP-36-W SWSL	GP-37-W	GP-38-W	Analysis Date	Analyst	Method Code
Static Water Level, feet		20.42	9.63	15.83	10/29/12	RJH	

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: HARNETT CO. (DUNN/ERWIN)
GENERAL SERVICES HARNETT CO.
MR. JERRY BLANCHARD, MANAGER
900 SOUTH 9TH STREET
LILLINGTON, NC 27546

REVIEWED BY: _____

CLIENT ID: 6040 E

ANALYST: MAO
DATE COLLECTED: 10/29/12
DATE ANALYZED: 10/30/12
DATE REPORTED: 11/23/12

VOLATILE ORGANICS
EPA METHOD 8260B R1(96)

PARAMETERS, ug/l	MDL	SWSL	Piezometer #41S	GP-25-W	GP-30-W	GP-37-W	GP-38-W
1. Chloromethane	0.77	1.0	--- U	--- U	--- U	--- U	--- U
2. Vinyl Chloride	0.63	1.0	2.10	--- U	--- U	--- U	0.70 J
3. Bromomethane	0.67	10.0	--- U	--- U	--- U	--- U	--- U
4. Chloroethane	0.48	10.0	--- U	--- U	--- U	--- U	0.80 J
5. Trichlorofluoromethane	0.24	1.0	--- U	--- U	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.17	5.0	--- U	--- U	--- U	--- U	--- U
7. Acetone	9.06	100.0	--- U	--- U	--- U	--- U	--- U
8. Iodomethane	0.26	10.0	--- U	--- U	--- U	--- U	--- U
9. Carbon Disulfide	0.23	100.0	--- U	--- U	--- U	--- U	--- U
10. Methylene Chloride	0.64	1.0	3.30	--- U	1.20	--- U	--- U
11. trans-1,2-Dichloroethene	0.23	5.0	--- U	--- U	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.20	5.0	2.10 J	1.10 J	1.40 J	2.90 J	0.80 J
13. Vinyl Acetate	0.20	50.0	--- U	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.25	5.0	7.50	--- U	1.50 J	--- U	19.30
15. 2-Butanone	2.21	100.0	--- U	--- U	--- U	--- U	--- U
16. Bromochloromethane	0.27	3.0	--- U	--- U	--- U	--- U	--- U
17. Chloroform	0.25	5.0	--- U	--- U	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.19	1.0	--- U	--- U	--- U	--- U	--- U
19. Carbon Tetrachloride	0.22	1.0	--- U	--- U	--- U	--- U	--- U
20. Benzene	0.24	1.0	2.30	--- U	0.40 J	--- U	4.50
21. 1,2-Dichloroethane	0.27	1.0	--- U	--- U	--- U	--- U	--- U
22. Trichloroethene	0.23	1.0	2.30	--- U	--- U	--- U	0.80 J
23. 1,2-Dichloropropane	0.21	1.0	--- U	--- U	--- U	--- U	--- U
24. Bromodichloromethane	0.21	1.0	--- U	--- U	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.24	1.0	--- U	--- U	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	1.19	100.0	--- U	--- U	--- U	--- U	--- U
27. Toluene	0.23	1.0	--- U	--- U	--- U	--- U	--- U
28. trans-1,3-Dichloropropene	0.28	1.0	--- U	--- U	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.25	1.0	--- U	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.17	1.0	3.20	0.30 J	0.50 J	0.30 J	0.30 J
31. 2-Hexanone	1.57	50.0	--- U	--- U	--- U	--- U	--- U
32. Dibromochloromethane	0.24	3.0	--- U	--- U	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.26	1.0	--- U	--- U	--- U	--- U	--- U
34. Chlorobenzene	0.30	3.0	0.30 J	--- U	--- U	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.22	5.0	--- U	--- U	--- U	--- U	--- U
36. Ethylbenzene	0.21	1.0	--- U	--- U	--- U	--- U	--- U
37. Xylenes	0.68	5.0	--- U	--- U	--- U	--- U	--- U
38. Dibromomethane	0.28	10.0	--- U	--- U	--- U	--- U	--- U
39. Styrene	0.19	1.0	--- U	--- U	--- U	--- U	--- U
40. Bromoform	0.20	3.0	--- U	--- U	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.26	3.0	--- U	--- U	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.43	1.0	--- U	--- U	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.39	1.0	1.30	--- U	0.80 J	--- U	0.90 J
44. 1,2-Dichlorobenzene	0.32	5.0	--- U	--- U	--- U	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.34	13.0	--- U	--- U	--- U	--- U	--- U
46. Acrylonitrile	2.72	200.0	--- U	--- U	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.42	100.0	--- U	--- U	--- U	--- U	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

