



August 31, 2015

Jason Metzger, Unit Manager
Georgia Environmental Protection Division
Response & Remediation Program
4244 International Parkway, Suite 104
Atlanta, GA 30354

Re: **Voluntary Remediation Program Remediation Plan**
Birdsong Peanut Plant
608 E Main Street (Hwy 91)
Colquitt, GA
Project No. R1507990
HSI Site No. 10710

Dear Mr. Metzger:

BBJ Group, LLC (BBJ Group), on behalf of Man Investment Holdings, Inc. (Man), respectfully submits this *Voluntary Remediation Plan and Application* to the Georgia Voluntary Remediation Program (VRP) for the Birdsong Peanut Plant located at 608 East Main Street (Highway 91) in Colquitt, Georgia (Subject Property).

If you have any questions regarding this submittal please contact Mr. Kevin McCartney at (312) 644-8556.

Sincerely,

BBJ GROUP, LLC

A handwritten signature in blue ink that reads "Leah LaBarge".

Leah LaBarge
Staff Geologist

A handwritten signature in blue ink that reads "Kevin McCartney".

Kevin McCartney, P.G.
Principal

A handwritten signature in blue ink that reads "J. Tim Bradburne".

J. Tim Bradburne, P.G.
Georgia Professional Geologist, No. 698

cc: Nancy J. Rich, Esq., Katten Muchin Rosenman LLP

VOLUNTARY REMEDIATION PLAN AND APPLICATION

**Birdsong Peanut Plant
608 East Main Street (Highway 91)
Colquitt, Georgia**

Submitted to:

Georgia Environmental Protection Division
Atlanta, Georgia

Prepared by:

BBJ GROUP, LLC
Chicago, Illinois

August 31, 2015



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1.0 INTRODUCTION

BBJ Group, LLC (BBJ Group), on behalf of Man Investment Holdings, Inc. (Man), respectfully submits this *Voluntary Remediation Plan and Application* to the Georgia Environmental Protection Division (EPD) Voluntary Remediation Program (VRP) for the Birdsong Peanut Plant (Birdsong) located at 608 East Main Street (Highway 91) in Colquitt, Georgia (Subject Property). For the purposes of this report, the Subject Property is identified as the portion of Birdsong's property that is bounded by East Main Street to the south, railroad tracks to the west, Farmers Avenue to the east, and East Pine Street to the north. A Site Location Map is provided as Figure 1 and a Site Plan is provided as Figure 2.

The Georgia Environmental Protection Division (EPD) listed the Subject Property on the Georgia Hazardous Site Inventory (HSI) as Site Number 10710 due to a release of tetrachloroethene (PCE) in groundwater. Remediation of the release under the Georgia EPD Hazardous Site Response Act (HSRA) Program included in-situ chemical oxidation, which oxidized trivalent chromium (Cr^{+3}) present in the groundwater into hexavalent chromium (Cr^{+6}), thereby creating groundwater exceedances of Cr^{+6} in several on-site monitoring wells. These monitoring wells are located in the southwestern portion of the Subject Property in the former chemical injection area.

Groundwater monitoring has occurred at the Subject Property since 2009 to characterize and delineate the groundwater plume. BBJ Group has prepared this Voluntary Remediation Plan and Application to enroll the Subject Property into the Georgia EPD VRP and remove the Subject Property from the HSI. The Voluntary Investigation and Remediation Plan Application Form is provided as Appendix A. A Warranty Deed and Tax Plat are provided as Appendix B and C, respectively. The remainder of this *VRP Plan* is organized as follows:

- Section 2.0: Site Background;
- Section 3.0: Site Setting;
- Section 4.0: Nature and Extent of Contamination;
- Section 5.0: Exposure Assessment;
- Section 6.0: Proposed Corrective Action;
- Section 7.0: Proposed Schedule; and
- Historical Reports included as appendices.

2.0 SITE BACKGROUND

2.1 Site Description

The Subject Property consists of one parcel of land, totaling approximately 10.89 acres¹, located at 608 East Main Street (Highway 91) in Colquitt, Georgia. The parcel identification number is C014-027000 and is owned by to the Birdsong Corporation. The Subject Property is improved with seven structures used for agricultural chemical and fertilizer storage and office space. The Subject Property is adjoined by East Main Street to the south, railroad tracks to the west, a stand of trees and Farmers Avenue to the east, and East Pine Street to the north.

¹ Per the Miller County Assessor's webpage:
http://qpublic7.qpublic.net/qpmap4/map.php?county=ga_miller&parcel=C014+027000&extent=2121496+425735+2124020+428431&layers=parcels+streetnum+roads+parcel_sales

2.2 Site History

Based on BBJ Group's review of historical documents², the Subject Property previously consisted of a residential and agricultural property owned by Farmer's Feed and Milling Company (FFM) and a lumber mill until the early 1950s. In the late 1950s, the Subject Property was used for the production of fertilizer. In the early 1960s, peanut plant operations began at the Subject Property, including peanut shelling and distributing. United Agricultural Products (UAP) leases a fertilizer storage building in the southwest portion of the Subject Property. The remainder of the Subject Property is operated by Birdsong Peanut Plant.

The Subject Property has been the subject of several environmental assessments, remedial activities and groundwater monitoring events. These investigations were performed during past HSI activities to assess impacts at the Subject Property. The following subsections present a concise summary of documents reviewed and referenced in the preparation of this VRP Remediation Plan to provide an overview of the former and current conditions of the Subject Property. A Site Plan with Sample Locations is provided as Figure 3. Tables of historical soil and groundwater laboratory analytical results are provided as Tables 1 and 2, respectively.

2.2.1 2000 Geosciences Sampling Report

Geosciences Inc. prepared a Monitoring Well Installation and Sampling FFM Main Facility Letter Report dated October 31, 2000 (2000 Geosciences Sampling Report). Monitoring wells MW-4 through MW-6³ were installed in August of 2000 in locations recommended for further investigation per a Phase I Environmental Site Assessment (ESA) prepared by Geosciences, dated October 13, 1999. Soil samples collected from the monitoring well boreholes were submitted for laboratory analysis of one or more of the following: volatile organic compounds (VOCs), herbicides, pesticides, nitrate-nitrogen, and arsenic.

Soil laboratory analytical results did not detect constituents of concern (COCs) above HSRA Soil Notification Concentrations (NCs); however, carbon disulfide was detected in the sample collected from 18.5 to 20 feet below ground surface (bgs) in MW-5⁴.

Groundwater samples from the monitoring wells were submitted for laboratory analysis of VOCs, herbicides, pesticides, and nitrate-nitrogen in all three monitoring wells and polynuclear aromatic hydrocarbons (PAHs) and arsenic in MW-5 and MW-6. Groundwater laboratory analytical results indicated that PCE was detected in MW-6 at a concentration above the maximum contaminant limit (MCL), while nitrate was detected above the MCL in all three monitoring wells. A release was reported to the Georgia EPD under HSRA 391-3-19-04 (3)(b) as PCE and nitrate. These analytes are regulated under HSRA and the concentrations detected exceeded the "naturally-occurring" background concentrations. The source of the PCE and carbon disulfide were not identified by Geosciences. The 2000 Geosciences Sampling Report is provided as Appendix D.

² 2005 Conestoga-Rovers & Associates (CRA) HSRA Compliance Status Report (CSR), dated September 2005 and a Revised Corrective Action Plan prepared by CRA, dated August 2011

³ MW-1 through MW-3 were installed on the larger Birdsong property, and not on the Subject Property itself. Documentation was not provided to BBJ Group regarding the date and location of installation.

⁴ The Notification Concentration (NC) for carbon disulfide is defined to be the detection limit because the substance is classified as an "acute hazardous waste."

2.2.2 2001 Geosciences Confirmation Sampling Letter Report and 2001 Release Notification Form

A Soil/Groundwater Confirmation Sampling Letter Report was prepared by Geosciences and dated January 15, 2001 (2001 Geosciences Confirmation Sampling Letter Report). On December 15, 2000, Geosciences collected four additional soil samples to assess the presence of carbon disulfide from two soil borings in the vicinity of MW-5 and one additional groundwater sample from MW-6 to evaluate the prior PCE detection. Carbon disulfide was not detected above laboratory detection limits in any of the soil samples. PCE was detected again at MW-6 in exceedance of the MCL. Geosciences recommended that the FFM facility make initial notification of a PCE release to the Georgia EPD.

A Release Notification Form was prepared by Geosciences and signed by George Y. Birdsong, dated March 14, 2001, (2001 Release Notification Form). The Release Notification Form was submitted for the PCE exceedances and identified Birdsong Peanut (formerly FFM) as the owner and operator of the Subject Property. The source of the release and the release date were listed as "unknown". The 2001 Geosciences Confirmation Sampling Letter Report and 2001 Release Notification Form are provided as Appendix E and F, respectively.

2.2.3 2001 CRA Supplemental Phase II ESA

Conestoga-Rovers & Associates (CRA) prepared a Supplemental Phase II ESA, dated October 18, 2001 (2001 CRA Supplemental Phase II ESA). As presented in the 2001 CRA Supplemental Phase II ESA, the Georgia EPD delayed the listing of the Subject Property on the HSI to allow additional sampling to determine the extent of PCE in groundwater. CRA oversaw the advancement of 10 soil borings at the Subject Property and field laboratory analysis for chlorinated VOCs. Groundwater samples were collected from the base of each boring location. Additionally, two shallow monitoring wells (MW-8 and MW-9) and one deep monitoring well (MW-7D) were installed. The three newly installed monitoring wells along with the three existing monitoring wells were sampled for PCE and daughter products [i.e. 1,1-dichloroethane, 1,2-dichloroethene, trichloroethene (TCE), and vinyl chloride].

PCE was detected in two soil samples in exceedance of the HSRA Soil NCs in two samples collected at 21 and 25.5 feet bgs in the west-central portion of the Subject Property. CRA stated that this was a result of dissolved PCE migration from shallow groundwater or shallow vapors and was not indicative of soil impacts. Groundwater laboratory analytical results indicated that five locations (three borings, MW-5, and MW-6) had PCE concentrations above the MCLs, all located in the southwestern portion of the Subject Property. Additionally, CRA conducted interviews of employees which found that a parts repair shed located on the southwestern portion of the Subject Property where the PCE exceedances were found could have used degreasing agents that resulted in a release. CRA recommended performance of an accelerated corrective response using chemical injection.

The Georgia EPD determined that a reportable PCE release had occurred at the Subject Property. The release letter was dated December 17, 2001 (2001 HSI Listing Letter). The Subject Property was assigned HSI site number 10710 and Corrective Action Site Class 2. The 2001 CRA Supplemental Phase II ESA is provided as Appendix G, and the 2001 HSI Listing Letter is provided as Appendix H.

2.2.4 2003 CRA Voluntary Remediation Progress Report and 2003 CRA Focused Delineation Progress Report

CRA prepared a Voluntary Remediation Progress Report, dated March 28, 2003 (2003 CRA Voluntary Remediation Progress Report) which stated that two potassium permanganate injections had been

conducted at the Subject Property. Groundwater data was collected before the first injection (August 2001, July 2002, and September 2002), after the first injection (October 2002), and after the second injection (February 2003). Prior to the first injection, PCE was detected in MW-5, MW-6, and MW-10 above the MCLs. The first injection was located in the southwest portion of the Subject Property, between the UAP Fertilizer Storage Building and the UAP Chemical Storage Building. Groundwater confirmation sampling in October 2002 indicated that PCE was detected in MW-5 and MW-7D above the MCLs. The second injection was in MW-5 and MW-7D. Confirmation sampling conducted in February 2003 after the second injection identified that PCE was not detected above MCLs in any of the monitoring wells except MW-10. CRA attributed the PCE concentration in MW-10 to rising groundwater in the area into a "smear zone" of PCE trapped within the soil near MW-10, which was investigated in a Focused Delineation Progress Report, dated May 27, 2003 (2003 CRA Focused Delineation Progress Report).

On April 24 and 25, 2003, CRA oversaw the advancement of 7 soil borings in the vicinity of MW-10. Thirteen soil samples and six groundwater samples were collected from the borings and submitted for laboratory analysis of VOCs. No VOCs were detected above laboratory RLs in any of the soil samples. However, PCE was detected above the MCL in two of the six groundwater samples. Based on these results, CRA concluded that the PCE impacts to groundwater were limited to the vicinity of MW-10 and to the south. The 2003 CRA Voluntary Remediation Progress Report and 2003 CRA Focused Delineation Progress Report are provided as Appendix I and J, respectively.

2.2.5 2003 CRA Repeat Chemical Injection Progress Report and CRA Status Reports

An additional potassium permanganate injection was conducted in August 2003 and detailed in a Repeat Chemical Injection Progress Report, prepared by CRA was provided to BBJ Group and dated October 27, 2003 (2003 CRA Repeat Chemical Injection Progress Report). Confirmation groundwater sampling from vicinity monitoring wells indicated that PCE was detected in MW-5, MW-6, and newly installed MW-11 above the MCL, with the highest concentration being detected in MW-11.

CRA prepared Status Reports, dated August 17, 2004 (August 2004 CRA Status Report) and November 16, 2004 (November 2004 CRA Status Report) which detail spot injections around MW-11. Groundwater confirmation samples were collected from vicinity monitoring wells in July 2004 and October 2004. Laboratory analytical results from July 2004 indicate that PCE was detected in MW-6, MW-11, and MW-12 above the Type 1 Risk Reduction Standard (RRS) and below the Type 4 RRS. An additional injection was conducted in the area of these three wells, and October 2004 confirmation samples indicate that PCE was detected in MW-6, MW-10, MW-11, and MW-12 above the Type 1 RRS. However, only the PCE detection in MW-11 was above the Type 4 RRS. The 2003 CRA Repeat Chemical Injection Progress Report is provided as Appendix K. The August and November 2004 CRA Status Reports are provided as Appendix L and M, respectively.

2.2.6 2005 CRA HSRA CSR

The 2005 CRA HSRA Compliance Status Report (CSR) was prepared by CRA and dated September 2005, which outlines field activities conducted at the Subject Property since October 2004. Specifically, three additional shallow monitoring wells were installed downgradient (MW-13) and sidegradient (MW-14 and MW-15) of MW-11. Groundwater sampling from June and August 2005 identified PCE above the Type 1 RRS in MW-6, MW-11, MW-12, MW-13, and MW-16; however, only MW-11 detected PCE above the Type 4 RRS. Eight additional soil borings were advanced in areas of historic PCE detections, which did not have samples detected above the Type 1 RRS in any sample. Temporary monitoring wells installed in six of these borings detected PCE in three temporary well locations above the Type 1 RRS

and one location being above the Type 4 RRS. Based on these results, CRA delineated the PCE groundwater plume to be located in an approximately 150-foot by 50-foot area in the southwest portion of the Subject Property at a depth of 20 to 50 feet bgs. The 2005 CRA HSRA CSR is provided as Appendix N.

2.2.7 2007 CRA Preliminary Status Report of Full Scale Injection Program

A Preliminary Status Report of Full Scale Injection Program was prepared by CRA on February 21, 2007 (2007 CRA Preliminary Status Report of Full Scale Injection Program). On November 8 through 19, 2006, CRA oversaw injections at 60 injection points in a grid of 220-feet by 60-feet centered on the PCE groundwater plume. Confirmation groundwater samples were collected from ten on-site monitoring wells in December 2006, of which only MW-6 detected PCE above the Type 1 RRS. All PCE concentrations were below the Type 4 RRS. CRA recommended an additional round of sampling to determine if the exceedance in MW-6 was representative of the post-injection groundwater data. The 2007 CRA Preliminary Status Report of Full Scale Injection is provided as Appendix O.

2.2.8 2007 CRA Groundwater Sampling Summary and Update

A Groundwater Sampling Summary was prepared by CRA, dated May 10, 2007 (2007 CRA Groundwater Sampling Summary). On April 10, 2007, CRA collected an additional round of groundwater samples from seven on-site monitoring wells. PCE was not detected in any of the groundwater samples above laboratory RLs. CRA concluded that the residual PCE in groundwater had been “eliminated.” The 2007 CRA Groundwater Sampling Summary is provided as Appendix P.

2.2.9 2007 CRA Groundwater Sampling Summary Update

CRA drafted an updated Groundwater Sampling Summary dated August 14, 2007 (2007 CRA Groundwater Sampling Summary Update). Eight monitoring wells were sampled semiannually for laboratory analysis of chlorinated VOCs, arsenic, barium, cadmium, chromium, lead, selenium, and silver to “provide a post-injection baseline.” Laboratory analytical results indicated that VOCs were not detected above laboratory RLs in any of the groundwater samples. However, total chromium was detected in MW-6 above the Type 1 and 4 RRS for Cr⁺⁶ but below the Type 4 RRS for Cr⁺³. The 2007 CRA Groundwater Sampling Summary Update is provided as Appendix Q.

2.2.10 2009 CRA Groundwater Sampling Summary

Multiple groundwater monitoring wells were sampled on March 5, 2009 as part of the Groundwater Sampling Summary, prepared by CRA, dated April 21, 2009 (2009 CRA Groundwater Sampling Summary). Groundwater samples were submitted for laboratory analysis of total and dissolved metals. Metals were detected below the Type 1 and Type 4 RRSs in every monitoring well, except for total chromium in MW-6 and MW-11 above the Type 1 RRS (but below the Type 4 RRS) and selenium in MW-10 above the Type 1 and 4 RRS. CRA concluded that the metals exceedances were common for potassium permanganate injection areas and would dissipate over time and distance. The 2009 CRA Groundwater Sampling Summary is provided as Appendix R.

2.2.11 2009 CRA CAP

A Corrective Action Plan (CAP) was prepared by CRA and dated December 2009 (2009 CRA CAP), which identified a threefold approach to corrective action as follows:

- (1) Placement of notices in private property instruments,
- (2) Placement of an affidavit in the County Deed records; and
- (3) Annual Monitoring Program to ensure compliance with Type 4 RRSs.

The annual monitoring program specifically entailed an annual on-site inspection to inspect Subject Property non-residential use, an annual written report summarizing compliance, and a notice to Georgia EPD prior to any transfer of the Subject Property. Annual groundwater monitoring was also recommended to demonstrate eventual compliance with the Type 1 or 2 RRSs. The 2009 CRA CAP is provided as Appendix S.

2.2.12 2010 CRA Groundwater Sampling Summary

Groundwater sampling was conducted at multiple monitoring wells in March 2010 as detailed in the Groundwater Sampling Summary, prepared by CRA, dated May 5, 2010 (2010 CRA Groundwater Sampling Summary). Samples were submitted for laboratory analysis of total and dissolved metals, as well as speciated chromium. Laboratory analytical results indicated that cadmium and selenium were detected in MW-10 above the Type 1 RRS but below the Type 4 RRS. Cr^{+3} was not detected in any groundwater sample above the Type 1 RRS. However, Cr^{+6} was detected in each groundwater sample above the Type 1 RRS and Type 4 RRS except for MW-5, where it was detected only above the Type 1 RRS. CRA noted that Cr^{+6} concentrations appeared to be highest in the historical potassium permanganate injection area to treat PCE. The 2010 CRA Groundwater Sampling Summary is provided as Appendix T.

2.2.13 2011 CRA Revised CAP

A Revised Corrective Action Plan was prepared by CRA, dated August 2011 (2011 CRA Revised CAP). The 2011 CRA Revised CAP described a March 2011 groundwater sampling event in which four of the monitoring wells located within the historical injection area were sampled. Samples were submitted for laboratory analysis of total and dissolved arsenic, cadmium, chromium, copper, lead, manganese, potassium, selenium, and silver, as well as speciated chromium. Laboratory analytical results indicated that Cr^{+3} was detected above the Type 1 RRS in MW-6, MW-10, and MW-11 but below the Type 4 RRS. Cr^{+6} was detected above the Type 1 and Type 4 RRS in MW-6, MW-10, and MW-11. Additionally, in May 2011, a treatability study and bench scale test was conducted to evaluate several options to remediate the metals at the Subject Property. The results indicated that a dose of 0.24 grams per liter (g/L) sodium thiosulfate and 0.24 g/L ferrous sulfate effectively removed dissolved chromium and residual potassium permanganate from the groundwater samples. The 2011 CRA Revised CAP is provided as Appendix U.

2.2.14 2012 CRA Status Update

CRA prepared a Status Update – Pilot Injection and Performance Monitoring and Annual Groundwater Monitoring and Reporting Letter on June 27, 2012 (2012 CRA Status Update Letter) that outlined a pilot scale injection of sodium thiosulfate and ferrous sulfate solution at the Subject Property. Specifically, 55 temporary injection points were advanced to a maximum depth of 40 feet bgs in a grid covering a 75-foot by 215-foot area. Two post-injection groundwater sampling events (November and December 2011) were conducted and results were compared to pre-injection “baseline” values. Total chromium and Cr^{+6} concentrations were below the pre-injection baseline values in most monitoring wells, with the exception of MW-11 which exceeded the baseline concentrations and the Type 1 and 4 RRS. Cr^{+3} was also reported above the baseline values and the Type 1 RRS in MW-10 but below the Type 4 RRS. CRA attributed the inconclusive success of the injections to a 3 to 4.5 foot increase in groundwater

elevation since March 2011 which may have increased metals concentrations in monitoring wells at the Subject Property.

Annual sampling was conducted at the Subject Property in March 2012. Laboratory analytical results from the annual sampling indicated that Cr⁺⁶ levels remained below or at the pre-injection baseline levels in all monitoring wells, but the concentrations had rebounded above the December 2011 post-injection concentrations. Additionally, Cr⁺⁶ concentrations remained above the Type 1 and Type 4 RRS in MW-6, MW-10, and MW-11. Cr⁺³ was detected at concentrations below the Type 4 RRS in all sampled monitoring wells but above the Type 1 RRS in MW-10 and MW-11. Total and dissolved cadmium and selenium concentrations were also detected above the Type 1 RRS in MW-6. The 2012 CRA Status Update Letter is provided as Appendix V.

2.2.15 2013 and 2014 BBJ Group Annual Monitoring Reports

Groundwater Monitoring Reports from April 2013 and April 2014 were prepared by BBJ Group, dated May 30, 2013 (2013 BBJ Group Groundwater Monitoring Report) and May 28, 2014 (2014 BBJ Group Groundwater Monitoring Report), respectively. BBJ Group collected groundwater samples from MW-6, MW-7D, MW-10, and MW-17D. Samples from the monitoring wells were submitted for laboratory analysis of total and dissolved chromium and speciated chromium in 2013 and total chromium and speciated chromium in 2014. Laboratory analytical results from both events indicated that Cr⁺⁶ was detected at concentrations exceeding the Type 1 and Type 4 RRS in MW-6 and MW-10. No dissolved total chromium or Cr⁺⁶ was detected in deep wells (i.e. MW-7D and MW-17D) in exceedance of the Type 1 or Type 4 RRS. However, Cr⁺³ was detected above the Type 1 RRS in MW-7D in 2014. No dissolved Cr⁺³ was detected in concentrations exceeding the Type 1 or Type 4 RRS in any of the groundwater samples in 2013. The 2013 and 2014 BBJ Group Groundwater Monitoring Reports are provided as Appendix W and X, respectively.

3.0 SITE SETTING

3.1 Site Geology

Based on the data collected during the monitoring well installations and soil boring advancements at the Subject Property, the primary subsurface soil type is silt-clay-sand mixtures from the ground surface to depths of 24 to 32 feet bgs with clay and sandy clay at depth. There are also isolated lenses of the weathered limestone bedrock at the Subject Property. Specifically, two discontinuous weathered limestone layers have been identified at the Subject Property. The first shallow, limestone layer was identified at depths from 14 to 20 feet bgs, and the second layer was encountered from 40 to 55 feet bgs. Competent bedrock was not encountered during investigations to a depth of 80 feet bgs.

3.2 Site Hydrogeology

The weathered limestone lenses at the Subject Property appear to limit groundwater flow rather than provide preferential pathways. Consequently, groundwater at the Subject Property exists in somewhat isolated perched zones, rather than a continuous layer. Groundwater encountered during investigations at the Subject Property seem to be located in two isolated, confined water bearing units. The shallow and deep water bearing units were intersected at depths of approximately 20 and 40 feet

bgs, respectively. Both units were characterized by brown, sandy clay. The water bearing units are separated by an impermeable limestone layer⁵.

Depth to groundwater at the Subject Property ranges from 0.5 to 25 feet bgs. Hydraulic conductivity (slug) tests previously conducted at MW-8 and MW-9 yielded a hydraulic conductivity of 4.0×10^{-5} centimeters per second (cm/s) in MW-8 and 3.1×10^{-7} cm/s in MW-9. The Georgia EPD recommended that additional slug tests be performed at the Subject Property. Therefore, in the CAP Addendum prepared by CRA and dated June 6, 2006, CRA performed additional slug tests at MW-5, MW-7D, MW-15, and MW-17D with results as follows:

Monitoring Well	Hydraulic Conductivity (cm/s)
MW-5	6.3×10^{-2}
MW-7D	4.5×10^{-3}
MW-15	6.6×10^{-6}
MW-17D	7.8×10^{-2}

Based on the results of a groundwater modeling program (i.e., SURFER 10) using the most recent groundwater gauging data from 2014, the interpreted groundwater flow direction is to the south. This is consistent with historical groundwater flow studies at the Subject Property. The hydraulic gradient was calculated to be 0.022. A potentiometric surface map is provided as Figure 3.

4.0 NATURE AND EXTENT OF CONTAMINATION

The Subject Property was listed on the HSI as Site Number 10710 due to a release of PCE in groundwater. PCE and its daughter products were targeted by an injection of potassium permanganate beginning in November 2006. Subsequent sampling indicated that PCE in groundwater had been remediated to non-detect concentrations. However, chromium was detected in several monitoring wells in exceedance of Type 1 and 4 RRSs. Cadmium and selenium were detected in one monitoring well, MW-6, above the Type 1 RRS but below the Type 4 RRS. The following subsections outline the nature and extent of the contamination. A Conceptual Site Model Diagram and a Conceptual Site Model are provided as Figures 4 and 5, respectively.

4.1 Soil

VOCs, herbicides, pesticides, nitrate-nitrogen, and arsenic have not been detected in soil in exceedance of Georgia EPD NCs or the Type 1 RRSs. PCE was detected in two soil samples in exceedance of the HSRA Soil NC at 21 and 25.5 feet bgs in the west-central portion of the Subject Property. However, CRA stated that this was a result of dissolved PCE migration from shallow groundwater or shallow vapors and was not indicative of soil impacts. As such, the nature and extent of contamination at the Subject Property appear to be limited to groundwater.

4.2 Groundwater

Groundwater previously impacted with PCE above Type 1 and 4 RRSs has since been remediated to below the Type 1 RRS. Groundwater sampling at the Subject Property since 2009 has revealed that total Cr^{+3} is decreasing within the former PCE groundwater plume. Additionally, total chromium in MW-6, downgradient from the source area, is decreasing and reached a historical low concentration

⁵ The Ocala Limestone is mostly clay-filled making it impermeable.

in 2014. Total chromium, Cr^{+3} , and Cr^{+6} in the deeper water bearing unit are below Type 1 and Type 4 RRSs, with the exception of Cr^{+3} in MW-7D, which was marginally above the Type 1 RRS for Cr^{+3} in 2014. Specifically, the exceedances appears to be limited to the former chemical injection area. Selenium and cadmium were also detected in MW-10 marginally above the Type 1 RRS and below the Type 4 RRS. Chromium in groundwater laboratory analytical results from June 2007 to April 2014 are provided in Table 3.

5.0 EXPOSURE ASSESSMENT

5.1 Contaminant Sources and Release Mechanisms

Site investigations at the Subject Property suggested that a parts repair shed may have been the source of the PCE. While remediating the PCE exceedances, injections of potassium permanganate oxidized Cr^{+3} present in the groundwater into Cr^{+6} .

5.2 Potential Receptors and Exposure Routes

The Subject Property is currently used for commercial/industrial purposes. Historically, data has been compared to multiple RRSs and standards. Going forward, soil and groundwater data collected at the Subject Property will be compared to the Type 1 and Type 4 RRSs, respectively. Based on the data and results presented in historical investigation reports, the potential exposure routes are summarized as follows.

5.2.1 Soil

No analyzed parameters were detected in any soil samples above the Type 4 RRSs. PCE, a historical COC, ranged from 3.2 micrograms per kilogram ($\mu\text{g}/\text{kg}$) to 29 $\mu\text{g}/\text{kg}$; however, these concentrations are well below the Type 1 RRS of 500 $\mu\text{g}/\text{kg}$. Therefore, there are no potential soil receptors for the Subject Property.

5.2.2 Groundwater

Data from the most recent groundwater sampling event revealed Cr^{+6} above the Type 4 RRS in MW-6 and MW-10. Additionally, the most recent data collected from MW-11 revealed Cr^{+6} above the Type 4 RRS.

Construction worker notification is necessary to ensure that construction workers are notified of the potential health hazards and that proper industrial hygiene practices are observed in the area surrounding MW-6, MW-10, and MW-11 where Cr^{+6} was identified in excess of the Type 4 RRS.

A City of Colquitt Public Water Supply Well (Well #3) is located to the west (sidegradient) that is drilled to a depth of 210 feet bgs and cased for 150 feet⁶. According to the Georgia Geologic Survey, the City of Colquitt, including the Subject Property and vicinity properties, receives its water supply solely from Well #3 which is screened in the Ocala Limestone. The Ocala Limestone is located at depths of 90 or more feet bgs in the Colquitt area. According to the City of Colquitt Code of Ordinances⁷, the wellhead protection radius for a city water supply well is 5,280 feet.

⁶ https://epd.georgia.gov/sites/epd.georgia.gov/files/related_files/site_page/PR-28.pdf

⁷ https://www.municode.com/library/ga/colquitt/codes/code_of_ordinances?nodeId=PTIICOOR_CH34EN_ARTVIIWEPR

Well management zones are defined in the Georgia Rules for Safe Drinking Water Chapter 391-3-5-.40 as follows:

- The Control Zone: A zone in the immediate vicinity of the well in which activities must be controlled so as to produce the minimum amount of potential pollutants;
- The Inner Management Zone (IMZ): The IMZ covers a 500 foot radius from the well in wells that draw water from unconfined aquifers and springs in areas of karst; and
- The Outer Management Zone (OMZ): The OMZ extends from the edge of the IMZ to an area determined by hydrogeologic mapping or until the edge of the Wellhead Protection radius.

Additionally, in Project Report 28, the Georgia Geologic Survey defines the Zone of High Vulnerability (ZHV) as a subpart of the OMZ in areas where contaminants can travel rapidly to reach the well.

The portion of the land under the Uniform Environmental Covenant (UEC) that is the closest to Well #3 is 505 feet away, locating the Subject Property within the Outer Management Zone (OMZ). However, the Subject Property is not believed to lie within the ZHV, the groundwater flow does not appear to be towards Well #3 and the area does not appear to be concentrated in “landform features indicative of enhanced recharge.”⁸ In the 2005 CRA HSRA CSR, CRA calculated that it would take 300 years for groundwater to flow from the wellhead cone of depression (located 450 feet west of the UEC boundary) to the screened portion of Well #3. Consequently, BBJ Group does not regard Well #3 as a receptor. Further, concentrations of Cr⁺⁶ in the shallow water bearing unit above Type 4 RRS appear to be (1) isolated to a small, discrete area onsite and (2) present at depths less than 55 feet bgs (Well #3 is cased to a depth of 150 feet bgs). Additionally, Cr⁺³ was only detected in two monitoring wells above the Type 1 RRS. Those two wells are located approximately 620 feet southwest (sidegradient) of Well #3.

5.3 Summary of Potentially Complete Exposure Pathways and CSM

Per the findings of the historical investigations at the Subject Property, construction worker ingestion and dermal contact with groundwater around MW-6, MW-10, and MW-11 are the only potential receptors to COCs from the Subject Property. A Conceptual Site Model (CSM) Flow Diagram and CSM Cross Section are provided as Figures 4 and 5, respectively.

6.0 PROPOSED CORRECTIVE ACTION

With the exception of construction worker contact, there is no potential pathway for direct exposure to groundwater at the Subject Property. No further corrective action is warranted for the Subject Property. BBJ Group will prepare a CSR as the first annual notice for the Subject Property to demonstrate plume stability and formally request site closure through the implementation of the Uniform Environmental Covenant (UEC) which prohibits the use or extraction of groundwater for drinking water or any other non-remedial purposes beneath the former chemical injection area.

7.0 PROPOSED SCHEDULE

A Final CSR will be submitted as the first annual notice to the Georgia EPD within one year of the recording date of the approval of this VRP Remediation Plan.

⁸ https://epd.georgia.gov/sites/epd.georgia.gov/files/related_files/site_page/PR-28.pdf

TABLES

TABLE 1

SUMMARY OF SOIL ANALYTICAL DATA

TABLE
Summary of Soil Analytical Data

Well ID.	Volatile Organics	Organo-chlorine Pesticides (mg/kg)	Chlorinated Herbicides (mg/kg)	Nitrate-Nitrogen (mg/kg)	Total Arsenic (mg/kg)	RCRA Total Metals (mg/kg)		
	Carbon Disulfide (mg/kg)					Barium	Chromium	Lead
MW-4 (8.5-10')	BDL	BDL	BDL	14.8	NA	NA	NA	NA
MW-5 (3.5-5')	BDL	BDL	BDL	125	BDL	NA	NA	NA
MW-5 (18.5-20')	0.008	BDL	BDL	72.1	BDL	NA	NA	NA
MW-6 (18.5-20')	BDL	BDL	BDL	130	BDL	NA	NA	NA
Welding Shop (1.5-2')	BDL	NA	NA	NA	NA	19.7	30.0	11.8
Evaporation Area (1.5-2')	BDL	NA	NA	NA	NA	NA	NA	NA
Lab Detection Limit	0.005	.005-0.10	.005-1.0	5.0-20.0	5.0	10.0	5.0	5.0
HSRA NC	0.005	Varies with Pesticide	Varies with Herbicide	NE	41.0	500	1200	300

NA = Not Analyzed

HSRA NC = Notification Requirements under Hazardous Site Response Act (Appendix I)

NE = Not Established

BDL = Below Lab Detection Limit

MCL = Maximum Contaminant Level

* Tetrachloroethene = Perchloroethylene or PCE

TABLE
Summary of Soil Analytical Data
FFM Main Facility

Well ID.	Carbon Disulfide (mg/kg)
SB-1 (18.5-20')	BDL
SB-1 (41.5-42')	BDL
SB-2 (18.5-20')	BDL
SB-2 (41.5-42')	BDL
Lab Detection Limit	0.005
HSRA NC	0.005

HSRA NC = Notification Requirements under Hazardous Site Response Act (Appendix I)

NE = Not Established

BDL = Below Laboratory Detection Limit

MCL = Maximum Contaminant Level

* Tetrachloroethene = Perchloroethylene or PCE

TABLE
SUMMARY OF DPT SOIL SAMPLE ANALYTICAL RESULTS
FARMER'S FEED AND MILLING, COLQUIT, GEORGIA

DPT Boring	Sample Depth (ft)	DCA (ug/kg)	DCE (ug/kg)	TCE (ug/kg)	PCE (ug/kg)	VC (ug/kg)
BH-1	2	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	21	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
BH-2	4	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	21	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
BH-3	2	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	10	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	21	ND (5)	ND (5)	ND (5)	28	ND (5)
BH-4	1.5	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	10	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
BH-5	1	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	7.5	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	22	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
BH-6	1	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	19.5	ND (5)	ND (5)	ND (5)	7.5	ND (5)
BH-7	1	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	15	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
BH-8	1	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	25.5	ND (5)	ND (5)	ND (5)	21.3	ND (5)
BH-9	1.5	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	17.5	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
BH-10	2	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	27	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
NCs		3	360	130	18	40

Note:

DCA = 1,1-dichloroethane

DCE = 1,1-dichloroethene (total)

TCE = trichloroethene

PCE = tetrachloroethene

VC = vinyl chloride

ND = Not Detected @ (Reported Detection Limit)

NC = Notification Concentrations (from GA391-3-19 Appendix I Soil Concentrations that Trigger Notification)

TABLE
SUMMARY OF SAMPLE ANALYTICAL RESULTS
FARMER'S FEED AND MILLING, COLQUIT, GEORGIA

Soil					
Sample Location	Sample Depth	DCE	TCE	PCE	VC
BH-11	3 - 4 ft	ND (5)	ND (5)	ND (5)	ND (5)
	7 - 8 ft	ND (5)	ND (5)	ND (5)	ND (5)
BH-12	3 - 4 ft	ND (5)	ND (5)	ND (5)	ND (5)
	7 - 8 ft	ND (5)	ND (5)	ND (5)	ND (5)
BH-13	3 - 4 ft	ND (5)	ND (5)	ND (5)	ND (5)
	7 - 8 ft	ND (5)	ND (5)	ND (5)	ND (5)
BH-14	3 - 4 ft	ND (5)	ND (5)	ND (5)	ND (5)
	7 - 8 ft	ND (5)	ND (5)	ND (5)	ND (5)
BH-15	3 - 4 ft	ND (5)	ND (5)	ND (5)	ND (5)
BH-16	3 - 4 ft	ND (5)	ND (5)	ND (5)	ND (5)
	7 - 8 ft	ND (5)	ND (5)	ND (5)	ND (5)
BH-17	3 - 4 ft	ND (5)	ND (5)	ND (5)	ND (5)
	7 - 8 ft	ND (5)	ND (5)	ND (5)	ND (5)

Note:

Concentrations in $\mu\text{g}/\text{kg}$ (soil), $\mu\text{g}/\text{L}$ (water) ND = Not Detected @ (Reported Detection Limit)
DCE = 1,1-dichloroethene (total) TCE = trichloroethene
PCE = tetrachloroethene VC = vinyl chloride
GC = Groundwater Criteria (HSRA Appendix III Table 1)

No VOCs were detected in any of the soil samples collected. PCE (only) was detected in five of the six groundwater samples. Only two of the groundwater samples contained PCE at concentrations above the Groundwater Criteria of $5 \mu\text{g}/\text{L}$. The highest detection of PCE at $48.7 \mu\text{g}/\text{L}$ was collected from BH-17, located to the south of MW-10 within the area that has shown the highest impact from PCE.

TABLE
SUMMARY OF DPT SOIL SAMPLE ANALYTICAL RESULTS
FARMER'S FEED AND MILLING, COLQUITT, GEORGIA

DPT Boring	Sample Date	Sample Depth (ft)	DCA (ug/kg) CAS#75343	DCE (ug/kg) CAS#75354	TCE (ug/kg) CAS#79016	PCE (ug/kg) CAS#127184	VC (ug/kg) CAS#75014
BH-1	7/16/2001	2	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
		21	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
BH-2	7/16/2001	4	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
		21	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
BH-3	7/16/2001	2	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
		10	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
		21	ND (5)	ND (5)	ND (5)	28	ND (5)
BH-4	7/17/2001	1.5	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
		10	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
BH-5	7/17/2001	1	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
		7.5	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
		22	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
BH-6	7/17/2001	1	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
		19.5	ND (5)	ND (5)	ND (5)	7.5	ND (5)
BH-6 offset	8/10/2005	3.5	ND (3)	ND (3)	ND (3)	29	ND (6)
BH-7	7/17/2001	1	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
		15	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
BH-8	7/18/2001	1	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
		25.5	ND (5)	ND (5)	ND (5)	21.3	ND (5)
BH-8 offset	8/10/2005	2.5	ND (2.9)	ND (2.9)	ND (2.9)	3.2	ND (5.9)
BH-9	7/18/2001	1.5	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
		17.5	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
BH-10	7/18/2001	1	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
		25.5	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
BH-11	4/24/2003	3	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
		7	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
BH-12	4/24/2003	3	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
		7	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
BH-13	4/24/2003	3	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
		7	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
BH-14	4/24/2003	3	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
		7	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
BH-15	4/24/2003	3	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
BH-16	4/24/2003	3	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
		7	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
BH-17	4/25/2003	3	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
		7	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
BH-18	8/10/2005	4	ND (3.6)	ND (3.6)	ND (3.6)	4.7	ND (7.2)
		7	ND (3.6)	ND (3.6)	ND (3.6)	11	ND (7.2)
BH-19	8/10/2005	4	ND (3.4)	ND (3.4)	ND (3.4)	6.4	ND (6.7)
		7	ND (3.2)	ND (3.2)	ND (3.2)	4.8	ND (6.3)
BH-20	8/10/2005	4	ND (3.3)	ND (3.3)	ND (3.3)	10	ND (6.6)
		7	ND (2.9)	ND (2.9)	ND (2.9)	13	ND (5.9)
BH-21	8/10/2005	4	ND (3.6)	ND (3.6)	ND (3.6)	ND (3.6)	ND (7.2)
BH-22	8/10/2005	4	ND (3.1)	ND (3.1)	ND (3.1)	ND (3.1)	ND (6.3)
BH-23	8/12/2005	1	ND (2.5)	ND (2.5)	ND (2.5)	8	ND (5.1)
Type 1 RRS			500	700	500	500	200

Note:

DCA = 1,1-dichloroethane
DCE = 1,1-dichloroethene (total)
TCE = trichloroethene
PCE = tetrachloroethene
VC = vinyl chloride
ND = Not Detected @ (Reported Detection Limit)
Type 1 RRS (Rule 391-3-19) = 100 x Appendix III Table 1 Groundwater Criteria

TABLE 2

SUMMARY OF GROUNDWATER DATA

TABLE
Summary of Well Installation and Groundwater Depth Data

Well No.	Date Installed	Well Depth (ft)	Depth to Top of Bentonite Seal (ft)	Depth to Top of Sand Pack (ft)	Depth to Top of Screen (ft)	Length of Screen (ft)	Depth to Water September 5, 2000 (ft)
MW-4	8/28/00	17.5	4.1	5.9	7.5	10.0	9.58
MW-5	8/29/00	45.0	34.7	37.5	40.0	5.0	29.80
MW-6	8/30/00	55.0	45.1	47.3	50.0	5.0	28.46

TABLE
Summary of Groundwater Analytical Data

Well I.D.	Volatile Organics Tetrachloroethene* (ug/L)	Organochlorine Pesticides (ug/L)	Chlorinated Herbicides (ug/L)	Nitrate- Nitrogen (mg/L)	Total Arsenic (mg/L)	PAHs (ug/L)
MW-4	BDL	BDL	BDL	78.0	NA	NA
MW-5	BDL	BDL	BDL	20.9	BDL	BDL
MW-6	28	BDL	BDL	58.6	BDL	BDL
Lab Detection Limit	5	Varies with Pesticide	Varies with Herbicide	1.0-5.0	0.03	10
MCL	5	Varies with Pesticide	Varies with Herbicide	10	0.05	Varies with Constituent

NA = Not Analyzed

HSRA NC = Notification Requirements under Hazardous Site Response Act (Appendix I)

NE = Not Established

BDL = Below Lab Detection Limit

MCL = Maximum Contaminant Level

* Tetrachloroethene = Perchloroethylene or PCE

TABLE
Summary of Groundwater Analytical Data
FFM Main Facility

Well I.D.	Tetrachloroethene* (ug/L)
Equip. Blank	BDL
Trip Blank	BDL
MW-6	18
Lab Detection Limit	5
MCL	5

HSRA NC = Notification Requirements under Hazardous Site Response Act (Appendix I)

NE – Not Established

BDL = Below Laboratory Detection Limit

MCL = Maximum Contaminant Level

* Tetrachloroethene = Perchloroethylene or PCE

TABLE
MONITORING WELL DATA
FARMER'S FEED AND MILLING, COLQUIT, GEORGIA

Well No.	Depth to Screen (ft bgs)	Screened Interval (elev in ft)	TOC Elevation (ft)	Depth to Water (ft bTOC)	Water Elevation (ft)
MW-4	7 - 17	86 - 76	92.70	8.28	84.42
MW-5	40 - 45	56 - 51	95.57	24.10	71.47
MW-6	50 - 55	45 - 40	94.26	23.19	71.07
MW-7d	73 - 78	21 - 16	93.75	22.16	71.59
MW-8	43 - 48	51 - 46	93.57	21.75	71.82
MW-9	17 - 27	76 - 66	92.85	9.33	83.52

Note:

TOC (Top of Casing) elevations referenced to arbitrary project benchmark of 100.00 ft

bgs = below ground surface

bTOC = below TOC

TABLE
SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
FARMER'S FEED AND MILLING, COLQUITT, GEORGIA

Sample Location	DCA (ug/L)	DCE (ug/L)	TCE (ug/L)	PCE (ug/L)	VC (ug/L)
BH-1	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
BH-2	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
BH-3	ND (5)	ND (5)	ND (5)	108	ND (5)
BH-5	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
BH-6	ND (5)	ND (5)	ND (5)	23	ND (5)
BH-7	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
BH-8	ND (5)	ND (5)	ND (5)	118	ND (5)
BH-9	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
BH-10	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
MW-4	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
MW-5	ND (5)	ND (5)	ND (5)	8.8	ND (5)
MW-6	ND (5)	ND (5)	ND (5)	23	ND (5)
MW-7D	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
MW-8	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
MW-9	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
GC	4000	7	5	5	2

Note:

DCA = 1,1-dichloroethane

DCE = 1,1-dichloroethene (total)

TCE = trichloroethene

PCE = tetrachloroethene

VC = vinyl chloride

ND = Not Detected @ (Reported Detection Limit)

GC = Groundwater Criteria (HSRA default cleanup standards for groundwater, Appendix III Table 1)

TABLE 1
SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
FARMER'S FEED AND MILLING, COLQUIT, GEORGIA

Sample Location	Sample Date	DCA (ug/L)	DCE (ug/L)	TCE (ug/L)	PCE (ug/L)	VC (ug/L)
BH-1	7/16/01	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
BH-2	7/16/01	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
BH-3	7/16/01	ND (5)	ND (5)	ND (5)	108	ND (5)
BH-5	7/17/01	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
BH-6	7/17/01	ND (5)	ND (5)	ND (5)	23	ND (5)
BH-7	7/17/01	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
BH-8	7/17/01	ND (5)	ND (5)	ND (5)	118	ND (5)
BH-9	7/18/01	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
BH-10	7/18/01	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
MW-4	8/2/01	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
MW-5	8/2/01	ND (5)	ND (5)	ND (5)	8.8	ND (5)
	7/9/02	ND (5)	ND (5)	ND (5)	8	ND (5)
	10/29/02	ND (5)	ND (5)	ND (5)	9.1	ND (5)
	2/11/03	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
MW-6	8/2/01	ND (5)	ND (5)	ND (5)	23	ND (5)
	7/9/02	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	10/29/02	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	2/11/03	ND (5)	ND (5)	ND (5)	8.9	ND (5)
MW-7D	8/2/01	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	7/9/02	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	10/29/02	ND (5)	ND (5)	ND (5)	6.1	ND (5)
	2/11/03	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
MW-8	8/2/01	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
MW-9	8/2/01	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
MW-10	9/4/02	ND (5)	ND (5)	ND (5)	130	ND (5)
	10/29/02	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	2/11/03	ND (5)	ND (5)	ND (5)	120	ND (5)
GC		4000	7	5	5	2

14 type 2

Note:

MW-10 is located near BH-3
DCA = 1,1-dichloroethane
DCE = 1,1-dichloroethene (total)
TCE = trichloroethene
PCE = tetrachloroethene
VC = vinyl chloride
ND = Not Detected @ (Reported Detection Limit)
GC = Groundwater Criteria (HSRA default cleanup standards for groundwater, Appendix III Table 1)

TABLE
SUMMARY OF SAMPLE ANALYTICAL RESULTS
FARMER'S FEED AND MILLING, COLQUIT, GEORGIA

Groundwater

BH-11		ND (1)	ND (1)	ND (1)	ND (1)
BH-12		ND (1)	ND (1)	8.8	ND (1)
BH-13		ND (1)	ND (1)	1.2	ND (1)
BH-14		ND (1)	ND (1)	1.8	ND (1)
BH-16		ND (1)	ND (1)	4.2	ND (1)
BH-17		ND (1)	ND (1)	48.7	ND (1)
GC		7	5	5	2

Note:

Concentrations in $\mu\text{g}/\text{kg}$ (soil), $\mu\text{g}/\text{L}$ (water) ND = Not Detected @ (Reported Detection Limit)
DCE = 1,1-dichloroethene (total) TCE = trichloroethene
PCE = tetrachloroethene VC = vinyl chloride
GC = Groundwater Criteria (HSRA Appendix III Table 1)

No VOCs were detected in any of the soil samples collected. PCE (only) was detected in five of the six groundwater samples. Only two of the groundwater samples contained PCE at concentrations above the Groundwater Criteria of $5 \mu\text{g}/\text{L}$. The highest detection of PCE at $48.7 \mu\text{g}/\text{L}$ was collected from BH-17, located to the south of MW-10 within the area that has shown the highest impact from PCE.