ID#: 6040 E

HARNETT CO. (DUNN/ERWIN)
GENERAL SERVICES HARNETT CO.
MR. JERRY BLANCHARD, MANAGER
900 SOUTH 9TH STREET
LILLINGTON ,NC 27546

DATE COLLECTED: 10/30/12
DATE REPORTED : 10/30/12

REVIEWED BY:

PARAMETERS	MDL	SWSL	Pizeometer #50	Analysis Date	Analyst	Method Code
Static Water Level, feet			Missing			

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Inc.
P.O. Box 7085, 114 Oakmont Dr.
Greenville, NC 27858

Phone (252) 756-6208 • Fax (252) 756-0633

CHAIN OF CUSTODY RECORD

CLIENT: 6040 E **Week:** 43

HARNETT CO. (DUNN/ERWIN)
GENERAL SERVICES HARNETT CO.
MR. JERRY BLANCHARD, MANAGER
900 SOUTH 9TH STREET
LILLINGTON NC 27546

(919) 233-0407

DISINFECTION
- ☐ CHLORINE
- ☐ UV
- ☐ NONE
- ☐ _____

SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l OR ug/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	Field Parameter	EPA 8260B	8260 Dup. 1	8260 Dup. 2
							2	2	2
							G	G	G
							E	E	E
Piezometer #41S	10/29/12	0915		19	4	G	G	G	G
Piezometer #44S	10/29/12				1	G			
Piezometer #44D	10/29/12				1	G			
Piezometer #46D	10/29/12				1	G			
Piezometer #47S	10/29/12				1	G			
Piezometer #47D	10/29/12				1	G			
Piezometer #48S	10/29/12				1	G			
~~Pizeometer #50~~					1	G			
Piezometer #51	10/29/12				1	G			
Piezometer #52	10/29/12				1	G			
Piezometer #53	10/29/12				1	G			

~DRY

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
W.B. Hope	10/29/12		
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
			10/29 1530
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

CHLORINE NEUTRALIZED AT COLLECTION
pH CHECK (LAB)
CONTAINER TYPE, P/G
CHEMICAL PRESERVATION

PARAMETERS

A - NONE D - NAOH
B - HNO_3 E - HCL
C - H_2SO_4 F - ZINC ACETATE
G - NA THIOSULFATE

CLASSIFICATION:
- ☐ WASTEWATER (NPDES)
- ☐ DRINKING WATER
- ☐ DWQ/GW
- ☒ SOLID WASTE SECTION

CHAIN OF CUSTODY MAINTAINED DURING SHIPMENT/DELIVERY
Y (O) N

SAMPLES COLLECTED BY:
(Please Print)
W Hope / FOX

SAMPLES RECEIVED IN LAB AT 1.4 °C

COMMENTS:
PZ47D APPROX. 1' SHORTER DUE TO DAMAGE
PZ50 DRY AT TIME OF COLLECTION

PLEASE READ Instructions for completing this form on the reverse side.

Sampler must place a "C" for composite sample or a "G" for Grab sample in the blocks above for each parameter requested.

FORM #5

№ 250820

Environment 1, Inc.
P.O. Box 7085, 114 Oakmont Dr.
Greenville, NC 27858

Phone (252) 756-6208 • Fax (252) 756-0633

CHAIN OF CUSTODY RECORD

CLIENT: 6040 E Week: 43

HARNETT CO. (DUNN/ERWIN)
GENERAL SERVICES HARNETT CO.
MR. JERRY BLANCHARD, MANAGER
900 SOUTH 9TH STREET
LILLINGTON NC 27546

(919) 233-0407

DISINFECTION
- [ ] CHLORINE
- [ ] UV
- [ ] NONE
- [ ] _____

SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l OR ug/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	Field Parameter	EPA 8260B	8260 Dup. 1	8260 Dup. 2
							C2	C2	
							G	G	G
							E	E	E
Piezometer #54	10 29 12				1	G			
Piezometer #55	10 29 12				1	G			
Piezometer #56	10 29 12				1	G			
Piezometer #57	10 29 12				1	G			
Piezometer #58	10 29 12				1	G			
Piezometer #59	10 29 12				1	G			
GP-24-W	10 29 12				1	G			
GP-25-W	10 29 12	1140		18	3	G	G	G	
GP-27-W	10 29 12				1	G			
GP-28-W	10 29 12				1	G			
GP-30-W	10 29 12	0950		20	3	G	G	G	