The results of the sampling demonstrate that the extent of PCE, is in fact, limited to the immediate vicinity of MW-10 and to the south. This suggests that there is no undetected source area adjacent to, or

TABLE
SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
FARMER'S FEED AND MILLING, COLQUITT, GEORGIA

Sample Location	Sample Date	DCA (ug/L)	DCE (ug/L)	TCE (ug/L)	PCE (ug/L)	VC (ug/L)
BH-1	7/16/2001	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
BH-2	7/16/2001	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
BH-3	7/16/2001	ND (5)	ND (5)	ND (5)	108	ND (5)
BH-5	7/17/2001	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
BH-6	7/17/2001	ND (5)	ND (5)	ND (5)	23	ND (5)
BH-7	7/17/2001	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
BH-8	7/17/2001	ND (5)	ND (5)	ND (5)	118	ND (5)
BH-9	7/18/2001	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
BH-10	7/18/2001	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
BH-11	4/24/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
BH-12	4/24/2003	ND (5)	ND (5)	ND (5)	8.8	ND (5)
BH-13	4/24/2003	ND (5)	ND (5)	ND (5)	1.2	ND (5)
BH-14	4/24/2003	ND (5)	ND (5)	ND (5)	1.8	ND (5)
BH-16	4/24/2003	ND (5)	ND (5)	ND (5)	4.2	ND (5)
BH-17	4/25/2003	ND (5)	ND (5)	ND (5)	48.7	ND (5)
MW-4	8/2/2001	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
MW-5	8/2/2001	ND (5)	ND (5)	ND (5)	8.8	ND (5)
	7/9/2002	ND (5)	ND (5)	ND (5)	8	ND (5)
	#####	ND (5)	ND (5)	ND (5)	9.1	ND (5)
	2/11/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	9/30/2003	ND (5)	ND (5)	ND (5)	8	ND (5)
MW-6	8/2/2001	ND (5)	ND (5)	ND (5)	23	ND (5)
	7/9/2002	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	#####	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	2/11/2003	ND (5)	ND (5)	ND (5)	8.9	ND (5)
	9/30/2003	ND (5)	ND (5)	ND (5)	20	ND (5)
MW-7D	8/2/2001	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	7/9/2002	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	#####	ND (5)	ND (5)	ND (5)	6.1	ND (5)
	2/11/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	9/30/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
MW-8	8/2/2001	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
MW-9	8/2/2001	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
MW-10	9/4/2002	ND (5)	ND (5)	ND (5)	130	ND (5)
	#####	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	2/11/2003	ND (5)	ND (5)	ND (5)	120	ND (5)
	9/30/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
MW-11	9/30/2003	ND (5)	ND (5)	ND (5)	430	ND (5)
GC		4000	7	5	5	2

Consistent

Consistent

Inconsistent

Note:

MW-10 is located near BH-3

DCA = 1,1-dichloroethane

DCE = 1,1-dichloroethene (total)

TCE = trichloroethene

PCE = tetrachloroethene

VC = vinyl chloride

ND = Not Detected @ (Reported Detection Limit)

GC = Groundwater Criteria (HSRA default cleanup standards for groundwater, Appendix III Table 1)

TABLE
SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
FARMER'S FEED AND MILLING, COLQUITT, GEORGIA

Sample Location	Sample Date	DCA (ug/L) CAS#75343	DCE (ug/L) CAS#75354	TCE (ug/L) CAS#79016	PCE (ug/L) CAS#127184	VC (ug/L) CAS#75014
MW-4	8/2/2001	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
MW-5	8/2/2001	ND (5)	ND (5)	ND (5)	8.8	ND (5)
	7/9/2002	ND (5)	ND (5)	ND (5)	8	ND (5)
	10/29/2002	ND (5)	ND (5)	ND (5)	9.1	ND (5)
	2/11/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	9/30/2003	ND (5)	ND (5)	ND (5)	8	ND (5)
	11/7/2003	ND (5)	ND (5)	ND (5)	5.5	ND (5)
	4/14/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	6/23/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
MW-6	8/2/2001	ND (5)	ND (5)	ND (5)	23	ND (5)
	7/9/2002	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	10/29/2002	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	2/11/2003	ND (5)	ND (5)	ND (5)	8.9	ND (5)
	9/30/2003	ND (5)	ND (5)	ND (5)	20	ND (5)
	11/7/2003	ND (5)	ND (5)	ND (5)	29	ND (5)
	4/14/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	6/23/2004	ND (5)	ND (5)	ND (5)	20	ND (5)
MW-7D	8/2/2001	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	7/9/2002	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	10/29/2002	ND (5)	ND (5)	ND (5)	6.1	ND (5)
	2/11/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	9/30/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	11/7/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	4/14/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	6/23/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
MW-8	8/2/2001	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
MW-9	8/2/2001	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	11/7/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
MW-10	9/4/2002	ND (5)	ND (5)	ND (5)	130	ND (5)
	10/29/2002	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	2/11/2003	ND (5)	ND (5)	ND (5)	120	ND (5)
	9/30/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	11/7/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	4/14/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	6/23/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
MW-11	9/30/2003	ND (5)	ND (5)	ND (5)	430	ND (5)
	11/7/2003	ND (5)	ND (5)	ND (5)	180	ND (5)
	4/14/2004	ND (5)	ND (5)	ND (5)	460	ND (5)
	6/23/2004	ND (5)	ND (5)	ND (5)	41	ND (5)
MW-12	6/23/2004	ND (5)	ND (5)	ND (5)	19	ND (5)
Type 1 RRS		4000	7	5	5	2
Type 4 RRS		4000	525	40	55	5

Note:

DCA = 1,1-dichloroethane

DCE = 1,1-dichloroethene (total)

TCE = trichloroethene

PCE = tetrachloroethene

VC = vinyl chloride

ND = Not Detected @ (Reported Detection Limit)

Type 1 RRS = Groundwater Criteria (Appendix III Table 1)

Type 4 RRS = Groundwater Criteria (generic assumptions)

MONITORING WELL DATA
FARMER'S FEED AND MILLING, COLQUIT, GEORGIA

Well No.	Depth to Screen (ft bgs)	Screened Interval (elev in ft)	TOC Elevation (ft)	Date Measured	Depth to Water (ft bTOC)	Water Elevation (ft)
MW-4	7 - 17	86 - 76	92.70	8/2/2001	8.28	84.42
MW-5	40 - 45	56 - 51	95.57	8/2/2001	24.10	71.47
				7/9/2002	25.25	70.32
				10/29/2002	20.35	75.22
				2/11/2003	18.43	77.14
				9/30/2003	18.42	77.15
				11/7/2003	21.59	73.98
				4/14/2004	19.99	75.58
				6/23/2004	19.41	76.16
				10/20/2004	21.14	74.43
MW-6	50 - 55	45 - 40	94.26	8/2/2001	23.19	71.07
				7/9/2002	23.87	70.39
				10/29/2002	18.98	75.28
				2/11/2003	16.87	77.39
				9/30/2003	18.17	76.09
				11/7/2003	20.07	74.19
				4/14/2004	18.52	75.74
				6/23/2004	17.99	76.27
				10/20/2004	20.63	73.63
MW-7d	73 - 78	21 - 16	93.75	8/2/2001	22.16	71.59
				7/9/2002	23.36	70.39
				10/29/2002	18.43	75.32
				2/11/2003	16.42	77.33
				9/30/2003	17.46	76.29
				11/7/2003	19.42	74.33
				4/14/2004	17.98	75.77
				6/23/2004	17.52	76.23
				10/20/2004	20.11	73.64
MW-8	43 - 48	51 - 46	93.57	8/2/2001	21.75	71.82
				7/9/2002	23.27	70.30
				10/29/2002	18.33	75.24
				11/7/2003	19.30	74.27
				4/14/2004	17.92	75.65
MW-9	17 - 27	76 - 66	92.85	8/2/2001	9.33	83.52
				7/9/2002	10.09	82.76
				10/29/2002	9.49	83.36
				11/7/2003	9.45	83.40
				4/14/2004	13.77	79.08
MW-10	19 - 29		93.41	10/29/2002	11.14	82.27
				2/11/2003	10.29	83.12
				9/30/2003	11.19	82.22
				11/7/2003	12.46	80.95
				4/14/2004	13.38	80.03
				6/23/2004	11.94	81.47
				10/20/2004	13.06	80.35
MW-11	20 - 30		94.44	9/30/2003	11.19	83.25
				11/7/2003	12.08	82.36
				4/14/2004	13.03	81.41
				6/23/2004	12.57	81.87
				10/20/2004	15.36	79.08

Note:

TOC (Top of Casing) elevations referenced to arbitrary project
benchmark of 100.00 ft
bgs = below ground surface
bTOC = below TOC

TABLE
SUMMARY OF DPT GROUNDWATER SAMPLE ANALYTICAL RESULTS
FARMER'S FEED AND MILLING, COLQUIT, GEORGIA

Sample Location	Sample Date	Sample Depth (ft)	DCA (ug/L) CAS#75343	DCE (ug/L) CAS#75354	TCE (ug/L) CAS#79016	PCE (ug/L) CAS#127184	VC (ug/L) CAS#75014	Toluene (ug/L)
BH-1	7/16/2001	26	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
BH-2	7/16/2001	24	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
BH-3	7/16/2001	23	ND (5)	ND (5)	ND (5)	108	ND (5)	NA
BH-5	7/17/2001	32	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
BH-6	7/17/2001	22	ND (5)	ND (5)	ND (5)	23	ND (5)	NA
BH-7	7/17/2001	14	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
BH-8	7/17/2001	27	ND (5)	ND (5)	ND (5)	118	ND (5)	NA
BH-9	7/18/2001	18	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
BH-10	7/18/2001	52	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
BH-11	4/24/2003	46	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
BH-12	4/24/2003	16	ND (1)	ND (1)	ND (1)	8.8	ND (1)	ND (1)
BH-13	4/24/2003	46	ND (1)	ND (1)	ND (1)	1.2	ND (1)	ND (1)
BH-14	4/24/2003	43	ND (1)	ND (1)	ND (1)	1.8	ND (1)	ND (1)
BH-16	4/24/2003	40	ND (1)	ND (1)	ND (1)	4.2	ND (1)	ND (1)
BH-17	4/25/2003	40	ND (1)	ND (1)	ND (1)	48.7	ND (1)	ND (1)
BH-18	8/10/2005	17	ND (5)	ND (5)	ND (5)	18	ND (5)	ND (5)
BH-19	8/10/2005	20	ND (5)	ND (5)	ND (5)	70	ND (5)	ND (5)
BH-20	8/10/2005	12.5	ND (5)	ND (5)	ND (5)	24	ND (5)	5.1
BH-21	8/10/2005	7.5	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
BH-22	8/11/2005	11	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
BH-23	8/12/2005	10	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Type 1/3 RRS			4,000	7	5	5	2	1,000

Note:

DCA = 1,1-dichloroethane

DCE = 1,1-dichloroethene (total)

TCE = trichloroethene

PCE = tetrachloroethene

VC = vinyl chloride

ND = Not Detected @ (Reported Detection Limit)

Type 1/3 RRS = Groundwater Criteria (Appendix III Table 1)

TABLE 3
MONITORING WELL WATER LEVEL DATA
FARMER'S FEED AND MILLING, COLQUIT, GEORGIA

Well No.	Depth to Screen (ft bgs)	Screened Interval (elev in ft)	TOC Elevation (ft)	Date Measured	Depth to Water (ft bTOC)	Water Elevation (ft)
MW-4	7 - 17	86 - 76	92.70	8/2/2001	8.28	84.42
				8/19/2005	1.60	91.10
				9/9/2005	4.30	88.40
MW-5	40 - 45	56 - 51	95.57	8/2/2001	24.10	71.47
				7/9/2002	25.25	70.32
				10/29/2002	20.35	75.22
				2/11/2003	18.43	77.14
				9/30/2003	18.42	77.15
				11/7/2003	21.59	73.98
				6/23/2004	19.41	76.16
				10/20/2004	21.14	74.43
				6/15/2005	15.60	79.97
				8/19/2005	13.69	81.68
				9/9/2005	16.12	79.45
				9/9/2005	16.12	79.45
MW-6	50 - 55	45 - 40	94.26	8/2/2001	23.19	71.07
				7/9/2002	23.67	70.39
				10/29/2002	18.98	75.28
				2/11/2003	16.67	77.39
				9/30/2003	18.17	76.09
				11/7/2003	20.07	74.19
				6/23/2004	17.99	76.27
				10/20/2004	20.63	73.63
				6/15/2005	13.94	80.32
				8/19/2005	5.38	88.88
				9/9/2005	15.68	78.58
				9/9/2005	15.68	78.58
MW-7d	73 - 78	21 - 16	93.75	8/2/2001	22.16	71.59
				7/9/2002	23.36	70.39
				10/29/2002	18.43	75.32
				2/11/2003	16.42	77.33
				9/30/2003	17.46	76.29
				11/7/2003	19.42	74.33
				6/23/2004	17.52	76.23
				10/20/2004	20.11	73.64
				6/15/2005	13.31	80.44
				8/19/2005	12.83	80.92
				9/9/2005	14.11	79.64
				9/9/2005	14.11	79.64
MW-8	43 - 48	51 - 46	93.57	8/2/2001	21.25	71.82
				7/9/2002	23.27	70.30
				10/29/2002	18.33	75.24
				11/7/2003	19.30	74.27
				4/14/2004	17.92	75.65
				10/20/2004	-	NM
				6/15/2005	13.15	80.42
				8/19/2005	11.79	81.78
				9/9/2005	14.08	79.49
				9/9/2005	14.08	79.49
MW-9	17 - 27	76 - 66	92.85	8/2/2001	9.33	82.76
				7/9/2002	10.09	82.76
				10/29/2002	9.49	83.36
				11/7/2003	9.45	83.40
				4/14/2004	13.77	79.08
				10/20/2004	-	NM
				6/15/2005	7.68	85.17
				8/19/2005	3.59	89.26
				9/9/2005	5.50	87.35
				9/9/2005	5.50	87.35
MW-10	19 - 29	74 - 64	93.41	10/29/2002	11.14	82.27
				2/11/2003	10.29	83.12
				9/30/2003	11.19	82.22
				11/7/2003	12.46	80.95
				6/23/2004	11.94	81.47
				10/20/2004	13.06	80.35
				6/15/2005	6.17	87.24
				8/19/2005	4.37	89.04
				9/9/2005	7.38	86.03
				9/9/2005	7.38	86.03
MW-11	20 - 30	74 - 64	94.44	9/30/2003	11.19	83.25
				11/7/2003	12.08	82.36
				6/23/2004	12.57	81.87
				10/20/2004	15.36	79.08
				6/15/2005	9.24	85.20
				8/19/2005	5.22	89.22
				9/9/2005	6.63	87.81
MW-12	20 - 30	75 - 65	95.46	6/23/2004	19.11	76.35
				10/20/2004	21.93	73.53
				6/15/2005	15.16	80.30
				8/19/2005	13.38	82.08
				9/9/2005	15.16	80.30
MW-13	8 - 18	86 - 76	93.76	8/19/2005	5.70	88.06
				9/9/2005	7.59	86.17
MW-14	8 - 13	86 - 81	96.72	8/19/2005	6.40	90.32
				9/9/2005	8.50	88.22
MW-15	10 - 20	83 - 73	93.30	8/19/2005	5.68	87.62
				9/9/2005	7.45	85.85
MW-16	10 - 20	86 - 76	96.34	8/19/2005	6.32	90.02
				9/9/2005	9.46	86.88
MW-17	65 - 75	28 - 18	93.40	8/19/2005	13.01	80.39
				9/9/2005	17.78	75.62

TOC (Top of Casing) elevations referenced to arbitrary project
benchmark of 100.00 ft
bgs = below ground surface
bTOC = below TOC
NM = not measured

TABLE 4
WELL PURGING DATA SUMMARY
FARMER'S FEED AND MILLING, COLQUIT, GEORGIA

Well Number	Total Depth (ft.)	Purge Date	Total Gallons Purged ⁽¹⁾	pH	Turbidity (ntu) ⁽²⁾	Conductivity (μS) ⁽³⁾	Temperature (°C) ⁽⁴⁾	Dissolved Oxygen (mg/L)	ORP (mV)
MW-4	17	8/19/2005	1.4	-	3	491	29.4	4.0	469
MW-5	45	6/15/2005	2.1	5.08	2	521	23.3	2.8	561
MW-6	55	6/15/2005	2.6	6.56	79	1,710	26.7	2.4	268
MW-7D	78	6/15/2005	2.1	7.34	39	323	25.3	1.2	554
MW-10*	29	6/15/2005	1.0	-	-	-	-	-	-
MW-11	30	6/15/2005	1.0	6.15	208	2,200	27.6	-	-
MW-12	30	6/15/2005	1.0	6.77	999	2,490	30.6	-	-
MW-13	18	8/19/2005	2.1	5.72	22	7,830	28.9	0.8	121
MW-14	13	8/19/2005	1.4	-	17	842	26.1	5.0	371
MW-15	20	8/19/2005	1.2	5.33	35	657	29.1	0.6	204
MW-16	20	8/19/2005	2.6	4.83	1	261	24.7	3.7	268
MW-17D	75	8/19/2005	2.0	7.46	6	350	26.9	3.1	131

Notes:

⁽¹⁾ Purged using low-flow method @ 150 - 300 mL/min

⁽²⁾ Nephelometric Turbidity Units

⁽³⁾ microSeimens

⁽⁴⁾ Degrees Celsius

MW-10* - parameters not measured at time of sampling due to presence of permanganate

TABLE
SUMMARY OF MONITORING WELL SAMPLE ANALYTICAL RESULTS
FARMER'S FEED AND MILLING, COLQUITT, GEORGIA

Sample Location	Sample Date	DCA (ug/L) CAS#75343	DCE (ug/L) CAS#7535#	TCE (ug/L) CAS#79016	PCE (ug/L) CAS#127184	VC (ug/L) CAS#75014	Toluene (ug/L)
MW-4	8/2/2001	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
	8/19/2005	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	14
MW-5	8/2/2001	ND (5)	ND (5)	ND (5)	8.8	ND (5)	NA
	7/9/2002	ND (5)	ND (5)	ND (5)	8	ND (5)	NA
	10/29/2002	ND (5)	ND (5)	ND (5)	9.1	ND (5)	NA
	2/11/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
	9/30/2003	ND (5)	ND (5)	ND (5)	8	ND (5)	NA
	11/7/2003	ND (5)	ND (5)	ND (5)	5.5	ND (5)	NA
	4/14/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
	6/23/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
	10/20/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
	6/15/2005	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
MW-6	8/2/2001	ND (5)	ND (5)	ND (5)	23	ND (5)	NA
	7/9/2002	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
	10/29/2002	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
	2/11/2003	ND (5)	ND (5)	ND (5)	8.9	ND (5)	NA
	9/30/2003	ND (5)	ND (5)	ND (5)	20	ND (5)	NA
	11/7/2003	ND (5)	ND (5)	ND (5)	29	ND (5)	NA
	4/14/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
	6/23/2004	ND (5)	ND (5)	ND (5)	20	ND (5)	NA
	10/20/2004	ND (5)	ND (5)	ND (5)	25	ND (5)	NA
	6/15/2005	ND (5)	ND (5)	ND (5)	53	ND (5)	NA
MW-7D	8/2/2001	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
	7/9/2002	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
	10/29/2002	ND (5)	ND (5)	ND (5)	6.1	ND (5)	NA
	2/11/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
	9/30/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
	11/7/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
	4/14/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
	6/23/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
	10/20/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
	6/15/2005	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
MW-8	8/2/2001	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
MW-9	8/2/2001	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
	11/7/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
MW-10	9/4/2002	ND (5)	ND (5)	ND (5)	130	ND (5)	NA
	10/29/2002	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
	2/11/2003	ND (5)	ND (5)	ND (5)	120	ND (5)	NA
	9/30/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
	11/7/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
	4/14/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
	6/23/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
	10/20/2004	ND (5)	ND (5)	ND (5)	8.6	ND (5)	NA
MW-11	6/15/2005	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
	9/30/2003	ND (5)	ND (5)	ND (5)	430	ND (5)	NA
	11/7/2003	ND (5)	ND (5)	ND (5)	180	ND (5)	NA
	4/14/2004	ND (5)	ND (5)	ND (5)	460	ND (5)	NA
	6/23/2004	ND (5)	ND (5)	ND (5)	41	ND (5)	NA
	10/20/2004	ND (5)	ND (5)	ND (5)	57	ND (5)	NA
MW-12	6/15/2005	ND (5)	ND (5)	ND (5)	180	ND (5)	NA
	6/23/2004	ND (5)	ND (5)	ND (5)	19	ND (5)	NA
	10/20/2004	ND (5)	ND (5)	ND (5)	17	ND (5)	NA
MW-13	6/15/2005	ND (5)	ND (5)	ND (5)	13	ND (5)	NA
	8/19/2005	ND (5)	ND (5)	ND (5)	11	ND (5)	ND (5)
MW-14	8/19/2005	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
MW-15	8/19/2005	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
MW-16	8/19/2005	ND (5)	ND (5)	ND (5)	6.3	ND (5)	6.3
MW-17D	8/19/2005	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	5.2
Type 1/3 RRS		4,000	7	5	5	2	1,000

Note:

DCA = 1,1-dichloroethane
DCE = 1,1-dichloroethene (total)
TCE = trichloroethene
PCE = tetrachloroethene
VC = vinyl chloride
ND = Not Detected @ (Reported Detection Limit)
Type 1/3 RRS = Groundwater Criteria (Appendix III Table 1)

TABLE
COMPARISON OF GROUNDWATER ANALYTICAL RESULTS
FARMER'S FEED AND MILLING, COLQUIT, GEORGIA

Sample Location	Sample Date	DCA (ug/L) CAS#75343	DCE (ug/L) CAS#75354	TCE (ug/L) CAS#79016	PCE (ug/L) CAS#127184	VC (ug/L) CAS#75014	Toluene (ug/L) CAS#108883
MW-4	8/2/2001	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
	8/19/2005	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	14
MW-5	8/2/2001	ND (5)	ND (5)	ND (5)	8.8	ND (5)	NA
Post Pilot Injection 1	7/9/2002	ND (5)	ND (5)	ND (5)	8	ND (5)	NA
Post Pilot Injection 2	10/29/2002	ND (5)	ND (5)	ND (5)	9.1	ND (5)	NA
	2/11/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
Post Pilot Injection 3	9/30/2003	ND (5)	ND (5)	ND (5)	8	ND (5)	NA
	11/7/2003	ND (5)	ND (5)	ND (5)	5.5	ND (5)	NA
	4/14/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
Post Pilot Injection 4	6/23/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
	10/20/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
	6/15/2005	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
Post Full Scale Injection	12/20/2006	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
MW-6	8/2/2001	ND (5)	ND (5)	ND (5)	23	ND (5)	NA
Post Pilot Injection 1	7/9/2002	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
Post Pilot Injection 2	10/29/2002	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
	2/11/2003	ND (5)	ND (5)	ND (5)	8.9	ND (5)	NA
Post Pilot Injection 3	9/30/2003	ND (5)	ND (5)	ND (5)	20	ND (5)	NA
	11/7/2003	ND (5)	ND (5)	ND (5)	29	ND (5)	NA
	4/14/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
Post Pilot Injection 4	6/23/2004	ND (5)	ND (5)	ND (5)	20	ND (5)	NA
	10/20/2004	ND (5)	ND (5)	ND (5)	25	ND (5)	NA
	6/15/2005	ND (5)	ND (5)	ND (5)	33	ND (5)	NA
Post Full Scale Injection	12/20/2006	ND (5)	ND (5)	ND (5)	10	ND (5)	NA
MW-7D	8/2/2001	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
Post Pilot Injection 1	7/9/2002	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
Post Pilot Injection 2	10/29/2002	ND (5)	ND (5)	ND (5)	6.1	ND (5)	NA
	2/11/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
Post Pilot Injection 3	9/30/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
	11/7/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
	4/14/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
Post Pilot Injection 4	6/23/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
	10/20/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
	6/15/2005	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
Post Full Scale Injection	12/20/2006	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
MW-8	8/2/2001	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
MW-9	8/2/2001	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
	11/7/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA

TABLE 1
COMPARISON OF GROUNDWATER ANALYTICAL RESULTS
FARMER'S FEED AND MILLING, COLQUITT, GEORGIA

Sample Location	Sample Date	DCA (ug/L) CAS#75343	DCE (ug/L) CAS#75354	TCE (ug/L) CAS#79016	PCE (ug/L) CAS#127184	VC (ug/L) CAS#75014	Toluene (ug/L) CAS#108883
MW-10	9/4/2002	ND (5)	ND (5)	ND (5)	130	ND (5)	NA
	10/29/2002	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
	2/11/2003	ND (5)	ND (5)	ND (5)	120	ND (5)	NA
Post Pilot Injection 3	9/30/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
	11/7/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
	4/14/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
Post Pilot Injection 4	6/23/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
	10/20/2004	ND (5)	ND (5)	ND (5)	5.6	ND (5)	NA
	6/15/2005	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
Post Full Scale Injection	12/19/2006	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
MW-11							
Post Pilot Injection 3	9/30/2003	ND (5)	ND (5)	ND (5)	430	ND (5)	NA
	11/7/2003	ND (5)	ND (5)	ND (5)	180	ND (5)	NA
	4/14/2004	ND (5)	ND (5)	ND (5)	460	ND (5)	NA
Post Pilot Injection 4	6/23/2004	ND (5)	ND (5)	ND (5)	41	ND (5)	NA
	10/20/2004	ND (5)	ND (5)	ND (5)	37	ND (5)	NA
	6/15/2005	ND (5)	ND (5)	ND (5)	180	ND (5)	NA
Post Full Scale Injection	12/19/2006	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
MW-12							
Post Pilot Injection 4	6/23/2004	ND (5)	ND (5)	ND (5)	19	ND (5)	NA
	10/20/2004	ND (5)	ND (5)	ND (5)	17	ND (5)	NA
	6/15/2005	ND (5)	ND (5)	ND (5)	13	ND (5)	NA
Post Full Scale Injection	12/19/2006	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
MW-13	8/19/2005	ND (5)	ND (5)	ND (5)	11	ND (5)	ND (5)
Post Full Scale Injection	12/20/2006	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
MW-14	8/19/2005	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Post Full Scale Injection	12/20/2006	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
MW-15	8/19/2005	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
MW-16	8/19/2005	ND (5)	ND (5)	ND (5)	6.3	ND (5)	6.3
Post Full Scale Injection	12/19/2006	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
MW-17D	8/19/2005	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	5.2
Post Full Scale Injection	12/19/2006	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
Type 1/3 RRS		4,000	7	5	5	2	1,000

Notes:

DCA = 1,1-dichloroethane

DCE = 1,1-dichloroethene (total)

TCE = trichloroethene

PCE = tetrachloroethene

VC = vinyl chloride

ND = Not Detected @ (Reported Detection Limit)

Type 1/3 RRS = Groundwater Criteria (Appendix III Table 1)

MW-10 12/19/06 sample had a suspect detection of methylene chloride (5.6 ug/L).

COMPARISON OF GROUNDWATER ANALYTICAL RESULTS
 BIRDSONG PEANUT
 FARMER'S FEED AND MILLING
 COLQUITT, GEORGIA

Sample Location	Sample Date	DCA (ug/L) CAS#75343	DCE (ug/L) CAS#75354	TCE (ug/L) CAS#79016	PCE (ug/L) CAS#127184	VC (ug/L) CAS#75014	Toluene (ug/L) CAS#108883
MW-4	8/2/2001	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
	8/19/2005	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	14
MW-5	8/2/2001	ND (5)	ND (5)	ND (5)	8.8	ND (2)	NA
Post Pilot Injection 1	7/9/2002	ND (5)	ND (5)	ND (5)	8	ND (2)	NA
Post Pilot Injection 2	10/29/2002	ND (5)	ND (5)	ND (5)	9.1	ND (2)	NA
Post Pilot Injection 3	2/11/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	9/30/2003	ND (5)	ND (5)	ND (5)	8	ND (2)	NA
	11/7/2003	ND (5)	ND (5)	ND (5)	5.5	ND (2)	NA
Post Pilot Injection 4	4/14/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	6/23/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	10/20/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
Post Full Scale Injection	6/15/2005	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	12/20/2006	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	4/10/2007	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
MW-6	8/2/2001	ND (5)	ND (5)	ND (5)	23	ND (2)	NA
Post Pilot Injection 1	7/9/2002	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
Post Pilot Injection 2	10/29/2002	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
Post Pilot Injection 3	2/11/2003	ND (5)	ND (5)	ND (5)	8.9	ND (2)	NA
	9/30/2003	ND (5)	ND (5)	ND (5)	20	ND (2)	NA
	11/7/2003	ND (5)	ND (5)	ND (5)	29	ND (2)	NA
Post Pilot Injection 4	4/14/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	6/23/2004	ND (5)	ND (5)	ND (5)	20	ND (2)	NA
	10/20/2004	ND (5)	ND (5)	ND (5)	25	ND (2)	NA
Post Full Scale Injection	6/15/2005	ND (5)	ND (5)	ND (5)	53	ND (2)	NA
	12/20/2006	ND (5)	ND (5)	ND (5)	10	ND (2)	NA
	4/10/2007	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
MW-7D	8/2/2001	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
Post Pilot Injection 1	7/9/2002	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
Post Pilot Injection 2	10/29/2002	ND (5)	ND (5)	ND (5)	6.1	ND (2)	NA
Post Pilot Injection 3	2/11/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	9/30/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	11/7/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
Post Pilot Injection 4	4/14/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	6/23/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	10/20/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
Post Full Scale Injection	6/15/2005	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	12/20/2006	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	4/10/2007	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
MW-8	8/2/2001	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
MW-9	8/2/2001	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	11/7/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA

COMPARISON OF GROUNDWATER ANALYTICAL RESULTS
 BIRDSONG PEANUT
 FARMER'S FEED AND MILLING
 COLQUITT, GEORGIA

Sample Location	Sample Date	DCA (ug/L) CAS#75343	DCE (ug/L) CAS#75354	TCE (ug/L) CAS#79016	PCE (ug/L) CAS#127184	VC (ug/L) CAS#75014	Toluene (ug/L) CAS#108883
MW-10	9/4/2002	ND (5)	ND (5)	ND (5)	140	ND (2)	NA
	10/29/2002	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	2/11/2003	ND (5)	ND (5)	ND (5)	120	ND (2)	NA
Post Pilot Injection 3	9/30/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	11/7/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	4/14/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
Post Pilot Injection 4	6/23/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	10/20/2004	ND (5)	ND (5)	ND (5)	8.6	ND (2)	NA
	6/15/2005	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
Post Full Scale Injection	12/19/2006	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	4/10/2007	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
MW-11	9/30/2003	ND (5)	ND (5)	ND (5)	430	ND (2)	NA
Post Pilot Injection 3	11/7/2003	ND (5)	ND (5)	ND (5)	180	ND (2)	NA
	4/14/2004	ND (5)	ND (5)	ND (5)	460	ND (2)	NA
Post Pilot Injection 4	6/23/2004	ND (5)	ND (5)	ND (5)	41	ND (2)	NA
	10/20/2004	ND (5)	ND (5)	ND (5)	57	ND (2)	NA
	6/15/2005	ND (5)	ND (5)	ND (5)	180	ND (2)	NA
Post Full Scale Injection	12/19/2006	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	4/10/2007	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
MW-12	6/23/2004	ND (5)	ND (5)	ND (5)	19	ND (2)	NA
Post Pilot Injection 4	10/20/2004	ND (5)	ND (5)	ND (5)	17	ND (2)	NA
	6/15/2005	ND (5)	ND (5)	ND (5)	13	ND (2)	NA
Post Full Scale Injection	12/19/2006	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	4/10/2007	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
MW-13	8/19/2005	ND (5)	ND (5)	ND (5)	11	ND (2)	ND (5)
Post Full Scale Injection	12/20/2006	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	4/10/2007	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
MW-14	8/19/2005	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	ND (5)
Post Full Scale Injection	12/20/2006	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
MW-15	8/19/2005	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	ND (5)
MW-16	8/19/2005	ND (5)	ND (5)	ND (5)	6.3	ND (2)	6.3
Post Full Scale Injection	12/19/2006	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	4/10/2007	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
MW-17D	8/19/2005	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	5.2
Post Full Scale Injection	12/19/2006	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
Type 1/3 RRS		1,000	7	5	5	2	1,000

Notes:

DCA = 1,1-dichloroethane

DCE = 1,1-dichloroethene (total)

TCE = trichloroethene

PCE = tetrachloroethene

VC = vinyl chloride

ND = Not Detected @ (Reported Detection Limit)

Type 1/3 RRS = Groundwater Criteria (Appendix III Table 1)

MW-10 12/19/06 sample had a suspect detection of methylene chloride (5.6 ug/L).

TABLE:

SELECT METALS AND IONS GROUNDWATER RESULTS
 BIRDSONG PEANUT
 FARMER'S FEED AND MILLING
 COLQUITT, GEORGIA

Sample Location	Sample Date	Calcium	Iron	Manganese	Potassium	Sodium	Chloride	Sulfate
MW-5	4/10/2007	89.4	0.274	0.41	6.19	23.9	6.1	44
MW-6	4/10/2007	177	0.188	68.7	89.5	9.19	160	BRL
MW-10	4/10/2007	157	1.91	323	1070	43.8	840	940
MW-11	4/10/2007	72.4	0.778	17.5	104	9.7	150	230
MW-12	4/10/2007	56.1	BRL	2.73	17.4	3.32	BRL	BRL
MW-13	4/10/2007	14.1	0.448	5.22	42.4	5.31	24	44
MW-16	4/10/2007	22.7	BRL	0.195	18.9	1.91	13	12

Notes:

BRL = Below Reporting Limit

All units are represented in mg/L

TABLE

COMPARISON OF GROUNDWATER ANALYTICAL RESULTS
 BIRDSONG PEANUT
 FARMER'S FEED AND MILLING
 COLQUITT, GEORGIA

Sample Location	Sample Date	DCA (ug/L) CAS#75343	DCE (ug/L) CAS#75354	TCE (ug/L) CAS#79016	PCE (ug/L) CAS#127184	VC (ug/L) CAS#75014	Toluene (ug/L) CAS#108883
MW-4	8/2/2001	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
	8/19/2005	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	14
MW-5	8/2/2001	ND (5)	ND (5)	ND (5)	8.8	ND (2)	NA
Post Pilot Injection 1	7/9/2002	ND (5)	ND (5)	ND (5)	8	ND (2)	NA
Post Pilot Injection 2	10/29/2002	ND (5)	ND (5)	ND (5)	9.1	ND (2)	NA
Post Pilot Injection 3	2/11/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	9/30/2003	ND (5)	ND (5)	ND (5)	8	ND (2)	NA
	11/7/2003	ND (5)	ND (5)	ND (5)	5.5	ND (2)	NA
Post Pilot Injection 4	4/14/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	6/23/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	10/20/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
Post Full Scale Injection	6/15/2005	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	12/20/2006	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	4/10/2007	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	6/27/2007	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
MW-6	8/2/2001	ND (5)	ND (5)	ND (5)	23	ND (2)	NA
Post Pilot Injection 1	7/9/2002	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
Post Pilot Injection 2	10/29/2002	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
Post Pilot Injection 3	2/11/2003	ND (5)	ND (5)	ND (5)	8.9	ND (2)	NA
	9/30/2003	ND (5)	ND (5)	ND (5)	20	ND (2)	NA
	11/7/2003	ND (5)	ND (5)	ND (5)	29	ND (2)	NA
Post Pilot Injection 4	4/14/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	6/23/2004	ND (5)	ND (5)	ND (5)	20	ND (2)	NA
	10/20/2004	ND (5)	ND (5)	ND (5)	25	ND (2)	NA
Post Full Scale Injection	6/15/2005	ND (5)	ND (5)	ND (5)	53	ND (2)	NA
	12/20/2006	ND (5)	ND (5)	ND (5)	10	ND (2)	NA
	4/10/2007	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	6/27/2007	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA

COMPARISON OF GROUNDWATER ANALYTICAL RESULTS
 BIRDSONG PEANUT
 FARMER'S FEED AND MILLING
 COLQUITT, GEORGIA

Sample Location	Sample Date	DCA (ug/L) CAS#75343	DCE (ug/L) CAS#75354	TCE (ug/L) CAS#79016	PCE (ug/L) CAS#127184	VC (ug/L) CAS#75014	Toluene (ug/L) CAS#108883
MW-7D	8/2/2001	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
Post Pilot Injection 1	7/9/2002	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
Post Pilot Injection 2	10/29/2002	ND (5)	ND (5)	ND (5)	6.1	ND (2)	NA
	2/11/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
Post Pilot Injection 3	9/30/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	11/7/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	4/14/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
Post Pilot Injection 4	6/23/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	10/20/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	6/15/2005	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
Post Full Scale Injection	12/20/2006	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	6/27/2007 & Duplicate	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
		ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
MW-8	8/2/2001	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
MW-9	8/2/2001	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	11/7/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
MW-10	9/4/2002	ND (5)	ND (5)	ND (5)	130	ND (2)	NA
	10/29/2002	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	2/11/2003	ND (5)	ND (5)	ND (5)	120	ND (2)	NA
Post Pilot Injection 3	9/30/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	11/7/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	4/14/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
Post Pilot Injection 4	6/23/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	10/20/2004	ND (5)	ND (5)	ND (5)	8.6	ND (2)	NA
	6/15/2005	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
Post Full Scale Injection	12/19/2006	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	4/10/2007	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	6/27/2007	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA

COMPARISON OF GROUNDWATER ANALYTICAL RESULTS
 BIRDSONG PEANUT
 FARMER'S FEED AND MILLING
 COLQUITT, GEORGIA

Sample Location	Sample Date	DCA (ug/L) CAS#75343	DCE (ug/L) CAS#75354	TCE (ug/L) CAS#79016	PCE (ug/L) CAS#127184	VC (ug/L) CAS#75014	Toluene (ug/L) CAS#108883
MW-11 Post Pilot Injection 3	9/30/2003	ND (5)	ND (5)	ND (5)	430	ND (2)	NA
	11/7/2003	ND (5)	ND (5)	ND (5)	180	ND (2)	NA
	4/14/2004	ND (5)	ND (5)	ND (5)	460	ND (2)	NA
	6/23/2004	ND (5)	ND (5)	ND (5)	41	ND (2)	NA
	10/20/2004	ND (5)	ND (5)	ND (5)	57	ND (2)	NA
	6/15/2005	ND (5)	ND (5)	ND (5)	180	ND (2)	NA
	12/19/2006	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	4/10/2007	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	6/27/2007	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
MW-12 Post Pilot Injection 4	6/23/2004	ND (5)	ND (5)	ND (5)	19	ND (2)	NA
	10/20/2004	ND (5)	ND (5)	ND (5)	17	ND (2)	NA
	6/15/2005	ND (5)	ND (5)	ND (5)	13	ND (2)	NA
	12/19/2006	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	4/10/2007	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	6/27/2007	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
MW-13 Post Full Scale Injection	8/19/2005	ND (5)	ND (5)	ND (5)	11	ND (2)	ND (5)
	12/20/2006	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	4/10/2007	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	6/27/2007	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
MW-14 Post Full Scale Injection	8/19/2005	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	ND (5)
	12/20/2006	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
MW-15	8/19/2005	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	ND (5)
MW-16 Post Full Scale Injection	8/19/2005	ND (5)	ND (5)	ND (5)	6.3	ND (2)	6.3
	12/19/2006	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	4/10/2007	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
MW-17D Post Full Scale Injection	8/19/2005	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	5.2
	12/19/2006	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	6/27/2007	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
Type 1/3 RRS		4,000	7	5	5	2	1,000

Notes:

DCA = 1,1-dichloroethane

DCE = 1,1-dichloroethene (total)

TCE = trichloroethene

PCE = tetrachloroethene

VC = vinyl chloride

ND = Not Detected @ (Reported Detection Limit)

Type 1/3 RRS = Groundwater Criteria (Appendix III Table 1)

MW-10 12/19/06 sample had a suspect detection of methylene chloride (5.6 ug/L).

TABLE

SELECT METALS AND IONS GROUNDWATER RESULTS
 BIRDSONG PEANUT
 FARMER'S FEED AND MILLING
 COLQUITT, GEORGIA

Sample Location	Sample Date	Calcium	Iron	Manganese	Potassium	Sodium	Chloride	Sulfate
MW-5	4/10/2007	89.4	0.274	0.41	6.19	23.9	6.1	44
	6/27/2007	459	24.3	2320	2340	16.9	BLR	BLR
MW-6	4/10/2007	177	0.188	68.7	89.5	9.19	160	BRL
	6/27/2007	101	BLR	37.5	69.2	6.68	75	21
MW-7D	6/27/2007 & Duplicate	52.5	BLR	5.80	6.67	2.34	6.5	2.2
		54.3	BLR	5.79	6.87	2.46	7	2.4
MW-10	4/10/2007	157	1.91	323	1070	43.8	840	940
	6/27/2007	196	15.6	218	1280	39.6	670	750
MW-11	4/10/2007	72.4	0.778	17.5	104	9.7	150	230
	6/27/2007	74.1	12.1	17.8	120	8.45	110	160
MW-12	4/10/2007	56.1	BRL	2.73	17.4	3.32	BRL	BRL
	6/27/2007	55.2	1.92	3.55	15.4	3.13	27	30
MW-13	4/10/2007	14.1	0.448	5.22	42.4	5.31	24	44
	6/27/2007	7.53	30.8	2.14	37.8	4.47	37	47
MW-16	4/10/2007	22.7	BRL	0.195	18.9	1.91	13	12
MW17-D	6/27/2007	92.2	0.965	1.26	55.4	6.02	71	47

Notes:

BRL = Below Reporting Limit
 All units are represented in mg/L

TABLE 1

Page 1 of 1

COMPARISON OF RCRA METALS IN GROUNDWATER
 BIRDSONG PEANUT
 FARMER'S FEED AND MILLING
 COLQUITT, GEORGIA

Sample Location	Sample Type	Arsenic	Barium	Cadmium	Chromium	Lead	Selenium	Silver
MW-6 6/27/2007	Total (1)	BRL (2)	0.0844	BRL	0.701	BRL	0.0242	BRL
	Dissolved (1)	BRL	0.0621	BRL	0.563	BRL	0.0333	BRL
Type 4 RRS		0.05	7.15	.05	.31/153 (3)	0.015	.51	.51

Notes:

1. All units are represented in mg/L
2. BRL = Below Reporting Limit
3. Type 4 RRS for Chromium VI is 0.31 mg/L and for Chromium III is 153 mg/L

**ANALYTICAL RESULTS SUMMARY
BIRDSONG PEANUT
COLQUITT, GEORGIA
MARCH 2009**

Parameters	Units	Risk Reduction Standards		MW-6	MW-6	MW-10	MW-11	MW-5	
		Location ID:	Type 1	Type 4	GW-030509-DJB-001	GW-030509-DJB-002	GW-030509-DJB-003	GW-030509-DJB-004	GW-030509-DJB-005
		Sample Name:							
		Sample Date:		3/5/2009	3/5/2009	3/5/2009	3/5/2009	3/5/2009	
					Duplicate				
Metals									
Arsenic	mg/L	0.05	0.05	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	
Cadmium	mg/L	0.005	0.051	0.0004 J	0.0007 J	0.0014 J	0.0050 U	0.0050 U	
Chromium Total	mg/L	0.1	0.307	0.298	0.294	0.0760	0.279	0.0057 J	
Lead	mg/L	0.015	0.015	0.0100 U	0.0100 U	0.0077 J	0.0038 J	0.0100 U	
Manganese	mg/L	NV	NV	4.05	4.07	1.31	3.94	0.175 J	
Potassium	mg/L	NV	NV	51.4	53.2	788	129	6.09	
Selenium	mg/L	0.05	0.511	0.0140 J	0.0156 J	0.0586	0.0151 J	0.0200 U	
Silver	mg/L	0.1	0.511	0.0100 U	0.0009 J	0.0100 U	0.0100 U	0.0004 J	
Metals (Dissolved)									
Arsenic (Dissolved)	mg/L	0.05	0.05	0.0500 U	—	0.0500 U	0.0500 U	0.0500 U	
Cadmium (Dissolved)	mg/L	0.005	0.051	0.0050 U	—	0.0011 J	0.0050 U	0.0050 U	
Chromium Total (Dissolved)	mg/L	0.1	0.307	0.298	—	0.0805	0.292	0.0056 J	
Lead (Dissolved)	mg/L	0.015	0.015	0.0100 U	—	0.0031 J	0.0100 U	0.0100 U	
Manganese (Dissolved)	mg/L	NV	NV	3.42	—	0.880	2.22	0.376 J	
Potassium (Dissolved)	mg/L	NV	NV	60.6	—	712	123	8.52	
Selenium (Dissolved)	mg/L	0.05	0.511	0.0200 U	—	0.0527	0.0200 U	0.0200 U	
Silver (Dissolved)	mg/L	0.1	0.511	0.0007 J	—	0.0100 U	0.0100 U	0.0005 J	

Notes:

- Not analyzed.
J Estimated.
U Not detected.
NV No Value

GROUNDWATER ELEVATIONS (MARCH 2010)
ANNUAL GROUNDWATER MONITORING AND SAMPLING
BIRDSONG PEANUT PROPERTY (HSI NO. 10710)
COLQUITT, GEORGIA

Well ID	Date	Top of Casing Elevation (feet AMSL)	Depth to Groundwater (feet below TOC)	Groundwater Elevation (feet AMSL)
MW-4	03/24/2010	92.70	3.95	88.75
MW-5	03/24/2010	95.57	14.48	81.09
MW-6	03/24/2010	94.26	12.98	81.28
MW-7D	03/24/2010	93.75	12.38	81.37
MW-8	03/24/2010	93.57	7.97	85.60
MW-9	03/24/2010	92.85	5.62	87.23
MW-10	03/24/2010	93.41	7.23	86.18
MW-11	03/24/2010	94.44	5.48	88.96
MW-12	03/24/2010	95.46	—	—
MW-13	03/24/2010	93.76	8.32	85.44
MW-14	03/24/2010	96.72	8.52	88.20
MW-15	03/24/2010	93.30	12.35	80.95
MW-16	03/24/2010	96.34	—	—
MW-17D	03/24/2010	93.40	12.09	81.31

Notes:

AMSL- Above Mean Sea Level

TOC- Top of Casing

1. Monitoring wells MW-12 and MW-16 were not found on March 24, 2010.

TABLE 2

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS (MARCH 2010)
ANNUAL GROUNDWATER MONITORING AND SAMPLING
BIRDSONG PEANUT PROPERTY (HSI NO. 10710)
COLQUITT, GEORGIA

		Sample Location:		MW-5	MW-6	MW-6	MW-10	MW-11
		Sample ID:	GW-032410-DJB-001	GW-032410-DJB-004	GW-032410-DJB-005	GW-032410-DJB-002	GW-032410-DJB-003	
		Sample Date:	3/24/2010	3/24/2010	3/24/2010	3/24/2010	3/24/2010	
					Duplicate			
Parameters	Units	Criteria						
		Type 1 RRS a	Type 4 RRS b					
Total Metals								
Arsenic	mg/L	0.01	0.01	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Cadmium	mg/L	0.005	0.0511	0.000126 J	0.000692 J	0.00126	0.00938 ^a	0.00144
Chromium	mg/L	NC	NC	0.0267	0.172	0.172	0.0866	0.266
Copper	mg/L	1.3	4.09	0.000288 J	0.000176 J	0.000229 J	0.00572	0.00908
Lead	mg/L	0.015	0.015	0.001 U	0.001 U	0.00018 J	0.00125	0.00144
Manganese	mg/L	NC	NC	2.23	0.473	0.483	4.01	2.93
Potassium	mg/L	NC	NC	29.6	58.1	65.3	737	140
Selenium	mg/L	0.05	0.511	0.005 U	0.005 U	0.000922 J	0.0592 ^a	0.00658
Silver	mg/L	0.1	0.511	0.001 U	0.000219 J	0.000014 J	0.000729 J	0.000031 J
Dissolved Metals								
Arsenic (dissolved)	mg/L	0.01	0.01	0.00748 J	0.005 U	0.005 U	0.00251 J	0.05 U
Cadmium (dissolved)	mg/L	0.005	0.0511	0.007 U	0.000444 J	0.000391 J	0.00489 J	0.007 U
Chromium Total (dissolved)	mg/L	NC	NC	0.0286 J	0.16	0.165	0.0923	0.217
Copper (dissolved)	mg/L	1.3	4.09	0.02 U	0.002 U	0.002 U	0.02 U	0.02 U
Lead (dissolved)	mg/L	0.015	0.015	0.01 U	0.001 U	0.001 U	0.01 U	0.01 U
Manganese (dissolved)	mg/L	NC	NC	1.46	0.526	0.522	1.34	0.346
Potassium (dissolved)	mg/L	NC	NC	27.4	56.7	55.7	702	127
Selenium (dissolved)	mg/L	0.05	0.511	0.05 U	0.005 U	0.005 U	0.0673 ^a	0.05 U
Silver (dissolved)	mg/L	0.1	0.511	0.01 U	0.001 U	0.001 U	0.01 U	0.01 U
Speciated Chromium								
Chromium III (trivalent)	mg/L	0.01	153	0.0100 U	0.0100 U	0.0100 U	0.0262	0.0100 U
Chromium III (trivalent) (dissolved)	mg/L	0.01	153	0.00740 J	0.0100 U	0.0100 U	0.0205	0.0222
Chromium VI (hexavalent)	mg/L	0.01	0.0572	0.0246 ^a	0.170 ^{ab}	0.174 ^{ab}	0.0605 ^{ab}	0.265 ^{ab}
Chromium VI (hexavalent) (dissolved)	mg/L	0.01	0.0572	0.0212 ^a	0.172 ^{ab}	0.178 ^{ab}	0.0718 ^{ab}	0.195 ^{ab}

Notes:

J - Estimated concentration.

NC - No criteria.

U - Not present at or above the associated value.

1. Exceedences of Georgia HSRA Type 1 RRS (a) and Type 4 RRS (b) are shaded, bordered and denoted in red, bold font with the appropriate superscript(s).

TABLE 3

Page 1 of 2

SUMMARY OF HISTORICAL GROUNDWATER ANALYTICAL RESULTS
ANNUAL GROUNDWATER MONITORING AND SAMPLING
BIRDSONG PEANUT PROPERTY (HSI NO. 10710)
COLQUITT, GEORGIA

		Sample Location:		MW-5	MW-5	MW-6	MW-6	MW-6
		Sample ID:		GW-030509-DJB-005	GW-032410-DJB-001	GW-030509-DJB-001	GW-030509-DJB-002	GW-032410-DJB-004
		Sample Date:		3/5/2009	3/24/2010	3/5/2009	3/5/2009	3/24/2010
							Duplicate	

Notes:

J - Estimated concentration.

NC - No criteria.

U - Not present at or above the associated value.

1. Exceedences of Georgia HSRA Type 1 RRS (a) and Type 4 RRS (b) are shaded, bordered and denoted in red, bold font with the appropriate superscript.

TABLE 3

SUMMARY OF HISTORICAL GROUNDWATER ANALYTICAL RESULTS
ANNUAL GROUNDWATER MONITORING AND SAMPLING
BIRDSONG PEANUT PROPERTY (HSI NO. 10710)
COLQUITT, GEORGIA

		Sample Location:		MW-6	MW-10	MW-10	MW-11	MW-11
		Sample ID:		GW-032410-DJB-005	GW-030509-DJB-003	GW-032410-DJB-002	GW-030509-DJB-004	GW-032410-DJB-003
		Sample Date:		3/24/2010	3/5/2009	3/24/2010	3/5/2009	3/24/2010
				Duplicate				
		Criteria						
Parameters	Units	Type 1 RRS	Type 4 RRS					
		a	b					
Total Metals								
Arsenic	mg/L	0.01	0.01	0.005 U	0.0500 U	0.005 U	0.0500 U	0.005 U
Cadmium	mg/L	0.005	0.0511	0.00126	0.0014 J	0.00938 ^a	0.0050 U	0.00144
Chromium	mg/L	NC	NC	0.172	0.0760	0.0866	0.279	0.266
Copper	mg/L	1.3	4.09	0.000229 J	-	0.00572	-	0.00908
Lead	mg/L	0.015	0.015	0.00018 J	0.0077 J	0.00125	0.0038 J	0.00144
Manganese	mg/L	NC	NC	0.483	1.31	4.01	3.94	2.93
Potassium	mg/L	NC	NC	65.3	788	737	129	140
Selenium	mg/L	0.05	0.511	0.000922 J	0.0586 ^a	0.0592 ^a	0.0151 J	0.00658
Silver	mg/L	0.1	0.511	0.000014 J	0.0100 U	0.000729 J	0.0100 U	0.000031 J
Dissolved Metals								
Arsenic (dissolved)	mg/L	0.01	0.01	0.005 U	0.0500 U	0.00251 J	0.0500 U	0.05 U
Cadmium (dissolved)	mg/L	0.005	0.0511	0.000391 J	0.0011 J	0.00489 J	0.0050 U	0.007 U
Chromium Total (dissolved)	mg/L	NC	NC	0.165	0.0805	0.0923	0.292	0.217
Copper (dissolved)	mg/L	1.3	4.09	0.002 U	-	0.02 U	-	0.02 U
Lead (dissolved)	mg/L	0.015	0.015	0.001 U	0.0031 J	0.01 U	0.0100 U	0.01 U
Manganese (dissolved)	mg/L	NC	NC	0.522	0.880	1.34	2.22	0.346
Potassium (dissolved)	mg/L	NC	NC	55.7	712	702	123	127
Selenium (dissolved)	mg/L	0.05	0.511	0.005 U	0.0527 ^a	0.0673 ^a	0.0200 U	0.05 U
Silver (dissolved)	mg/L	0.1	0.511	0.001 U	0.0100 U	0.01 U	0.0100 U	0.01 U
Speciated Chromium								
Chromium III (trivalent)	mg/L	0.01	153	0.0100 U	-	0.0262 ^a	-	0.0100 U
Chromium III (trivalent) (dissolved)	mg/L	0.01	153	0.0100 U	-	0.0205 ^a	-	0.0222 ^a
Chromium VI (hexavalent)	mg/L	0.01	0.0572	0.174 ^{ab}	-	0.0605 ^{ab}	-	0.265 ^{ab}
Chromium VI (hexavalent) (dissolved)	mg/L	0.01	0.0572	0.178 ^{ab}	-	0.0718 ^{ab}	-	0.195 ^{ab}

Notes:

J - Estimated concentration.

NC - No criteria.

U - Not present at or above the associated value.

1. Exceedences of Georgia HSRA Type 1 RRS (a) and Type 4 RRS (b) are shaded, bordered and denoted in red, bold font with the appropriate superscript.

TABLE

GROUNDWATER ELEVATIONS (MARCH 2011)
ANNUAL GROUNDWATER MONITORING AND SAMPLING
BIRDSONG PEANUT PROPERTY (HSI NO. 10710)
COLQUITT, GEORGIA

Well ID	Date	Top of Casing Elevation (feet AMSL)	Depth to Groundwater (feet below TOC)	Groundwater Elevation (feet AMSL)
MW-4	03/29/2011	92.70	6.83	85.87
MW-5	03/29/2011	95.57	21.41	74.16
MW-6	03/29/2011	94.26	20.01	74.25
MW-7D	03/29/2011	93.75	19.43	74.32
MW-8	03/29/2011	93.57	19.35	74.22
MW-9	03/29/2011	92.85	9.48	83.37
MW-10	03/29/2011	93.41	12.10	81.31
MW-11	03/29/2011	94.44	9.78	84.66
MW-12	03/29/2011	95.46	—	—
MW-13	03/29/2011	93.76	11.59	82.17
MW-14	03/29/2011	96.72	5.48	91.24
MW-15	03/29/2011	93.30	11.23	82.07
MW-16	03/29/2011	96.34	—	—
MW-17D	03/29/2011	93.40	19.10	74.30

Notes:

AMSL- Above Mean Sea Level

TOC- Top of Casing

Monitoring wells MW-12 and MW-16 not found

MW-5 - monitoring wells sample in March 2011

TABLE

**SUMMARY OF GROUNDWATER ANALYTICAL RESULTS ANNUAL GROUNDWATER MONITORING AND SAMPLING
BIRDSONG PEANUT PROPERTY (HSI NO. 10710)
COLQUITT, GEORGIA**

		<i>Sample Location:</i>		<i>MW-5</i>	<i>MW-5</i>	<i>MW-5</i>	<i>MW-5</i>	<i>MW-6</i>
		<i>Sample ID:</i>		<i>GW-030509-DJB-005</i>	<i>GW-032410-DJB-001</i>	<i>GW-032911-DJB-001</i>	<i>GW-032911-DJB-002</i>	<i>GW-030509-DJB-001</i>
		<i>Sample Date:</i>		<i>3/5/2009</i>	<i>3/24/2010</i>	<i>3/29/2011</i>	<i>3/29/2011</i>	<i>3/5/2009</i>
							<i>Duplicate</i>	
		<i>Criteria</i>						
<i>Parameters</i>	<i>Units</i>	<i>Type 1 RRS</i>	<i>Type 4 RRS</i>					
		<i>a</i>	<i>b</i>					
Total Metals								
Arsenic	mg/L	0.01	0.01	0.0500 U	0.005 U	0.005 U	0.005 U	0.0500 U
Cadmium	mg/L	0.005	0.0511	0.0050 U	0.000126 J	0.0007 U	0.0007 U	0.0004 J
Chromium	mg/L	0.1	NC	0.0057 J	0.0267	0.005 U	0.005 U	0.298
Copper	mg/L	1.3	4.09	-	0.000288 J	0.002 U	0.002 U	-
Lead	mg/L	0.015	0.015	0.0100 U	0.001 U	0.001 U	0.001 U	0.0100 U
Manganese	mg/L	NC	NC	0.175 J	2.23	0.0502	0.0517	4.05
Potassium	mg/L	NC	NC	6.09	29.6	3.7	3.65	51.4
Selenium	mg/L	0.05	0.511	0.0200 U	0.005 U	0.005 U	0.005 U	0.0140 J
Silver	mg/L	0.1	0.511	0.0004 J	0.001 U	0.001 U	0.001 U	0.0100 U
Dissolved Metals								
Arsenic (dissolved)	mg/L	0.01	0.01	0.0500 U	0.00748 J	0.005 U	0.005 U	0.0500 U
Cadmium (dissolved)	mg/L	0.005	0.0511	0.0050 U	0.0007 U	0.0007 U	0.0007 U	0.0050 U
Chromium Total (dissolved)	mg/L	0.1	NC	0.0056 J	0.0286 J	0.005 U	0.005 U	0.298
Copper (dissolved)	mg/L	1.3	4.09	-	0.02 U	0.002 U	0.002 U	-
Lead (dissolved)	mg/L	0.015	0.015	0.0100 U	0.01 U	0.001 U	0.001 U	0.0100 U
Manganese (dissolved)	mg/L	NC	NC	0.376 J	1.46	0.005 U	0.005 U	3.42
Potassium (dissolved)	mg/L	NC	NC	8.52	27.4	3.72	3.57	60.6
Selenium (dissolved)	mg/L	0.05	0.511	0.0200 U	0.05 U	0.005 U	0.005 U	0.0200 U
Silver (dissolved)	mg/L	0.1	0.511	0.0005 J	0.01 U	0.001 U	0.001 U	0.0007 J
Speciated Chromium								
Chromium III (trivalent)	mg/L	0.01	153	-	0.0100 U	0.0100 U	0.0100 U	-
Chromium III (trivalent) (dissolved)	mg/L	0.01	153	-	0.00740 J	0.0100 U	0.0100 U	-
Chromium VI (hexavalent)	mg/L	0.01	0.01	-	0.0246^{ab}	0.0100 U	0.0100 U	-
Chromium VI (hexavalent) (dissolved)	mg/L	0.01	0.01	-	0.0212^{ab}	0.0100 U	0.0100 U	-

Notes:

J - Estimated concentration.

NC - No criteria.

U - Not present at or above the associated value.

1. Exceedences of Georgia HSRA Type 1 RRS (a) and Type 4 RRS (b) are shaded, bordered and denoted in red, bold font with the appropriate superscript.

TABLE

**SUMMARY OF GROUNDWATER ANALYTICAL RESULTS ANNUAL GROUNDWATER MONITORING AND SAMPLING
BIRDSONG PEANUT PROPERTY (HSI NO. 10710)
COLQUITT, GEORGIA**

				Sample Location:	MW-6	MW-6	MW-6	MW-6	MW-10
				Sample ID:	GW-030509-DJB-002	GW-032410-DJB-004	GW-032410-DJB-005	GW-032911-DJB-005	GW-030509-DJB-003
				Sample Date:	3/5/2009	3/24/2010	3/24/2010	3/29/2011	3/5/2009
					Duplicate		Duplicate		
Parameters	Units	Criteria							
		Type 1 RRS	Type 4 RRS						
		a	b						
Total Metals									
Arsenic	mg/L	0.01	0.01	0.0500 U	0.005 U	0.005 U	0.005 U	0.0500 U	
Cadmium	mg/L	0.005	0.0511	0.0007 J	0.000692 J	0.00126	0.00223	0.0014 J	
Chromium	mg/L	0.1	NC	0.294	0.172	0.172	0.217	0.0760	
Copper	mg/L	1.3	4.09	-	0.000176 J	0.000229 J	0.002 U	-	
Lead	mg/L	0.015	0.015	0.0100 U	0.001 U	0.00018 J	0.001 U	0.0077 J	
Manganese	mg/L	NC	NC	4.07	0.473	0.483	0.0718	1.31	
Potassium	mg/L	NC	NC	53.2	58.1	65.3	70.6	788	
Selenium	mg/L	0.05	0.511	0.0156 J	0.005 U	0.000922 J	0.005 U	0.0586 ^a	
Silver	mg/L	0.1	0.511	0.0009 J	0.000219 J	0.000014 J	0.001 U	0.0100 U	
Dissolved Metals									
Arsenic (dissolved)	mg/L	0.01	0.01	-	0.005 U	0.005 U	0.005 U	0.0500 U	
Cadmium (dissolved)	mg/L	0.005	0.0511	-	0.000444 J	0.000391 J	0.00133	0.0011 J	
Chromium Total (dissolved)	mg/L	0.1	NC	-	0.16	0.165	0.209	0.0805	
Copper (dissolved)	mg/L	1.3	4.09	-	0.002 U	0.002 U	0.00504	-	
Lead (dissolved)	mg/L	0.015	0.015	-	0.001 U	0.001 U	0.001 U	0.0031 J	
Manganese (dissolved)	mg/L	NC	NC	-	0.526	0.522	0.0213	0.880	
Potassium (dissolved)	mg/L	NC	NC	-	56.7	55.7	64.8	712	
Selenium (dissolved)	mg/L	0.05	0.511	-	0.005 U	0.005 U	0.005 U	0.0527 ^a	
Silver (dissolved)	mg/L	0.1	0.511	-	0.001 U	0.001 U	0.001 U	0.0100 U	
Speciated Chromium									
Chromium III (trivalent)	mg/L	0.01	153	-	0.0100 U	0.0100 U	0.0248 ^a	-	
Chromium III (trivalent) (dissolved)	mg/L	0.01	153	-	0.0100 U	0.0100 U	0.0178 ^a	-	
Chromium VI (hexavalent)	mg/L	0.01	0.01	-	0.170 ^{ab}	0.174 ^{ab}	0.192 ^{ab}	-	
Chromium VI (hexavalent) (dissolved)	mg/L	0.01	0.01	-	0.172 ^{ab}	0.178 ^{ab}	0.191 ^{ab}	-	

Notes:

J - Estimated concentration.

NC - No criteria.

U - Not present at or above the associated value.

1. Exceedences of Georgia HSRA Type 1 RRS (a) and Type 4 RRS (b) are shaded, bordered and denoted in red, bold font with the appropriate superscript.

TABLE

**SUMMARY OF GROUNDWATER ANALYTICAL RESULTS ANNUAL GROUNDWATER MONITORING AND SAMPLING
BIRDSONG PEANUT PROPERTY (HSI NO. 10710)
COLQUITT, GEORGIA**

				Sample Location: MW-10	MW-10	MW-11	MW-11	MW-11
				Sample ID: GW-032410-DJB-002	GW-032911-DJB-003	GW-030509-DJB-004	GW-032410-DJB-003	GW-032911-DJB-004
				Sample Date: 3/24/2010	3/29/2011	3/5/2009	3/24/2010	3/29/2011
Parameters	Units	Criteria						
		Type 1 RRS a	Type 4 RRS b					
Total Metals								
Arsenic	mg/L	0.01	0.01	0.005 U	0.005 U	0.0500 U	0.005 U	0.005 U
Cadmium	mg/L	0.005	0.0511	0.00938 ^a	0.00387	0.0050 U	0.00144	0.00366
Chromium	mg/L	0.1	NC	0.0866	0.113	0.279	0.266	0.163
Copper	mg/L	1.3	4.09	0.00572	0.00701	-	0.00908	0.00303
Lead	mg/L	0.015	0.015	0.00125	0.001 U	0.0038 J	0.00144	0.001 U
Manganese	mg/L	NC	NC	4.01	4.78	3.94	2.93	0.564
Potassium	mg/L	NC	NC	737	638	129	140	151
Selenium	mg/L	0.05	0.511	0.0592 ^a	0.0441	0.0151 J	0.00658	0.005 U
Silver	mg/L	0.1	0.511	0.000729 J	0.001 U	0.0100 U	0.000031 J	0.001 U
Dissolved Metals								
Arsenic (dissolved)	mg/L	0.01	0.01	0.00251 J	0.005 U	0.0500 U	0.05 U	0.005 U
Cadmium (dissolved)	mg/L	0.005	0.0511	0.00489 J	0.00361	0.0050 U	0.007 U	0.00148
Chromium Total (dissolved)	mg/L	0.1	NC	0.0923	0.102	0.292	0.217	0.179
Copper (dissolved)	mg/L	1.3	4.09	0.02 U	0.00827	-	0.02 U	0.00697
Lead (dissolved)	mg/L	0.015	0.015	0.01 U	0.001 U	0.0100 U	0.01 U	0.001 U
Manganese (dissolved)	mg/L	NC	NC	1.34	5.19	2.22	0.346	0.591
Potassium (dissolved)	mg/L	NC	NC	702	559	123	127	115
Selenium (dissolved)	mg/L	0.05	0.511	0.0673 ^a	0.0433	0.0200 U	0.05 U	0.005 U
Silver (dissolved)	mg/L	0.1	0.511	0.01 U	0.001 U	0.0100 U	0.01 U	0.001 U
Speciated Chromium								
Chromium III (trivalent)	mg/L	0.01	153	0.0262 ^a	0.0218 ^a	-	0.0100 U	0.0105 ^a
Chromium III (trivalent) (dissolved)	mg/L	0.01	153	0.0205 ^a	0.0145 ^a	-	0.0222 ^a	0.0276 ^a
Chromium VI (hexavalent)	mg/L	0.01	0.01	0.0605 ^{ab}	0.0909 ^{ab}	-	0.265 ^{ab}	0.152 ^{ab}
Chromium VI (hexavalent) (dissolved)	mg/L	0.01	0.01	0.0718 ^{ab}	0.0874 ^{ab}	-	0.195 ^{ab}	0.151 ^{ab}

Notes:

J - Estimated concentration.

NC - No criteria.

U - Not present at or above the associated value.

1. Exceedences of Georgia HSRA Type 1 RRS (a) and Type 4 RRS (b) are shaded, bordered and denoted in red, bold font with the appropriate superscript.

TABLE
PRE- AND POST-INJECTION PERFORMANCE MONITORING
ANALYTICAL RESULTS SUMMARY - OCTOBER - DECEMBER 2011
BIRDSONG PEANUT PROPERTY
COLQUITT, GEORGIA

Location ID:				MW-6	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6	MW-7D	MW-7D	MW-7D	
Sample Name:				GW-100511-SAG-005	GW-100511-SAG-006	GW-112911-SAG-001	GW-122911-SAG-001	GW-122911-SAG-002	GW-031312-DJB-004	GW-031312-DJB-005	GW-100511-SAG-004	GW-112911-SAG-002	GW-122911-SAG-003	
Sample Date:				10/5/2011	10/5/2011	11/29/11	12/29/2011	12/29/2011	3/13/2012	3/13/2012	10/5/2011	11/29/11	12/29/2011	
Parameters		Georgia HSRA RRS		Duplicate										
		Units	Type 1											Type 4
			a	b										
Metals(Total)														
Chromium	mg/L	0.1	NC	0.191 ^a	0.193 ^a	0.199 ^a	0.11 ^a	0.111 ^a	0.189 ^a	0.192 ^a	0.00658	0.005 U	0.005 U	
Chromium III (trivalent)	mg/L	0.01	153.3	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	
Chromium VI (hexavalent)	mg/L	0.01	0.01	0.193 ^{ab}	0.199 ^{ab}	0.125 ^{ab}	0.110 ^{ab}	0.113 ^{ab}	0.193 ^{ab}	0.202 ^{ab}	0.0100 U	0.0100 U	0.0100 U	
Metals (Dissolved)														
Chromium (dissolved)	mg/L	0.1	NC	0.19 ^a	0.192 ^a	0.117 ^a	0.11 ^a	0.117 ^a	0.186 ^a	0.186 ^a	0.00642	0.005 U	0.005 U	
Chromium III (trivalent) (dissolved)	mg/L	0.01	153.3	0.0100 U	0.0100 U	0.0100 U	0.0100 U	-	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	
Chromium VI (hexavalent) (dissolved)	mg/L	0.01	0.01	0.192 ^{ab}	0.194 ^{ab}	0.126 ^{ab}	0.104 ^{ab}	-	0.193 ^{ab}	0.199 ^{ab}	0.0100 U	0.0100 U	0.0100 U	
Residual KMNO3	mg/L	NC	NC	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)			ND (0.25)	ND (0.25)	ND (0.25)	

Notes:

Injection started on October 26 and completed on November 18, 2011.

0.5% concentrated sodium thiosulfate and ferrous sulfate solution was injected in 56 DPT points

mg/L - milligram per liter

U - Non-detect at the associated value.

NC - No established Criteria

0.193^a - exceeds Type 1 Risk Reduction Standard (RRS)

0.193^{ab} - exceeds Type 4 Risk Reduction Standard (RRS)

TABLE
PRE- AND POST-INJECTION PERFORMANCE MONITORING
ANALYTICAL RESULTS SUMMARY - OCTOBER - DECEMBER 2011
BIRDSONG PEANUT PROPERTY
COLQUITT, GEORGIA

Location ID:				MW-10	MW-10	MW-10	MW-10	MW-11	MW-11	MW-11	MW-11	MW-17D	MW-17D	MW-17D	MW-17D
Sample Name:				GW-100511-SAG-001	GW-112911-SAG-003	GW-122911-SAG-004	GW-031312-DJB-001	GW-100511-SAG-003	GW-112911-SAG-006	GW-122911-SAG-006	GW-031312-DJB-002	GW-100511-SAG-002	GW-112911-SAG-004	GW-112911-SAG-005	GW-122911-SAG-005
Sample Date:				10/5/2011	11/29/11	12/29/2011	3/13/2012	10/5/2011	11/29/11	12/29/2011	3/13/2012	10/5/2011	11/29/11	11/29/11	12/29/2011
Parameters	Units	Georgia HSRA RRS													
		Type 1	Type 4												
		a	b												
Metals(Total)															
Chromium	mg/L	0.1	NC	0.118 ^a	0.099	0.0884	0.0928	0.199 ^a	0.211 ^a	0.204 ^a	0.207 ^a	0.005 U	0.005 U	0.005 U	0.005 U
Chromium III (trivalent)	mg/L	0.01	153.3	0.0162 ^a	0.0100 U	0.0184 ^a	0.0128 ^a	0.0100 U	0.0433 ^a	0.0100 U	0.0433 ^a	0.0100 U	0.0100 U	0.0100 U	0.0100 U
Chromium VI (hexavalent)	mg/L	0.01	0.01	0.102 ^{ab}	0.0943 ^{ab}	0.0700 ^{ab}	0.080 ^{ab}	0.215 ^{ab}	0.168 ^{ab}	0.240 ^{ab}	0.163 J ^{ab}	0.0100 U	0.0100 U	0.0100 U	0.0100 U
Metals (Dissolved)															
Chromium (dissolved)	mg/L	0.1	NC	0.0988	0.0875	0.0792	0.0891	0.174 ^a	0.194 ^a	0.187 ^a	0.146 ^a	0.005 U	0.005 U	0.005 U	0.005 U
Chromium III (trivalent) (dissolved)	mg/L	0.01	153.3	0.0140 ^a	0.0100 U	0.0180 ^a	0.0100 U	0.0100 U	0.0259 ^a	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U
Chromium VI (hexavalent) (dissolved)	mg/L	0.01	0.01	0.0848 ^{ab}	0.0932 ^{ab}	0.0612 ^{ab}	0.080 ^{ab}	0.184 ^{ab}	0.168 ^{ab}	0.178 ^{ab}	0.217 J ^{ab}	0.0100 U	0.0100 U	0.0100 U	0.0100 U
Residual KMNO3	mg/L	NC	NC	ND (0.25)	ND (0.25)	ND (0.25)		ND (0.25)	ND (0.25)	ND (0.25)		ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)

Notes:

Injection started on October 26 and completed on November 18, 2011.

0.5% concentrated sodium thiosulfate and ferrous sulfate solution was injected i

mg/L - milligram per liter

U - Non-detect at the associated value.

NC - No established Criteria

0.193^a - exceeds Type 1 Risk Reduction Standard (RRS)

0.193^b - exceeds Type 4 Risk Reduction Standard (RRS)

GROUNDWATER ELEVATIONS (MARCH 2012)
ANNUAL GROUNDWATER MONITORING AND SAMPLING
BIRDSONG PEANUT PROPERTY (HSI NO. 10710)
COLQUITT, GEORGIA

Well ID	Date	Top of Casing Elevation (feet AMSL)	Depth to Groundwater (feet below TOC)	Groundwater Elevation (feet AMSL)
MW-4	03/13/2012	92.70		92.70
MW-5	03/13/2012	95.57	18.57	77.00
MW-6	03/13/2012	94.26	16.97	77.29
MW-7D	03/13/2012	93.75	16.50	77.25
MW-8	03/13/2012	93.57	16.39	77.18
MW-9	03/13/2012	92.85	7.52	85.33
MW-10	03/13/2012	93.41	7.48	85.93
MW-11	03/13/2012	94.44	5.82	88.62
MW-12	03/13/2012	95.46	covered	—
MW-13	03/13/2012	93.76	8.47	85.29
MW-14	03/13/2012	96.72	6.22	90.50
MW-15	03/13/2012	93.30	7.75	85.55
MW-16	03/13/2012	96.34	covered	—
MW-17D	03/13/2012	93.40	16.18	77.22

Notes:

AMSL- Above Mean Sea Level

TOC- Top of Casing

Monitoring wells MW-12 and MW-16 not found

TABLE

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS (MARCH 2012)
ANNUAL GROUNDWATER MONITORING AND SAMPLING
BIRDSONG PEANUT PROPERTY (HSI NO. 10710)
COLQUITT, GEORGIA

Sample Location:				MW-5	MW-6	MW-6	MW-10	MW-11
Sample ID:				GW-031312-DJB-003	GW-031312-DJB-004	GW-031312-DJB-005	GW-031312-DJB-001	GW-031312-DJB-002
Sample Date:				3/13/2012	3/13/2012	3/13/2012	3/13/2012	3/13/2012
				Duplicate				
Parameters	Units	Criteria						
		Type 1 RRS	Type 4 RRS					
		a	b					
Total Metals								
Arsenic	mg/L	0.01	0.01	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Cadmium	mg/L	0.005	0.0511	0.0007 U	0.00951 ^a	0.00964 ^a	0.00405	0.00112
Chromium	mg/L	0.1	NC	0.005 U	0.189 ^a	0.192 ^a	0.0928	0.207 ^a
Copper	mg/L	1.3	4.09	0.002 U	0.00252	0.00265	0.0266	0.0053
Lead	mg/L	0.015	0.015	0.001 U	0.001 U	0.001 U	0.00118	0.00127
Manganese	mg/L	NC	NC	0.0408	0.212	0.216	14.5	0.685 J
Potassium	mg/L	NC	NC	1.22	56.5	57.7	475	121
Selenium	mg/L	0.05	0.511	0.005 U	0.005 U	0.005 U	0.0457	0.005 U
Silver	mg/L	0.1	0.511	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Dissolved Metals								
Arsenic (dissolved)	mg/L	0.01	0.01	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Cadmium (dissolved)	mg/L	0.005	0.0511	0.0007 U	0.00889 ^a	0.00862 ^a	0.00384	0.00102
Chromium Total (dissolved)	mg/L	0.1	NC	0.005 U	0.186 ^a	0.186 ^a	0.0891	0.144 ^a
Copper (dissolved)	mg/L	1.3	4.09	0.002 U	0.00203	0.002 U	0.023	0.00304
Lead (dissolved)	mg/L	0.015	0.015	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Manganese (dissolved)	mg/L	NC	NC	0.017	0.198	0.194	15	1.43 J
Potassium (dissolved)	mg/L	NC	NC	1.29	55.3	55.1	487	108
Selenium (dissolved)	mg/L	0.05	0.511	0.005 U	0.005 U	0.005 U	0.0389	0.005 U
Silver (dissolved)	mg/L	0.1	0.511	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Speciated Chromium								
Chromium III (trivalent)	mg/L	0.01	153	0.0100 U	0.0100 U	0.0100 U	0.0128 ^a	0.0433 ^a
Chromium III (trivalent) (dissolved)	mg/L	0.01	153	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U
Chromium VI (hexavalent)	mg/L	0.01	0.01	0.0100 U	0.193 ^{ab}	0.202 ^{ab}	0.0800 ^{ab}	0.163 J ^{ab}
Chromium VI (hexavalent) (dissolved)	mg/L	0.01	0.01	0.0100 U	0.193 ^{ab}	0.199 ^{ab}	0.0800 ^{ab}	0.217 J ^{ab}

Notes:

J - Estimated concentration.

NC - No criteria.

U - Not present at or above the associated value.

1. Exceedences of Georgia HSRA Type 1 RRS (a) and Type 4 RRS (b) are shaded, bordered and denoted in red, bold font with the appropriate superscript(s).

018283-TBL3

Conestoga-Rovers & Associates: Status Update- Pilot
Injection and Performance Monitoring; and Annual
Groundwater Monitoring and Reporting

Report Date: 06-27-2012

TABLE

SUMMARY OF HISTORICAL GROUNDWATER ANALYTICAL RESULTS
ANNUAL GROUNDWATER MONITORING AND SAMPLING
BIRDSONG PEANUT PROPERTY (HSI NO. 10710)
COLQUITT, GEORGIA

Sample Location:				MW-5	MW-5	MW-5	MW-5	MW-5	MW-6	MW-6
Sample ID:				GW-030509-DJB-005	GW-032410-DJB-001	GW-032911-DJB-001	GW-032911-DJB-002	GW-031312-DJB-003	GW-030509-DJB-001	GW-030509-DJB-002
Sample Date:				3/5/2009	3/24/2010	3/29/2011	3/29/2011 Duplicate	3/13/2012	3/5/2009	3/5/2009 Duplicate
Parameters	Units	Criteria								
		Type 1 RRS a	Type 4 RRS b							
Total Metals										
Arsenic	mg/L	0.01	0.01	0.0500 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0500 U	0.0500 U
Cadmium	mg/L	0.005	0.0511	0.0050 U	0.000126 J	0.0007 U	0.0007 U	0.0007 U	0.0004 J	0.0007 J
Chromium	mg/L	0.1	NC	0.0057 J	0.0267	0.005 U	0.005 U	0.005 U	0.298 ^a	0.294 ^a
Copper	mg/L	1.3	4.09	-	0.000288 J	0.002 U	0.002 U	0.002 U	-	-
Lead	mg/L	0.015	0.015	0.0100 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0100 U	0.0100 U
Manganese	mg/L	NC	NC	0.175 J	2.23	0.0502	0.0517	0.0408	4.05	4.07
Potassium	mg/L	NC	NC	6.09	29.6	3.7	3.65	1.22	51.4	53.2
Selenium	mg/L	0.05	0.511	0.0200 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0140 J	0.0156 J
Silver	mg/L	0.1	0.511	0.0004 J	0.001 U	0.001 U	0.001 U	0.001 U	0.0100 U	0.0009 J
Dissolved Metals										
Arsenic (dissolved)	mg/L	0.01	0.01	0.0500 U	0.00748 J	0.005 U	0.005 U	0.005 U	0.0500 U	-
Cadmium (dissolved)	mg/L	0.005	0.0511	0.0050 U	0.0007 U	0.0007 U	0.0007 U	0.0007 U	0.0050 U	-
Chromium Total (dissolved)	mg/L	0.1	NC	0.0056 J	0.0286 J	0.005 U	0.005 U	0.005 U	0.298 ^a	-
Copper (dissolved)	mg/L	1.3	4.09	-	0.02 U	0.002 U	0.002 U	0.002 U	-	-
Lead (dissolved)	mg/L	0.015	0.015	0.0100 U	0.01 U	0.001 U	0.001 U	0.001 U	0.0100 U	-
Manganese (dissolved)	mg/L	NC	NC	0.376 J	1.46	0.005 U	0.005 U	0.017	3.42	-
Potassium (dissolved)	mg/L	NC	NC	8.52	27.4	3.72	3.57	1.29	60.6	-
Selenium (dissolved)	mg/L	0.05	0.511	0.0200 U	0.05 U	0.005 U	0.005 U	0.005 U	0.0200 U	-
Silver (dissolved)	mg/L	0.1	0.511	0.0005 J	0.01 U	0.001 U	0.001 U	0.001 U	0.0007 J	-
Speciated Chromium										
Chromium III (trivalent)	mg/L	0.01	153	-	0.0100 U	0.0100 U	0.0100 U	0.0100 U	-	-
Chromium III (trivalent) (dissolved)	mg/L	0.01	153	-	0.00740 J	0.0100 U	0.0100 U	0.0100 U	-	-
Chromium VI (hexavalent)	mg/L	0.01	0.01	-	0.0246 ^{ab}	0.0100 U	0.0100 U	0.0100 U	-	-
Chromium VI (hexavalent) (dissolved)	mg/L	0.01	0.01	-	0.0212 ^{ab}	0.0100 U	0.0100 U	0.0100 U	-	-

Notes:

J - Estimated concentration.

NC - No criteria.

U - Not present at or above the associated value.

1. Exceedences of Georgia HSRA Type 1 RRS (a) and Type 4 RRS (b) are shaded, bordered and denoted in red, bold font with the appropriate superscript.

TABLE

SUMMARY OF HISTORICAL GROUNDWATER ANALYTICAL RESULTS
ANNUAL GROUNDWATER MONITORING AND SAMPLING
BIRDSONG PEANUT PROPERTY (HSI NO. 10710)
COLQUITT, GEORGIA

		Sample Location:		MW-6	MW-6	MW-6	MW-6	MW-6	MW-10	MW-10		
		Sample ID:		GW-032410-DJB-004	GW-032410-DJB-005	GW-032911-DJB-005	GW-031312-DJB-004	GW-031312-DJB-005	GW-030509-DJB-003	GW-032410-DJB-002		
		Sample Date:		3/24/2010	3/24/2010 Duplicate	3/29/2011	3/13/2012	3/13/2012 Duplicate	3/5/2009	3/24/2010		
		Criteria										
Parameters	Units	Type 1 RRS a	Type 4 RRS b									
Total Metals												
Arsenic	mg/L	0.01	0.01	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0500 U	0.005 U		
Cadmium	mg/L	0.005	0.0511	0.000692 J	0.00126	0.00223	0.00951 ^a	0.00964 ^a	0.0014 J	0.00938 ^a		
Chromium	mg/L	0.1	NC	0.172 ^a	0.172 ^a	0.217 ^a	0.189 ^a	0.192 ^a	0.0760	0.0866		
Copper	mg/L	1.3	4.09	0.000176 J	0.000229 J	0.002 U	0.00252	0.00265	-	0.00572		
Lead	mg/L	0.015	0.015	0.001 U	0.00018 J	0.001 U	0.001 U	0.001 U	0.0077 J	0.00125		
Manganese	mg/L	NC	NC	0.473	0.483	0.0718	0.212	0.216	1.31	4.01		
Potassium	mg/L	NC	NC	58.1	65.3	70.6	56.5	57.7	788	737		
Selenium	mg/L	0.05	0.511	0.005 U	0.000922 J	0.005 U	0.005 U	0.005 U	0.0586 ^a	0.0592 ^a		
Silver	mg/L	0.1	0.511	0.000219 J	0.000014 J	0.001 U	0.001 U	0.001 U	0.0100 U	0.000729 J		
Dissolved Metals												
Arsenic (dissolved)	mg/L	0.01	0.01	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0500 U	0.00251 J		
Cadmium (dissolved)	mg/L	0.005	0.0511	0.000444 J	0.000391 J	0.00133	0.00889 ^a	0.00862 ^a	0.0011 J	0.00489 J		
Chromium Total (dissolved)	mg/L	0.1	NC	0.16 ^a	0.165 ^a	0.209 ^a	0.186 ^a	0.186 ^a	0.0805	0.0923		
Copper (dissolved)	mg/L	1.3	4.09	0.002 U	0.002 U	0.00504	0.00203	0.002 U	-	0.02 U		
Lead (dissolved)	mg/L	0.015	0.015	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0031 J	0.01 U		
Manganese (dissolved)	mg/L	NC	NC	0.526	0.522	0.0213	0.198	0.194	0.880	1.34		
Potassium (dissolved)	mg/L	NC	NC	56.7	55.7	64.8	55.3	55.1	712	702		
Selenium (dissolved)	mg/L	0.05	0.511	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0527 ^a	0.0673 ^a		
Silver (dissolved)	mg/L	0.1	0.511	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0100 U	0.01 U		
Speciated Chromium												
Chromium III (trivalent)	mg/L	0.01	153	0.0100 U	0.0100 U	0.0248 ^a	0.0100 U	0.0100 U	-	0.0262 ^a		
Chromium III (trivalent) (dissolved)	mg/L	0.01	153	0.0100 U	0.0100 U	0.0178 ^a	0.0100 U	0.0100 U	-	0.0205 ^a		
Chromium VI (hexavalent)	mg/L	0.01	0.01	0.170 ^{ab}	0.174 ^{ab}	0.192 ^{ab}	0.193 ^{ab}	0.202 ^{ab}	-	0.0605 ^{ab}		
Chromium VI (hexavalent) (dissolved)	mg/L	0.01	0.01	0.172 ^{ab}	0.178 ^{ab}	0.191 ^{ab}	0.193 ^{ab}	0.199 ^{ab}	-	0.0718 ^{ab}		

Notes:

J - Estimated concentration.

NC - No criteria.

U - Not present at or above the associated value.

1. Exceedences of Georgia HSRA Type 1 RRS (a) and Type 4 RRS (b) are shaded, bordered and denoted in red, bold font with the appropriate superscript.

TABLE

SUMMARY OF HISTORICAL GROUNDWATER ANALYTICAL RESULTS
ANNUAL GROUNDWATER MONITORING AND SAMPLING
BIRDSONG PEANUT PROPERTY (HSI NO. 10710)
COLQUITT, GEORGIA

		Sample Location:		MW-10	MW-10	MW-11	MW-11	MW-11	MW-11
		Sample ID:		GW-032911-DJB-003	GW-031312-DJB-001	GW-030509-DJB-004	GW-032410-DJB-003	GW-032911-DJB-004	GW-031312-DJB-002
		Sample Date:		3/29/2011	3/13/2012	3/5/2009	3/24/2010	3/29/2011	3/13/2012
Parameters	Units	Criteria							
		Type 1 RRS	Type 4 RRS						
		a	b						
Total Metals									
Arsenic	mg/L	0.01	0.01	0.005 U	0.005 U	0.0500 U	0.005 U	0.005 U	0.005 U
Cadmium	mg/L	0.005	0.0511	0.00387	0.00405	0.0050 U	0.00144	0.00366	0.00112
Chromium	mg/L	0.1	NC	0.113^a	0.0928	0.279^a	0.266^a	0.163^a	0.207^a
Copper	mg/L	1.3	4.09	0.00701	0.0266	-	0.00908	0.00303	0.0053
Lead	mg/L	0.015	0.015	0.001 U	0.00118	0.0038 J	0.00144	0.001 U	0.00127
Manganese	mg/L	NC	NC	4.78	14.5	3.94	2.93	0.564	0.685 J
Potassium	mg/L	NC	NC	638	475	129	140	151	121
Selenium	mg/L	0.05	0.511	0.0441	0.0457	0.0151 J	0.00658	0.005 U	0.005 U
Silver	mg/L	0.1	0.511	0.001 U	0.001 U	0.0100 U	0.000031 J	0.001 U	0.001 U
Dissolved Metals									
Arsenic (dissolved)	mg/L	0.01	0.01	0.005 U	0.005 U	0.0500 U	0.05 U	0.005 U	0.005 U
Cadmium (dissolved)	mg/L	0.005	0.0511	0.00361	0.00384	0.0050 U	0.007 U	0.00148	0.00102
Chromium Total (dissolved)	mg/L	0.1	NC	0.102^a	0.0891	0.292^a	0.217^a	0.179^a	0.146^a
Copper (dissolved)	mg/L	1.3	4.09	0.00827	0.023	-	0.02 U	0.00697	0.00304
Lead (dissolved)	mg/L	0.015	0.015	0.001 U	0.001 U	0.0100 U	0.01 U	0.001 U	0.001 U
Manganese (dissolved)	mg/L	NC	NC	5.19	15	2.22	0.346	0.591	1.43 J
Potassium (dissolved)	mg/L	NC	NC	559	487	123	127	115	108
Selenium (dissolved)	mg/L	0.05	0.511	0.0433	0.0389	0.0200 U	0.05 U	0.005 U	0.005 U
Silver (dissolved)	mg/L	0.1	0.511	0.001 U	0.001 U	0.0100 U	0.01 U	0.001 U	0.001 U
Speciated Chromium									
Chromium III (trivalent)	mg/L	0.01	153	0.0218^a	0.0128^a	-	0.0100 U	0.0105^a	0.0433^a
Chromium III (trivalent) (dissolved)	mg/L	0.01	153	0.0145^a	0.0100 U	-	0.0222^a	0.0276^a	0.0100 U
Chromium VI (hexavalent)	mg/L	0.01	0.01	0.0909^{ab}	0.0800^{ab}	-	0.265^{ab}	0.152^{ab}	0.163 J^{ab}
Chromium VI (hexavalent) (dissolved)	mg/L	0.01	0.01	0.0874^{ab}	0.0800^{ab}	-	0.195^{ab}	0.151^{ab}	0.217 J^{ab}

Notes:

J - Estimated concentration.

NC - No criteria.

U - Not present at or above the associated value.

1. Exceedences of Georgia HSRA Type 1 RRS (a) and Type 4 RRS (b) are shaded, bordered and denoted in red, bold font with the appropriate superscript.