PARAMETERS

CHLORINE NEUTRALIZED AT COLLECTION

pH CHECK (LAB)

CONTAINER TYPE, P/G

CHEMICAL PRESERVATION

A - NONE D - NAOH
B - HNO_3 E - HCL
C - H_2SO_4 F - ZINC ACETATE
G - NA THIOSULFATE

CLASSIFICATION:
- [ ] WASTEWATER (NPDES)
- [ ] DRINKING WATER
- [ ] DWQ/GW
- [X] SOLID WASTE SECTION

CHAIN OF CUSTODY MAINTAINED DURING SHIPMENT/DELIVERY
(Y) N

SAMPLES COLLECTED BY: (Please Print) H Ingoe / F at

SAMPLES RECEIVED IN LAB AT 1.6 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
[signature] H Ingoe	10 29 12	[signature]	10/29 1330
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:

PLEASE READ Instructions for completing this form on the reverse side.

Sampler must place a "C" for composite sample or a "G" for Grab sample in the blocks above for each parameter requested.

FORM #5

№ 250819

Environment 1, Inc.
P.O. Box 7085, 114 Oakmont Dr.
Greenville, NC 27858

Phone (252) 756-6208 • Fax (252) 756-0633

CHAIN OF CUSTODY RECORD

CLIENT: 6040 E Week: 43

HARNETT CO. (DUNN/ERWIN)
GENERAL SERVICES HARNETT CO.
MR. JERRY BLANCHARD, MANAGER
900 SOUTH 9TH STREET
LILLINGTON NC 27546

(919) 233-0407

DISINFECTION
- [ ] CHLORINE
- [ ] UV
- [ ] NONE
- [ ] _____

SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l OR ug/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	Field Parameter	EPA 8260B	8260 Dup. 1	8260 Dup. 2
							L2	L2	
							G	G	G
							E	E	E
GP-31-W	10 29 12				1	G			
~~GP-33-W~~	~~10 29 12~~				~~1~~	~~G~~			
~~GP-34-W~~	~~10 29 12~~				~~1~~	~~G~~			
GP-35-W	10 29 12				1	G			
GP-36-W	10 29 12				1	G			
GP-37-W	10 29 12	1105		18	3	G	G	G	
GP-38-W	10 29 12	1205		20	3	G	G	G	
	~~10 29 12~~								

PARAMETERS

CHLORINE NEUTRALIZED AT COLLECTION

pH CHECK (LAB)

CONTAINER TYPE, P/G

CHEMICAL PRESERVATION

A - NONE D - NAOH
B - HNO_3 E - HCL
C - H_2SO_4 F - ZINC ACETATE
G - NA THIOSULFATE

CLASSIFICATION:
- [ ] WASTEWATER (NPDES)
- [ ] DRINKING WATER
- [ ] DWQ/GW
- [X] SOLID WASTE SECTION

CHAIN OF CUSTODY MAINTAINED DURING SHIPMENT/DELIVERY
Y N

SAMPLES COLLECTED BY: (Please Print) N Igoe / F ox

SAMPLES RECEIVED IN LAB AT 1.6 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bob H Igoe	10 29 12	B	10/29 1330
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:
PZ 33 & PZ 34
BROKEN

PLEASE READ Instructions for completing this form on the reverse side.

Sampler must place a "C" for composite sample or a "G" for Grab sample in the blocks above for each parameter requested.

FORM #5

№ 250818

APPENDIX E

Statistical Analysis Methodology

The United States Environmental Protection Agency (EPA) Guidance Document, Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities, April 1989, was used as the main reference for the statistical procedures followed in this study. Details of the procedures and results obtained from the analysis are described in the following sections. An Excel™ adaptation of the EPA software GRITS/STAT (A Ground Water Information Tracking System with Statistical Analysis Capability, Version 4.2) was utilized to perform statistical calculations. Downgradient monitoring wells (MWs) MW2, MW3R, MW4, MW5, MW6B, MW7B, MW8, MW9, MW10, MW11, MW12, MW13, MW14, MW15, and MW23B are compared with the upgradient wells MW1 and MW31 (Data Set 1), and downgradient wells MW32, MW33, MW34, and MW35 are compared to upgradient well MW16 (Data Set 2) to evaluate the existence of statistically significant increases over background levels (SSIOBL) for each detected constituent. Surface Water Monitoring Points (SWPTs) SWPT2, SWPT3, and SWPT4 are compared with upgradient SWPT1 (Data Set 3) to evaluate the existence of SSIOBL for each Appendix I constituent.