Table 3: Summary of Historical Ground-Water Laboratory Analytical Results – June 2007 to April 2014
(Page 1 of 4)

Parameters	Date	Sample Identification (results in mg/L unless otherwise noted) ¹						GA EPD HSRA ² RRS Type 1 / RRS Type 4
		MW-5	MW-6	MW-7D	MW-10	MW-11 ³	MW-17D	
Chromium	06/27/07	NS	0.701	NS	NS	NS	NS	0.1 / No Type 4 RRS
(total)	03/05/09	0.0057 J	0.298/0.294 D	NS	0.0760	0.279	NS	
	03/24/10	0.0267	0.172/0.172 D	NS	0.0866	0.266	NS	
	03/29/11	0.005 U/D	0.217	NS	0.113	0.163	NS	
	10/05/11	0.005 U	0.191/0.193 D	0.00658	0.118	0.199	0.005 U	
	11/29/11	NS	0.199	0.005 U	0.099	0.211	0.005 U	
	12/29/11	NS	0.11/0.111 D	0.005 U	0.0884	0.204	0.005 U	
	03/13/12	0.005 U	0.189/0.192 D	NS	0.0928	0.207	NS	
	04/16-17/13	NS	NS	NS	NS	NS	NS	
	04/01/14	NS	0.0472	0.0939	0.101	NS	0.0100 U/*D	
Chromium III (+3)	06/27/07	NS	NS	NS	NS	NS	NS	0.01 / <u>153.3</u>
(total)	03/05/09	NS	NS	NS	NS	NS	NS	
	03/24/10	0.0100 U	0.0100 U/D	NS	0.0262	0.0100 U	NS	
	03/29/11	0.0100 U/D	0.248	NS	0.0218	0.0105	NS	
	10/05/11	NS	0.0100 U/D	0.0100 U	0.0162	0.0100 U	0.0100 U	
	11/29/11	NS	0.0100 U	0.0100 U	0.0100 U	0.0433	0.0100 U	
	12/29/11	NS	0.0100 U	0.0100 U	0.0184	0.0100 U	0.0100 U	
	03/13/12	0.0100 U	0.0100 U/D	NS	0.0128	0.0433	NS	
	04/16-17/13	NS	NS	NS	NS	NS	NS	
	04/01/14	NS	0.0113	0.0939	0.0100 U	NS	0.0100 U/*D	

Table 3: Summary of Historical Ground-Water Laboratory Analytical Results – June 2007 to April 2014
(Page 2 of 4)

Parameters	Date	Sample Identification (results in mg/L unless otherwise noted) ¹						GA EPD HSRA ² RRS Type 1 / RRS Type 4
		MW-5	MW-6	MW-7D	MW-10	MW-11 ³	MW-17D	
Chromium VI (+6) (total)	06/27/07	NS	NS	NS	NS	NS	NS	0.01 / 0.01
	03/05/09	NS	NS	NS	NS	NS	NS	
	03/24/10	0.246	0.170/0.174	NS	0.605	0.265	NS	
	03/29/11	0.0100 U/D	0.192	NS	0.0909	0.152	NS	
	10/05/11	NS	0.193/0.199 D	0.0100 U	0.102	0.215	0.0100 U	
	11/29/11	NS	0.125	0.0100 U	0.0943	0.168	0.0100 U	
	12/29/11	NS	0.110/0.113 D	0.0100 U	0.0700	0.240	0.0100 U	
	03/13/12	0.0100 U	0.193/0.202 D	NS	0.0800	0.163 J	NS	
	04/16-17/13	NS	NS	NS	NS	NS	NS	
	04/01/14	NS	0.0359	0.0100 U	0.104	NS	0.0100 U/*D	
Chromium (total dissolved)	06/27/07	NS	NS	NS	NS	NS	NS	0.1 / No Type 4 RRS
	03/05/09	0.0056 J	0.298	NS	NS	0.292	NS	
	03/24/10	0.0286 J	0.16/0.165 D	NS	NS	0.217	NS	
	03/29/11	0.005 U/D	0.209	NS	0.102	0.179	NS	
	10/05/11	NS	0.19/0.192 D	0.00642	0.0988	0.174	0.005 U	
	11/29/11	NS	0.117	0.005 U	0.0875	0.194	0.005 U	
	12/29/11	NS	0.11/0.117	0.005 U	0.0792	0.187	0.005 U	
	03/13/12	0.005 U	0.186/0.186 D	NS	0.0891	0.146	0.005 U	
	04/16-17/13	NS	0.0692	0.005 U	0.114	NS	0.005 U/D	
	04/01/14	NS	NS	NS	NS	NS	NS	

Table 3: Summary of Historical Ground-Water Laboratory Analytical Results – June 2007 to April 2014
(Page 3 of 4)

Parameters	Date	Sample Identification (results in mg/L unless otherwise noted) ¹						GA EPD HSRA ² RRS Type 1 / RRS Type 3
		MW-5	MW-6	MW-7D	MW-10	MW-11 ³	MW-17D	
Chromium III (+3) (dissolved)	06/27/07	NS	NS	NS	NS	NS	NS	0.01 / <u>153.3</u>
	03/05/09	NS	NS	NS	NS	NS	NS	
	03/24/10	0.00740 J	0.0100 U/D	NS	0.0205	0.0222	NS	
	03/29/11	0.0100 U/D	0.0178	NS	0.0145	0.0276	NS	
	10/05/11	NS	0.0100 U/D	0.0100 U	0.0140	0.0100 U	0.0100 U	
	11/29/11	NS	0.0100 U	0.0100 U	0.0100 U	0.0259	0.0100 U	
	12/29/11	NS	0.0100 U	0.0100 U	0.0180	0.0100 U	0.0100 U	
	03/13/12	0.0100 U	0.0100 U/D	NS	0.0100 U	0.0100 U	0.0100 U	
	04/16-17/13	NS	0.0100 U	0.0100 U	0.0100 U	NS	0.0100 U/D	
	04/01/14	NS	NS	NS	NS	NS	NS	
Chromium VI (+6) (dissolved)	06/27/07	NS	NS	NS	NS	NS	NS	0.01 / <u>0.01</u>
	03/05/09	NS	NS	NS	NS	NS	NS	
	03/24/10	0.0212	0.172/0.178	NS	0.0718	0.195	NS	
	03/29/11	0.0100 U/D	0.191	NS	0.0874	0.151	NS	
	10/05/11	NS	0.192/0.194 D	0.0100 U	0.0848	0.184	0.0100 U	
	11/29/11	NS	0.126	0.0100 U	0.0932	0.168	0.0100 U	
	12/29/11	NS	0.104	0.0100 U	0.0612	0.178	0.0100 U	
	03/13/12	0.0100 U	0.193/0.199 D	NS	0.0800	0.217	0.0100 U	
	04/16-17/13	NS	0.0859	0.0010 U	0.126	NS	0.0100 U/D	
	04/01/14	NS	NS	NS	NS	NS	NS	

**Table 3: Summary of Historical Ground-Water Laboratory Analytical Results – June 2007 to April 2014
(Page 4 of 4)**

Notes:

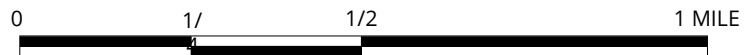
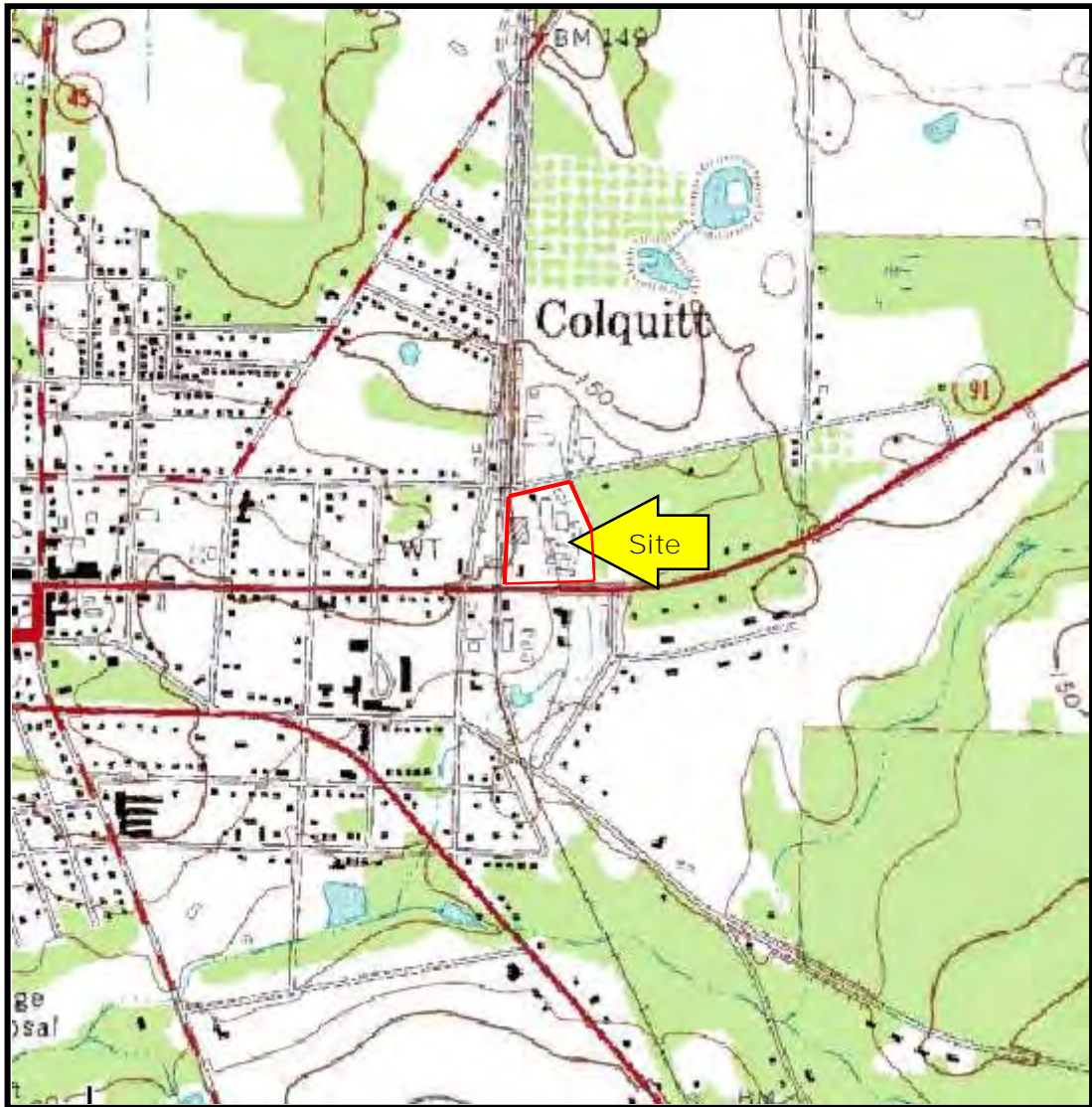
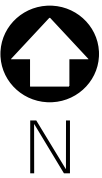
- 1: Groundwater samples were collected by Conestoga-Rovers Associates, Inc. from June 2007 through March 2012. Groundwater samples were collected by BBJ Group from April 2013 to April 2014 and submitted to Analytical Environmental Services, Inc. (AES) of Atlanta, Georgia and shipped to the laboratory for chemical analysis of total and dissolved chromium using USEPA Method 6020A and speciated chromium using USEPA Method 7196. Water quality parameter measurements (i.e., pH, temperature, DO, conductivity, and ORP) were obtained using a YSI 556 water quality meter.
- 2: GA EPD HSRA Type 1 and 4 RRS obtained from the GDNR Chapter 391-3-19-.07 Risk Reduction Standards (Appendix III Media Target Concentrations and Standard Exposure Assumptions). Type I RRS shall pose no significant risk on the basis of standardized exposure assumptions and defined risk level for residential properties. Type 4 RRS shall pose no significant risk on the basis of site-specific risk assessment for non-residential properties.
- 3: Monitoring well MW-11 could not be located during the April 16-17, 2013 or March 31-April 1, 2014 groundwater monitoring events.

Acronym Definitions:


0.126:	Value exceeds the Type 1 RRS.
0.126:	Value exceeds the Type 4 RRS.
U:	not detected at concentrations exceeding the laboratory RLs
HSRA:	Hazardous Site Response Act
USEPA:	United States Environmental Protection Agency
MW:	Monitoring Well
RL:	Reporting Limit (RL)
DO:	Dissolved Oxygen
ORP:	Oxidation-Reduction Potential (millivolts)
mg/L:	milligrams per Liter
GA EPD:	Georgia Environmental Protection Division
NS:	not sampled
RRS:	Risk Reduction Standards
D:	duplicate (sample)
J:	estimated concentration
GDNR:	Georgia Department of Natural Resources

Prepared By/Date: LML / 08.25.15
Checked By/Date: KLM / 08.25.15

FIGURES



LEGEND

 Approximate Subject Property Boundary

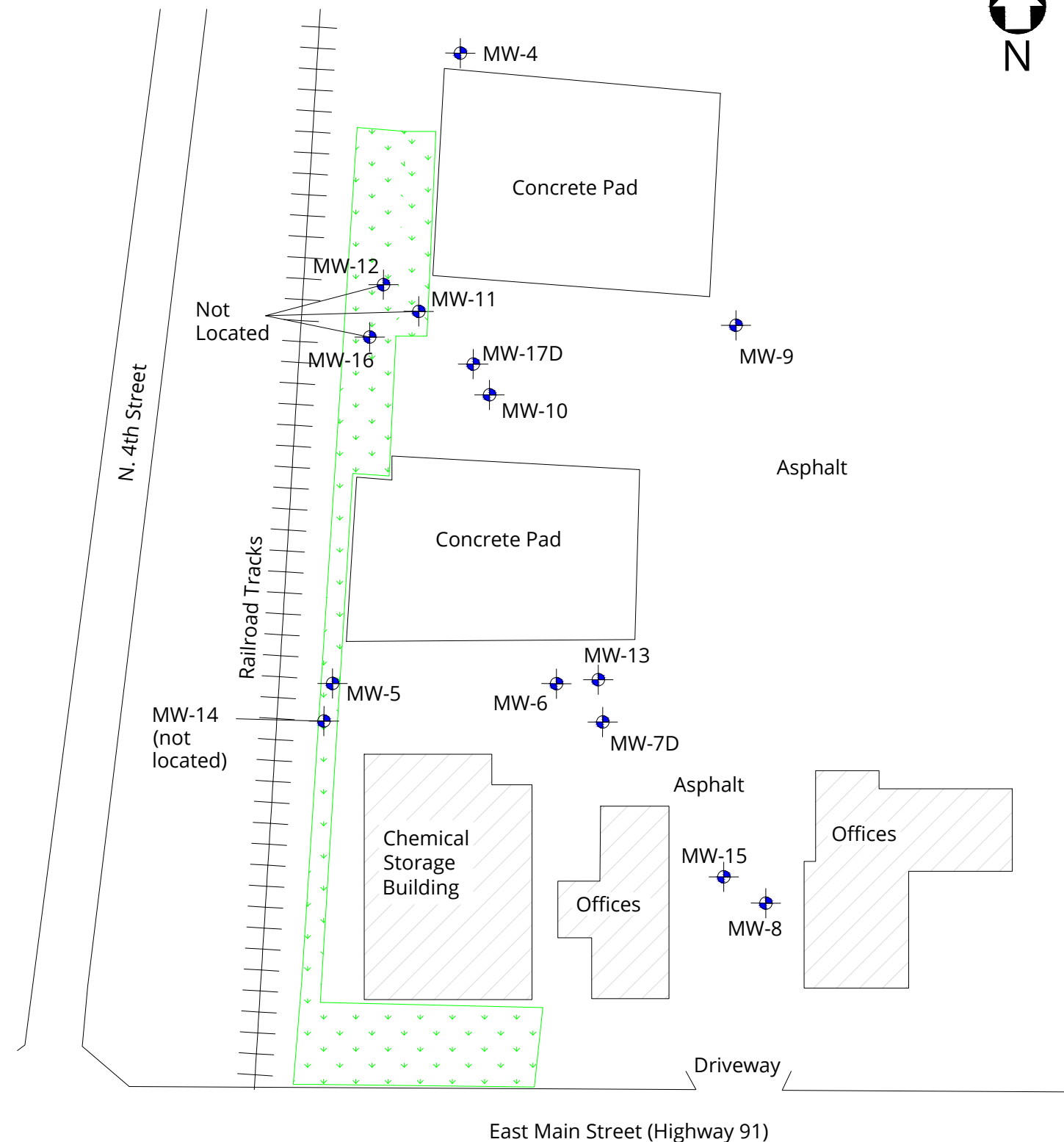
Prepared by/Date: LML / 07.01.15
Checked by/Date: JCT / 07.01.15

Birdsong Peanut Plant
608 East Main Street (Hwy 91)
Colquitt, Georgia



Site Location Map

Project No. R1507990 Figure 1



LEGEND

- MW-6 - shallow monitoring well identification/location
- MW-7D - deep monitoring well identification/location
- grassy area

Note: Monitoring wells MW-11, MW-12 and MW-16 were unable to be located using a metal detector.



Prepared by/Date: LML / 08.24.15
Checked by/Date: JTB / 08.24.15

Birdsong Peanut Plant
608 E Main Street (Hwy 91)
Colquitt, Georgia

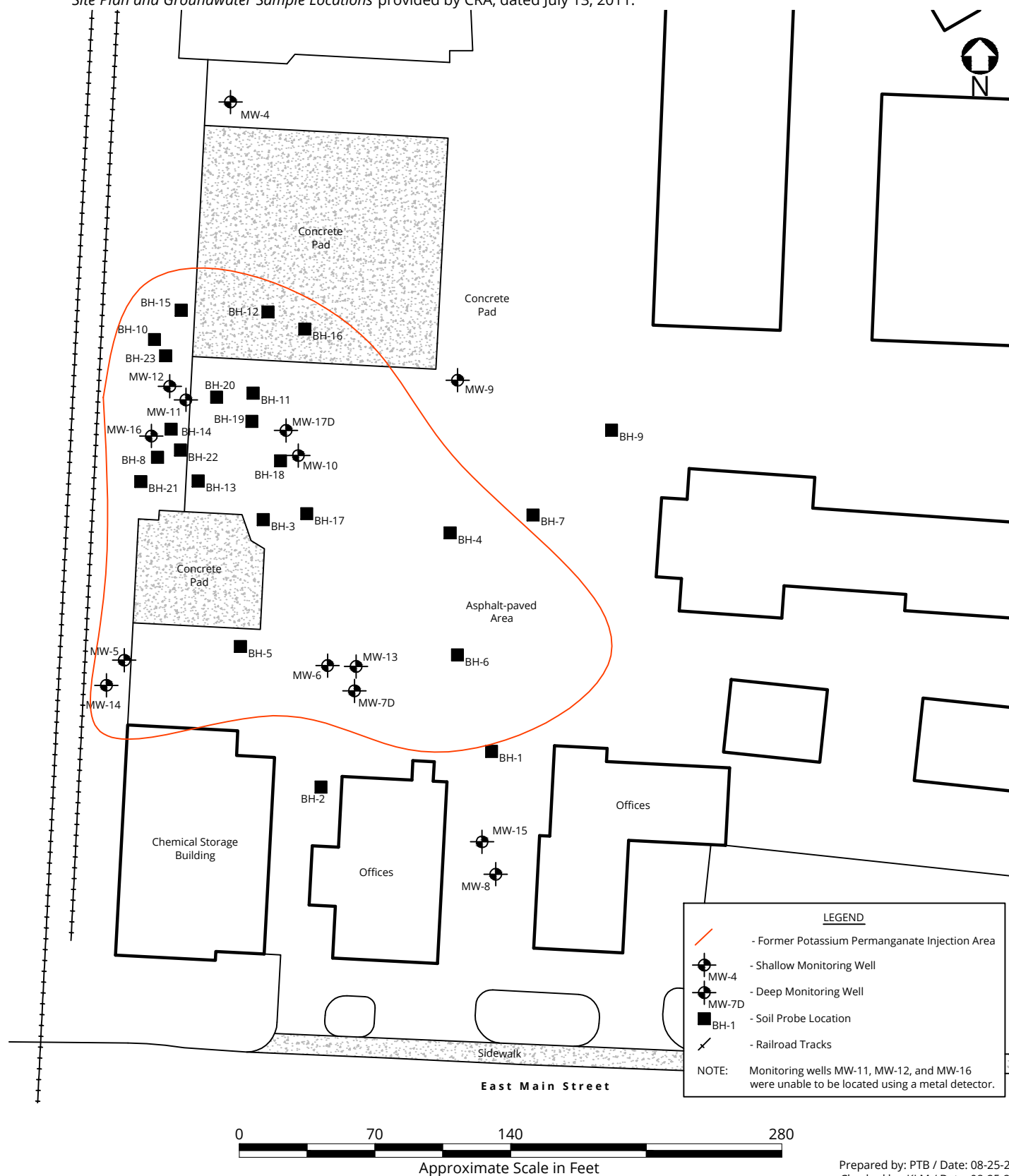


Site Plan

Project No. R1507990

Figure 2

Sources: Site reconnaissance performed by Ms. Tracy Dionne of BBJ Group on March 30 and April 1, 2014.
Aerial photograph reviewed on GoogleEarth, dated November 28, 2014.
Site Plan and Groundwater Sample Locations provided by CRA, dated July 13, 2011.



Birdsong Peanut Plant
608 E Main Street (Hwy 91)
Colquitt, Georgia

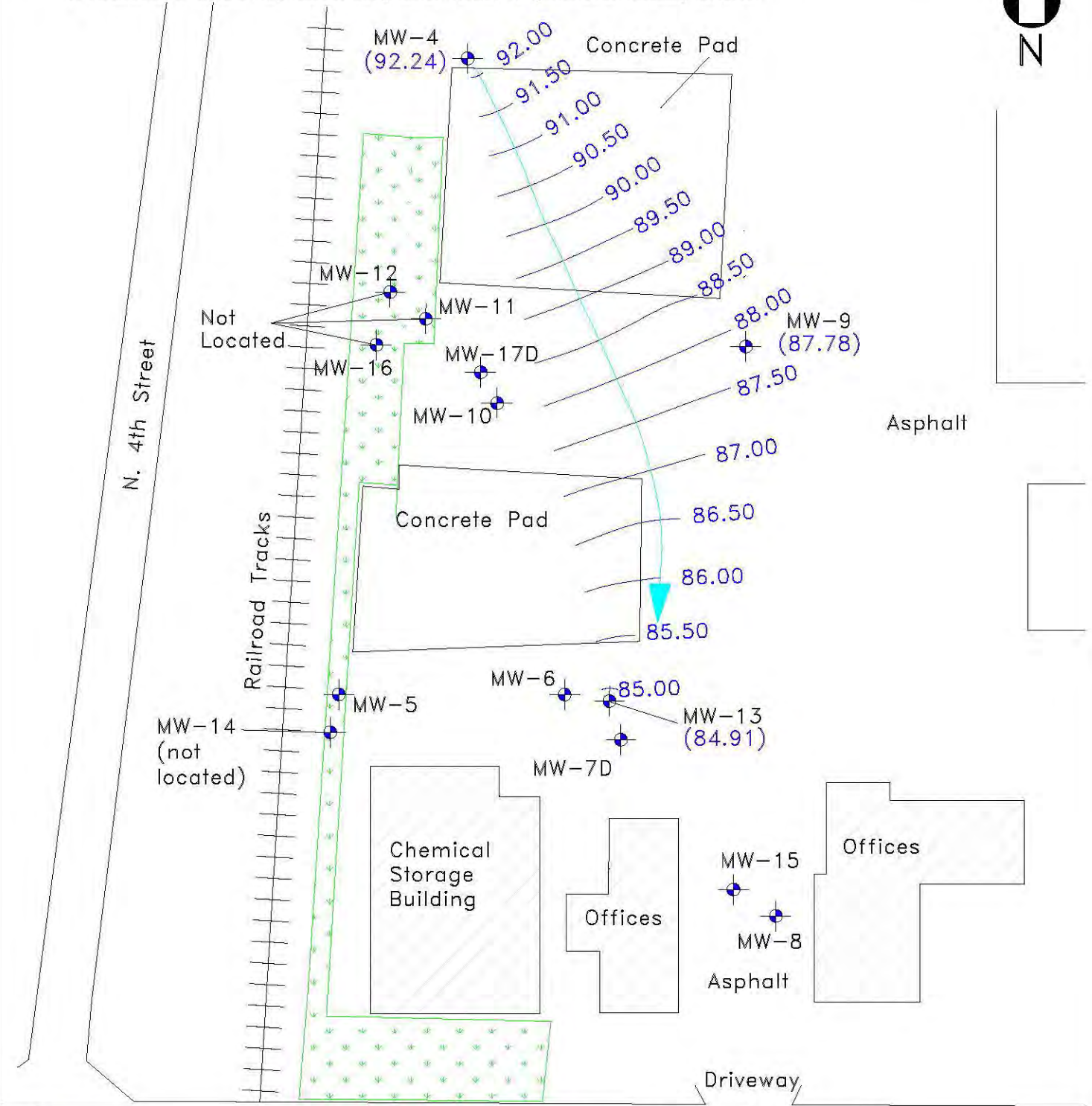


Site Plan with Sample Locations

Project No. R1507990

Figure 3

Sources: 1. Groundwater assessment activities conducted by Ms. Tracy Dionne of BBJ Group, LLC on March 31, 2014.
2. Potentiometric surface map created using Surfer Version 10 groundwater modeling software.



LEGEND

- MW-8 - shallow monitoring well location/identification
- MW-7D - deep monitoring well location/identification
- interpreted groundwater contour
- interpreted direction of groundwater flow
- (87.78) - groundwater elevation
- 84.00 - interpreted groundwater elevation
- grassy area

Note: Data from gauged shallow wells MW-4, MW-9, and MW-13 were used to create map. MW-15 had an anomalously high elevation measurement due to a poor well plug seal which was suspected to have allowed surface water to enter well.

East Main Street (Highway 91)



Prepared by/Date: LML / 08.24.15
Checked by/Date: JTB / 08.24.15

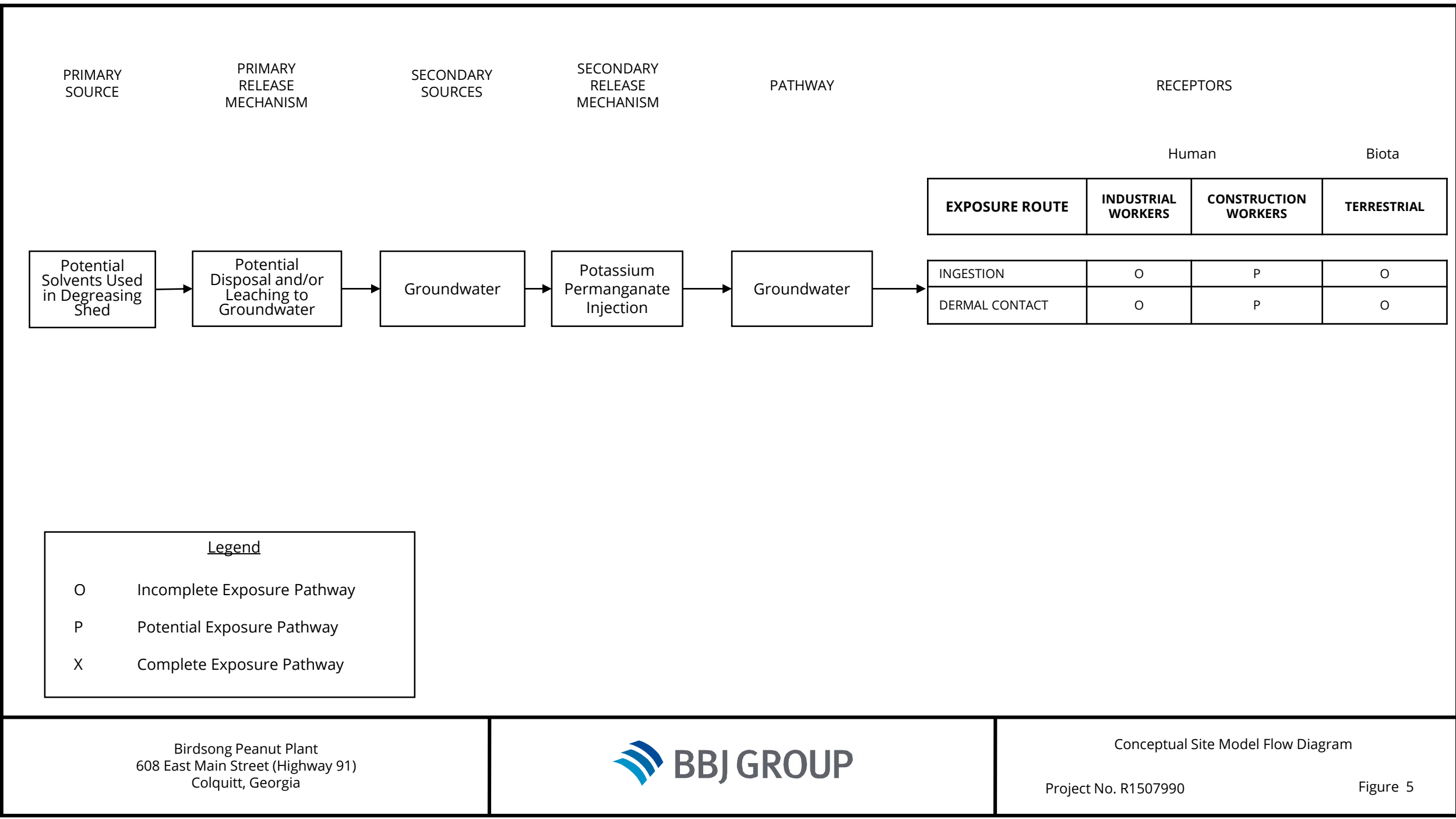
Birdsong Peanut Plant
608 E Main Street (Hwy 91)
Colquitt, Georgia



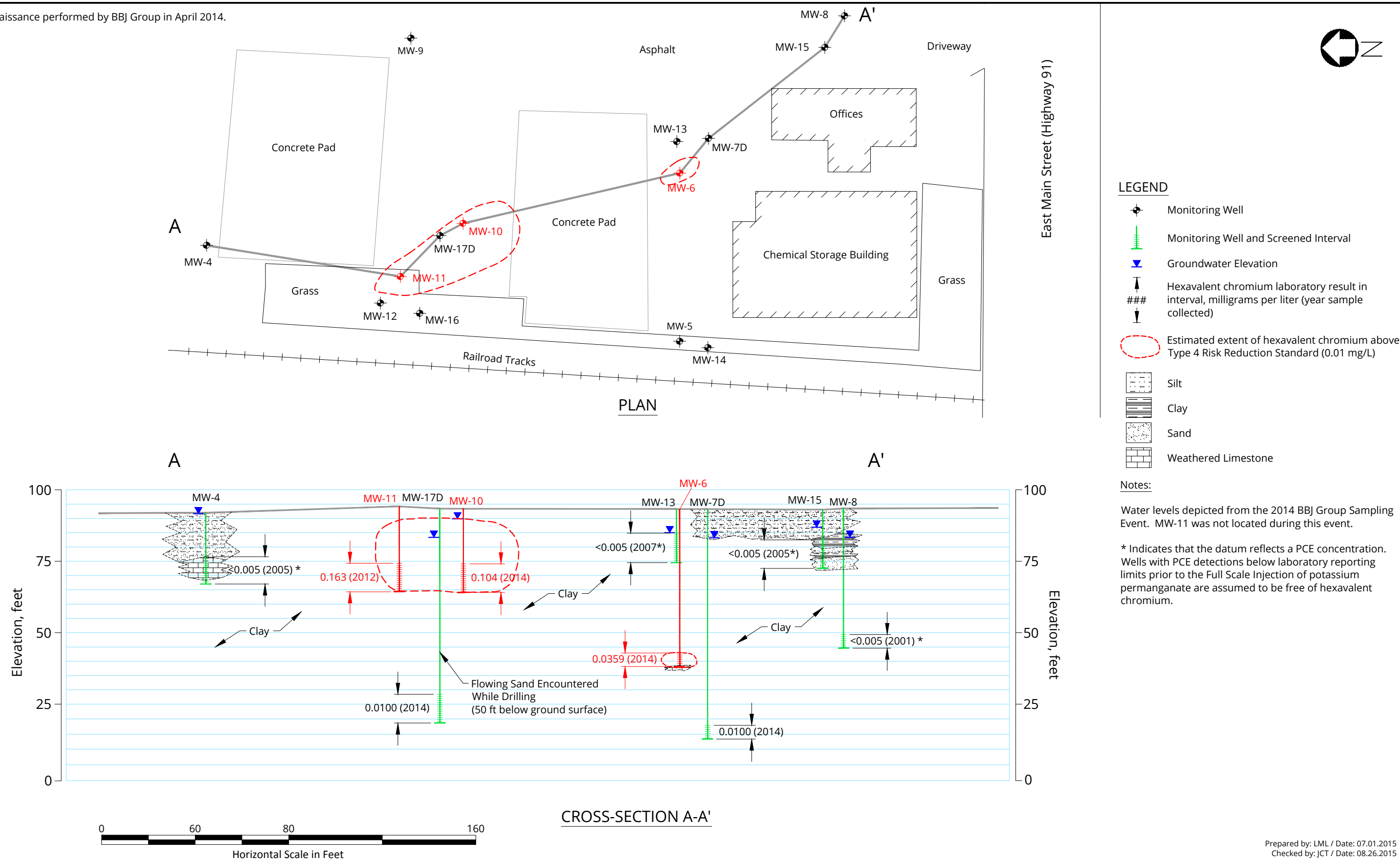
Groundwater Potentiometric Surface Map

Project No. R1507990

Figure 4



Sources: Site reconnaissance performed by BBJ Group in April 2014.



Birdsong Peanut Plant
608 E Main Street (Hwy 91)
Colquitt, Georgia



Project No. R1507990


Cross-Section A-A'

Figure 6

APPENDIX A

VOLUNTARY INVESTIGATION AND REMEDIATION PLAN APPLICATION FORM

Voluntary Investigation and Remediation Plan Application Form and Checklist

VRP APPLICANT INFORMATION					
COMPANY NAME	Man Investment Holdings Inc.				
CONTACT PERSON/TITLE	Solomon Kuckelman, Head of US Legal				
ADDRESS	452 Fifth Avenue, 27 th Floor, New York, NY 10018				
PHONE	(212) 649-6600	FAX	(212) 224-7210	E-MAIL	legalus@maninvestments.com
GEORGIA CERTIFIED PROFESSIONAL GEOLOGIST OR PROFESSIONAL ENGINEER OVERSEEING CLEANUP					
NAME	Tim Bradburne		GA PE/PG NUMBER	698	
COMPANY	BBJ Group, LLC				
ADDRESS	500 N. Dearborn St. Suite 712, Chicago, IL 60654				
PHONE	312-219-7769	FAX	312-644-8555	E-MAIL	tbradburne@bbjgroup.com
APPLICANT'S CERTIFICATION					
<p>In order to be considered a qualifying property for the VRP:</p> <p>(1) The property must have a release of regulated substances into the environment;</p> <p>(2) The property shall not be:</p> <p style="margin-left: 20px;">(A) Listed on the federal National Priorities List pursuant to the federal Comprehensive Environmental Response, Compensation, and Liability Act, 42 U.S.C. Section 9601.</p> <p style="margin-left: 20px;">(B) Currently undergoing response activities required by an order of the regional administrator of the federal Environmental Protection Agency; or</p> <p style="margin-left: 20px;">(C) A facility required to have a permit under Code Section 12-8-66.</p> <p>(3) Qualifying the property under this part would not violate the terms and conditions under which the division operates and administers remedial programs by delegation or similar authorization from the United States Environmental Protection Agency.</p> <p>(4) Any lien filed under subsection (e) of Code Section 12-8-96 or subsection (b) of Code Section 12-13-12 against the property shall be satisfied or settled and released by the director pursuant to Code Section 12-8-94 or Code Section 12-13-6.</p> <p>In order to be considered a participant under the VRP:</p> <p style="margin-left: 20px;">(1) The participant must be the property owner of the voluntary remediation property or have express permission to enter another's property to perform corrective action.</p> <p style="margin-left: 20px;">(2) The participant must not be in violation of any order, judgment, statute, rule, or regulation subject to the enforcement authority of the director.</p> <p>I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.</p> <p>I also certify that this property is eligible for the Voluntary Remediation Program (VRP) as defined in Code Section 12-8-105 and I am eligible as a participant as defined in Code Section 12-8-106.</p>					
APPLICANT'S SIGNATURE					
APPLICANT'S NAME/TITLE (PRINT)	Solomon Kuckelman Secretary			DATE	21 January 2016

QUALIFYING PROPERTY INFORMATION (For additional qualifying properties, please refer to the last page of application form)			
HAZARDOUS SITE INVENTORY INFORMATION (if applicable)			
HSI Number	10710	Date HSI Site listed	December 17, 2001
HSI Facility Name	Birdsong Peanut	NAICS CODE	311911
PROPERTY INFORMATION			
TAX PARCEL ID	C014-027000	PROPERTY SIZE (ACRES)	10.89
PROPERTY ADDRESS	608 East Main Street		
CITY	Colquitt	COUNTY	Miller
STATE	Georgia	ZIPCODE	31737
LATITUDE (decimal format)	31.172947	LONGITUDE (decimal format)	-84.723108
PROPERTY OWNER INFORMATION			
PROPERTY OWNER(S)	Birdsong Peanut	PHONE #	229-758-1110
MAILING ADDRESS	P.O. Box 565		
CITY	Colquitt	STATE/ZIPCODE	Georgia, 31737
ITEM #	DESCRIPTION OF REQUIREMENT	Location in VRP (i.e. pg., Table #, Figure #, etc.)	For EPD Comment Only (Leave Blank)
1.	\$5,000 APPLICATION FEE IN THE FORM OF A CHECK PAYABLE TO THE GEORGIA DEPARTMENT OF NATURAL RESOURCES. (PLEASE LIST CHECK DATE AND CHECK NUMBER IN COLUMN TITLED "LOCATION IN VRP." PLEASE DO NOT INCLUDE A SCANNED COPY OF CHECK IN ELECTRONIC COPY OF APPLICATION.)	Date: Check #:	
2.	WARRANTY DEED(S) FOR QUALIFYING PROPERTY.	Appendix B	
3.	TAX PLAT OR OTHER FIGURE INCLUDING QUALIFYING PROPERTY BOUNDARIES, ABUTTING PROPERTIES, AND TAX PARCEL IDENTIFICATION NUMBER(S).	Appendix C	
4.	ONE (1) PAPER COPY AND TWO (2) COMPACT DISC (CD) COPIES OF THE VOLUNTARY REMEDIATION PLAN IN A SEARCHABLE PORTABLE DOCUMENT FORMAT (PDF).	Included	
5.	The VRP participant's initial plan and application must include, using all reasonably available current information to the extent known at the time of application, a graphic three-dimensional preliminary conceptual site model (CSM) including a preliminary remediation plan with a table of delineation standards, brief supporting text, charts, and figures (no more than 10 pages, total) that illustrates the site's surface and subsurface setting, the known or suspected source(s) of contamination, how contamination might move within the environment, the potential human health and ecological receptors, and the complete or incomplete exposure pathways that may exist at the site; the preliminary CSM must be updated as the investigation and remediation progresses and an up-to-date CSM must be included in each semi-annual status report submitted to the director by the participant; a PROJECTED MILESTONE SCHEDULE for investigation and remediation of the site, and after enrollment as a participant, must update the schedule in each semi-annual status report to the director describing implementation of the plan	CSM – Figures 5 and 6 Delineation Standards – Tables 1 -3 Text, charts, figures – attached Projected Milestone	

	<p>during the preceding period. A Gantt chart format is preferred for the milestone schedule.</p> <p>The following four (4) generic milestones are required in all initial plans with the results reported in the participant's next applicable semi-annual reports to the director. The director may extend the time for or waive these or other milestones in the participant's plan where the director determines, based on a showing by the participant, that a longer time period is reasonably necessary:</p>	Schedule – page 10	
5.a.	Within the first 12 months after enrollment, the participant must complete horizontal delineation of the release and associated constituents of concern on property where access is available at the time of enrollment;		
5.b.	Within the first 24 months after enrollment, the participant must complete horizontal delineation of the release and associated constituents of concern extending onto property for which access was not available at the time of enrollment;		
5.c.	Within 30 months after enrollment, the participant must update the site CSM to include vertical delineation, finalize the remediation plan and provide a preliminary cost estimate for implementation of remediation and associated continuing actions; and		
5.d.	Within 60 months after enrollment, the participant must submit the compliance status report required under the VRP, including the requisite certifications.		
6.	<p>SIGNED AND SEALED PE/PG CERTIFICATION AND SUPPORTING DOCUMENTATION:</p> <p>"I certify under penalty of law that this report and all attachments were prepared by me or under my direct supervision in accordance with the Voluntary Remediation Program Act (O.C.G.A. Section 12-8-101, <u>et seq.</u>). I am a professional engineer/professional geologist who is registered with the Georgia State Board of Registration for Professional Engineers and Land Surveyors/Georgia State Board of Registration for Professional Geologists and I have the necessary experience and am in charge of the investigation and remediation of this release of regulated substances.</p> <p>Furthermore, to document my direct oversight of the Voluntary Remediation Plan development, implementation of corrective action, and long term monitoring, I have attached a monthly summary of hours invoiced and description of services provided by me to the Voluntary Remediation Program participant since the previous submittal to the Georgia Environmental Protection Division.</p> <p>The information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."</p> <p>J. TIM BRADBYRNE P.E. 6/8/2016</p> <p>Printed Name and GA PE/PG Number Date</p> <p> </p> <p>Signature and Stamp</p>		

ADDITIONAL QUALIFYING PROPERTIES (COPY THIS PAGE AS NEEDED)

PROPERTY INFORMATION			
TAX PARCEL ID		PROPERTY SIZE (ACRES)	
PROPERTY ADDRESS			
CITY		COUNTY	
STATE		ZIPCODE	
LATITUDE (decimal format)		LONGITUDE (decimal format)	
PROPERTY OWNER INFORMATION			
PROPERTY OWNER(S)		PHONE #	
MAILING ADDRESS			
CITY		STATE/ZIPCODE	

PROPERTY INFORMATION			
TAX PARCEL ID		PROPERTY SIZE (ACRES)	
PROPERTY ADDRESS			
CITY		COUNTY	
STATE		ZIPCODE	
LATITUDE (decimal format)		LONGITUDE (decimal format)	
PROPERTY OWNER INFORMATION			
PROPERTY OWNER(S)		PHONE #	
MAILING ADDRESS			
CITY		STATE/ZIPCODE	

PROPERTY INFORMATION			
TAX PARCEL ID		PROPERTY SIZE (ACRES)	
PROPERTY ADDRESS			
CITY		COUNTY	
STATE		ZIPCODE	
LATITUDE (decimal format)		LONGITUDE (decimal format)	
PROPERTY OWNER INFORMATION			
PROPERTY OWNER(S)		PHONE #	
MAILING ADDRESS			
CITY		STATE/ZIPCODE	

APPENDIX B
WARRANTY DEED

STATE OF GEORGIA, MILLER COUNTY
Clerk's Office

Filed for record at 835 A. M.
the 5th day of April, 2000
and recorded in Book 150 Page 133-137
this 5th day of April, 2000
[Signature] Clerk, S. C.

Maile
Real Estate Transfer Tax
Paid \$ 4.36
4-5-2000
[Signature]
Clerk of Superior Court

AFTER RECORDING RETURN TO:
EVANS J. FLOWDEN, III
WATSON, SPENCE, LOWE AND CHAMBLESS
POST OFFICE BOX 2008
ALBANY, GEORGIA 31702-2008

LIMITED WARRANTY DEED

GEORGIA, DOUGHERTY COUNTY

THIS INDENTURE, made the 31st day of March, 2000, between FARMERS FERTILIZER & MILLING COMPANY, a Georgia corporation of the County of Miller and State of Georgia, as party or parties of the first part, hereinafter called "Grantor", and BIRDSONG CORPORATION, a Virginia corporation, as party or parties of the second part, hereinafter called "Grantee" (the words "Grantor" and "Grantee" to include their respective heirs, personal representatives, successors and assigns where the context requires or permits).

WITNESSETH THAT: Grantor, for and in consideration of the sum of Ten Dollars (\$10.00) and other valuable considerations in hand paid at and before the sealing and delivery of these presents, the receipt whereof is hereby acknowledged, has granted, bargained, sold, aliened, conveyed and confirmed, and by these presents does grant, bargain, sell, alien, convey and confirm unto the said Grantee, the following described property:

All that tract or parcel of land lying and being in the Twelfth and Thirteenth Land Districts of Miller County, Georgia, being more particularly described in Exhibit "A" attached hereto and made a part hereof.

TO HAVE AND TO HOLD the said tract or parcel of land, with all and singular the rights, members and appurtenances thereof, to the same being, belonging, or in anywise appertaining to the only proper use, benefit and behoof of the said Grantee forever in FEE SIMPLE.

THIS INSTRUMENT COMPLETED ON PAGE 134

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AND except for all matters of record as of the date hereof, all matters that would be disclosed by a current survey and the lien of real estates taxes not yet due and payable, the said Grantor will warrant and forever defend the right and title to the above described property unto the said Grantee against all acts of Grantor and the lawful claims of all persons claiming by, through or under Grantor.

IN WITNESS WHEREOF, the Grantor has caused this instrument to be executed by its duly authorized officers and its corporate seal hereunto affixed, the day and year above written.

FARMERS FERTILIZER & MILLING COMPANY

By: [Signature]
President

Attest: [Signature]
Secretary

(AFFIX CORPORATE SEAL HERE)

Signed, sealed and delivered
in the presence of:

[Signature]
Unofficial Witness

[Signature]
Notary Public
My Commission Expires: 4/7/03
(Affix Notary Seal Here)

G:\R-ESTATE\51910000\DEEDS\FFMILLER.LWD

Exhibit "A"

FFM MAIN SHELLING PLANT

All that tract or parcel of land lying and being in Land Lot 152 of the Thirteenth Land District and being more particularly described in that certain plat of survey entitled "Plat of FFM MAIN SHELLING PLANT", dated March 20, 2000 and prepared by G. L. Holman, Georgia Registered Land Surveyor No. 2033, as the same is recorded in Plat Cabinet "B", Slide 24-B, in the office of the Clerk of Superior Court of Miller County, Georgia.

FUDGE SHELLING PLANT

All that tract or parcel of land lying and being in Land Lot 209 of the Thirteenth Land District and being more particularly described in that certain plat of survey entitled "Plat of Fudge Shelling Plat", dated March 27, 2000 and prepared by G. L. Holman, Georgia Registered Land Surveyor No. 2033, as same is recorded in Plat Cabinet "B", Slide 24-C, in the office of the Clerk of Superior Court of Miller County, Georgia.

FUDGE DOWNTOWN

All that tract or parcel of land lying and being in the City of Colquitt, in Land Lot 169 of the Thirteenth Land District of Miller County, Georgia, and being more particularly described as follows:

Beginning at the intersection of the north margin line of Main Street (60 foot right of way) with the east margin line of Second Street (40 foot right of way), which point of beginning is marked by an iron pin set, run thence north 01 degree 23 minutes 08 seconds east along the east margin line of Second Street for a distance of 649.24 feet to the point of intersection of the east margin line of Second Street with the south margin line of Pine Street (50 foot right of way), which intersection is marked by an iron pin set; run thence south 89 degrees 22 minutes 57 seconds east along the south margin line of Pine Street for a distance of 210.44 feet to a point marked by an iron pin set; run thence south 01 degree 00 minutes 00 seconds west along the west side of the Bush House Lot for a distance of 188.2 feet to a point; continue thence south 01 degree 00 minutes 00 seconds west along the west side of the First Baptist Church Lot for a distance of 214.00 feet to a point marked by an iron pin set; continue thence south 01 degree 00 minutes 00 seconds west along the west side of the property of Fudge Gin Company, Inc. (1.96 acres) for a distance of 242.00 feet to a point on the north margin line of Main Street as evidenced by a mark on concrete; run thence south 89 degrees 17 minutes 08 seconds west along the north margin line of Main Street for a distance of 214.90 feet to the point of beginning. This property contains 3.16 acres and is more particularly described according to a plat of land surveyed for Fudge Gin Company, dated June 28, 1993, as prepared by Grady Lodge Holman, Georgia Registered Land Surveyor.

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COOKTOWN - TRACT 1

All that tract or parcel of land lying and being in Land Lot No. 332 in the 12th District of Miller County, Georgia, and being more particularly described as follows:

BEGINNING at a point where the west land lot line of said Land Lot No. 332 intersects the north right of way of State Highway No. 91 and from said beginning point run thence in a northerly direction along the west land lot line of said Land Lot No. 332 a distance of 581 feet to a point; run thence in an easterly direction and parallel with the north right of way line of said State Highway No. 91 for a distance of 450 feet to a point; run thence in a southerly direction and parallel to the west land lot line of said Land Lot No. 332 for a distance of 581 feet to a point on the north right of way of said State Highway No. 91; run thence in a westerly direction along the north right of way of said State Highway No. 91 for a distance of 450 feet to the point of beginning, consisting of six (6) acres, more or less.

COOKTOWN - TRACT 2

All that tract or parcel of land lying and being in Land Lot No. 357 in the 12th Land District of Miller County, Georgia, and being more particularly described as follows:

BEGINNING at a point where the east land lot line of said Land Lot No. 357 intersects the north right of way of State Highway No. 91 and run thence in a northerly direction along the east land lot line of said Land Lot No. 357 for a distance of 1626.2 feet to a point; run thence in a westerly direction and parallel to the north right of way of State Highway No. 91 for a distance of 216 feet to a point; run thence in a southerly direction and parallel to the east land lot line of said Land Lot No. 357 for a distance of 1626.2 feet to a point on the North right of way of Georgia State Highway No. 91; run thence in an easterly direction along the north right of way of Georgia State Highway No. 91 for a distance of 216 feet to the point of beginning, consisting of 8.87 acres, more or less.

WACASER

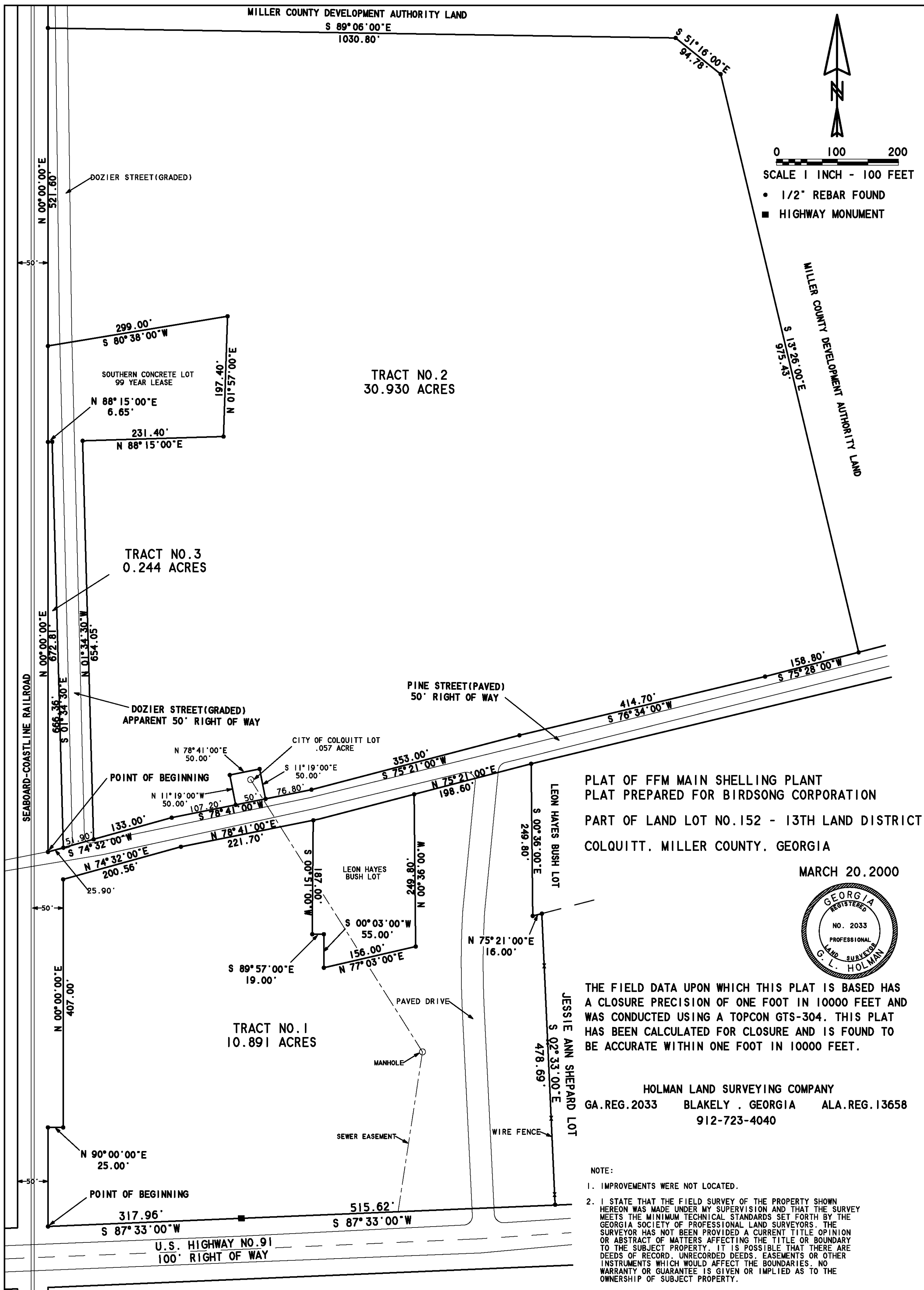
All that tract or parcel of land lying and being in Land Lot 246 in the Twelfth Land District of Miller County, Georgia, and being more particularly described as follows: Commencing at the southeast corner of said Land Lot 246, said corner being the intersection of the centerline of Georgia Route 91 with the centerline of a county road, and from said point run thence north 1 degree west along the centerline of said county road for a distance of 297 feet to a point; run thence north 89 degrees west for a distance of 924 feet to the POINT OF BEGINNING of the tract conveyed herein; from said beginning point run thence north 1 degree west for a distance of 231 feet; run thence north 89 degrees west for a distance of 726 feet to a point; run thence south 1 degree east for a distance of 528 feet to the centerline of Georgia Highway 91; run thence south 89 degrees east along the centerline of Georgia Highway 91 for a distance of 726 feet to a point;

This instrument continues on page 137

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APPENDIX C

TAX PLAT



APPENDIX D

2000 GEOSCIENCES SAMPLING REPORT

October 31, 2000

Mr. Gary Rindner
General Counsel
E. D&F Man Inc.
Two World Financial Center
New York, NY 10281-2700

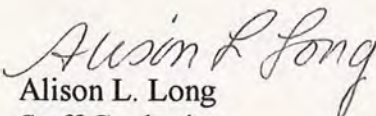
SUBJECT: Monitoring Well Installation and Sampling
FFM Main Facility
East Main Street
Colquitt, Georgia
Geosciences Project No: ALE-00-335A

Dear Mr. Ridner:

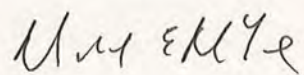
Geosciences, Inc. (Geosciences) has completed the installation of three groundwater monitoring wells at the FFM Main Facility in Colquitt, Georgia. This report includes documentation of well installation procedures, well construction details, and well development procedures. Information detailing the repair of two existing wells, soil and groundwater sampling procedures, laboratory analytical results, and two additional soil sample locations are also included.

Geosciences appreciates the opportunity to be of service to you. If you have any questions concerning this report, or if we can be of further assistance to you, please do not hesitate to call us at (912) 432-5805.

Sincerely,
GEOSCIENCES, INC.



Alison L. Long
Staff Geologist



Michael E. McNeal, P.E.
GA Reg. #13133

ALL/MEM/md

**MONITORING WELL INSTALLATION AND SAMPLING
FFM MAIN FACILITY
EAST MAIN STREET
COLQUITT, GEORGIA; MILLER COUNTY
GEOSCIENCES PROJECT NO: ALE-00-335A**

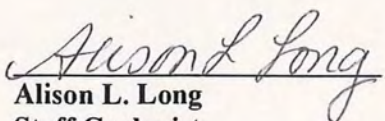
Prepared for:

**MR. GARY RINDNER
GENERAL COUNSEL
E. D&F MAN, INC.
TWO WORLD FINANCIAL CENTER
NEW YORK, NEW YORK 10281-2700**

Prepared by:

**GEOSCIENCES, INC.
3202 GILLIONVILLE ROAD
ALBANY, GEORGIA 31707
(229) 432-5805**

OCTOBER 31, 2000


**Alison L. Long
Staff Geologist**

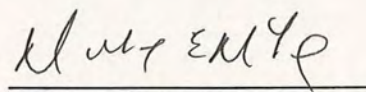

**Michael E. McNeal, P.E.
GA Reg. No. 13133**

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APPENDICES

APPENDIX I

FIGURE 1: Site Plan

TABLE 1: Summary of Well Installation and Groundwater Depth Data

TABLE 2: Summary of Soil Analytical Data

TABLE 3: Summary of Groundwater Analytical Data

APPENDIX II

Groundwater Monitoring Well Installation Data Sheets

Subsurface Drill Logs

Laboratory Analytical Reports



1.0 INTRODUCTION

Geosciences, Inc. (Geosciences) was retained by Mr. Gary Rindner for Farmers Fertilizer and Milling, Inc. to install and sample three groundwater monitoring wells and sample soil in three other locations recommended in Geosciences' Report of Phase I Environmental Site Assessment dated October 13, 1999.

This report includes documentation of well installation procedures, well construction details, and well development procedures. Information detailing the repair of two existing wells, soil and groundwater sampling procedures, laboratory analytical results, and two additional soil sample locations are also included.

2.0 REPAIR OF EXISTING WELLS

An existing well, located directly south of the peanut cleaning building in the driveway east of the shelling plant, had no manhole cover protecting it. In addition, the skirt of the vault had been damaged and the pipe appeared to have been broken off above the ground surface resulting in a poor seal with the expansion plug. Remnants of the old vault skirt were removed and the pipe was extended several inches using a PVC coupler and riser. Grout placed inside the new vault sealed the coupler and riser joint. Glue was not used. A locked expansion plug was placed on the pipe and a new eight-inch diameter vault was installed in concrete to protect the well.

Another well, located north of the shelling plant, was in a poorly drained paved area. During Geosciences site visit, there was standing water in this area near the well. The vault of the well was not properly sealed and was not secure in the asphalt, allowing runoff to enter the vault.

Geosciences was told that this area will be repaved in the future, and that there was a need to elevate the pad on this well above grade. Geosciences removed the vault and the asphalt in a two-foot square area around the well and poured a concrete pad that is elevated above grade approximately three inches. A new vault was placed in the concrete pad.

3.0 GROUNDWATER MONITORING WELL INSTALLATION

Three permanent monitoring wells were installed between August 28 and August 31, 2000 in the FFM Main Facility located north of East Main Street in Colquitt, Georgia. This installation included the drilling of one well near the northwest corner of the UAP Chemical Storage Building (MW-5), one well in the driveway north of the UAP Office building (MW-6), and one well near the northwest corner of the UAP Fertilizer Storage Building (MW-4).

The monitoring wells were installed by Watson Drilling Service (Watson) under the on-site supervision of Geosciences personnel, working under the direction of Stephen S. Syfrett, P.G. Watson is bonded with GA EPD Department of Natural Resources (Bond No. MB002003137). The wells were drilled with a 4.25-inch inside diameter hollow stem auger, which produced a borehole of approximately 8.25 inches in diameter. Well installation was performed in general accordance with EPD's Manual for Groundwater Monitoring (May 1987).



Basic soil lithology was determined from split spoon samples obtained at five-foot intervals during the drilling operations. Descriptive boring logs and monitoring well installation data sheets are included in Appendix II. Table 1 in Appendix I summarizes groundwater monitoring well data and water depths.

4.0 WELL MATERIALS

4.1 Casings and Screens

Schedule 40 ASTM F 480 riser (ASTM NSF-rated) with an inside diameter of two inches was used in constructing all of the wells. Schedule 40 ASTM F 480 PVC screen (ASTM-NSF-rated) with 0.01-inch machine-cut slots was used above the endpoint in the wells. Ten feet of screen was used in the construction of MW-4 and five feet was used in the construction of MW-5 and MW-6.

4.2 Filter Pack

A filter pack of sized, cleaned, quartz sand (10-30) was placed to a height of approximately two feet above the well screen. The 10-30 sand was obtained from Southern Concrete Construction Company in Albany, Georgia in 100-pound bags. The sand was allowed to free-fall down the open borehole. The level of sand was constantly monitored with a tape measure during installation until it reached a height of approximately two feet above the well screen. During the installation of the deeper wells (MW-5 and MW-6) there was a large amount of water with suspended sediment in the borehole. To ensure the sand did not bridge between the augers and the pipe and that the sand settled properly around the screen at the bottom of the well, the sand was allowed settling time during sand pack placement.

4.3 Sealant

Upon completion of the filter pack, a bentonite seal was placed on top of the filter material. A five-gallon bucket of 3/8" bentonite pellets, marketed by Boart Longyear Company, was allowed to free-fall down the borehole of each well, creating a seal. When necessary, the pellets were hydrated with potable water.

The annular space above the bentonite seal to approximately 12 inches below the ground surface was grouted with portland cement containing three to five percent bentonite powder. The slurry was mixed on site by Watson and placed by a tremie hose.

5.0 WELL PROTECTION

Each well was completed with tamper-resistant locked expansion plugs and flush-mounted eight-inch diameter manhole covers with vaults. A two-foot square concrete pad was poured around each well.



6.0 WELL DEVELOPMENT

Well development was performed by Geosciences personnel on September 5, 2000 by withdrawing sufficient volumes of water from the well using a new, disposable, high-density polyethylene (HDPE) bailer to restore the natural conductivity of the water-bearing formation. The appropriate volume of groundwater to be removed from each well was determined by calculations using casing size, total well depth, and depth to water. Five well volumes is the standard purge amount for well development purposes. In some cases, it is necessary to purge more to remove sediment buildup in the well. Geosciences withdrew between 10 and 22 well volumes from each of the three wells during development. Samples were collected from the wells immediately following development procedures.

7.0 SOIL SAMPLING PROCEDURES

Soil samples were collected during drilling operations every five feet in depth using a split spoon sampler. Disposable latex gloves were worn and changed appropriately to avoid cross-contamination during the sampling activities. The samples were classified and color was described using the Munsell Color Chart. The samples were then labeled, bagged, and placed in an iced cooler for preservation.

Of these samples four were selected to be sent to the laboratory and analyzed. The soil was removed from the bag and placed into laboratory-provided sample containers. Two four-ounce jars (unpreserved) were filled manually and two forty-milliliter vials (containing preservative) were filled using a laboratory-provided disposable syringe for each sample. The samples were then placed into an iced cooler for preservation and shipment by overnight courier to Advanced Chemistry Labs, Inc. in Atlanta, Georgia for analysis. The samples were handled following standard chain-of-custody protocol.

8.0 GROUNDWATER SAMPLING PROCEDURES

Prior to sampling each groundwater monitoring well, the depth to water was measured using an electric water level indicator, and each well was purged with a HDPE disposable bailer to ensure a representative sample was obtained.

Sampling and field measurement equipment was properly decontaminated prior to placement in each well. A new HDPE disposable bailer and new string were used at each groundwater well when sampling. Disposable latex sampling gloves were worn and changed appropriately to avoid cross contamination of samples and sampling equipment.

Volatile Organic Compound (VOC), herbicide, pesticide, and nitrate-nitrogen samples were collected immediately after the purging took place in each well using a HDPE disposable bailer. In addition, arsenic and Polynuclear Aromatic Hydrocarbon (PAH) samples were collected from wells MW-5 and MW-6.



The samples were poured into laboratory-provided sample containers, sealed and placed into an iced cooler for preservation and shipment by overnight courier to Advanced Chemistry Labs, Inc. in Atlanta, Georgia for analysis.

9.0 LABORATORY TEST RESULTS

9.1 Soil Analytical Results

Soil samples from the three wells (MW-4, MW-5, and MW-6) and two shallow soil samples collected by hand auger were shipped by overnight courier to Advanced Chemistry Labs, Inc. in Atlanta for analysis. The samples were to arrive at the lab the following morning to be preserved for analysis. Due to a miscommunication with laboratory personnel, Geosciences mistakenly thought that the samples would be received and preserved on Saturday, September 2nd, even though this was a holiday weekend (Labor Day). However, this was not the case and the samples were not documented as being received by the laboratory until Tuesday, September 5th. The cooler temperature was documented on the chain-of-custody as being within the acceptable range, but the laboratory called to confirm the late acceptance of the cooler and to discuss whether or not to run analyses on the samples since they were not iced upon arrival and left unattended. Geosciences opted to have the analyses performed, since it would not be possible to recollect soil samples that were taken during well installation.

Laboratory analytical results indicated nitrates were present in the soil samples in concentrations ranging from 14.8 mg/kg to 130 mg/kg. Carbon disulfide was found in the 18.5' to 20.0' sample taken during installation of MW-5 at a concentration of 0.008 mg/kg. Geosciences suspects this constituent to be an artifact of the powdered, disposable latex gloves worn during sampling rather than soil contamination, as it has since been confirmed that the brand of gloves used does contain carbon disulfide. Table 2 in Appendix I summarizes the laboratory analytical results for the soil samples.

9.2 Groundwater Analytical Results

Groundwater samples collected on September 5, 2000 were shipped via UPS to Advanced Chemistry Labs, Inc. in Atlanta. The lab received the samples the following day (September 6, 2000). Samples from MW-5 and MW-6 were analyzed for volatile organic compounds (VOCs), organochlorine pesticides, chlorinated herbicides, nitrate-nitrogen, total arsenic, and Polynuclear Aromatic Hydrocarbons (PAHs). The sample from MW-4 was analyzed for the same set of constituents excluding total arsenic and PAHs. Tetrachloroethene was detected above the MCL (5 ug/L) in the groundwater sample from MW-6 (28 ug/l). Nitrate was also detected above the 10 mg/L MCL in all three of the wells. Well MW-4 had the highest concentration reported at 78.0 mg/l. Table 3 in Appendix I summarizes the laboratory analytical results for the groundwater samples.



10.0 HAND AUGER SOIL SAMPLING

Geosciences collected hand auger samples in two of three designated locations at the facility. A sample could not be collected in the proposed location near the maintenance shed due to difficulty in hand augering through gravel placed in the vicinity of the driveway.

A soil sample was collected from 1.5 - 2' below ground surface near the evaporation area and analyzed for VOCs. No VOCs were detected in the sample.

Another soil sample was taken near the southern door of the welding shop. This sample was analyzed for VOCs and RCRA metals. Barium, chromium, and lead were present in concentrations of 19.7 mg/kg, 30.0 mg/kg, and 11.8 mg/kg, respectively. However, none of these constituents exceeded their established regulatory limits under HSRA (Appendix I).

11.0 CONCLUSIONS

Geosciences has completed the installation and sampling of three monitoring wells at the FFM Main Facility in Colquitt, Georgia. Nitrate-nitrogen levels in soil have been established from soil samples taken during well installation. Concentrations detected varied between 14.8 mg/kg in MW-4 to 130 mg/kg in MW-6. Groundwater samples from the wells indicated nitrate-nitrogen was present above the 10 mg/L MCL in all wells. The highest nitrate-nitrogen concentration detected was 78.0 mg/L in well MW-4. When detected in groundwater, this constituent is regulated under the Hazardous Site Response Act Notification Requirement (HSRA NC) (Chapter 391-3-19-.04(3)(b)).

Two other constituents were detected that are regulated under HSRA. Tetrachloroethene, also known as perchloroethylene, or PCE, was detected in the groundwater sample from MW-6 at a concentration (28 ug/L) above the MCL of 5 ug/L. The tetrachloroethene and nitrate-nitrogen concentrations detected in groundwater that exceed the "naturally-occurring" background concentrations are required to be reported to EPD under the Hazardous Site Response Act Notification Requirement (HSRA NC) (Chapter 391-3-19-.04(3)(b)). Geosciences recommends collecting a confirmation sample from this well to verify the presence of this contaminant.

Carbon Disulfide was detected in the 18.5-20 foot soil sample from well MW-5. The established Notification Concentration (NC) for this constituent is listed as being "the detection limit (as defined in this chapter) because the substance is elsewhere classified as an acute hazardous waste." The laboratory detection limit for carbon disulfide was 0.005 mg/kg, and a concentration of 0.008 mg/kg was detected in the sample. As previously discussed, we do not believe this data represents confirmed contamination.

Minor concentrations of metals were detected in the 1.5 to 2 foot soil sample collected near the door on the south end of the welding shop. Barium, chromium, and lead were detected in concentrations (19.7 mg/kg, 30.0 mg/kg, and 11.8 mg/kg, respectively) below HSRA notification concentrations.



**FFM Main Facility
Colquitt, Georgia; Miller County
Geosciences Project No: ALE-00-335A**

**TABLE 1
Summary of Well Installation and Groundwater Depth Data**

Well No.	Date Installed	Well Depth (ft)	Depth to Top of Bentonite Seal (ft)	Depth to Top of Sand Pack (ft)	Depth to Top of Screen (ft)	Length of Screen (ft)	Depth to Water September 5, 2000 (ft)
MW-4	8/28/00	17.5	4.1	5.9	7.5	10.0	9.58
MW-5	8/29/00	45.0	34.7	37.5	40.0	5.0	29.80
MW-6	8/30/00	55.0	45.1	47.3	50.0	5.0	28.46

**TABLE 2
Summary of Soil Analytical Data**

Well ID.	Volatile Organics	Organo-chlorine Pesticides (mg/kg)	Chlorinated Herbicides (mg/kg)	Nitrate-Nitrogen (mg/kg)	Total Arsenic (mg/kg)	RCRA Total Metals (mg/kg)		
	Carbon Disulfide (mg/kg)					Barium	Chromium	Lead
MW-4 (8.5-10')	BDL	BDL	BDL	14.8	NA	NA	NA	NA
MW-5 (3.5-5')	BDL	BDL	BDL	125	BDL	NA	NA	NA
MW-5 (18.5-20')	0.008	BDL	BDL	72.1	BDL	NA	NA	NA
MW-6 (18.5-20')	BDL	BDL	BDL	130	BDL	NA	NA	NA
Welding Shop (1.5-2')	BDL	NA	NA	NA	NA	19.7	30.0	11.8
Evaporation Area (1.5-2')	BDL	NA	NA	NA	NA	NA	NA	NA
Lab Detection Limit	0.005	.005-0.10	.005-1.0	5.0-20.0	5.0	10.0	5.0	5.0
HSRA NC	0.005	Varies with Pesticide	Varies with Herbicide	NE	41.0	500	1200	300

**TABLE 3
Summary of Groundwater Analytical Data**

Well ID.	Volatile Organics	Organochlorine Pesticides (ug/L)	Chlorinated Herbicides (ug/L)	Nitrate-Nitrogen (mg/L)	Total Arsenic (mg/L)	PAHs (ug/L)
	Tetrachloroethene* (ug/L)					
MW-4	BDL	BDL	BDL	78.0	NA	NA
MW-5	BDL	BDL	BDL	20.9	BDL	BDL
MW-6	28	BDL	BDL	58.6	BDL	BDL
Lab Detection Limit	5	Varies with Pesticide	Varies with Herbicide	1.0-5.0	0.03	10
MCL	5	Varies with Pesticide	Varies with Herbicide	10	0.05	Varies with Constituent

NA = Not Analyzed

HSRA NC = Notification Requirements under Hazardous Site Response Act (Appendix I)

NE = Not Established

BDL = Below Lab Detection Limit

MCL = Maximum Contaminant Level

* Tetrachloroethene = Perchloroethylene or PCE

EAST MAIN STREET

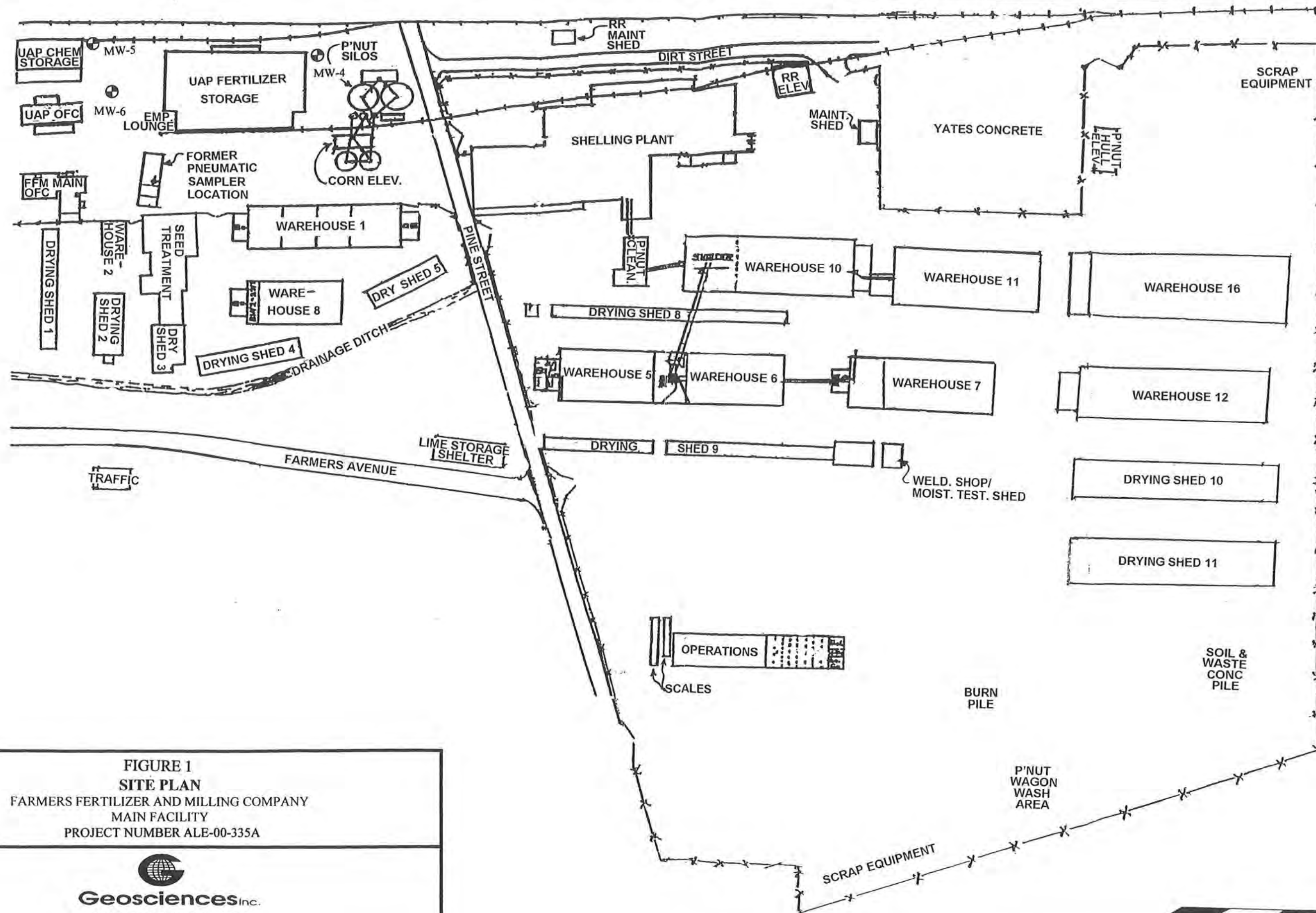


FIGURE 1
SITE PLAN
FARMERS FERTILIZER AND MILLING COMPANY
MAIN FACILITY
PROJECT NUMBER ALE-00-335A

Groundwater Monitoring Well Installation Data
FFM Main Facility
Colquitt, Georgia; Miller County
Geosciences Job No: ALE-00-335A

Name of Drillers:	Watson Drilling
Bond Number:	MB002003137
Drill Rig:	CME-55
DATE OF CONSTRUCTION:	August 28-31, 2000
DRILLING METHOD:	Hollow Stem Auger; no drilling fluid
WELL LOCATIONS:	MW-4 -Near NW corner of UAP fertilizer storage building MW-5 -Near NW corner of UAP chemical storage building MW-6 -North of UAP office building
BOREHOLE DIAMETER:	8.25 inches
WELL CASING DIAMETER:	2 inches
WELL DEPTH:	See Subsurface Drill Logs
DRILLING/LITHOLOGIC LOGS:	See Subsurface Drill Logs
CASING MATERIALS:	2" Schedule 40 PVC, NSF ASTM Rated
SCREEN MATERIALS:	2" Schedule 40 PVC/Machine slotted 0.01" screen; NSF ASTM Rated
CASING/SCREEN JOINT TYPE:	Flush-threaded, o-ring sealed
FILTER PACK MATERIAL/SIZE:	10-30 gradation silica sand
FILTER PACK PLACEMENT:	Free fall through augers, monitored with tag line
SEALANT MATERIAL:	3/8" bentonite pellets
SEALANT PLACEMENT:	Free fall through augers, monitored with tag line
GROUT MATERIAL:	Portland Cement
GROUT PLACEMENT:	Free fall Method

Groundwater Monitoring Well Installation Data
FFM Main Facility
Colquitt, Georgia; Miller County
Geosciences Job No: ALE-00-335A

SURFACE SEAL DESIGN: 2' diameter square pad

WELL DEVELOPMENT PROCEDURES: Withdrawal of water by HDPE bailer

GROUND SURFACE ELEVATIONS: Not determined

TOP OF PVC ELEVATIONS: Not determined

DETAILED DRAWING OF WELLS: See Subsurface Drill Logs

SUBSURFACE DRILL LOG

PROJECT NAME	FFM Main Facility	PROJECT NUMBER	ALE-00-335A	PAGE 1 OF 1
FIELD ENG/GEO	Alison Long	GROUND ELEVATION (ft)		BORING NO: MW-4
RIG TYPE	CME-55	DRILLING METHOD	HSA	DATE: 8/28/00

DEPTH	SOIL/MATERIAL DESCRIPTION	ELEVATION (feet)	LITHOLOGY	SPT BLOWS	SAMPLES	WATER LEVEL	COMMENTS
0	Topsoil and grass						
	White to 10YR 6/8 brownish-yellow, fine-grained sand and silt			27			
8	5Y 7/1 light gray, dry, fine-grained, consolidated sand and silt			67			
	2.5Y 4/1 dark gray sand and silt in top 5"			50/4			
16	White, weathered limestone in bottom 3"						
	Same strata as above			15			
24	Same as above strata in top 4"			17			
	10YR 5/8 yellowish-brown and light gray mottled clay						
	Boring Terminated at 25 feet.						
	GW Enc. at 9.58 feet 24 hours after drilling						
32							
40							
48							
56							

Flush mount 8" diameter manhole cover and vault. 8.5 feet of 2" diameter PVC riser Borehole annular space grouted with portland cement/3-5% bentonite powder slurry 3/8" bentonite pellets at 4.1' bls 10/30 sand at 5.9' bls 10 feet of 2" diameter 0.01" machine-slotted PVC screen (at 7.5' bls) Well set at 17.5' bls

SUBSURFACE DRILL LOG

PROJECT NAME	FFM Main Facility	PROJECT NUMBER	ALE-00-335A	PAGE 1 OF 1
FIELD ENG/GEO	Alison Long	GROUND ELEVATION (ft)		BORING NO: MW-5
RIG TYPE	CME-55	DRILLING METHOD	HSA	DATE: 8/29/00

DEPTH	SOIL/MATERIAL DESCRIPTION	ELEVATION (feet)	LITHOLOGY	SPT BLOWS	SAMPLES	WATER LEVEL	COMMENTS
0	Topsoil and grass						Flush mount 8" diameter manhole cover and vault
	10R 6/8 brownish-yellow, light gray, and 2.5YR 4/4 reddish-brown, mottled, very stiff, sandy clay			23	✓		Borehole annular space grouted with portland cement/3-5% bentonite powder slurry
8	Same strata as above except contains more light gray, very stiff			30	✓		
	Dry, same strata as above; 5Y 8/1 white mottles dominant			29	✓		40' of 2" diameter PVC riser
16	Same as above mottled, tricolor clay			27	✓		
	Same as above strata, moist			27	✓		
24	Same strata as above, predominantly reddish-brown and brownish-yellow mottles with little white			21	✓		
32	10YR 5/8 yellowish-brown clay; bottom 2" contains dark yellowish-brown 10YR 4/4 clasts			29	✓		3/8" bentonite pellets at 34.7' bls
	Same clast-containing clay as above; moist			15	✓		10/30 sand at 37.5' bls
40	Same strata as above in top 4"; saturated Friable, white limestone and clay in bottom 14"			40	✓		5' of 2" diameter 0.01" machine-slotted PVC screen (to 40' bls)
48	Boring Terminated at 45 feet.						Well set at 45' bls
	GW Enc. at 29.80 feet 24 hours after drilling						
56							

SUBSURFACE DRILL LOG

PROJECT NAME	FFM Main Facility	PROJECT NUMBER	ALE-00-335A	PAGE 1 OF 1
FIELD ENG/GEO	Alison Long	GROUND ELEVATION (ft)		BORING NO: MW-6
RIG TYPE	CME-55	DRILLING METHOD	HSA	DATE: 8/29/00

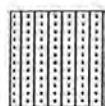
DEPTH	SOIL/MATERIAL DESCRIPTION	ELEVATION (feet)	LITHOLOGY	SPT BLOWS	SAMPLES	WATER LEVEL	COMMENTS
0	Asphalt			9	✓		Flush mount 8" diameter manhole cover and vault Borehole annular space grouted with portland cement/3-5% bentonite powder slurry
	Very stiff, 7.5YR 5/8 strong brown sandy clay			14	✓		
	Same as above clay except lighter in color 10YR 7/4 very pale brown						
8	Dry, light gray and 10YR 6/8 brownish-yellow mottled, sandy clay			14	✓		
	Very stiff, same as above sandy clay, predominantly light gray			18	✓		50' of 2" diameter PVC riser
16	Moist, same strata as above			15	✓		
	Top same as above strata; bottom 7" has more sand and water content and is 7.5YR 7/8 reddish-yellow in color			15	✓		
24	Moist, 10YR 5/6 to 5/8 yellowish-brown sandy clay			13	✓		
32	Moist, same as above in top 6"			9	✓		3/8" bentonite pellets at 45.1' bls 10/30 sand at 47.3' bls 5' of 2" diameter 0.01" machine-slotted PVC screen (at 50' bls) Well set at 55' bls
	Bottom 12" Very Stiff, 10YR 8/6 yellow, light gray, and 10R 6/3 pale red, mottled, fine-grained clay						
40	Same strata as above			10	✓		
	Same strata as above becoming darker and more uniform in color. 10YR 5/6 yellowish-brown in bottom 7" of spoon.			4	✓		
48	Same strata as above in top 10"; sandy clay containing clasts in bottom 3"			WOR	✓		
	Same clay containing clasts in top 4" of sample			19	✓		
56	Friable, white limestone in bottom 5" of sample						
	Boring Terminated at 55 feet.						
	GW Enc. at 28.46 feet 24 hours after drilling						

KEY TO SYMBOLS

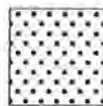
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Symbol Description

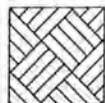
Strata Symbols



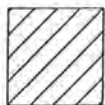
Silty Sand



Silica Sand, No Pipe
(End Plug)



Limestone
(or generic rock)



Low Plasticity
Clay

Misc. Symbols



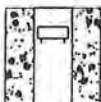
Water Table at
Boring Completion

Soil Samplers

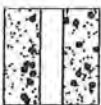


Standard penetration test

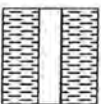
Monitor Well Details



Recessed Cover
Set in Concrete



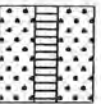
Concrete Seal



Bentonite Pellets



Silica Sand, Blank PVC



Slotted Pipe w/ Sand

Notes:

1. These logs are subject to the limitations, conclusions, and recommendations in this report.

Phone: (770) 409-1444
Fax: (770) 409-1844
Outside GA: (800) 277-0520
e-mail: acl@mindspring.com

3039 Amwiler Road • Suite 100 • Atlanta, GA 30360
P.O. Box 88610 • Atlanta, GA 30356
www.advancedchemistrylabs.com


VOLATILE ORGANICS - SW-846, METHOD 5030B / 8260B

Client:	Geosciences, Inc.	Sample ID:	335/MW-4
	3202 Gillionville Road	ACL Sample No:	159025
	Albany GA 31707	ACL Project No:	33326
		Date Sampled:	09-05-00
Contact:	Ms. Alison Long	Date Extracted:	----
Project No:	ALE-00-335A/VAP Southeast	Date Analyzed:	09-09-00
Date Received:	09-06-00	Matrix:	Water
Date Reported:	10-09-00	Analyst:	TL

Cas No.	Compound	Result (µg/liter)	Detection Limit
67-64-1-----	Acetone.....	BDL	100
107-02-8-----	Acrolein.....	BDL	50
107-13-1-----	Acrylonitrile.....	BDL	50
71-43-2-----	Benzene.....	BDL	5
108-86-1-----	Bromobenzene.....	BDL	5
74-97-5-----	Bromochloromethane.....	BDL	5
75-27-4-----	Bromodichloromethane.....	BDL	5
75-25-2-----	Bromoform.....	BDL	5
74-83-9-----	Bromomethane.....	BDL	10
78-93-3-----	2-Butanone (MEK)	BDL	100
104-51-8-----	n-Butylbenzene.....	BDL	5
135-98-8-----	sec-Butylbenzene.....	BDL	5
98-06-6-----	tert-Butylbenzene.....	BDL	5
75-15-0-----	Carbon disulfide.....	BDL	5
56-23-5-----	Carbon tetrachloride.....	BDL	5
108-90-7-----	Chlorobenzene.....	BDL	5
75-00-3-----	Chloroethane.....	BDL	10
67-66-3-----	Chloroform.....	BDL	5
74-87-3-----	Chloromethane.....	BDL	10
95-49-8-----	2-Chlorotoluene.....	BDL	5
106-43-4-----	4-Chlorotoluene.....	BDL	5
110-75-8-----	2-Chloroethyl vinyl ether.....	BDL	10
124-48-1-----	Dibromochloromethane.....	BDL	5
96-12-8-----	1,2-Dibromo-3-chloropropane.....	BDL	5
106-93-4-----	1,2-Dibromoethane.....	BDL	5
74-95-3-----	Dibromomethane.....	BDL	5
95-50-1-----	1,2-Dichlorobenzene.....	BDL	5
541-73-1-----	1,3-Dichlorobenzene.....	BDL	5
106-46-7-----	1,4-Dichlorobenzene.....	BDL	5
75-71-8-----	Dichlorodifluoromethane.....	BDL	10
75-34-3-----	1,1-Dichloroethane.....	BDL	5
107-06-2-----	1,2-Dichloroethane.....	BDL	5
75-35-4-----	1,1-Dichloroethene.....	BDL	5
156-59-2-----	cis-1,2-Dichloroethene.....	BDL	5
156-60-5-----	trans-1,2-Dichloroethene.....	BDL	5
78-87-5-----	1,2-Dichloropropane.....	BDL	5

BDL = Below Detection Limit

J = Less Than Detection Limit, Approximate Value


John Andros, Lab Manager

Phone: (770) 409-1444

Fax: (770) 409-1844

Outside GA: (800) 277-0520

e-mail: acl@mindspring.com

3039 Amwiler Road • Suite 100 • Atlanta, GA 30360

P.O. Box 88610 • Atlanta, GA 30356

www.advancedchemistrylabs.com

VOLATILE ORGANICS (cont'd) - SW-846, METHOD 5030B / 8260B

Client: Geosciences, Inc.
3202 Gillionville Road
Albany GA 31707

Contact: Ms. Alison Long

Project No: ALE-00-335A/VAP Southeast

Date Received: 09-06-00

Date Reported: 10-09-00

Sample ID: 335/MW-4

ACL Sample No: 159025

ACL Project No: 33326

Date Sampled: 09-05-00

Date Extracted: ---

Date Analyzed: 09-09-00

Matrix: Water

Analyst: TL

Cas No.	Compound	Result (µg/liter)	Detection Limit
142-28-9-----	1,3-Dichloropropane.....	BDL	5
594-20-7-----	2,2-Dichloropropane.....	BDL	5
563-58-6-----	1,1-Dichloropropene.....	BDL	5
10061-01-5-----	cis-1,3-Dichloropropene.....	BDL	5
10061-02-6-----	trans-1,3-Dichloropropene.....	BDL	5
100-41-4-----	Ethylbenzene.....	BDL	5
87-68-3-----	Hexachlorobutadiene.....	BDL	5
591-78-6-----	2-Hexanone.....	BDL	50
98-82-8-----	Isopropylbenzene.....	BDL	5
99-87-6-----	p-Isopropyltoluene.....	BDL	5
75-09-2-----	Methylene chloride.....	BDL	5
108-10-1-----	4-Methyl-2-pentanone (MIBK)	BDL	50
91-20-3-----	Naphthalene.....	BDL	5
103-65-1-----	n-Propylbenzene.....	BDL	5
100-42-5-----	Styrene.....	BDL	5
630-20-6-----	1,1,1,2-Tetrachloroethane.....	BDL	5
79-34-5-----	1,1,2,2-Tetrachloroethane.....	BDL	5
127-18-4-----	Tetrachloroethene.....	BDL	5
108-88-3-----	Toluene.....	BDL	5
87-61-6-----	1,2,3-Trichlorobenzene.....	BDL	5
120-82-1-----	1,2,4-Trichlorobenzene.....	BDL	5
71-55-6-----	1,1,1-Trichloroethane.....	BDL	5
79-00-5-----	1,1,2-Trichloroethane.....	BDL	5
79-01-6-----	Trichloroethene.....	BDL	5
75-69-4-----	Trichlorofluoromethane.....	BDL	5
96-18-4-----	1,2,3-Trichloropropane.....	BDL	5
95-63-6-----	1,2,4-Trimethylbenzene.....	BDL	5
108-67-8-----	1,3,5-Trimethylbenzene.....	BDL	5
108-05-4-----	Vinyl acetate.....	BDL	50
75-01-4-----	Vinyl chloride.....	BDL	2
95-47-6-----	o-Xylene.....	BDL	5
108-38-3/106-42-3	m&p-Xylenes.....	BDL	10

BDL = Below Detection Limit

J = Less Than Detection Limit, Approximate Value

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VOLATILE ORGANICS - SW-846, METHOD 5030B / 8260B

Client:	Geosciences, Inc.	Sample ID:	335/MW-5
	3202 Gillionville Road	ACL Sample No:	159026
	Albany GA 31707	ACL Project No:	33326
		Date Sampled:	09-05-00
Contact:	Ms. Alison Long	Date Extracted:	- - - -
Project No:	ALE-00-335A/VAP Southeast	Date Analyzed:	09-09-00
Date Received:	09-06-00	Matrix:	Water
Date Reported:	10-09-00	Analyst:	TL

Cas No.	Compound	Result (µg/liter)	Detection Limit
67-64-1-----	Acetone.....	BDL	100
107-02-8-----	Acrolein.....	BDL	50
107-13-1-----	Acrylonitrile.....	BDL	50
71-43-2-----	Benzene.....	BDL	5
108-86-1-----	Bromobenzene.....	BDL	5
74-97-5-----	Bromochloromethane.....	BDL	5
75-27-4-----	Bromodichloromethane.....	BDL	5
75-25-2-----	Bromoform.....	BDL	5
74-83-9-----	Bromomethane.....	BDL	10
78-93-3-----	2-Butanone (MEK)	BDL	100
104-51-8-----	n-Butylbenzene.....	BDL	5
135-98-8-----	sec-Butylbenzene.....	BDL	5
98-06-6-----	tert-Butylbenzene.....	BDL	5
75-15-0-----	Carbon disulfide.....	BDL	5
56-23-5-----	Carbon tetrachloride.....	BDL	5
108-90-7-----	Chlorobenzene.....	BDL	5
75-00-3-----	Chloroethane.....	BDL	10
67-66-3-----	Chloroform.....	BDL	5
74-87-3-----	Chloromethane.....	BDL	10
95-49-8-----	2-Chlorotoluene.....	BDL	5
106-43-4-----	4-Chlorotoluene.....	BDL	5
110-75-8-----	2-Chloroethyl vinyl ether.....	BDL	10
124-48-1-----	Dibromochloromethane.....	BDL	5
96-12-8-----	1,2-Dibromo-3-chloropropane.....	BDL	5
106-93-4-----	1,2-Dibromoethane.....	BDL	5
74-95-3-----	Dibromomethane.....	BDL	5
95-50-1-----	1,2-Dichlorobenzene.....	BDL	5
541-73-1-----	1,3-Dichlorobenzene.....	BDL	5
106-46-7-----	1,4-Dichlorobenzene.....	BDL	5
75-71-8-----	Dichlorodifluoromethane.....	BDL	10
75-34-3-----	1,1-Dichloroethane.....	BDL	5
107-06-2-----	1,2-Dichloroethane.....	BDL	5
75-35-4-----	1,1-Dichloroethene.....	BDL	5
156-59-2-----	cis-1,2-Dichloroethene.....	BDL	5
156-60-5-----	trans-1,2-Dichloroethene.....	BDL	5
78-87-5-----	1,2-Dichloropropane.....	BDL	5

BDL = Below Detection Limit

J = Less Than Detection Limit, Approximate Value

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VOLATILE ORGANICS (cont'd) - SW-846, METHOD 5030B / 8260B