For the reasons discussed in the Executive Summary regarding differences between historic and current method detection limits (MDLs) and the Solid Waste Section Limits (SWSLs), only detections exceeding the SWSLs are included in the statistical analysis. Estimated values (concentrations reported as greater than the MDL but less than the SWSL) are not included in the statistical analysis. When referring to the statistical analysis, a non-detect is a result less than the SWSL and a detection is a result greater than the SWSL. Where necessary, estimated values are compared to NCGS or 13B Groundwater Protection Standards (GPS). A comparison of NCGS and GPS standards, SWSLs, current MDLs and detection limits from 2006 for selected commonly detected constituents are presented in Table 5.

The one-way analysis of variance test (ANOVA) compares median concentrations of the respective upgradient and downgradient wells between data sets with at least four sampling events each. The Excel™ program was employed to perform the ANOVA for each parameter in a monitoring well group with less than 50% total non-detects in all wells over all sampling events.

All data sets with less than 15% non-detects were also tested for both normal and log-normal data distributions using EPA accepted normality tests. A parametric ANOVA was performed for those data sets meeting the normality and less than 15% non-detect requirements. The parametric ANOVA also tested for residual normality and homogeneity of variances (using Levene's Test) between data sets, both of which are necessary to determine those parameters that are SSIOBL using the parametric ANOVA. For both the parametric ANOVA and Levene's Test, non-detected concentrations were computed as on one-half (1/2) of the method detection limit. If any of the above tests produced a negative result, the parametric ANOVA was disregarded. (No data sets met the criteria for a parametric ANOVA test during the latest event).

All data sets with less than 50% non-detects and not fulfilling the requirements of the parametric ANOVA test received the non-parametric ANOVA test, which utilized the Kruskal-Wallace Test for making comparisons between data sets.

The Test of Proportions, as outlined in Section 8.1.2 of the EPA Guidance document, was utilized for all data sets for constituents with less than or equal to 50% and above 10% detects in all monitoring wells combined. This test was further defined to include only those compliance wells (individually coupled with the background wells) that produced a large enough data set such that the total number of detects for the particular constituent was greater than or equal to five (5).

In select cases the compliance-to-background well analyses are not accurate because natural, statistically significant variations existed prior to the facility operation commencement. If the Test of Proportions indicates a result of SSIOBL for such a constituent, the prediction interval intra-well comparison was used to verify the statistical significance of the concentrations. If the average post-operational concentrations of the constituent are within the prediction interval analysis calculated based on background concentrations, the result is not considered SSIOBL. Estimated values are used in the prediction interval analysis. Previously, a non-detect value was treated as half the detection limit to calculate the interval. However, use of the estimated values allows for a more accurate prediction than using half the SWSL.

For all other instances that did not qualify for the ANOVA tests or the Test of Proportions, the detections were analyzed qualitatively. The qualitative analysis was conducted for individual constituents at a particular compliance well. Initially, the number of detections for the constituent in the particular compliance well was considered as follows:

- A compliance well with only one detection was not considered SSIOBL.

- For a compliance well with two or more detections and without detections in the background well, the order of magnitude (OOM) above the SWSL was evaluated. The OOM was computed as the logarithm of the actual detected concentration over the SWSL. If the average concentrations had an OOM greater than or equal to 0.67 (five times greater than the SWSL), the constituent was considered SSIOBL for the particular well. Prior to October 2007, the detection limit was used because the SWSLs had not been incorporated. As noted in the Executed Summary, the SWSL is more consistent with historic detection limits, compared to the much lower MDLs (refer to Table 5). As such, use of the SWSL allows for a more uniform comparison to the historic data and is also consistent with the use of SWSL in the other statistical analyses.

- For a compliance well with two or more detections and with detections of the particular constituent also in the background well, the compliance well was evaluated depending on the number and magnitude of detections at the compliance well, the background well, and their respective average concentration differences.