Client: Geosciences, Inc.
3202 Gillionville Road
Albany GA 31707

Contact: Ms. Alison Long

Project No: ALE-00-335A/VAP Southeast

Date Received: 09-06-00

Date Reported: 10-09-00

Sample ID: 335/MW-5

ACL Sample No: 159026

ACL Project No: 33326

Date Sampled: 09-05-00

Date Extracted: ----

Date Analyzed: 09-09-00

Matrix: Water

Analyst: TL

Cas No.	Compound	Result (µg/liter)	Detection Limit
142-28-9	1,3-Dichloropropane	BDL	5
594-20-7	2,2-Dichloropropane	BDL	5
563-58-6	1,1-Dichloropropene	BDL	5
10061-01-5	cis-1,3-Dichloropropene	BDL	5
10061-02-6	trans-1,3-Dichloropropene	BDL	5
100-41-4	Ethylbenzene	BDL	5
87-68-3	Hexachlorobutadiene	BDL	5
591-78-6	2-Hexanone	BDL	50
98-82-8	Isopropylbenzene	BDL	5
99-87-6	p-Isopropyltoluene	BDL	5
75-09-2	Methylene chloride	BDL	5
108-10-1	4-Methyl-2-pentanone (MIBK)	BDL	50
91-20-3	Naphthalene	BDL	5
103-65-1	n-Propylbenzene	BDL	5
100-42-5	Styrene	BDL	5
630-20-6	1,1,1,2-Tetrachloroethane	BDL	5
79-34-5	1,1,2,2-Tetrachloroethane	BDL	5
127-18-4	Tetrachloroethene	BDL	5
108-88-3	Toluene	BDL	5
87-61-6	1,2,3-Trichlorobenzene	BDL	5
120-82-1	1,2,4-Trichlorobenzene	BDL	5
71-55-6	1,1,1-Trichloroethane	BDL	5
79-00-5	1,1,2-Trichloroethane	BDL	5
79-01-6	Trichloroethene	BDL	5
75-69-4	Trichlorofluoromethane	BDL	5
96-18-4	1,2,3-Trichloropropane	BDL	5
95-63-6	1,2,4-Trimethylbenzene	BDL	5
108-67-8	1,3,5-Trimethylbenzene	BDL	5
108-05-4	Vinyl acetate	BDL	50
75-01-4	Vinyl chloride	BDL	2
95-47-6	o-Xylene	BDL	5
108-38-3/106-42-3	m&p-Xylenes	BDL	10

BDL = Below Detection Limit

J = Less Than Detection Limit, Approximate Value

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VOLATILE ORGANICS - SW-846, METHOD 5030B / 8260B

Client:	Geosciences, Inc.	Sample ID:	335/MW-6
	3202 Gillionville Road	ACL Sample No:	159027
	Albany GA 31707	ACL Project No:	33326
		Date Sampled:	09-05-00
Contact:	Ms. Alison Long	Date Extracted:	----
Project No:	ALE-00-335A/VAP Southeast	Date Analyzed:	09-09-00
Date Received:	09-06-00	Matrix:	Water
Date Reported:	10-09-00	Analyst:	TL

Cas No.	Compound	Result (µg/liter)	Detection Limit
67-64-1-----	Acetone.....	BDL	100
107-02-8-----	Acrolein.....	BDL	50
107-13-1-----	Acrylonitrile.....	BDL	50
71-43-2-----	Benzene.....	BDL	5
108-86-1-----	Bromobenzene.....	BDL	5
74-97-5-----	Bromochloromethane.....	BDL	5
75-27-4-----	Bromodichloromethane.....	BDL	5
75-25-2-----	Bromoform.....	BDL	5
74-83-9-----	Bromomethane.....	BDL	10
78-93-3-----	2-Butanone (MEK)	BDL	100
104-51-8-----	n-Butylbenzene.....	BDL	5
135-98-8-----	sec-Butylbenzene.....	BDL	5
98-06-6-----	tert-Butylbenzene.....	BDL	5
75-15-0-----	Carbon disulfide.....	BDL	5
56-23-5-----	Carbon tetrachloride.....	BDL	5
108-90-7-----	Chlorobenzene.....	BDL	5
75-00-3-----	Chloroethane.....	BDL	10
67-66-3-----	Chloroform.....	BDL	5
74-87-3-----	Chloromethane.....	BDL	10
95-49-8-----	2-Chlorotoluene.....	BDL	5
106-43-4-----	4-Chlorotoluene.....	BDL	5
110-75-8-----	2-Chloroethyl vinyl ether.....	BDL	10
124-48-1-----	Dibromochloromethane.....	BDL	5
96-12-8-----	1,2-Dibromo-3-chloropropane.....	BDL	5
106-93-4-----	1,2-Dibromoethane.....	BDL	5
74-95-3-----	Dibromomethane.....	BDL	5
95-50-1-----	1,2-Dichlorobenzene.....	BDL	5
541-73-1-----	1,3-Dichlorobenzene.....	BDL	5
106-46-7-----	1,4-Dichlorobenzene.....	BDL	5
75-71-8-----	Dichlorodifluoromethane.....	BDL	10
75-34-3-----	1,1-Dichloroethane.....	BDL	5
107-06-2-----	1,2-Dichloroethane.....	BDL	5
75-35-4-----	1,1-Dichloroethene.....	BDL	5
156-59-2-----	cis-1,2-Dichloroethene.....	BDL	5
156-60-5-----	trans-1,2-Dichloroethene.....	BDL	5
78-87-5-----	1,2-Dichloropropane.....	BDL	5

BDL = Below Detection Limit

J = Less Than Detection Limit, Approximate Value

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VOLATILE ORGANICS (cont'd) - SW-846, METHOD 5030B / 8260B

Client:	Geosciences, Inc.	Sample ID:	335/MW-6
	3202 Gillionville Road	ACL Sample No:	159027
	Albany GA 31707	ACL Project No:	33326
		Date Sampled:	09-05-00
Contact:	Ms. Alison Long	Date Extracted:	----
Project No:	ALE-00-335A/VAP Southeast	Date Analyzed:	09-09-00
Date Received:	09-06-00	Matrix:	Water
Date Reported:	10-09-00	Analyst:	TL

Cas No.	Compound	Result (µg/liter)	Detection Limit
142-28-9-----	1,3-Dichloropropane.....	BDL	5
594-20-7-----	2,2-Dichloropropane.....	BDL	5
563-58-6-----	1,1-Dichloropropene.....	BDL	5
10061-01-5-----	cis-1,3-Dichloropropene.....	BDL	5
10061-02-6-----	trans-1,3-Dichloropropene.....	BDL	5
100-41-4-----	Ethylbenzene.....	BDL	5
87-68-3-----	Hexachlorobutadiene.....	BDL	5
591-78-6-----	2-Hexanone.....	BDL	50
98-82-8-----	Isopropylbenzene.....	BDL	5
99-87-6-----	p-Isopropyltoluene.....	BDL	5
75-09-2-----	Methylene chloride.....	BDL	5
108-10-1-----	4-Methyl-2-pentanone (MIBK)	BDL	50
91-20-3-----	Naphthalene.....	BDL	5
103-65-1-----	n-Propylbenzene.....	BDL	5
100-42-5-----	Styrene.....	BDL	5
630-20-6-----	1,1,1,2-Tetrachloroethane.....	BDL	5
79-34-5-----	1,1,2,2-Tetrachloroethane.....	BDL	5
127-18-4-----	Tetrachloroethene.....	28	5
108-88-3-----	Toluene.....	BDL	5
87-61-6-----	1,2,3-Trichlorobenzene.....	BDL	5
120-82-1-----	1,2,4-Trichlorobenzene.....	BDL	5
71-55-6-----	1,1,1-Trichloroethane.....	BDL	5
79-00-5-----	1,1,2-Trichloroethane.....	BDL	5
79-01-6-----	Trichloroethene.....	BDL	5
75-69-4-----	Trichlorofluoromethane.....	BDL	5
96-18-4-----	1,2,3-Trichloropropane.....	BDL	5
95-63-6-----	1,2,4-Trimethylbenzene.....	BDL	5
108-67-8-----	1,3,5-Trimethylbenzene.....	BDL	5
108-05-4-----	Vinyl acetate.....	BDL	50
75-01-4-----	Vinyl chloride.....	BDL	2
95-47-6-----	o-Xylene.....	BDL	5
108-38-3/106-42-3	m&p-Xylenes.....	BDL	10

BDL = Below Detection Limit

J = Less Than Detection Limit, Approximate Value

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ORGANOCHLORINE PESTICIDES (8081A)

Client: Geosciences, Inc.
 3202 Gillionville Road
 Albany GA 31707

Client Project No: ALE-00-335A/VAP Southeast
 ACL Project No: 33326
 Date Received: 09-06-00
 Date Reported: 10-09-00

Contact: Ms. Alison Long

Sample ID:	335/MW-4	335/MW-5	335/MW-6
ACL Sample No:	159025	159026	159027
Date Sampled:	09-05-00	09-05-00	09-05-00
Date Extracted:	09-07-00	09-07-00	09-07-00
Date Analyzed:	10-06-00	10-07-00	10-07-00
Matrix:	Water	Water	Water
Units:	µg/liter	µg/liter	µg/liter
Analyst:	SS	SS	SS

Compound	Result	Det. Limit	Result	Det. Limit	Result	Det. Limit
Aldrin	BDL	0.10	BDL	0.10	BDL	0.10
a-BHC	BDL	0.10	BDL	0.10	BDL	0.10
b-BHC	BDL	0.10	BDL	0.10	BDL	0.10
d-BHC	BDL	0.10	BDL	0.10	BDL	0.10
g-BHC	BDL	0.10	BDL	0.10	BDL	0.10
Chlordane	BDL	0.20	BDL	0.20	BDL	0.20
4,4'-DDD	BDL	0.10	BDL	0.10	BDL	0.10
4,4'-DDE	BDL	0.10	BDL	0.10	BDL	0.10
4,4'-DDT	BDL	0.10	BDL	0.10	BDL	0.10
Dieldrin	BDL	0.10	BDL	0.10	BDL	0.10
Endosulfan I	BDL	0.10	BDL	0.10	BDL	0.10
Endosulfan II	BDL	0.10	BDL	0.10	BDL	0.10
Endosulfan sulfate	BDL	0.10	BDL	0.10	BDL	0.10
Endrin	BDL	0.10	BDL	0.10	BDL	0.10
Endrin aldehyde	BDL	0.10	BDL	0.10	BDL	0.10
Heptachlor	BDL	0.10	BDL	0.10	BDL	0.10
Heptachlor epoxide	BDL	0.10	BDL	0.10	BDL	0.10
Methoxychlor	BDL	0.20	BDL	0.20	BDL	0.10
Toxaphene	BDL	2.00	BDL	2.00	BDL	2.00

BDL = Below Detection Limit

J = Less Than Detection Limit, Approximate Value

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CHLORINATED HERBICIDES (8151A)

Client: Geosciences, Inc.
3202 Gillionville Road
Albany GA 31707

Client Project No: ALE-00-335A/VAP Southeast
ACL Project No: 33326
Date Received: 09-06-00
Date Reported: 10-09-00

Contact: Ms. Alison Long

Sample ID:	335/MW-4	335/MW-5	335/MW-6
ACL Sample No:	159025	159026	159027
Date Sampled:	09-05-00	09-05-00	09-05-00
Date Extracted:	09-07-00	09-07-00	09-07-00
Date Analyzed:	10-05-00	10-05-00	10-05-00
Matrix:	Water	Water	Water
Units:	µg/liter	µg/liter	µg/liter
Analyst:	SS	SS	SS

<u>Compound</u>	<u>Result</u>	<u>Det. Limit</u>	<u>Result</u>	<u>Det. Limit</u>	<u>Result</u>	<u>Det. Limit</u>
2,4-D	BDL	0.50	BDL	0.50	BDL	0.50
2,4-DB	BDL	0.50	BDL	0.50	BDL	0.50
2,4,5-T	BDL	0.20	BDL	0.20	BDL	0.20
2,4,5-TP (Silvex)	BDL	0.20	BDL	0.20	BDL	0.20
Dalapon	BDL	0.50	BDL	0.50	BDL	0.50
Dicamba	BDL	0.20	BDL	0.20	BDL	0.20
Dichloroprop	BDL	0.50	BDL	0.50	BDL	0.50
Dinoseb	BDL	0.25	BDL	0.25	BDL	0.25
MCPA	BDL	50.0	BDL	50.0	BDL	50.0
MCPP	BDL	100	BDL	100	BDL	100

BDL = Below Detection Limit

J = Less Than Detection Limit, Approximate Value

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Client: Geosciences, Inc.
3202 Gillionville Road
Albany GA 31707

VAP Southeast

Client Project No: ALE-00-335A

ACL Project No: 33326

Date Received: 09-06-00

Date Reported: 10-09-00

Contact: Ms. Alison Long

Nitrate-Nitrogen
(353.3) (mg/liter)

<u>Sample ID</u>	<u>ACL #</u>	<u>Matrix</u>	<u>Result</u>	<u>Det. Limit</u>	<u>Date Analyzed</u>
335/MW-4	159025	Water	78.0	5.00	09-13-00
335/MW-5	159026	Water	20.9	1.00	09-13-00
335/MW-6	159027	Water	58.6	5.00	09-13-00

BDL = Below Detection Limit

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Client: Geosciences, Inc.
3202 Gillionville Road
Albany GA 31707

VAP Southeast

Client Project No: ALE-00-335A
ACL Project No: 33326
Date Received: 09-06-00
Date Reported: 10-09-00

Contact: Ms. Alison Long

Total Arsenic
(6010B) (mg/liter)

<u>Sample ID</u>	<u>ACL #</u>	<u>Matrix</u>	<u>Result</u>	<u>Det. Limit</u>	<u>Date Analyzed</u>
335/MW-5	159026	Water	BDL	0.030	09-07-00
335/MW-6	159027	Water	BDL	0.030	09-07-00

BDL = Below Detection Limit

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POLYNUCLEAR AROMATIC HYDROCARBONS (8270C)

Client: Geosciences, Inc.
3202 Gillionville Road
Albany GA 31707

Client Project No: ALE-00-335A/VAP Southeast
ACL Project No: 33326
Date Received: 09-06-00
Date Reported: 10-09-00

Contact: Ms. Alison Long

Sample ID:	335/MW-5	335/MW-6	
ACL Sample No:	159026	159027	
Date Sampled:	09-05-00	09-05-00	
Date Extracted:	09-06-00	09-06-00	
Date Analyzed:	09-07-00	09-07-00	
Matrix:	Water	Water	
Units:	µg/liter	µg/liter	
Analyst:	RB	RB	

<u>Compound</u>	<u>Result</u>	<u>Det. Limit</u>	<u>Result</u>	<u>Det. Limit</u>	<u>Result</u>	<u>Det. Limit</u>
Acenaphthene	BDL	10	BDL	10		
Acenaphthylene	BDL	10	BDL	10		
Anthracene	BDL	10	BDL	10		
Benzo(a)anthracene	BDL	10	BDL	10		
Benzo(a)pyrene	BDL	10	BDL	10		
Benzo(b)fluoranthene	BDL	10	BDL	10		
Benzo(ghi)perylene	BDL	10	BDL	10		
Benzo(k)fluoranthene	BDL	10	BDL	10		
Chrysene	BDL	10	BDL	10		
Dibenzo(ah)anthracene	BDL	10	BDL	10		
Fluoranthene	BDL	10	BDL	10		
Fluorene	BDL	10	BDL	10		
Indeno(123-cd)pyrene	BDL	10	BDL	10		
2-Methyl naphthalene	BDL	10	BDL	10		
Naphthalene	BDL	10	BDL	10		
Phenanthrene	BDL	10	BDL	10		
Pyrene	BDL	10	BDL	10		

BDL = Below Detection Limit

J = Less Than Detection Limit, Approximate Value

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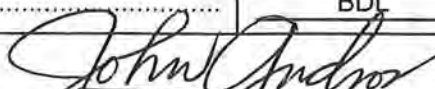
VOLATILE ORGANICS - SW-846, METHOD 5035 / 8260B

Client:	Geosciences, Inc.	Sample ID:	MW-4 (8.5-10')
	3202 Gillionville Road	ACL Sample No:	158981
	Albany GA 31707	ACL Project No:	33316
		Date Sampled:	08-28-00
Contact:	Ms. Alison Long	Date Extracted:	08-28-00
Project No:	ALE-00-335A/FFM Main Facility	Date Analyzed:	09-06-00
Date Received:	09-05-00	Matrix:	Soil
Date Reported:	10-09-00	Analyst:	TL

Cas No.	Compound	Result (mg/kg)	Detection Limit
67-64-1-----	Acetone.....	BDL	0.100
107-02-8-----	Acrolein.....	BDL	0.050
107-13-1-----	Acrylonitrile.....	BDL	0.050
71-43-2-----	Benzene.....	BDL	0.005
108-86-1-----	Bromobenzene.....	BDL	0.005
74-97-5-----	Bromochloromethane.....	BDL	0.005
75-27-4-----	Bromodichloromethane.....	BDL	0.005
75-25-2-----	Bromoform.....	BDL	0.005
74-83-9-----	Bromomethane.....	BDL	0.010
78-93-3-----	2-Butanone (MEK)	BDL	0.100
104-51-8-----	n-Butylbenzene.....	BDL	0.005
135-98-8-----	sec-Butylbenzene.....	BDL	0.005
98-06-6-----	tert-Butylbenzene.....	BDL	0.005
75-15-0-----	Carbon disulfide.....	BDL	0.005
56-23-5-----	Carbon tetrachloride.....	BDL	0.005
108-90-7-----	Chlorobenzene.....	BDL	0.005
75-00-3-----	Chloroethane.....	BDL	0.010
67-66-3-----	Chloroform.....	BDL	0.005
74-87-3-----	Chloromethane.....	BDL	0.010
95-49-8-----	2-Chlorotoluene.....	BDL	0.005
106-43-4-----	4-Chlorotoluene.....	BDL	0.005
110-75-8-----	2-Chloroethyl vinyl ether.....	BDL	0.010
124-48-1-----	Dibromochloromethane.....	BDL	0.005
96-12-8-----	1,2-Dibromo-3-chloropropane.....	BDL	0.005
106-93-4-----	1,2-Dibromoethane.....	BDL	0.005
74-95-3-----	Dibromomethane.....	BDL	0.005
95-50-1-----	1,2-Dichlorobenzene.....	BDL	0.005
541-73-1-----	1,3-Dichlorobenzene.....	BDL	0.005
106-46-7-----	1,4-Dichlorobenzene.....	BDL	0.005
75-71-8-----	Dichlorodifluoromethane.....	BDL	0.010
75-34-3-----	1,1-Dichloroethane.....	BDL	0.005
107-06-2-----	1,2-Dichloroethane.....	BDL	0.005
75-35-4-----	1,1-Dichloroethene.....	BDL	0.005
156-59-2-----	cis-1,2-Dichloroethene.....	BDL	0.005
156-60-5-----	trans-1,2-Dichloroethene.....	BDL	0.005
78-87-5-----	1,2-Dichloropropane.....	BDL	0.005

BDL = Below Detection Limit

J = Less Than Detection Limit, Approximate Value


John Andros, Lab Manager



ADVANCED CHEMISTRY LABS, INC.

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Fax: (770) 409-1844
Outside GA: (800) 277-0520
e-mail: acl@mindspring.com

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VOLATILE ORGANICS (cont'd) - SW-846, METHOD 5035 / 8260B

Client:	Geosciences, Inc.	Sample ID:	MW-4 (8.5-10')
	3202 Gillionville Road	ACL Sample No:	158981
	Albany GA 31707	ACL Project No:	33316
		Date Sampled:	08-28-00
Contact:	Ms. Alison Long	Date Extracted:	08-28-00
Project No:	ALE-00-335A/FFM Main Facility	Date Analyzed:	09-06-00
Date Received:	09-05-00	Matrix:	Soil
Date Reported:	10-09-00	Analyst:	TL

Cas No.	Compound	Result (mg/kg)	Detection Limit
142-28-9-----	1,3-Dichloropropane.....	BDL	0.005
594-20-7-----	2,2-Dichloropropane.....	BDL	0.005
563-58-6-----	1,1-Dichloropropene.....	BDL	0.005
10061-01-5-----	cis-1,3-Dichloropropene.....	BDL	0.005
10061-02-6-----	trans-1,3-Dichloropropene.....	BDL	0.005
100-41-4-----	Ethylbenzene.....	BDL	0.005
87-68-3-----	Hexachlorobutadiene.....	BDL	0.005
591-78-6-----	2-Hexanone.....	BDL	0.050
98-82-8-----	Isopropylbenzene.....	BDL	0.005
99-87-6-----	p-Isopropyltoluene.....	BDL	0.005
75-09-2-----	Methylene chloride.....	BDL	0.005
108-10-1-----	4-Methyl-2-pentanone (MIBK)	BDL	0.050
91-20-3-----	Naphthalene.....	BDL	0.005
103-65-1-----	n-Propylbenzene.....	BDL	0.005
100-42-5-----	Styrene.....	BDL	0.005
630-20-6-----	1,1,1,2-Tetrachloroethane.....	BDL	0.005
79-34-5-----	1,1,2,2-Tetrachloroethane.....	BDL	0.005
127-18-4-----	Tetrachloroethene.....	BDL	0.005
108-88-3-----	Toluene.....	BDL	0.005
87-61-6-----	1,2,3-Trichlorobenzene.....	BDL	0.005
120-82-1-----	1,2,4-Trichlorobenzene.....	BDL	0.005
71-55-6-----	1,1,1-Trichloroethane.....	BDL	0.005
79-00-5-----	1,1,2-Trichloroethane.....	BDL	0.005
79-01-6-----	Trichloroethene.....	BDL	0.005
75-69-4-----	Trichlorofluoromethane.....	BDL	0.005
96-18-4-----	1,2,3-Trichloropropane.....	BDL	0.005
95-63-6-----	1,2,4-Trimethylbenzene.....	BDL	0.005
108-67-8-----	1,3,5-Trimethylbenzene.....	BDL	0.005
108-05-4-----	Vinyl acetate.....	BDL	0.050
75-01-4-----	Vinyl chloride.....	BDL	0.010
95-47-6-----	o-Xylene.....	BDL	0.005
108-38-3/106-42-3	m&p-Xylenes.....	BDL	0.010

BDL = Below Detection Limit

J = Less Than Detection Limit, Approximate Value

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Fax: (770) 409-1844

Outside GA: (800) 277-0520

e-mail: acl@mindspring.com

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VOLATILE ORGANICS - SW-846, METHOD 5035 / 8260B

Client:	Geosciences, Inc.	Sample ID:	MW-5 (3.5-5')
	3202 Gillionville Road	ACL Sample No:	158982
	Albany GA 31707	ACL Project No:	33316
		Date Sampled:	08-28-00
Contact:	Ms. Alison Long	Date Extracted:	08-28-00
Project No:	ALE-00-335A/FFM Main Facility	Date Analyzed:	09-06-00
Date Received:	09-05-00	Matrix:	Soil
Date Reported:	10-09-00	Analyst:	TL

Cas No.	Compound	Result (mg/kg)	Detection Limit
67-64-1-----	Acetone.....	BDL	0.100
107-02-8-----	Acrolein.....	BDL	0.050
107-13-1-----	Acrylonitrile.....	BDL	0.050
71-43-2-----	Benzene.....	BDL	0.005
108-86-1-----	Bromobenzene.....	BDL	0.005
74-97-5-----	Bromochloromethane.....	BDL	0.005
75-27-4-----	Bromodichloromethane.....	BDL	0.005
75-25-2-----	Bromoform.....	BDL	0.005
74-83-9-----	Bromomethane.....	BDL	0.010
78-93-3-----	2-Butanone (MEK)	BDL	0.100
104-51-8-----	n-Butylbenzene.....	BDL	0.005
135-98-8-----	sec-Butylbenzene.....	BDL	0.005
98-06-6-----	tert-Butylbenzene.....	BDL	0.005
75-15-0-----	Carbon disulfide.....	BDL	0.005
56-23-5-----	Carbon tetrachloride.....	BDL	0.005
108-90-7-----	Chlorobenzene.....	BDL	0.005
75-00-3-----	Chloroethane.....	BDL	0.010
67-66-3-----	Chloroform.....	BDL	0.005
74-87-3-----	Chloromethane.....	BDL	0.010
95-49-8-----	2-Chlorotoluene.....	BDL	0.005
106-43-4-----	4-Chlorotoluene.....	BDL	0.005
110-75-8-----	2-Chloroethyl vinyl ether.....	BDL	0.010
124-48-1-----	Dibromochloromethane.....	BDL	0.005
96-12-8-----	1,2-Dibromo-3-chloropropane.....	BDL	0.005
106-93-4-----	1,2-Dibromoethane.....	BDL	0.005
74-95-3-----	Dibromomethane.....	BDL	0.005
95-50-1-----	1,2-Dichlorobenzene.....	BDL	0.005
541-73-1-----	1,3-Dichlorobenzene.....	BDL	0.005
106-46-7-----	1,4-Dichlorobenzene.....	BDL	0.005
75-71-8-----	Dichlorodifluoromethane.....	BDL	0.010
75-34-3-----	1,1-Dichloroethane.....	BDL	0.005
107-06-2-----	1,2-Dichloroethane.....	BDL	0.005
75-35-4-----	1,1-Dichloroethene.....	BDL	0.005
156-59-2-----	cis-1,2-Dichloroethene.....	BDL	0.005
156-60-5-----	trans-1,2-Dichloroethene.....	BDL	0.005
78-87-5-----	1,2-Dichloropropane.....	BDL	0.005

BDL = Below Detection Limit

J = Less Than Detection Limit, Approximate Value

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VOLATILE ORGANICS (cont'd) - SW-846, METHOD 5035 / 8260B

Client:	Geosciences, Inc.	Sample ID:	MW-5 (3.5-5')
	3202 Gillionville Road	ACL Sample No:	158982
	Albany GA 31707	ACL Project No:	33316
Contact:	Ms. Alison Long	Date Sampled:	08-28-00
Project No:	ALE-00-335A/FFM Main Facility	Date Extracted:	08-28-00
Date Received:	09-05-00	Date Analyzed:	09-06-00
Date Reported:	10-09-00	Matrix:	Soil
		Analyst:	TL

Cas No.	Compound	Result (mg/kg)	Detection Limit
142-28-9-----	1,3-Dichloropropane.....	BDL	0.005
594-20-7-----	2,2-Dichloropropane.....	BDL	0.005
563-58-6-----	1,1-Dichloropropene.....	BDL	0.005
10061-01-5-----	cis-1,3-Dichloropropene.....	BDL	0.005
10061-02-6-----	trans-1,3-Dichloropropene.....	BDL	0.005
100-41-4-----	Ethylbenzene.....	BDL	0.005
87-68-3-----	Hexachlorobutadiene.....	BDL	0.005
591-78-6-----	2-Hexanone.....	BDL	0.050
98-82-8-----	Isopropylbenzene.....	BDL	0.005
99-87-6-----	p-Isopropyltoluene.....	BDL	0.005
75-09-2-----	Methylene chloride.....	BDL	0.005
108-10-1-----	4-Methyl-2-pentanone (MIBK)	BDL	0.050
91-20-3-----	Naphthalene.....	BDL	0.005
103-65-1-----	n-Propylbenzene.....	BDL	0.005
100-42-5-----	Styrene.....	BDL	0.005
630-20-6-----	1,1,1,2-Tetrachloroethane.....	BDL	0.005
79-34-5-----	1,1,2,2-Tetrachloroethane.....	BDL	0.005
127-18-4-----	Tetrachloroethene.....	BDL	0.005
108-88-3-----	Toluene.....	BDL	0.005
87-61-6-----	1,2,3-Trichlorobenzene.....	BDL	0.005
120-82-1-----	1,2,4-Trichlorobenzene.....	BDL	0.005
71-55-6-----	1,1,1-Trichloroethane.....	BDL	0.005
79-00-5-----	1,1,2-Trichloroethane.....	BDL	0.005
79-01-6-----	Trichloroethene.....	BDL	0.005
75-69-4-----	Trichlorofluoromethane.....	BDL	0.005
96-18-4-----	1,2,3-Trichloropropane.....	BDL	0.005
95-63-6-----	1,2,4-Trimethylbenzene.....	BDL	0.005
108-67-8-----	1,3,5-Trimethylbenzene.....	BDL	0.005
108-05-4-----	Vinyl acetate.....	BDL	0.050
75-01-4-----	Vinyl chloride.....	BDL	0.010
95-47-6-----	o-Xylene.....	BDL	0.005
108-38-3/106-42-3	m&p-Xylenes.....	BDL	0.010

BDL = Below Detection Limit

J = Less Than Detection Limit, Approximate Value

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VOLATILE ORGANICS - SW-846, METHOD 5035 / 8260B

Client:	Geosciences, Inc.	Sample ID:	MW-5 (18.5-20')
	3202 Gillionville Road	ACL Sample No:	158983
	Albany GA 31707	ACL Project No:	33316
		Date Sampled:	08-29-00
Contact:	Ms. Alison Long	Date Extracted:	08-29-00
Project No:	ALE-00-335A/FFM Main Facility	Date Analyzed:	09-06-00
Date Received:	09-05-00	Matrix:	Soil
Date Reported:	10-09-00	Analyst:	TL

Cas No.	Compound	Result (mg/kg)	Detection Limit
67-64-1-----	Acetone.....	BDL	0.100
107-02-8-----	Acrolein.....	BDL	0.050
107-13-1-----	Acrylonitrile.....	BDL	0.050
71-43-2-----	Benzene.....	BDL	0.005
108-86-1-----	Bromobenzene.....	BDL	0.005
74-97-5-----	Bromochloromethane.....	BDL	0.005
75-27-4-----	Bromodichloromethane.....	BDL	0.005
75-25-2-----	Bromoform.....	BDL	0.005
74-83-9-----	Bromomethane.....	BDL	0.010
78-93-3-----	2-Butanone (MEK)	BDL	0.100
104-51-8-----	n-Butylbenzene.....	BDL	0.005
135-98-8-----	sec-Butylbenzene.....	BDL	0.005
98-06-6-----	tert-Butylbenzene.....	BDL	0.005
75-15-0-----	Carbon disulfide.....	0.008	0.005
56-23-5-----	Carbon tetrachloride.....	BDL	0.005
108-90-7-----	Chlorobenzene.....	BDL	0.005
75-00-3-----	Chloroethane.....	BDL	0.010
67-66-3-----	Chloroform.....	BDL	0.005
74-87-3-----	Chloromethane.....	BDL	0.010
95-49-8-----	2-Chlorotoluene.....	BDL	0.005
106-43-4-----	4-Chlorotoluene.....	BDL	0.005
110-75-8-----	2-Chloroethyl vinyl ether.....	BDL	0.010
124-48-1-----	Dibromochloromethane.....	BDL	0.005
96-12-8-----	1,2-Dibromo-3-chloropropane.....	BDL	0.005
106-93-4-----	1,2-Dibromoethane.....	BDL	0.005
74-95-3-----	Dibromomethane.....	BDL	0.005
95-50-1-----	1,2-Dichlorobenzene.....	BDL	0.005
541-73-1-----	1,3-Dichlorobenzene.....	BDL	0.005
106-46-7-----	1,4-Dichlorobenzene.....	BDL	0.005
75-71-8-----	Dichlorodifluoromethane.....	BDL	0.010
75-34-3-----	1,1-Dichloroethane.....	BDL	0.005
107-06-2-----	1,2-Dichloroethane.....	BDL	0.005
75-35-4-----	1,1-Dichloroethene.....	BDL	0.005
156-59-2-----	cis-1,2-Dichloroethene.....	BDL	0.005
156-60-5-----	trans-1,2-Dichloroethene.....	BDL	0.005
78-87-5-----	1,2-Dichloropropane.....	BDL	0.005

BDL = Below Detection Limit

J = Less Than Detection Limit, Approximate Value

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VOLATILE ORGANICS (cont'd) - SW-846, METHOD 5035 / 8260B

Client:	Geosciences, Inc.	Sample ID:	MW-5 (18.5-20')
	3202 Gillionville Road	ACL Sample No:	158983
	Albany GA 31707	ACL Project No:	33316
		Date Sampled:	08-29-00
Contact:	Ms. Alison Long	Date Extracted:	08-29-00
Project No:	ALE-00-335A/FFM Main Facility	Date Analyzed:	09-06-00
Date Received:	09-05-00	Matrix:	Soil
Date Reported:	10-09-00	Analyst:	TL

Cas No.	Compound	Result (mg/kg)	Detection Limit
142-28-9-----	1,3-Dichloropropane.....	BDL	0.005
594-20-7-----	2,2-Dichloropropane.....	BDL	0.005
563-58-6-----	1,1-Dichloropropene.....	BDL	0.005
10061-01-5-----	cis-1,3-Dichloropropene.....	BDL	0.005
10061-02-6-----	trans-1,3-Dichloropropene.....	BDL	0.005
100-41-4-----	Ethylbenzene.....	BDL	0.005
87-68-3-----	Hexachlorobutadiene.....	BDL	0.005
591-78-6-----	2-Hexanone.....	BDL	0.050
98-82-8-----	Isopropylbenzene.....	BDL	0.005
99-87-6-----	p-Isopropyltoluene.....	BDL	0.005
75-09-2-----	Methylene chloride.....	BDL	0.005
108-10-1-----	4-Methyl-2-pentanone (MIBK)	BDL	0.050
91-20-3-----	Naphthalene.....	BDL	0.005
103-65-1-----	n-Propylbenzene.....	BDL	0.005
100-42-5-----	Styrene.....	BDL	0.005
630-20-6-----	1,1,1,2-Tetrachloroethane.....	BDL	0.005
79-34-5-----	1,1,2,2-Tetrachloroethane.....	BDL	0.005
127-18-4-----	Tetrachloroethene.....	BDL	0.005
108-88-3-----	Toluene.....	BDL	0.005
87-61-6-----	1,2,3-Trichlorobenzene.....	BDL	0.005
120-82-1-----	1,2,4-Trichlorobenzene.....	BDL	0.005
71-55-6-----	1,1,1-Trichloroethane.....	BDL	0.005
79-00-5-----	1,1,2-Trichloroethane.....	BDL	0.005
79-01-6-----	Trichloroethene.....	BDL	0.005
75-69-4-----	Trichlorofluoromethane.....	BDL	0.005
96-18-4-----	1,2,3-Trichloropropane.....	BDL	0.005
95-63-6-----	1,2,4-Trimethylbenzene.....	BDL	0.005
108-67-8-----	1,3,5-Trimethylbenzene.....	BDL	0.005
108-05-4-----	Vinyl acetate.....	BDL	0.050
75-01-4-----	Vinyl chloride.....	BDL	0.010
95-47-6-----	o-Xylene.....	BDL	0.005
108-38-3/106-42-3	m&p-Xylenes.....	BDL	0.010

BDL = Below Detection Limit

J = Less Than Detection Limit, Approximate Value

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VOLATILE ORGANICS - SW-846, METHOD 5035 / 8260B

Client:	Geosciences, Inc.	Sample ID:	MW-6 (18.5-20')
	3202 Gillionville Road	ACL Sample No:	158984
	Albany GA 31707	ACL Project No:	33316
		Date Sampled:	08-30-00
Contact:	Ms. Alison Long	Date Extracted:	08-30-00
Project No:	ALE-00-335A/FFM Main Facility	Date Analyzed:	09-06-00
Date Received:	09-05-00	Matrix:	Soil
Date Reported:	10-09-00	Analyst:	TL

Cas No.	Compound	Result (mg/kg)	Detection Limit
67-64-1	Acetone	BDL	0.100
107-02-8	Acrolein	BDL	0.050
107-13-1	Acrylonitrile	BDL	0.050
71-43-2	Benzene	BDL	0.005
108-86-1	Bromobenzene	BDL	0.005
74-97-5	Bromochloromethane	BDL	0.005
75-27-4	Bromodichloromethane	BDL	0.005
75-25-2	Bromoform	BDL	0.005
74-83-9	Bromomethane	BDL	0.010
78-93-3	2-Butanone (MEK)	BDL	0.100
104-51-8	n-Butylbenzene	BDL	0.005
135-98-8	sec-Butylbenzene	BDL	0.005
98-06-6	tert-Butylbenzene	BDL	0.005
75-15-0	Carbon disulfide	BDL	0.005
56-23-5	Carbon tetrachloride	BDL	0.005
108-90-7	Chlorobenzene	BDL	0.005
75-00-3	Chloroethane	BDL	0.010
67-66-3	Chloroform	BDL	0.005
74-87-3	Chloromethane	BDL	0.010
95-49-8	2-Chlorotoluene	BDL	0.005
106-43-4	4-Chlorotoluene	BDL	0.005
110-75-8	2-Chloroethyl vinyl ether	BDL	0.010
124-48-1	Dibromochloromethane	BDL	0.005
96-12-8	1,2-Dibromo-3-chloropropane	BDL	0.005
106-93-4	1,2-Dibromoethane	BDL	0.005
74-95-3	Dibromomethane	BDL	0.005
95-50-1	1,2-Dichlorobenzene	BDL	0.005
541-73-1	1,3-Dichlorobenzene	BDL	0.005
106-46-7	1,4-Dichlorobenzene	BDL	0.005
75-71-8	Dichlorodifluoromethane	BDL	0.010
75-34-3	1,1-Dichloroethane	BDL	0.005
107-06-2	1,2-Dichloroethane	BDL	0.005
75-35-4	1,1-Dichloroethene	BDL	0.005
156-59-2	cis-1,2-Dichloroethene	BDL	0.005
156-60-5	trans-1,2-Dichloroethene	BDL	0.005
78-87-5	1,2-Dichloropropane	BDL	0.005

BDL = Below Detection Limit

J = Less Than Detection Limit, Approximate Value

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VOLATILE ORGANICS (cont'd) - SW-846, METHOD 5035 / 8260B

Client:	Geosciences, Inc.	Sample ID:	MW-6 (18.5-20')
	3202 Gillionville Road	ACL Sample No:	158984
	Albany GA 31707	ACL Project No:	33316
Contact:	Ms. Alison Long	Date Sampled:	08-30-00
Project No:	ALE-00-335A/FFM Main Facility	Date Extracted:	08-30-00
Date Received:	09-05-00	Date Analyzed:	09-06-00
Date Reported:	10-09-00	Matrix:	Soil
		Analyst:	TL

Cas No.	Compound	Result (mg/kg)	Detection Limit
142-28-9	1,3-Dichloropropane	BDL	0.005
594-20-7	2,2-Dichloropropane	BDL	0.005
563-58-6	1,1-Dichloropropene	BDL	0.005
10061-01-5	cis-1,3-Dichloropropene	BDL	0.005
10061-02-6	trans-1,3-Dichloropropene	BDL	0.005
100-41-4	Ethylbenzene	BDL	0.005
87-68-3	Hexachlorobutadiene	BDL	0.005
591-78-6	2-Hexanone	BDL	0.050
98-82-8	Isopropylbenzene	BDL	0.005
99-87-6	p-Isopropyltoluene	BDL	0.005
75-09-2	Methylene chloride	BDL	0.005
108-10-1	4-Methyl-2-pentanone (MIBK)	BDL	0.050
91-20-3	Naphthalene	BDL	0.005
103-65-1	n-Propylbenzene	BDL	0.005
100-42-5	Styrene	BDL	0.005
630-20-6	1,1,1,2-Tetrachloroethane	BDL	0.005
79-34-5	1,1,2,2-Tetrachloroethane	BDL	0.005
127-18-4	Tetrachloroethene	BDL	0.005
108-88-3	Toluene	BDL	0.005
87-61-6	1,2,3-Trichlorobenzene	BDL	0.005
120-82-1	1,2,4-Trichlorobenzene	BDL	0.005
71-55-6	1,1,1-Trichloroethane	BDL	0.005
79-00-5	1,1,2-Trichloroethane	BDL	0.005
79-01-6	Trichloroethene	BDL	0.005
75-69-4	Trichlorofluoromethane	BDL	0.005
96-18-4	1,2,3-Trichloropropane	BDL	0.005
95-63-6	1,2,4-Trimethylbenzene	BDL	0.005
108-67-8	1,3,5-Trimethylbenzene	BDL	0.005
108-05-4	Vinyl acetate	BDL	0.050
75-01-4	Vinyl chloride	BDL	0.010
95-47-6	o-Xylene	BDL	0.005
108-38-3/106-42-3	m&p-Xylenes	BDL	0.010

BDL = Below Detection Limit

J = Less Than Detection Limit, Approximate Value

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VOLATILE ORGANICS - SW-846, METHOD 5035 / 8260B

Client:	Geosciences, Inc.	Sample ID:	Weld Shop (1.5-2')
	3202 Gillionville Road	ACL Sample No:	158985
	Albany GA 31707	ACL Project No:	33316
		Date Sampled:	08-30-00
Contact:	Ms. Alison Long	Date Extracted:	08-30-00
Project No:	ALE-00-335A/FFM Main Facility	Date Analyzed:	09-06-00
Date Received:	09-05-00	Matrix:	Soil
Date Reported:	10-09-00	Analyst:	TL

Cas No.	Compound	Result (mg/kg)	Detection Limit
67-64-1-----	Acetone.....	BDL	0.100
107-02-8-----	Acrolein.....	BDL	0.050
107-13-1-----	Acrylonitrile.....	BDL	0.050
71-43-2-----	Benzene.....	BDL	0.005
108-86-1-----	Bromobenzene.....	BDL	0.005
74-97-5-----	Bromochloromethane.....	BDL	0.005
75-27-4-----	Bromodichloromethane.....	BDL	0.005
75-25-2-----	Bromoform.....	BDL	0.005
74-83-9-----	Bromomethane.....	BDL	0.010
78-93-3-----	2-Butanone (MEK)	BDL	0.100
104-51-8-----	n-Butylbenzene.....	BDL	0.005
135-98-8-----	sec-Butylbenzene.....	BDL	0.005
98-06-6-----	tert-Butylbenzene.....	BDL	0.005
75-15-0-----	Carbon disulfide.....	BDL	0.005
56-23-5-----	Carbon tetrachloride.....	BDL	0.005
108-90-7-----	Chlorobenzene.....	BDL	0.005
75-00-3-----	Chloroethane.....	BDL	0.010
67-66-3-----	Chloroform.....	BDL	0.005
74-87-3-----	Chloromethane.....	BDL	0.010
95-49-8-----	2-Chlorotoluene.....	BDL	0.005
106-43-4-----	4-Chlorotoluene.....	BDL	0.005
110-75-8-----	2-Chloroethyl vinyl ether.....	BDL	0.010
124-48-1-----	Dibromochloromethane.....	BDL	0.005
96-12-8-----	1,2-Dibromo-3-chloropropane.....	BDL	0.005
106-93-4-----	1,2-Dibromoethane.....	BDL	0.005
74-95-3-----	Dibromomethane.....	BDL	0.005
95-50-1-----	1,2-Dichlorobenzene.....	BDL	0.005
541-73-1-----	1,3-Dichlorobenzene.....	BDL	0.005
106-46-7-----	1,4-Dichlorobenzene.....	BDL	0.005
75-71-8-----	Dichlorodifluoromethane.....	BDL	0.010
75-34-3-----	1,1-Dichloroethane.....	BDL	0.005
107-06-2-----	1,2-Dichloroethane.....	BDL	0.005
75-35-4-----	1,1-Dichloroethene.....	BDL	0.005
156-59-2-----	cis-1,2-Dichloroethene.....	BDL	0.005
156-60-5-----	trans-1,2-Dichloroethene.....	BDL	0.005
78-87-5-----	1,2-Dichloropropane.....	BDL	0.005

BDL = Below Detection Limit

J = Less Than Detection Limit, Approximate Value

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VOLATILE ORGANICS (cont'd) - SW-846, METHOD 5035 / 8260B

Client:	Geosciences, Inc.	Sample ID:	Weld Shop (1.5-2')
	3202 Gillionville Road	ACL Sample No:	158985
	Albany GA 31707	ACL Project No:	33316
Contact:	Ms. Alison Long	Date Sampled:	08-30-00
Project No:	ALE-00-335A/FFM Main Facility	Date Extracted:	08-30-00
Date Received:	09-05-00	Date Analyzed:	09-06-00
Date Reported:	10-09-00	Matrix:	Soil
		Analyst:	TL

Cas No.	Compound	Result (mg/kg)	Detection Limit
142-28-9-----	1,3-Dichloropropane.....	BDL	0.005
594-20-7-----	2,2-Dichloropropane.....	BDL	0.005
563-58-6-----	1,1-Dichloropropene.....	BDL	0.005
10061-01-5-----	cis-1,3-Dichloropropene.....	BDL	0.005
10061-02-6-----	trans-1,3-Dichloropropene.....	BDL	0.005
100-41-4-----	Ethylbenzene.....	BDL	0.005
87-68-3-----	Hexachlorobutadiene.....	BDL	0.005
591-78-6-----	2-Hexanone.....	BDL	0.050
98-82-8-----	Isopropylbenzene.....	BDL	0.005
99-87-6-----	p-Isopropyltoluene.....	BDL	0.005
75-09-2-----	Methylene chloride.....	BDL	0.005
108-10-1-----	4-Methyl-2-pentanone (MIBK)	BDL	0.050
91-20-3-----	Naphthalene.....	BDL	0.005
103-65-1-----	n-Propylbenzene.....	BDL	0.005
100-42-5-----	Styrene.....	BDL	0.005
630-20-6-----	1,1,1,2-Tetrachloroethane.....	BDL	0.005
79-34-5-----	1,1,2,2-Tetrachloroethane.....	BDL	0.005
127-18-4-----	Tetrachloroethene.....	BDL	0.005
108-88-3-----	Toluene.....	BDL	0.005
87-61-6-----	1,2,3-Trichlorobenzene.....	BDL	0.005
120-82-1-----	1,2,4-Trichlorobenzene.....	BDL	0.005
71-55-6-----	1,1,1-Trichloroethane.....	BDL	0.005
79-00-5-----	1,1,2-Trichloroethane.....	BDL	0.005
79-01-6-----	Trichloroethene.....	BDL	0.005
75-69-4-----	Trichlorofluoromethane.....	BDL	0.005
96-18-4-----	1,2,3-Trichloropropane.....	BDL	0.005
95-63-6-----	1,2,4-Trimethylbenzene.....	BDL	0.005
108-67-8-----	1,3,5-Trimethylbenzene.....	BDL	0.005
108-05-4-----	Vinyl acetate.....	BDL	0.050
75-01-4-----	Vinyl chloride.....	BDL	0.010
95-47-6-----	o-Xylene.....	BDL	0.005
108-38-3/106-42-3	m&p-Xylenes.....	BDL	0.010

BDL = Below Detection Limit

J = Less Than Detection Limit, Approximate Value

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VOLATILE ORGANICS - SW-846, METHOD 5035 / 8260B

Client:	Geosciences, Inc.	Sample ID:	Evap Area (1.5-2')
	3202 Gillionville Road	ACL Sample No:	158986
	Albany GA 31707	ACL Project No:	33316
		Date Sampled:	08-30-00
Contact:	Ms. Alison Long	Date Extracted:	08-30-00
Project No:	ALE-00-335A/FFM Main Facility	Date Analyzed:	09-06-00
Date Received:	09-05-00	Matrix:	Soil
Date Reported:	10-09-00	Analyst:	TL

Cas No.	Compound	Result (mg/kg)	Detection Limit
67-64-1-----	Acetone.....	BDL	0.100
107-02-8-----	Acrolein.....	BDL	0.050
107-13-1-----	Acrylonitrile.....	BDL	0.050
71-43-2-----	Benzene.....	BDL	0.005
108-86-1-----	Bromobenzene.....	BDL	0.005
74-97-5-----	Bromochloromethane.....	BDL	0.005
75-27-4-----	Bromodichloromethane.....	BDL	0.005
75-25-2-----	Bromoform.....	BDL	0.005
74-83-9-----	Bromomethane.....	BDL	0.010
78-93-3-----	2-Butanone (MEK)	BDL	0.100
104-51-8-----	n-Butylbenzene.....	BDL	0.005
135-98-8-----	sec-Butylbenzene.....	BDL	0.005
98-06-6-----	tert-Butylbenzene.....	BDL	0.005
75-15-0-----	Carbon disulfide.....	BDL	0.005
56-23-5-----	Carbon tetrachloride.....	BDL	0.005
108-90-7-----	Chlorobenzene.....	BDL	0.005
75-00-3-----	Chloroethane.....	BDL	0.010
67-66-3-----	Chloroform.....	BDL	0.005
74-87-3-----	Chloromethane.....	BDL	0.010
95-49-8-----	2-Chlorotoluene.....	BDL	0.005
106-43-4-----	4-Chlorotoluene.....	BDL	0.005
110-75-8-----	2-Chloroethyl vinyl ether.....	BDL	0.010
124-48-1-----	Dibromochloromethane.....	BDL	0.005
96-12-8-----	1,2-Dibromo-3-chloropropane.....	BDL	0.005
106-93-4-----	1,2-Dibromoethane.....	BDL	0.005
74-95-3-----	Dibromomethane.....	BDL	0.005
95-50-1-----	1,2-Dichlorobenzene.....	BDL	0.005
541-73-1-----	1,3-Dichlorobenzene.....	BDL	0.005
106-46-7-----	1,4-Dichlorobenzene.....	BDL	0.005
75-71-8-----	Dichlorodifluoromethane.....	BDL	0.010
75-34-3-----	1,1-Dichloroethane.....	BDL	0.005
107-06-2-----	1,2-Dichloroethane.....	BDL	0.005
75-35-4-----	1,1-Dichloroethene.....	BDL	0.005
156-59-2-----	cis-1,2-Dichloroethene.....	BDL	0.005
156-60-5-----	trans-1,2-Dichloroethene.....	BDL	0.005
78-87-5-----	1,2-Dichloropropane.....	BDL	0.005

BDL = Below Detection Limit

J = Less Than Detection Limit, Approximate Value

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VOLATILE ORGANICS (cont'd) - SW-846, METHOD 5035 / 8260B

Client:	Geosciences, Inc.	Sample ID:	Evap Area (1.5-2')
	3202 Gillionville Road	ACL Sample No:	158986
	Albany GA 31707	ACL Project No:	33316
		Date Sampled:	08-30-00
Contact:	Ms. Alison Long	Date Extracted:	08-30-00
Project No:	ALE-00-335A/FFM Main Facility	Date Analyzed:	09-06-00
Date Received:	09-05-00	Matrix:	Soil
Date Reported:	10-09-00	Analyst:	TL

Cas No.	Compound	Result (mg/kg)	Detection Limit
142-28-9	1,3-Dichloropropane	BDL	0.005
594-20-7	2,2-Dichloropropane	BDL	0.005
563-58-6	1,1-Dichloropropene	BDL	0.005
10061-01-5	cis-1,3-Dichloropropene	BDL	0.005
10061-02-6	trans-1,3-Dichloropropene	BDL	0.005
100-41-4	Ethylbenzene	BDL	0.005
87-68-3	Hexachlorobutadiene	BDL	0.005
591-78-6	2-Hexanone	BDL	0.050
98-82-8	Isopropylbenzene	BDL	0.005
99-87-6	p-Isopropyltoluene	BDL	0.005
75-09-2	Methylene chloride	BDL	0.005
108-10-1	4-Methyl-2-pentanone (MIBK)	BDL	0.050
91-20-3	Naphthalene	BDL	0.005
103-65-1	n-Propylbenzene	BDL	0.005
100-42-5	Styrene	BDL	0.005
630-20-6	1,1,1,2-Tetrachloroethane	BDL	0.005
79-34-5	1,1,2,2-Tetrachloroethane	BDL	0.005
127-18-4	Tetrachloroethene	BDL	0.005
108-88-3	Toluene	BDL	0.005
87-61-6	1,2,3-Trichlorobenzene	BDL	0.005
120-82-1	1,2,4-Trichlorobenzene	BDL	0.005
71-55-6	1,1,1-Trichloroethane	BDL	0.005
79-00-5	1,1,2-Trichloroethane	BDL	0.005
79-01-6	Trichloroethene	BDL	0.005
75-69-4	Trichlorofluoromethane	BDL	0.005
96-18-4	1,2,3-Trichloropropane	BDL	0.005
95-63-6	1,2,4-Trimethylbenzene	BDL	0.005
108-67-8	1,3,5-Trimethylbenzene	BDL	0.005
108-05-4	Vinyl acetate	BDL	0.050
75-01-4	Vinyl chloride	BDL	0.010
95-47-6	o-Xylene	BDL	0.005
108-38-3/106-42-3	m&p-Xylenes	BDL	0.010

BDL = Below Detection Limit

J = Less Than Detection Limit, Approximate Value

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ORGANOCHLORINE PESTICIDES (8081A)

Client: Geosciences, Inc.
3202 Gillionville Road
Albany GA 31707

Client Project No: FFM Main Facility
ALE-00-335A
ACL Project No: 33316
Date Received: 09-05-00
Date Reported: 10-09-00

Contact: Ms. Alison Long

Sample ID: MW-6 (18.5-20')
ACL Sample No: 158984
Date Sampled: 08-30-00
Date Extracted: 09-06-00
Date Analyzed: 10-02-00
Matrix: Soil
Units: mg/kg
Analyst: SS

Compound	Result	Det. Limit	Result	Det. Limit	Result	Det. Limit
Aldrin	BDL	0.005				
a-BHC	BDL	0.005				
b-BHC	BDL	0.005				
d-BHC	BDL	0.005				
g-BHC	BDL	0.005				
Chlordane	BDL	0.010				
4,4'-DDD	BDL	0.005				
4,4'-DDE	BDL	0.005				
4,4'-DDT	BDL	0.005				
Dieldrin	BDL	0.005				
Endosulfan I	BDL	0.005				
Endosulfan II	BDL	0.005				
Endosulfan sulfate	BDL	0.005				
Endrin	BDL	0.005				
Endrin aldehyde	BDL	0.005				
Heptachlor	BDL	0.005				
Heptachlor epoxide	BDL	0.005				
Methoxychlor	BDL	0.005				
Toxaphene	BDL	0.100				

BDL = Below Detection Limit

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CHLORINATED HERBICIDES (8151A)

Client: Geosciences, Inc.
3202 Gillionville Road
Albany GA 31707

Client Project No: ALE-00-335A/FFM Main Facility
ACL Project No: 33316
Date Received: 09-05-00
Date Reported: 10-09-00

Contact: Ms. Alison Long

Sample ID:	MW-4 (8.5-10')	MW-5 (3.5-5')	MW-5 (18.5-20')
ACL Sample No:	*158981	158982	158983
Date Sampled:	08-28-00	08-28-00	08-29-00
Date Extracted:	09-05-00	09-05-00	09-05-00
Date Analyzed:	10-07-00	10-05-00	10-05-00
Matrix:	Soil	Soil	Soil
Units:	mg/kg	mg/kg	mg/kg
Analyst:	SS	SS	SS

Compound	Result	Det. Limit	Result	Det. Limit	Result	Det. Limit
2,4-D	BDL	0.10	BDL	0.010	BDL	0.010
2,4-DB	BDL	0.10	BDL	0.010	BDL	0.010
2,4,5-T	BDL	0.05	BDL	0.005	BDL	0.005
2,4,5-TP (Silvex)	BDL	0.05	BDL	0.005	BDL	0.005
Dalapon	BDL	0.10	BDL	0.010	BDL	0.010
Dicamba	BDL	0.05	BDL	0.005	BDL	0.005
Dichloroprop	BDL	0.10	BDL	0.010	BDL	0.010
Dinoseb	BDL	0.05	BDL	0.005	BDL	0.005
MCPA	BDL	5.00	BDL	0.50	BDL	0.50
MCPP	BDL	10.0	BDL	1.00	BDL	1.00

BDL = Below Detection Limit

J = Less Than Detection Limit, Approximate Value

* Matrix interference prevents normal detection limits.



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CHLORINATED HERBICIDES (8151A)

Client: Geosciences, Inc.
3202 Gillionville Road
Albany GA 31707

Client Project No: ALE-00-335A/FFM Main Facility
ACL Project No: 33316
Date Received: 09-05-00
Date Reported: 10-09-00

Contact: Ms. Alison Long

Sample ID: MW-6 (18.5-20")
ACL Sample No: 158984
Date Sampled: 08-30-00
Date Extracted: 09-05-00
Date Analyzed: 10-05-00
Matrix: Soil
Units: mg/kg
Analyst: SS

Compound	Result	Det. Limit	Result	Det. Limit	Result	Det. Limit
2,4-D	BDL	0.010				
2,4-DB	BDL	0.010				
2,4,5-T	BDL	0.005				
2,4,5-TP (Silvex)	BDL	0.005				
Dalapon	BDL	0.010				
Dicamba	BDL	0.005				
Dichloroprop	BDL	0.010				
Dinoseb	BDL	0.005				
MCPA	BDL	0.50				
MCPP	BDL	1.00				

BDL = Below Detection Limit

J = Less Than Detection Limit, Approximate Value



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Client: Geosciences, Inc.
3202 Gillionville Road
Albany GA 31707

FFM Main Facility

Client Project No: ALE-00-335A
ACL Project No: 33316
Date Received: 09-05-00
Date Reported: 10-09-00

Contact: Ms. Alison Long

Nitrate-Nitrogen (353.3) (mg/kg)

<u>Sample ID</u>	<u>ACL #</u>	<u>Matrix</u>	<u>Result</u>	<u>Det. Limit</u>	<u>Date Analyzed</u>
MW-4 (8.5-10')	158981	Soil	14.8	5.00	09-12-00
MW-5 (3.5-5')	158982	Soil	125	20.0	09-12-00
MW-5 (18.5-20')	158983	Soil	72.1	10.0	09-12-00
MW-6 (18.5-20')	158984	Soil	130	20.0	09-12-00

BDL = Below Detection Limit



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Client: Geosciences, Inc.
3202 Gillionville Road
Albany GA 31707

Client Project No: ALE-00-335A
ACL Project No: 33316
Date Received: 09-05-00
Date Reported: 10-09-00

Contact: Ms. Alison Long

Total Arsenic
(6010B) (mg/kg)

<u>Sample ID</u>	<u>ACL #</u>	<u>Matrix</u>	<u>Result</u>	<u>Det. Limit</u>	<u>Date Analyzed</u>
MW-5 (3.5-5')	158982	Soil	BDL	5.00	09-07-00
MW-5 (18.5-20')	158983	Soil	BDL	5.00	09-07-00
MW-6 (18.5-20')	158984	Soil	BDL	5.00	09-07-00

BDL = Below Detection Limit

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RCRA METALS (6010B/7471A)

Client: Geosciences, Inc.
 3202 Gillionville Road
 Albany GA 31707

Client Project No: ALE-00-335A/FFM Main Facility
 ACL Project No: 33316
 Date Received: 09-05-00
 Date Reported: 10-09-00

Contact: Ms. Alison Long

Sample ID: Weld Shop (1.5-2')
 ACL Sample No: 158985
 Date Sampled: 08-30-00
 Date Analyzed: 09-07-00
 Matrix: Soil
 Units: mg/kg
 Analyst: CP/JR

BDL = Below Detection Limit

J = Less Than Detection Limit, Approximate Value

3039 Arnwiler Road • Suite 100 • Atlanta, GA 30360 ■ P. O. Box 88610 • Atlanta, GA 30356 ■ (770) 409-1444 • Fax (770) 409-1844

[illegible]

APPENDIX E

2001 GEOSCIENCES CONFIRMATION SAMPLING LETTER REPORT



January 15, 2001

Mr. Gary Rindner
General Counsel
E. D. & F. Man, Inc.
Two World Financial Center
New York, NY 10281-2700

SUBJECT: Soil/Groundwater Confirmation Sampling
FFM Main Facility
East Main Street
Colquitt, Georgia
Geosciences Project No: ALE-00-335A

Dear Mr. Rindner:

Samples taken during well installation at the FFM Main Facility in Colquitt, Georgia in August 2000 indicated the presence of carbon disulfide at a concentration of 0.008 milligrams per kilogram (mg/kg) in the soil sample collected from 18.5 to 20 feet below land surface (bls) at monitoring well MW-5 (See Figure 1 for well locations). In addition, the groundwater sample from monitoring well MW-6 indicated tetrachloroethene present in the groundwater at a concentration of 28 microgram per liter (ug/L). These results were reported in Geosciences' "Monitoring Well Installation and Sampling" report dated October 31, 2000. Since both of the detected constituents are regulated under the Hazardous Site Response Act (HSRA) (Chapter 391-3-19-.04(3)), Geosciences proposed collecting soil and groundwater confirmation samples (proposal A-00-193, dated November 16, 2000) to determine whether or not the constituents are present in concentrations which exceed the notification requirements of HSRA.

SOIL AND GROUNDWATER SAMPLING

Geosciences, Inc. collected soil confirmation samples on December 15, 2000 to confirm or deny the presence of carbon disulfide in the soil near MW-5. Two soil test borings were drilled using 2.25-inch inside diameter augers in the immediate vicinity of MW-5 (see Figure 1). Soil test boring SB-1 is located approximately 1.5 feet directly south of MW-5, and soil test boring SB-2 is located approximately 2 feet directly west of MW-5. A sample was collected from 18.5 to 20 feet below land surface (bls) in each boring. Samples were also collected from above the water table (41.5 to 42 feet bls) in each boring. The samples were sent to Advanced Chemistry Labs, Inc. in Atlanta for carbon disulfide analysis. Following sampling, the two soil test borings were grouted to land surface with a portland cement/3-5% bentonite powder slurry using a tremie hose.

A groundwater sample was collected on December 15, 2000 from monitoring well MW-6 to confirm or deny the presence of tetrachloroethene previously detected during the September 5, 2000 sampling event. Monitoring well MW-6 was bailed dry using new high density polyethylene (HDPE) disposable bailer and allowed to recharge twice before a water sample was collected for tetrachloroethene analysis. The sample was shipped via overnight courier along with the four soil samples to Advanced Chemistry Labs, Inc. in Atlanta for analysis.

LABORATORY TEST RESULTS

Soil samples SB-1 (18.5-20'), SB-1 (41.5-42'), SB-2 (18.5-20'), and SB-2 (41.5-42') were analyzed for the presence of carbon disulfide using EPA Method 5035/8260B. Laboratory results were reported as being "below laboratory detection limits" (BDL) in all of the soil samples.

Groundwater sample MW-6 was analyzed for the presence of tetrachloroethene using EPA Method 5030B/8260B. An equipment blank and a trip blank were also analyzed using the same method to ensure the integrity of both sample collection and laboratory techniques. Laboratory analytical results indicate the presence of tetrachloroethene at a concentration of 18 ug/L in the groundwater sample MW-6 (above the Maximum Contaminant Limit (MCL) of 5 ug/L). The equipment blank and the trip blank results were both reported as being BDL.

The attached Tables and laboratory analytical report summarize the findings.

CONCLUSIONS AND RECOMMENDATIONS

Carbon disulfide was detected in the initial soil sample collected during the installation of groundwater monitoring well MW-5. However, subsequent laboratory analytical results of confirmatory samples [SB-1 (18.5-20'), SB-1 (41.5-42'), SB-2 (18.5-20'), SB-2 (41.5-42')] have indicated the absence of carbon disulfide in the immediate vicinity of MW-5. For this reason, further investigation of a release of carbon disulfide at this site is not recommended.

Laboratory analytical results of the groundwater sample collected from monitoring well MW-6 on September 5, 2000 indicated the presence of tetrachloroethene at a concentration of 28 ug/L (above the MCL of 5 ug/L). A sample was collected December 15, 2000 to confirm the presence of tetrachloroethene at MW-6. Laboratory analytical results of the December 15, 2000 sample from MW-6 confirmed the presence of tetrachloroethene at a concentration of 18 ug/L.

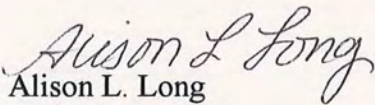
Based on the Rules for Hazardous Site Response 391-3-19-.04, a release of a regulated substance which causes the concentration in groundwater to exceed the naturally-occurring background concentration requires that the property owner notify Georgia Environmental Protection Division (EPD) within 30 days of discovery of the release. Because tetrachloroethene was detected in the groundwater sample collected from monitoring well MW-6 at concentrations that exceed the MCL, it is suspected that a reportable release has occurred at the FFM Main Facility. An initial notification should be made by contacting the

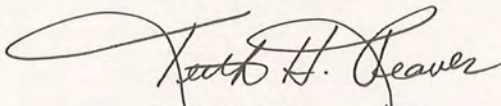


Georgia EPD Hazardous Site Response Program at (404) 657-8600. Additional information can subsequently be submitted by completing the attached Release Notification Form.

Geosciences appreciates the opportunity to be of service to you. If you have any questions concerning this report, or if we can be of further assistance to you, please do not hesitate to call our Albany office at (229) 432-5805.

Sincerely,
GEOSCIENCES, INC.


Alison L. Long
Staff Geologist


Keith H. Reaves, P. E.
Project Engineer
GA Reg No. 25849

Attachments

cc: Mr. Les Oakes - King and Spalding



TABLE 1
Summary of Soil Analytical Data
FFM Main Facility
December 15, 2000
Colquitt, Georgia; Miller County
Geosciences Project No; ALE-00-335A

Well I.D.	Carbon Disulfide (mg/kg)
SB-1 (18.5-20')	BDL
SB-1 (41.5-42')	BDL
SB-2 (18.5-20')	BDL
SB-2 (41.5-42')	BDL
Lab Detection Limit	0.005
HSRA NC	0.005

TABLE 2
Summary of Groundwater Analytical Data
FFM Main Facility
December 15, 2000
Colquitt, Georgia; Miller County
Geosciences Project No: ALE-00-335A

Well I.D.	Tetrachloroethene* (ug/L)
Equip. Blank	BDL
Trip Blank	BDL
MW-6	18
Lab Detection Limit	5
MCL	5

HSRA NC = Notification Requirements under Hazardous Site Response Act (Appendix I)

NE = Not Established

BDL = Below Laboratory Detection Limit

MCL = Maximum Contaminant Level

* Tetrachloroethene = Perchloroethylene or PCE

Phone: (770) 409-1444
Fax: (770) 409-1844
Outside GA: (800) 277-0520
e-mail: acl@mindspring.com

3039 Amwiler Road • Suite 100 • Atlanta, GA 30360
P.O. Box 88610 • Atlanta, GA 30356
www.advancedchemistrylabs.com

Client: Geosciences, Inc.
3202 Gillionville Road
Albany, GA 31707

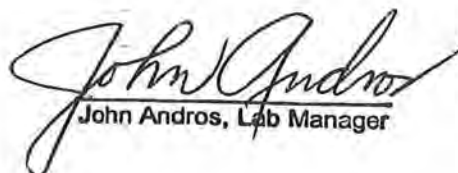
FFM Main Facility
Client Project No: ALE-00-335A
ACL Project No: 34287
Date Received: 12-20-00
Date Reported: 12-29-00

Contact: Ms. Alison Long

Carbon Disulfide
(5035/8260B) (mg/kg)

<u>Sample ID</u>	<u>ACL #</u>	<u>Matrix</u>	<u>Result</u>	<u>Det. Limit</u>	<u>Date Analyzed</u>
SB-1 (18.5-20')	163558	Soil	BDL	0.005	12-26-00
SB-1 (41.5-42')	163559	Soil	BDL	0.005	12-26-00
SB-2 (18.5-20')	163560	Soil	BDL	0.005	12-26-00
SB-2 (41.5-42')	163561	Soil	BDL	0.005	12-26-00

BDL = Below Detection Limit


John Andros, Lab Manager

ACL**ADVANCED CHEMISTRY LABS, INC.**

Phone: (770) 409-1444
Fax: (770) 409-1844
Outside GA: (800) 277-0520
e-mail: acl@mindspring.com

3039 Amwiler Road • Suite 100 • Atlanta, GA 30360
P.O. Box 88610 • Atlanta, GA 30356
www.advancedchemistrylabs.com

Client: Geosciences, Inc.
3202 Gillionville Road
Albany, GA 31707

Client Project No: ALE-00-335A
ACL Project No: 34287
Date Received: 12-20-00
Date Reported: 12-29-00

Contact: Ms. Alison Long

Tetrachloroethene
(5030B/8260B) (µg/liter)

<u>Sample ID</u>	<u>ACL #</u>	<u>Matrix</u>	<u>Result</u>	<u>Det. Limit</u>	<u>Date Analyzed</u>
MW-6	163562	Water	18	5	12-20-00
EQT BLK	163563	Water	BDL	5	12-21-00
TRIP BLK	163564	Water	BDL	5	12-21-00

BDL = Below Detection Limit

ACL**ADVANCED CHEMISTRY LABS, INC.**

3039 Arwiler Road • Suite 100 • Atlanta, GA 30360 ■ P. O. Box 88610 • Atlanta, GA 30356 ■ (770) 409-1444 • Fax (770) 409-1844

Company Name: *GEOSCIENCES, INC.* Phone #: *(229) 432-5805*

Fax #:

Company Address: *ALBANY, GA
3202 GILLONVILLE RD.*Site Location: *FFM MAIN FACILITY*

Project Manager:

A. LONG

Client Project: (#)

(Name) *ALE-00-335A*

I attest that the proper field sampling procedures were used during the collection of these samples.

Sampler Name (Print):

*A. LONG***CHAIN-OF CUSTODY RECORD
AND ANALYSIS REQUEST****ANALYSIS REQUEST**

Field Sample ID	# Container	Matrix						Method Preserved						Sampling		Date	Time	Remarks
		Water	Soil	Air	Sludge	Product	Other	HCl	HNO ₃	H ₂ SO ₄	Ice	None	Other					
<i>SB-1 (18.5-20')</i>	<i>3</i>	<i>X</i>									<i>X</i>			<i>12/15/00</i>	<i>2:30</i>	<i>X</i>		<i>ICED - PLEASE BILL</i>
<i>SB-1 (41.5-42')</i>	<i>3</i>	<i>X</i>									<i>X</i>			<i>"</i>	<i>3:35</i>	<i>X</i>		<i>ACCORDING TO J. ANDROS</i>
<i>SB-2 (18.5-20')</i>	<i>3</i>	<i>X</i>									<i>X</i>			<i>"</i>	<i>4:22</i>	<i>X</i>		<i>VERBAL QUOTE (11/14/00)</i>
<i>SB-2 (41.5-42')</i>	<i>3</i>	<i>X</i>									<i>X</i>			<i>"</i>	<i>5:15</i>	<i>X</i>		
<i>EQT BLK</i>	<i>2</i>	<i>X</i>									<i>X</i>			<i>"</i>	<i>6:10</i>	<i>X</i>		
<i>TRIP BLK</i>	<i>2</i>	<i>X</i>									<i>X</i>			<i>"</i>	<i>-</i>			
<i>MW-6</i>	<i>2</i>	<i>X</i>									<i>X</i>			<i>"</i>	<i>6:00</i>	<i>X</i>		

Special Detection Limits

Remarks:

TAT

Special Handling

Priority (24 hr) ☐

ACL Contact _____

Rush (48 hr) ☐

Quote # _____

Rush (72 hr) ☐

P. O. _____

Normal ☐

P. O. _____

Special Reporting Requirements

Lab Use Only:

Cooler Temp.

Fax ☐

ACL Project #:

*34287**24* °C

QA/QC Level

Level 1 ☐ Level 2 ☐ Other ☐**CUSTODY
RECORD**

Relinquished by Sampler:

A. Long

Relinquished by:

[Signature]

Date

Time

Received by:

*12-19-00**5:00 PM**J. HUMPHRIES*

Date

Time

Received by:

*12-20-00**11:35 AM**[Signature]*

EAST MAIN STREET

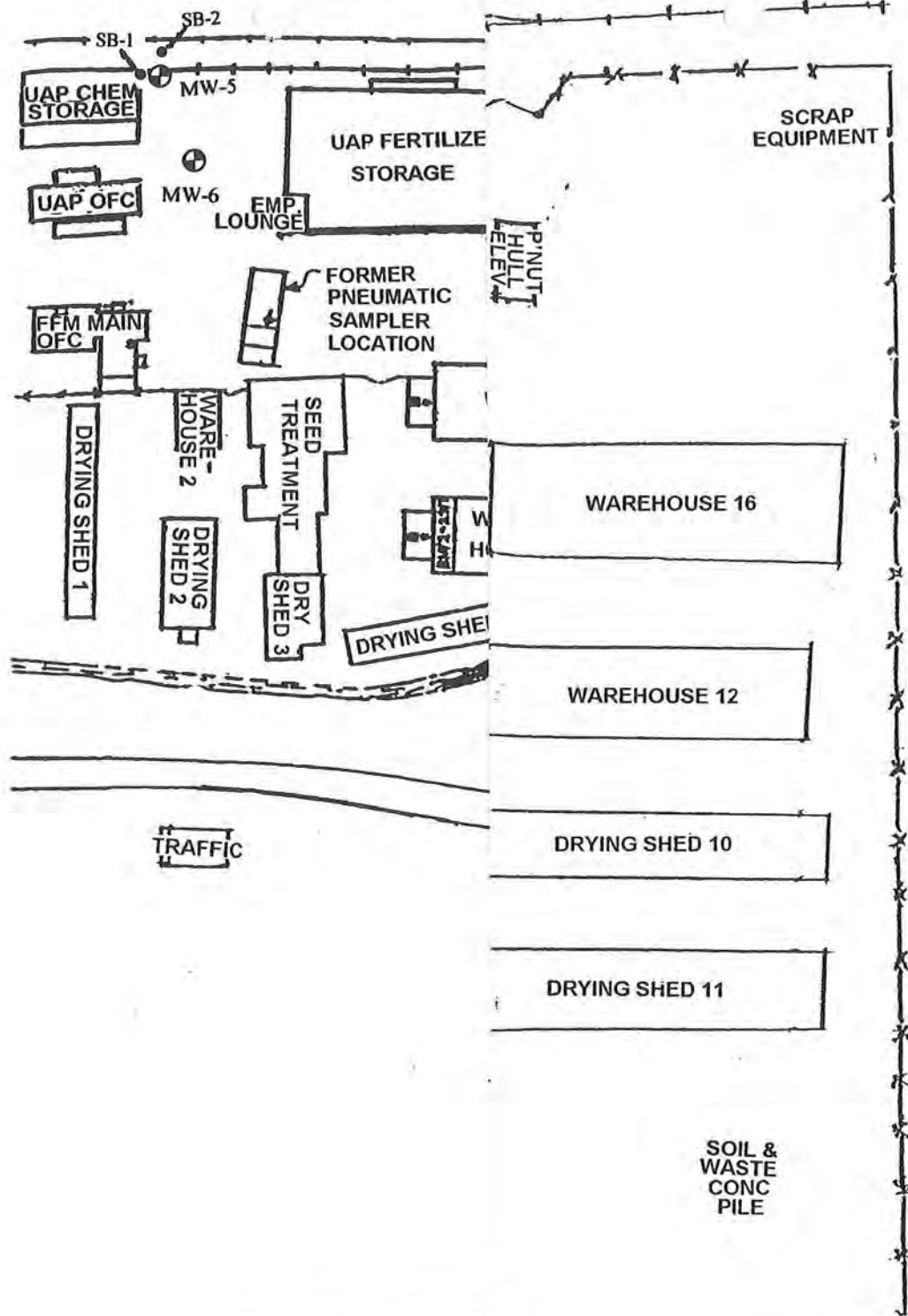


FIGURE 1
SITE PLAN
FARMERS FERTILIZER AND MILLING COMP
MAIN FACILITY
PROJECT NUMBER ALE-00-335A

APPENDIX F

2001 RELEASE NOTIFICATION FORM



RELEASE NOTIFICATION FORM

HAZARDOUS SITES RESPONSE PROGRAM
GEORGIA ENVIRONMENTAL PROTECTION DIVISION

(Please type or print legibly)

1. The information provided in this form is for:

☐ Initial Release Notification

☐ Supplemental Notification

PART I -- PROPERTY INFORMATION

2	EPA ID NUMBER (if applicable)	N/A				
3	Tax Map and Parcel ID Number:	Map C14, Parcel 28				
4	Site or Facility Name	Birdsong Peanut (formerly Farmers Fertilizer and Milling Company)				
5	Site Street Address	608 East Main Street				
6	Site City	Colquitt	County	Miller	Zip	31737
7	Property Owner	Birdsong Peanut (formerly Farmers Fertilizer and Milling Company)				
8	Property Owner Mailing Address	P.O. Box 565				
9	Property Owner City	Colquitt	State	GA	Zip	31737
10	Property Owner Telephone No.	(229) 758-3520				
11	Site Contact Person	Russell Womble	Title	Warehouse Manager		
12	Company Name	Birdsong Peanut				
13	Site Contact Mailing Address	P.O. Box 565				
14	Site Contact City	Colquitt	State	GA	Zip	31737
15	Site Contact Telephone No.	(229) 758-3520				
16	Facility Operator	Gerald Garland	Title			
17	Company Name	Birdsong Peanut				
18	Facility Operator Mailing Address	230 North Bay Street				
19	Facility Operator City	Blakely	State	GA	Zip	31723
20	Facility Operator Telephone No.	(229) 723-3641				

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

GEORGE Y. BIRDSONG

CEO

NAME (Please type or print)

SIGNATURE

TITLE

March 14, 2001

DATE

PART II -- RELEASE INFORMATION

Page 2 of

Please provide the following information for EACH release at the site. If additional space is needed to answer any of the following questions, attach additional pages, as necessary.

1. Source of this release (i.e., drums, tanks, spills, wastepile etc.). Provide specific information on the suspected or known source of the release, including the source of this information:

Source of release is unknown.

2. Release date(s) and any known information about the history of the release, including the physical state of the material (solid, powder/ash, liquid/gas, sludge) and the quantity of material released (lbs, cubic yards, etc.):

Release date is unknown.

3. Describe those actions that have been taken to investigate, clean up or otherwise remediate this release (e.g., removal of source of contamination; soil or water sampling performed; and monitoring wells installed and sampled).

See attached Insert.

4. Access to the area affected by the release. Check the appropriate box:

- ☐ Inaccessible: A 24-hour surveillance system, or a completely closed barrier or fence to prevent entry.
- ☐ Limited Access: Less than 24-hour surveillance system, and/or a barrier or fence that is partially open.
- ☒ Unlimited Access: No surveillance, and no barrier or fence.

If the site is inaccessible or has limited access, then describe site surveillance systems, fences, security personnel or other barriers that would restrict access to the release.

Access to the area affected by the release is limited to some extent by a railroad track immediately to the west.

5. For soil releases, indicate the type of material covering this release, by checking the appropriate box below.

- ☐ A permanent or otherwise maintained, essentially impenetrable non-earthen material such as concrete or asphalt
- ☐ An engineered and maintained earthen material or compacted fill or a high density synthetic material
- ☐ Loose earthen fill or native soil
- ☐ No cover
- ☐ Other

Describe the type and thickness of the material covering the contaminated soil or wastes.

No release to soil was detected.

PART II -- RELEASE INFORMATION

(Continued)

Page 3 of

6. Indicate the approximate distance from the edge of the area affected by the release to the nearest residence, playground, day care, school or nursing home.

☒ Less than 300 feet ☐ 1001 to 3000 feet ☐ Greater than 1 mile
☐ 301 to 1000 feet ☐ 3001 to 5280 feet

Provide the name and address of the nearest residence, playground, day care, school or nursing home.

Name: Una S Mason

Address: 109 North 4th Street Colquitt, Georgia 31737
Residence is on city water system.

7. Indicate the distance between the area affected by the release and the nearest drinking water well (including wells located on the site).

☒ Less than 0.5 miles ☐ 1 to 2 miles ☐ Greater than 3 miles
☐ 0.5 to 1 mile ☐ 2 to 3 miles

Provide the name of the property owner and address of the location of the closest drinking water well.

Name: City of Colquitt

Address: 181 South Cuthbert Street Colquitt, Georgia 31737

8. Is there any evidence to suspect that a person or a sensitive environment has been exposed to this release?

☐ Yes ☒ No

If yes, provide details on the potentially affected humans or sensitive environments.

REQUIRED ATTACHMENTS

9. SITE SUMMARY

A. Attach a summary (no longer than one page) that gives a general description of the property, the areas affected by the release both within and beyond the property boundaries, and any actions taken to investigate, clean up or otherwise remediate the property. The summary shall include a description of the property boundaries of the site and adjacent properties as well as a detailed description of the nature and known or estimated extent of the area of contamination. Describe any additional relevant information concerning the nature of the release. In addition to the one page summary, other information concerning the property may also be attached.

B. Attach a site map that shows known or suspected sources as well as the locations of all samples collected at the site. The site map should include outlines of buildings as well as covered ground areas (e.g., parking lots or other paved areas). A legend should be provided to explain any symbols used on the map.

10. U.S.G.S. Topographic Map

Along with this form, you **MUST** submit an original U.S.G.S. topographical map (1:24000) with the geographic center of the site clearly marked. See instructions for information on how to obtain an original of the map on which your site is located.

PART III -- SOIL RELEASE INFORMATION

Page ____ of ____

Please provide the following information for EACH regulated substance released to the soil at the site and submit the laboratory analytical sheets for all samples analyzed from the site. Use additional sheets if necessary.

Regulated Substance	CAS Number	Highest Concentration Detected Between 0-6 Inches	Highest Concentration Detected Between 6-24 Inches	Highest Concentration Detected Greater Than 24 Inches

Specify Units for Concentrations

PART IV -- GROUNDWATER RELEASE INFORMATION

Page ⁴ of ____

Please provide the following information for EACH regulated substance released to the groundwater at the site and submit the laboratory analytical sheets for all samples analyzed from the site. Use additional sheets if necessary.

Regulated Substance	CAS Number	Highest Detected Concentration (Specify Units)	Sample Depth Below Ground Surface (Feet)
tetrachloroethene	127184	28 ug/L	24.07

SITE SUMMARY

The FFM Main Facility consists of approximately 40 acres located northeast of the intersection of the Georgia Southwestern Railroad and East Main Street (Georgia State Highway 91) in Colquitt, Georgia. Pine Street bisects the site. Pine Street is oriented in an east-west direction, parallel to Main Street. The site location and vicinity are shown in the USGS topographic quadrangle map, "Colquitt, GA". The layout of the property is detailed in Figure 1 (attached).

Information on adjacent properties obtained during the October 13, 1999 Phase I Environmental Site Assessment (ESA) (conducted by Geosciences, Inc. of Albany, Georgia) indicated that a Southern States agricultural chemical facility and peanut buying point is located south of the FFM property, across East Main Street. The Georgia Southwestern Railroad track borders the subject property to the west. Property owned by Tully Oil Company, Inc. is located across the railroad tracks, west of the southern portion of the subject site. The property was once owned by the Roy W. Bush Oil Company and operated as a petroleum bulk storage facility. The facility is no longer in use.

Yates Concrete facility adjoins the property along its northwestern boundary (Figure 1). The Colquitt-Miller County Industrial Park Development Authority currently owns property north and northeast of the facility. The Pert South laboratory adjoins the east side of the subject site. The laboratory conducts various analytical testing of peanuts. The property to the east and southeast is used for residential purposes or is undeveloped.

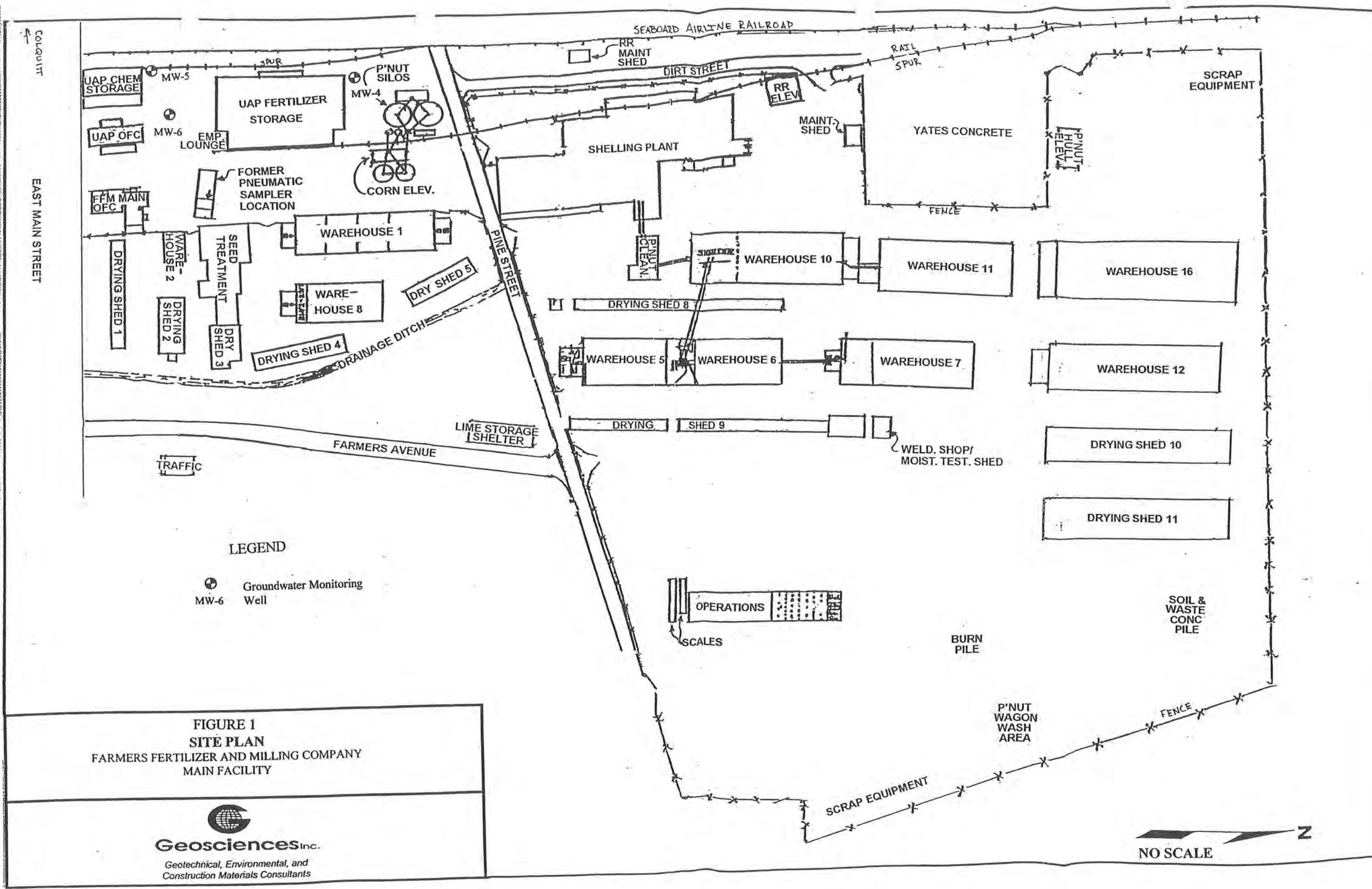
The subject property is currently used for a number of operations including a peanut buying point, warehouse, and shelling plant. A main office is also located on the property. United Agricultural Products (UAP) leases part of the property for agricultural chemical sales. Prior to the current uses at the subject property, its use is believed to be primarily residential and agricultural. A sawmill was also located on the property at one time.

Three monitoring wells were installed and sampled in August 2000 as part of Phase II investigation work recommended in the October 13, 1999 Phase I ESA. Water levels taken prior to well development indicate a southeast flow of groundwater through the site. The location of the wells is shown in the Site Plan in Figure 1. Groundwater samples were collected from the wells following well development activities on September 5, 2000. Tetrachloroethene was detected in a concentration of 28 micrograms per liter (ug/L) in the sample collected from monitoring well MW-6. A confirmation sample collected on December 15, 2000 indicated tetrachloroethene was present in a concentration of 18 ug/L. Tetrachloroethene was not detected in the groundwater samples from MW-4 or MW-5 during either sampling event or in the soil samples collected during well installation. The source of the contamination and the area affected by the release is unknown.


PART II – RELEASE INFORMATION

- 3.) Three monitoring wells (MW-4, MW-5, and MW-6) were installed at the site in August 2000 as part of Phase II investigation work recommended in Geosciences Phase I Environmental Site Assessment dated October 13, 1999. Groundwater samples were collected from the wells following well development activities on September 5, 2000. The samples were analyzed for Volatile Organics, Organochlorine Pesticides, Chlorinated Herbicides, and nitrate-nitrogen. Samples from wells MW-5 and MW-6 were also analyzed for Total Arsenic and Polynuclear Aromatic Hydrocarbons (PAHs).

Tetrachloroethene was detected in a concentration of 28 micrograms per liter (ug/L) in the sample collected from MW-6. A confirmation sample collected on December 15, 2000 indicated tetrachloroethene was present in a concentration of 18 ug/L. This sample verified the presence of tetrachloroethene in the groundwater at the site above the Maximum Contaminant Limit (MCL) (5 ug/L). Tetrachloroethene was not detected in the groundwater samples from MW-4 or MW-5 during the initial sampling event or in the soil samples collected during well installation. The source of the contamination and the area affected by the release is unknown.





 racy	DATE	REVISION	BY	MILLER COUNTY, GEORGIA
				CITY OF COLQUITT, GA.
				MAP C14

APPENDIX G

2001 CRA SUPPLEMENTAL PHASE II ESA



**CONESTOGA-ROVERS
& ASSOCIATES**

1351 Oakbrook Drive, Suite 150, Norcross, GA 30093
Telephone: 770.441.0027 Facsimile: 770.441.2050
www.CRAworld.com

October 18, 2001

Reference No. 18283

Les Oakes, Esq.
King & Spalding
191 Peachtree Street
Atlanta, Georgia 30303-1763

Dear Mr. Oakes:

Re: Farmer's Feed and Milling Company
Colquitt, Georgia

Conestoga-Rovers & Associates (CRA) has prepared the following progress report to summarize the Supplemental Phase II Environmental Site Assessment (ESA) conducted at the former Farmer's Feed and Milling Company (Property), now Birdsong Peanut, in Colquitt, Miller County, Georgia. The Property is a peanut buying and shelling facility, located northeast of the intersection of the Georgia Southwestern Railroad and East Main Street (Georgia State Highway 91). Figure 1 illustrates the location of the Property. This report is being provided to you with copies to be provided to Farmer's Feed and Milling and to the Property owner. An additional copy can be provided to you for submittal to the Georgia Environmental Protection Division (EPD).

PREVIOUS INVESTIGATIONS

A limited Phase II Environmental Site Assessment was conducted at the Property by others in August and September 2000. Laboratory analysis of groundwater samples from three monitoring wells installed during the limited ESA detected a reportable quantity of tetrachloroethene (a.k.a. perchloroethene or PCE) in MW-6 (see Figure 2) at 28 µg/l, above its Maximum Contaminant Level (MCL) of 5 µg/l for drinking water. No other volatile organic compounds (VOCs) were detected in the groundwater samples. No VOCs (except for carbon disulfide) were detected during soil sampling at the Property. The carbon disulfide was detected in one soil sample from MW-5 at 0.008 mg/kg, slightly above its laboratory detection limit of 0.005 mg/kg. Subsequent soil sampling conducted for verification in the vicinity of MW-5 did not detect carbon disulfide.

Based on the detection of PCE at a reportable quantity (above background), an Initial Release Notification under the HSRA program was prepared and sent to EPD on March 20, 2001. Subsequent conversations with EPD officials indicated that EPD would delay

REGISTERED COMPANY
ISO 9001
ENGINEERING DESIGN



its decision whether to list the Property on the Hazardous Site Index pending receipt of additional information on the extent of impact from PCE in Property soils and groundwater.

SUPPLEMENTAL PHASE II ENVIRONMENTAL SITE ASSESSMENT

CRA performed a Supplemental Phase II ESA during the period of July 23 through August 3, 2001. The objective of this ESA was to delineate the extent of impact from PCE in groundwater and to identify what additional effort, if any (e.g., risk assessment or corrective action plan), would be needed to demonstrate that the presence of PCE at the reported concentrations poses no significant risk.

The scope of work for this Supplemental ESA consisted of the following:

- i) advancement and sampling (soil and groundwater) of 10 direct-push technology (DPT) borings;
- ii) field laboratory analysis of the collected DPT samples for chlorinated VOCs (PCE and its related degradation products; 1,1-dichloroethane, 1,2-dichloroethene, trichloroethene, and vinyl chloride);
- iii) installation of 2 shallow monitoring wells and 1 deep monitoring well; and
- iv) sampling of the 3 existing wells and the 3 newly-installed wells for analysis for PCE and related degradation products.

The objective of the DPT sampling was to define the extent of contaminant migration by advancing a series of DPT borings radially outward and downgradient of the known impacted area (MW-6). Sample locations for the 10 DPT borings are presented in Figure 2. A field laboratory was used for quick-time analyses, which allowed additional samples to be collected or locations modified, as necessary, based on the field analytical results.

Soil samples were collected continuously until groundwater was encountered in each DPT boring. Samples from each successive two-foot interval in depth were bagged and screened for the potential presence of volatiles with a photoionization detector (PID). A subset of the bagged samples was selected for field laboratory analyses based on PID results, depth, and visual examination. Groundwater samples were also collected from



the base of each DPT boring for analyses. Boring logs for the DPT borings are included in Attachment A. Field laboratory analytical results are included in Attachment B.

Based on the findings of the DPT sampling, the two additional shallow monitoring wells were installed at selected on-site locations (Figure 2). These wells were installed by hollow-stem auger, with a target total depth of 50 feet, dependent on the depth groundwater was first encountered. Actual completion depths of wells MW-8 and MW-9 were 48 feet and 27 feet below ground surface (bgs), respectively.

The two additional shallow monitoring wells are located upgradient and laterally downgradient of the existing monitoring well MW-6 to define by triangulation, in conjunction with the existing "clean" well MW-5, the extent of impacted groundwater in the vicinity of MW-6. The deep well (78 feet) was installed downgradient from the known impacted area to determine if contamination had migrated downward below the first encountered saturated zone, and to define stratigraphy below 50 feet bgs. Boring logs and construction details for the new monitoring wells and existing wells are included in Attachment A.

Each of the three new monitoring wells has a 2-inch I.D. PVC casing, with a 5-foot long factory-slotted screen. The wells were completed with a lockable, flush-mount protective cover and concrete pad. The wells were developed by pumping sediment-laden water with a submersible PVC pump. Development was considered complete when turbidity had been minimized, indicator parameters had stabilized, and at least 5 well volumes (or a maximum of 50 gallons) had been removed.

RESULTS

SOIL SAMPLING

Local shallow stratigraphy, as defined by the investigations conducted at the Property, consists of undifferentiated sands, clays, and discontinuous weathered limestones to a depth of approximately 80 feet. Depth to competent bedrock has not been determined at the Property, but is probably within 100 feet of land surface. Two discrete and discontinuous, weathered limestone horizons have been encountered at the Property. A shallow weathered limestone at 14 to 20 feet bgs was encountered only on the northern portion of the Property in two wells (MW-4 and MW-9) and in four DPT borings (BH-3,



BH-4, BH-6, and BH-8). A deeper limestone horizon was encountered at 44, 54, and 40 feet bgs in MW-5, MW-6, and MW-8, respectively. A cross-section showing the Property stratigraphy (location shown on Figure 3) is presented on Figure 4.

Analytical results of the soil samples from the DPT borings detected the presence of PCE in only 3 of the 22 samples (see Table 1 and Figure 4). PCE was detected at concentrations of 28 $\mu\text{g/kg}$, 7.5 $\mu\text{g/kg}$, and 21.3 $\mu\text{g/kg}$ in samples from borings BH-3, BH-6, and BH-8, respectively; all three samples were from below 19 feet bgs. These same 3 DPT borings were also the only borings to contain detected concentrations of PCE in the groundwater samples (see following section). No other chlorinated VOC was detected in any soil sample.

GROUNDWATER SAMPLING

During both the limited and supplemental ESAs, groundwater was first encountered in each borehole at the first major lithologic change (first limestone horizon beneath sandy clay). These saturated zones are confined, and depending on depth of encounter, water levels rose from 4 feet (shallow limestone horizon) to 25 feet (deeper limestone horizon) above the top of the limestone. The shallow and deeper limestone horizons apparently are not hydraulically connected, as evidenced by an approximate 12-foot difference in respective potentiometric levels (see Table 2).

Groundwater flow direction in the deeper limestone horizon, as determined by water level measurements taken in wells MW-5, MW-6, and MW-8, is to the north (Figure 5). Although a flow direction in the shallower limestone cannot be determined with only two data points, the general trend in flow direction appears to be opposite to that within the deeper horizon (i.e., southerly).

Analytical results of the groundwater samples from the DPT borings detected concentrations of PCE at 108 $\mu\text{g/L}$, 23 $\mu\text{g/L}$, and 118 $\mu\text{g/L}$, in only 3 of the 22 DPT samples (see Table 3 and Figure 6). These samples were collected from borings BH-3, BH-6, and BH-8, the same DPT borings that contained detected concentrations of PCE in the deeper soil samples.

Subsequent sampling of the monitoring well network showed detectable concentrations of PCE (see Table 3 and Figure 6) in only 2 wells, MW-5 (8.8 $\mu\text{g/L}$) and MW-6 (23 $\mu\text{g/L}$).



Monitoring well MW-5 had previously shown no detectable concentrations of PCE during the limited ESA.

CONCLUSIONS

Based on the previous limited ESA and the data collected by CRA for this Supplemental Phase II ESA, the following conclusions were drawn:

1. Analytical results of all soil and groundwater samples have detected the presence of one regulated substance (PCE) in soil and groundwater. No degradation products associated with PCE or any other VOCs have been detected on the Property.
2. Site Investigation results indicate that the PCE-impacted zone is of limited extent both laterally (within an approximate 100-foot radius) and at depth (from 20 to 50 feet bgs). The impacted area is delineated roughly by monitoring wells MW-8, MW-5, MW-9, and boring BH-10, with the center roughly in the vicinity of BH-3. The shallow weathered limestone horizon encountered in MW-4 and MW-9 does not show any impact from PCE, nor does the deeper groundwater zone encountered in MW-7D.
3. Concentrations of PCE are slightly above the HSRA Soil Notification Concentration of 18 µg/kg in two soil samples from BH-3 and BH-8, taken at depth (only). This suggests that the detection of PCE in the soil samples is a result of migration of dissolved PCE in shallow groundwater or vapor phase, and does not infer a soil impact zone.
4. The groundwater concentrations of PCE detected in borings BH-3, BH-6, BH-8, and wells MW-5 and MW-6 are all above Georgia HSRA default cleanup standards for groundwater (Appendix III Table 1, Groundwater Criteria; equivalent to MCL). The area of groundwater impact appears to be limited to the southwestern portion of the Property, within a (roughly) 100-foot radius.
5. Groundwater flow direction within the impacted deeper limestone horizon is to the north. Groundwater flow within the principal artesian aquifer, which is the main source of municipal groundwater in southwest Georgia, is to the south (Mitchell, 1981, Georgia Geologic Survey Information Circular 58).
6. Although a source area was not detected, during the Property activities CRA was led to understand by current employees at the Property that a small shed formerly



located in the vicinity of the DPT boring BH-3 had been used for small parts repair, and could have used degreasing agents. This could represent the potential source of PCE. Based on the limited soil impact identified (all at depth), the small groundwater impact area, and the relatively low detected PCE groundwater concentrations, the release was likely small in volume.

DISCUSSION

Although an Initial Release Notification under the HSRA program was prepared and sent to EPD on March 20, 2001, EPD asked for additional data to be provided. A formal determination of whether or not a release exceeding a reportable quantity has occurred will then be made by the EPD, based on the data produced from the limited and supplemental ESAs, in accordance with their Reportable Quantities Screening Method (RQSM). The RQSM procedure evaluates mathematically the potential exposure through both soil (on-site) and groundwater pathways. Sites that exceed a threshold score for either or both will be listed on the Hazardous Site Inventory (HSI). Once listed on the HSI, a site will not be delisted until it has been determined that the site meets appropriate (Type 1, Type 2, Type 3) Risk Reduction Standards (RRSs). This process requires the performance of a Compliance Status Report (CSR), and possible corrective action to attain the appropriate RRSs.

CRA has estimated that the RQSM groundwater pathway score for the Property will likely exceed the groundwater threshold (14.2 versus 10). If a CSR is produced using the current data, it does not appear that the Property complies with the applicable RRSs. The extenuating factor will be the close proximity of the municipal well to the west (approximately 900 feet). Even though the detection of PCE in MW-5 on the western property boundary is at a low concentration of 8.8 µg/L, just above the detection limit of 5 µg/L, we believe that EPD could at a minimum require monitoring of the groundwater for an extended period of time.

CRA believes that it would be worthwhile to discuss with EPD the possibility of performing an accelerated initial corrective response, such as chemical injection in the impacted area, before the formal determination of listing on the HSI is made. The impacted area is of limited size with a low magnitude of PCE concentrations, suggesting



**CONESTOGA-ROVERS
& ASSOCIATES**

October 18, 2001

7

Reference No. 18283

that such an approach may be worthwhile. Even if an agreement is not reached that would avoid HSI listing, this option may be worth considering.

If you should have any questions, please do not hesitate to contact the undersigned at (770) 441-0027.

Yours truly,

CONESTOGA ROVER & ASSOCIATES

A handwritten signature in black ink, appearing to read 'Tom Lawrence'.

Thomas A. Lawrence, PG

A handwritten signature in blue ink, appearing to read 'Bob Pyle'.

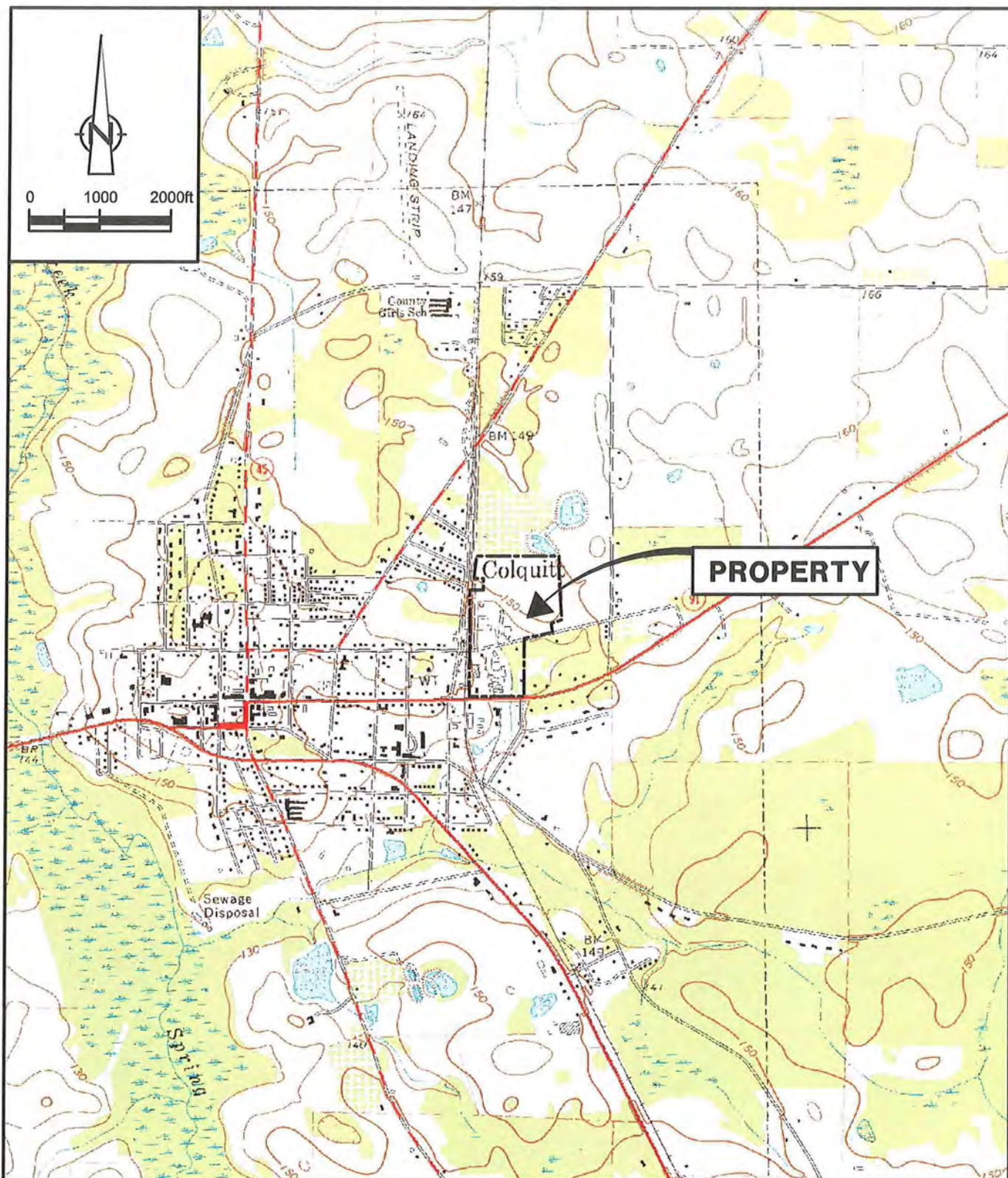
Robert T. Pyle

TAL/tl/2

Encl.

Cc: Gary Rindner, Esq.

Cc: Bob Norman, Esq.



SOURCE: USGS QUADRANGLE: COLQUITT, GA (1974)

figure 1

PROPERTY LOCATION MAP
FARMER'S FEED AND MILLING CO.
Colquitt, Georgia



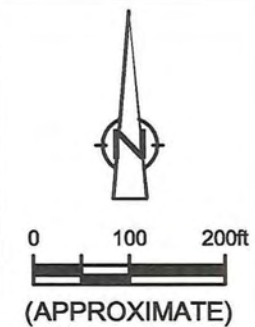
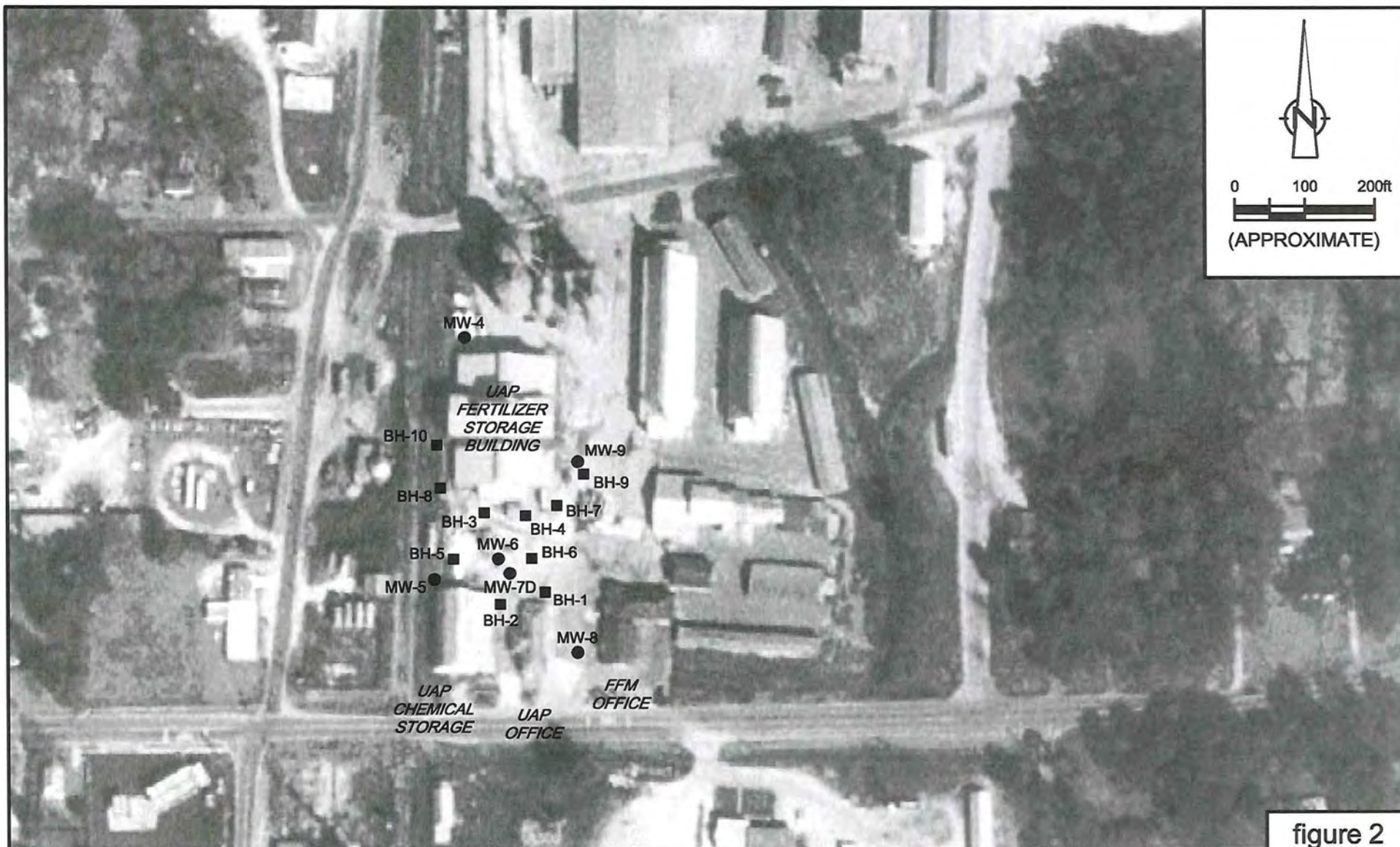


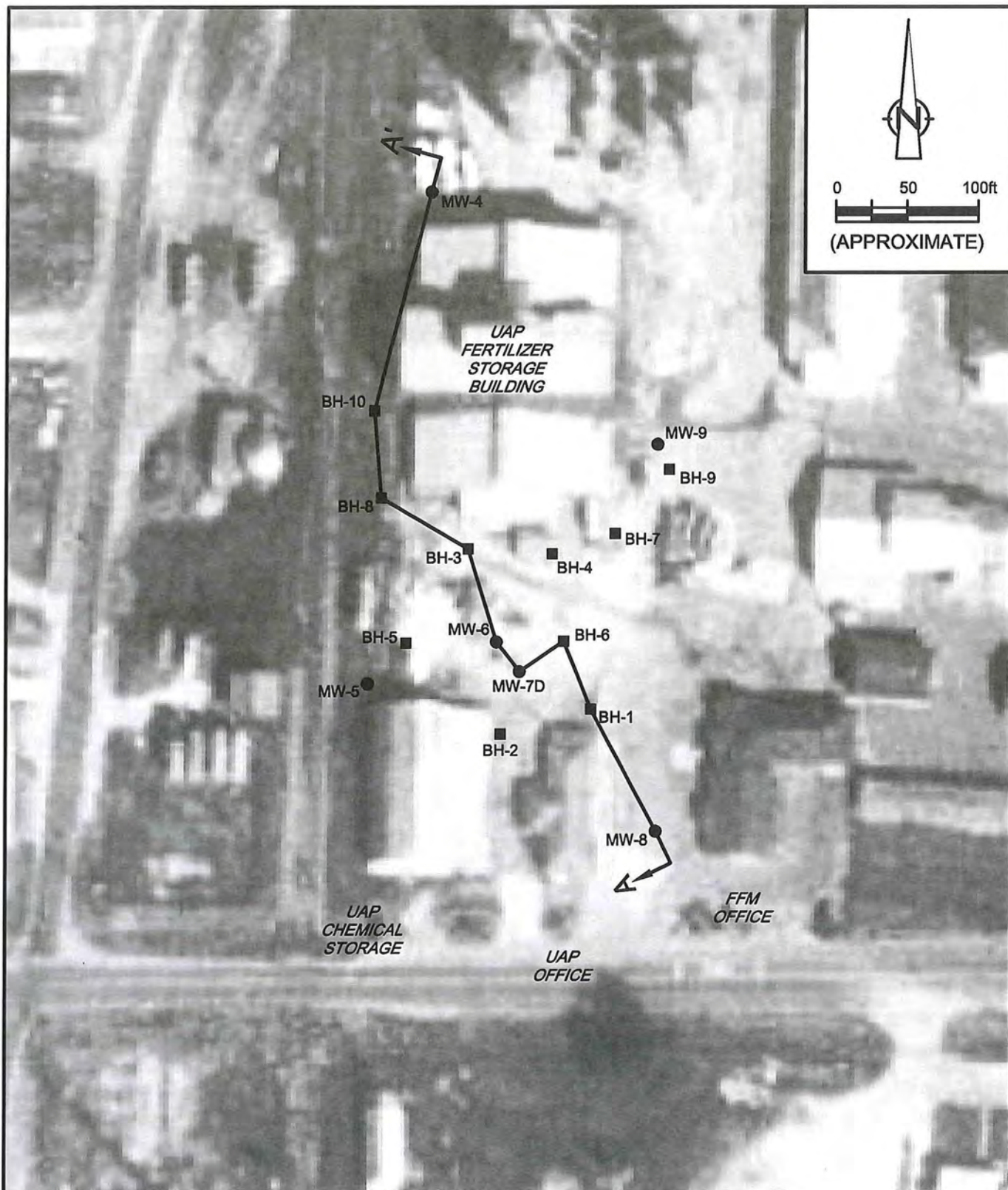
figure 2

AERIAL PHOTOGRAPH SOURCE: MICROSOFT TERRASERVER/USGS



- LEGEND**
- MONITORING WELL LOCATION
 - BOREHOLE LOCATION

PROPERTY PLAN
BIRDSONG PEANUT PLANT
FARMER'S FEED AND MILLING COMPANY
Colquitt, Georgia



AERIAL PHOTOGRAPH SOURCE: MICROSOFT TERRASERVER/USGS

figure 3

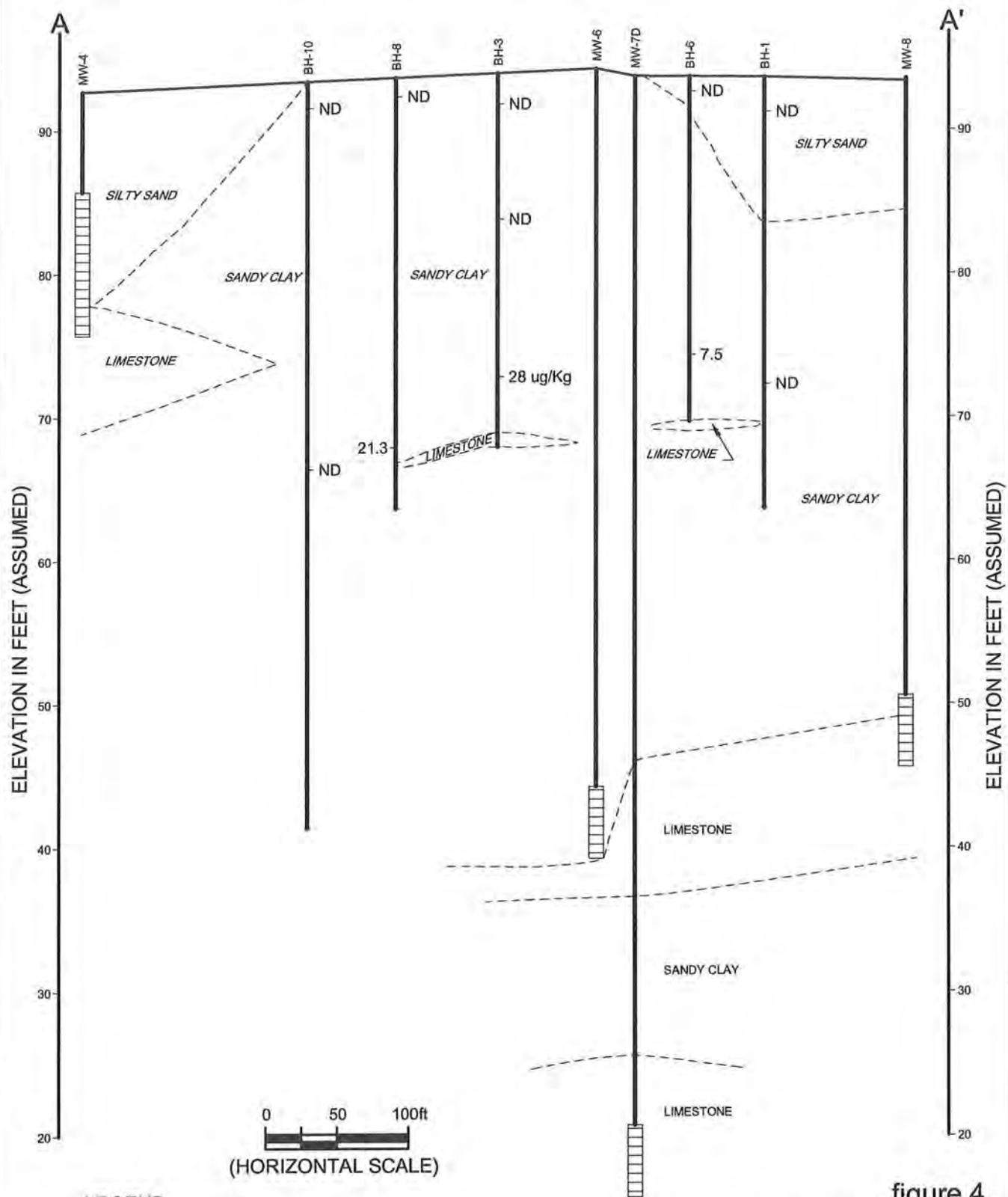
CROSS SECTION LOCATION PLAN
BIRDSONG PEANUT PLANT
FARMER'S FEED AND MILLING COMPANY
Colquitt, Georgia



LEGEND

● MW-5
■ BH-1

MONITORING WELL LOCATION
BOREHOLE LOCATION

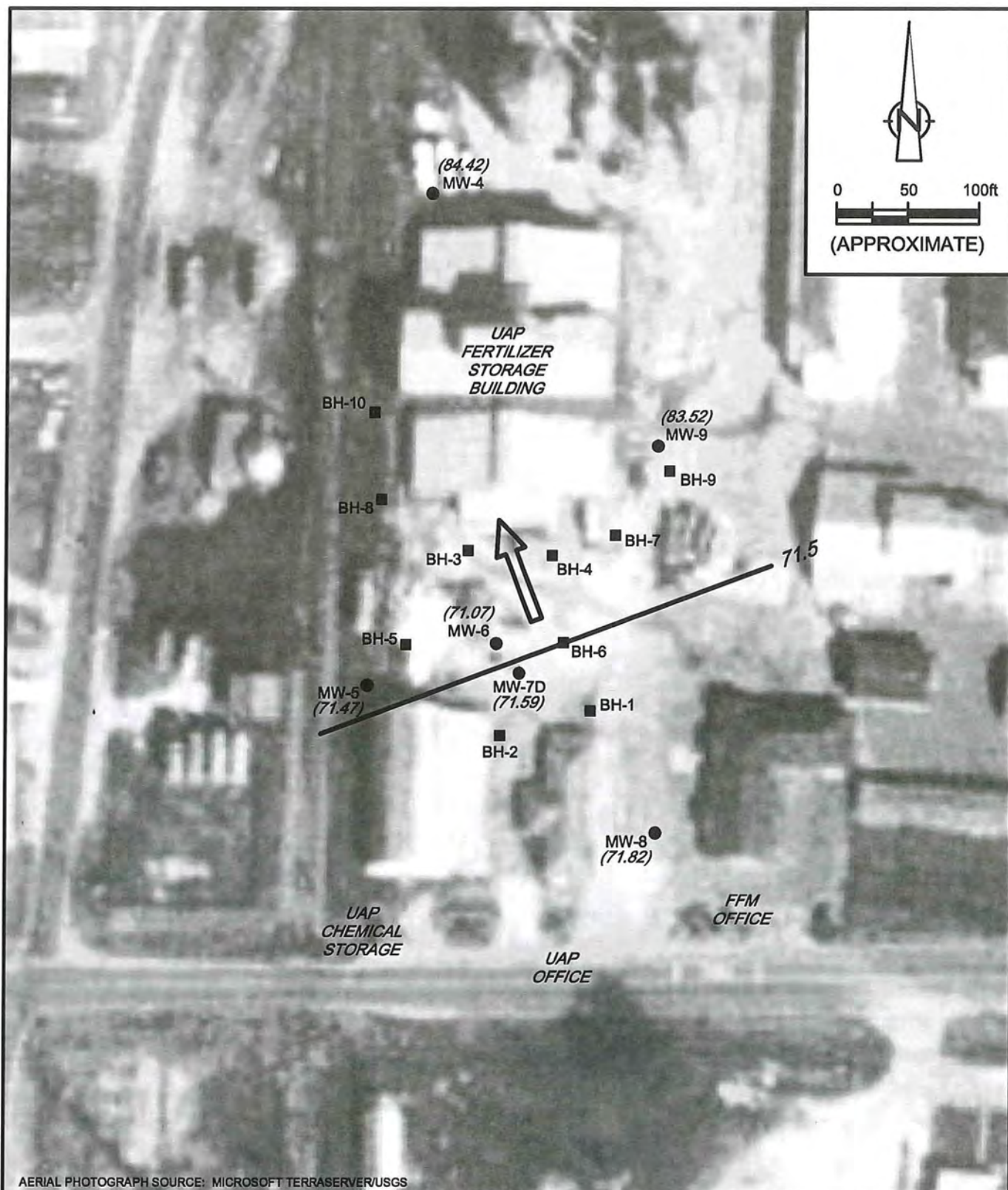


LEGEND

28 ug/Kg = PCE IN SOIL SAMPLE



figure 4
CROSS SECTION A-A'
BIRDSONG PEANUT PLANT
FARMER'S FEED AND MILLING COMPANY
Colquitt, Georgia



AERIAL PHOTOGRAPH SOURCE: MICROSOFT TERRASERVER/USGS

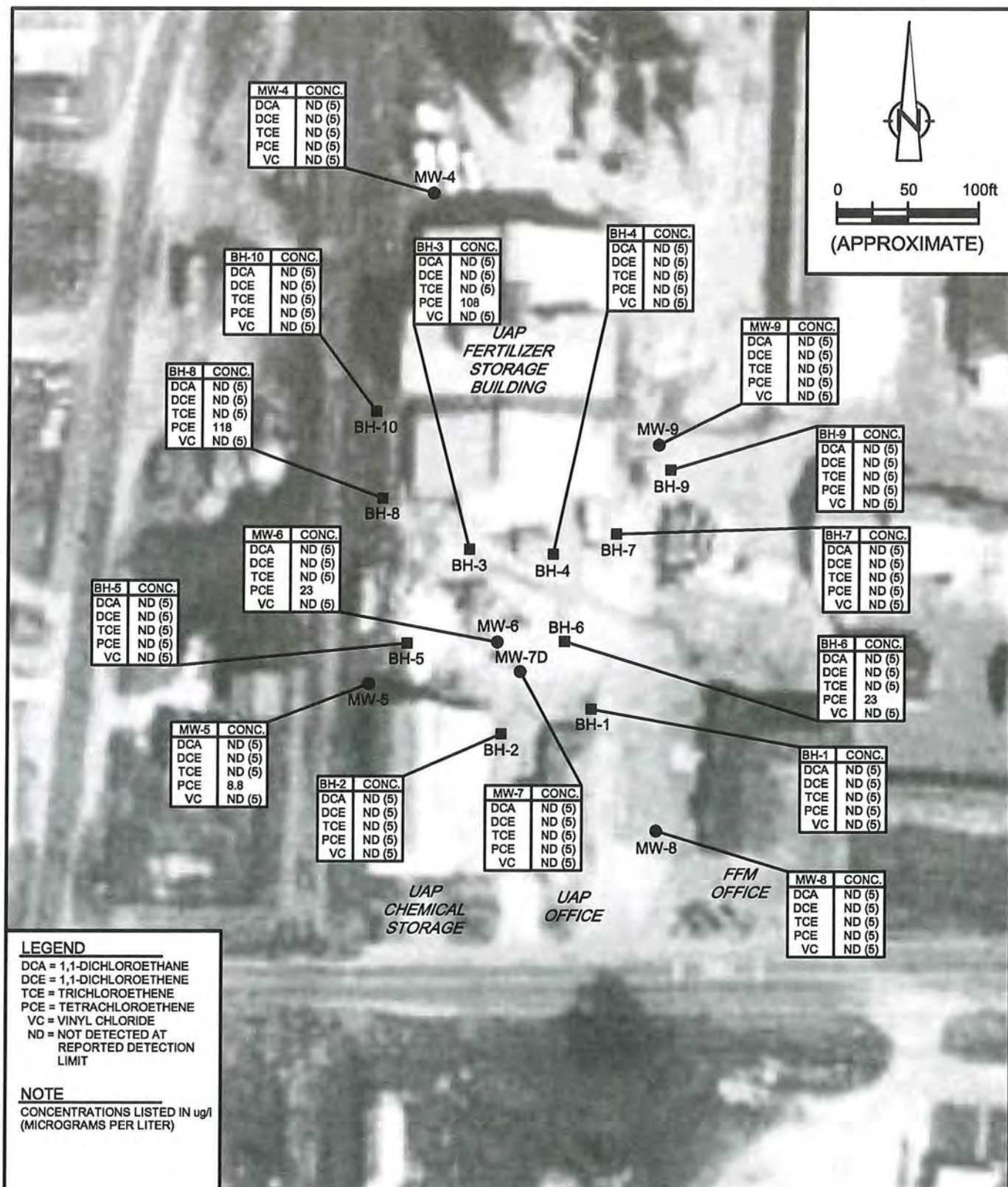
LEGEND

- MW-5 MONITORING WELL LOCATION
- BH-1 BOREHOLE LOCATION
- (729.76) GROUNDWATER ELEVATION (ft AMSL)
- 730 — GROUNDWATER CONTOUR AND ELEVATION (ft AMSL)
- ← GROUNDWATER FLOW DIRECTION



figure 5

POTENTIOMETRIC MAP
BIRDSONG PEANUT PLANT
FARMER'S FEED AND MILLING COMPANY
Colquitt, Georgia



AERIAL PHOTOGRAPH SOURCE: MICROSOFT TERRASERVER/USGS

figure 6

CONCENTRATIONS IN GROUNDWATER
 BIRDSONG PEANUT PLANT
 FARMER'S FEED AND MILLING COMPANY
 Colquitt, Georgia



TABLE 1
SUMMARY OF DPT SOIL SAMPLE ANALYTICAL RESULTS
FARMER'S FEED AND MILLING, COLQUIT, GEORGIA

DPT Boring	Sample Depth (ft)	DCA (ug/kg)	DCE (ug/kg)	TCE (ug/kg)	PCE (ug/kg)	VC (ug/kg)
BH-1	2	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	21	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
BH-2	4	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	21	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
BH-3	2	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	10	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	21	ND (5)	ND (5)	ND (5)	28	ND (5)
BH-4	1.5	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	10	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
BH-5	1	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	7.5	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	22	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
BH-6	1	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	19.5	ND (5)	ND (5)	ND (5)	7.5	ND (5)
BH-7	1	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	15	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
BH-8	1	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	25.5	ND (5)	ND (5)	ND (5)	21.3	ND (5)
BH-9	1.5	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	17.5	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
BH-10	2	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	27	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
NCs		3	360	130	18	40

Note:

DCA = 1,1-dichloroethane

DCE = 1,1-dichloroethene (total)

TCE = trichloroethene

PCE = tetrachloroethene

VC = vinyl chloride

ND = Not Detected @ (Reported Detection Limit)

NC = Notification Concentrations (from GA391-3-19 Appendix I Soil Concentrations that Trigger Notification)

TABLE 2
MONITORING WELL DATA
FARMER'S FEED AND MILLING, COLQUIT, GEORGIA

Well No.	Depth to Screen (ft bgs)	Screened Interval (elev in ft)	TOC Elevation (ft)	Depth to Water (ft bTOC)	Water Elevation (ft)
MW-4	7 - 17	86 - 76	92.70	8.28	84.42
MW-5	40 - 45	56 - 51	95.57	24.10	71.47
MW-6	50 - 55	45 - 40	94.26	23.19	71.07
MW-7d	73 - 78	21 - 16	93.75	22.16	71.59
MW-8	43 - 48	51 - 46	93.57	21.75	71.82
MW-9	17 - 27	76 - 66	92.85	9.33	83.52

Note:

TOC (Top of Casing) elevations referenced to arbitrary project benchmark of 100.00 ft

bgs = below ground surface

bTOC = below TOC

TABLE 3
SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
FARMER'S FEED AND MILLING, COLQUITT, GEORGIA

Sample Location	DCA (ug/L)	DCE (ug/L)	TCE (ug/L)	PCE (ug/L)	VC (ug/L)
BH-1	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
BH-2	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
BH-3	ND (5)	ND (5)	ND (5)	108	ND (5)
BH-5	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
BH-6	ND (5)	ND (5)	ND (5)	23	ND (5)
BH-7	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
BH-8	ND (5)	ND (5)	ND (5)	118	ND (5)
BH-9	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
BH-10	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
MW-4	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
MW-5	ND (5)	ND (5)	ND (5)	8.8	ND (5)
MW-6	ND (5)	ND (5)	ND (5)	23	ND (5)
MW-7D	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
MW-8	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
MW-9	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
GC	4000	7	5	5	2

Note:

DCA = 1,1-dichloroethane

DCE = 1,1-dichloroethene (total)

TCE = trichloroethene

PCE = tetrachloroethene

VC = vinyl chloride

ND = Not Detected @ (Reported Detection Limit)

GC = Groundwater Criteria (HSRA default cleanup standards for groundwater, Appendix III Table 1)

ATTACHMENT A
SOIL BORING AND WELL LOGS




PROJECT NAME	FFM Main Facility	PROJECT NUMBER	ALE-00-335A	PAGE 1 OF 1
FIELD ENG/GEO	Allison Long	GROUND ELEVATION (ft)		BORING NO: MW-4
RIG TYPE	CME-55	DRILLING METHOD	HSA	DATE: 8/28/00

DEPTH	SOIL/MATERIAL DESCRIPTION	ELEVATION (feet)	LITHOLOGY	SPT BLOWS	SAMPLES	WATER LEVEL	COMMENTS
0	Topsoil and grass						
	White to 10YR 6/8 brownish-yellow, fine-grained sand and silt			27			Flush mount 8" diameter manhole cover and vault.
8	5Y 7/1 light gray, dry, fine-grained, consolidated sand and silt			67			8.5 feet of 2" diameter PVC riser
	2.5Y 4/1 dark gray sand and silt in top 5"			50/4			Borehole annular space grouted with portland cement/3-5% bentonite powder slurry
16	White, weathered limestone in bottom 3"			15			3/8" bentonite pellets at 4.1' bls
	Same strata as above						10/30 sand at 5.9' bls
24	Same as above strata in top 4"			17			10 feet of 2" diameter
	10YR 5/8 yellowish-brown and light gray mottled clay						0.01" machine-slotted PVC screen (at 7.5' bls)
	Boring Terminated at 25 feet.						Well set at 17.5' bls
	GW Enc. at 9.58 feet 24 hours after drilling						
32							
40							
48							
56							

SUBSURFACE DRILL LOG

PROJECT NAME	FFM Main Facility	PROJECT NUMBER	ALE-00-335A	PAGE 1 OF 1
FIELD ENG/GEO	Alison Long	GROUND ELEVATION (ft)		BORING NO: MW-5
RIG TYPE	CME-55	DRILLING METHOD	HSA	DATE: 8/29/00

DEPTH	SOIL/MATERIAL DESCRIPTION	ELEVATION (feet)	LITHOLOGY	SPT BLOWS	SAMPLES	WATER LEVEL	COMMENTS
0	Topsoil and grass						 <p>Flush mount 8" diameter manhole cover and vault</p> <p>Borehole annular space grouted with portland cement/3-5% bentonite powder slurry</p> <p>40' of 2" diameter PVC riser</p> <p>3/8" bentonite pellets at 34.7' bls</p> <p>10/30 sand at 37.5' bls</p> <p>5' of 2" diameter 0.01" machine-slotted PVC screen (to 40' bls)</p> <p>Well set at 45' bls</p>
	10R 6/8 brownish-yellow, light gray, and 2.5YR 4/4 reddish-brown, mottled, very stiff, sandy clay			23			
8	Same strata as above except contains more light gray, very stiff			30			
	Dry, same strata as above; 5Y 8/1 white mottles dominant			29			
16	Same as above mottled, tricolor clay			27			
	Same as above strata, moist			27			
	Same strata as above, predominantly reddish-brown and brownish-yellow mottles with little white			21			
32	10YR 5/8 yellowish-brown clay; bottom 2" contains dark yellowish-brown 10YR 4/4 clasts			29			
	Same clast-containing clay as above; moist			15			
40	Same strata as above in top 4"; saturated			40			
	Friable, white limestone and clay in bottom 14"						
48	Boring Terminated at 45 feet.						
	GW Enc. at 29.80 feet 24 hours after drilling						
56							

SUBSURFACE DRILL LOG

PROJECT NAME	FFM Main Facility	PROJECT NUMBER	ALE-00-335A
FIELD ENG/GEO	Alison Long	GROUND ELEVATION (ft)	
RIG TYPE	CME-55	DRILLING METHOD	HSA

PAGE 1 OF 1
 BORING NO: MW-6
 DATE: 8/29/00


DEPTH	SOIL/MATERIAL DESCRIPTION	ELEVATION (feet)	LITHOLOGY	SPT BLOWS	SAMPLES	WATER LEVEL	COMMENTS
0	Asphalt						
	Very stiff, 7.5YR 5/8 strong brown sandy clay			9			Flush mount 8" diameter manhole cover and vault Borehole annular space grouted with portland cement/3-5% bentonite powder slurry
	Same as above clay except lighter in color 10YR 7/4 very pale brown			14			
8	Dry, light gray and 10YR 6/8 brownish-yellow mottled, sandy clay			14			
	Very stiff, same as above sandy clay, predominantly light gray			18			
16	Moist, same strata as above			15			50' of 2" diameter PVC riser
	Top same as above strata; bottom 7" has more sand and water content and is 7.5YR 7/8 reddish-yellow in color			15			
	Moist, 10YR 5/6 to 5/8 yellowish-brown sandy clay			13			
32	Moist, same as above in top 6"			9			
	Bottom 12" Very Stiff, 10YR 8/6 yellow, light gray, and 10R 6/3 pale red, mottled, fine-grained clay						3/8" bentonite pellets at 45.1' bls 10/30 sand at 47.3' bls 5' of 2" diameter 0.01" machine-slotted PVC screen (at 50' bls)
40	Same strata as above			10			
	Same strata as above becoming darker and more uniform in color. 10YR 5/6 yellowish-brown in bottom 7" of spoon.			4			
48	Same strata as above in top 10"; sandy clay containing clasts in bottom 3"			WOR			
	Same clay containing clasts in top 4" of sample			19			Well set at 55' bls
56	Friable, white limestone in bottom 5" of sample						
	Boring Terminated at 55 feet.						
	GW Enc. at 28.46 feet 24 hours after drilling						




STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(AL-01)
Page 1 of 1

PROJECT NAME: BIRDSONG PEANUT PLANT
PROJECT NUMBER: 18283-01
CLIENT: FFM
LOCATION: COLQUITT, GEORGIA

HOLE DESIGNATION: BH-1
DATE COMPLETED: JULY 16, 2001
DRILLING METHOD: DPT
CRA SUPERVISOR: DAVID BRYTOWSKI

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft. AMSL	MONITOR INSTALLATION	SAMPLE			
				NUMBER	STATE	'N' VALUE	PID (ppm)
	REFERENCE POINT (Top of Riser) GROUND SURFACE	0.00 0.00					
-2.5	SM-SAND and SILT (NATIVE), black, moist, organic		 <div style="position: absolute; left: 690px; top: 260px;">2"Ø BOREHOLE</div> <div style="position: absolute; left: 690px; top: 300px;">BENTONITE CHIPS</div>	IDP		--	5.0
-5.0	SM-SILT and SAND, tan, moist	-5.5		2DP		--	3.8
-7.5	- sand grades into clay						
-10.0	CL-CLAY, stiff, tan, moist	-10.0		3DP		--	2.0
-12.5	- orange brown clay						
-15.0				4DP		--	2.4
-17.5							
-20.0				5DP		--	2.6
-22.5							
-25.0	- saturated seam			6DP		--	2.5
-27.5				7DP		--	--
-30.0	END OF HOLE @ 30.0ft BGS	-30.0					
-32.5							

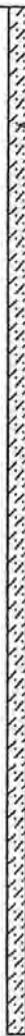
NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND  STATIC WATER LEVEL 
CHEMICAL ANALYSIS 

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(AL-02)
Page 1 of 1

PROJECT NAME: BIRDSONG PEANUT PLANT
PROJECT NUMBER: 18283-01
CLIENT: FFM
LOCATION: COLQUITT, GEORGIA

HOLE DESIGNATION: BH-2
DATE COMPLETED: JULY 16, 2001
DRILLING METHOD: DPT
CRA SUPERVISOR: DAVID BRYTOWSKI

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft. AMSL	MONITOR INSTALLATION	SAMPLE			
				NUMBER	STATE	'N' VALUE	PID (ppm)
	REFERENCE POINT (Top of Riser) GROUND SURFACE	0.00 0.00					
-2.5	CL-CLAY and SAND (NATIVE), moist	-3.0	 <div>2"Ø BOREHOLE</div> <div>BENTONITE CHIPS</div>	1DP	X	--	1.3
-5.0	CL-CLAY, very stiff, red/white/brown, moist			2DP	X	--	1.2
-7.5				3DP	X	--	--
-10.0		-12.0		4DP	X	--	1.8
-12.5	CL-CLAY, some sand, very stiff, white/red, moist			5DP	X	--	1.8
-15.0	- moisture increasing			6DP	X	--	2.0
-17.5	- some loose sand lenses	-21.0		7DP	X	--	--
-20.0				8DP	X	--	--
-22.5	SM/CL-SAND and CLAY, saturated, alternated layering	-26.0					
-25.0	- saturated zone of (SM)						
-27.5	END OF HOLE @ 26.0ft BGS						
-30.0							
-32.5							

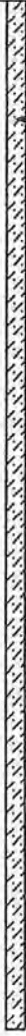
NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▼ STATIC WATER LEVEL ▼
CHEMICAL ANALYSIS ○

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(AL-03)
Page 1 of 1

PROJECT NAME: BIRDSONG PEANUT PLANT
PROJECT NUMBER: 18283-01
CLIENT: FFM
LOCATION: COLQUITT, GEORGIA

HOLE DESIGNATION: BH-3
DATE COMPLETED: JULY 16, 2001
DRILLING METHOD: DPT
CRA SUPERVISOR: DAVID BRYTOWSKI

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft. AMSL	MONITOR INSTALLATION	SAMPLE			
				NUMBER	STATE	'N' VALUE	PID (ppm)
	REFERENCE POINT (Top of Riser) GROUND SURFACE	0.00 0.00					
	CL-CLAY (ALLUVIUM)						
-2.5	CL-CLAY (NATIVE), silt and sand, medium soft, moist	-1.0	 <div style="position: absolute; left: 635px; top: 265px;">2"Ø BOREHOLE</div> <div style="position: absolute; left: 635px; top: 300px;">BENTONITE CHIPS</div>	1DP	X	--	2.1
-5.0	CL-CLAY and SAND, stiff, brown and red mottled, moist	-3.0 -4.0		2DP	X	--	2.5
-7.5				3DP	X	--	1.6
-10.0				4DP	X	--	2.2
-12.5				5DP	X	--	2.7
-15.0	- 1" lense of loose sand			6DP	X	--	2.7
-17.5				7DP	X	--	--
-20.0	- saturated			8DP	X	--	--
-22.5							
-25.0	WEATHERED ROCK	-25.5 -26.0					
-27.5	END OF HOLE @ 26.0ft BGS						
-30.0							
-32.5							


NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▼ STATIC WATER LEVEL ▼
CHEMICAL ANALYSIS ○

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(AL-04)
Page 1 of 1

PROJECT NAME: BIRDSONG PEANUT PLANT
PROJECT NUMBER: 18283-01
CLIENT: FFM
LOCATION: COLQUITT, GEORGIA

HOLE DESIGNATION: BH-4
DATE COMPLETED: JULY 17, 2001
DRILLING METHOD: DPT
CRA SUPERVISOR: DAVID BRYTOWSKI

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft. AMSL	MONITOR INSTALLATION	SAMPLE			
				NUMBER	STATE	'N' VALUE	PID (ppm)
	REFERENCE POINT (Top of Riser) GROUND SURFACE	0.00 0.00					
	CL-CLAY/SAND/SILT (FILL)						
-2.5	CL-CLAY and SAND (NATIVE), very stiff, gray and red, moist	-1.2	 <div style="position: absolute; left: 635px; top: 260px;">2"Ø BOREHOLE</div> <div style="position: absolute; left: 635px; top: 300px;">BENTONITE CHIPS</div>	1DP	X	--	1.2
-5.0				2DP	X	--	1.4
-7.5	CL-CLAY and SAND, soft, tan, moist	-6.7		3DP	X	--	5.2
-10.0	CL-CLAY, soft, saturated	-9.2					
	WEATHERED ROCK	-10.0					
	END OF HOLE @ 11.0ft BGS	-11.0					
-12.5							
-15.0							
-17.5							
-20.0							
-22.5							
-25.0							
-27.5							
-30.0							
-32.5							

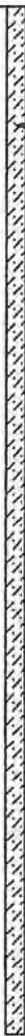
NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ▼ STATIC WATER LEVEL ▼
 CHEMICAL ANALYSIS ○

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: BIRDSONG PEANUT PLANT
PROJECT NUMBER: 18283-01
CLIENT: FFM
LOCATION: COLQUITT, GEORGIA

HOLE DESIGNATION: BH-5
DATE COMPLETED: JULY 17, 2001
DRILLING METHOD: DPT
CRA SUPERVISOR: DAVID BRYTOWSKI

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft. AMSL	MONITOR INSTALLATION	SAMPLE			
				NUMBER	STATE	'N' VALUE	PID (ppm)
	REFERENCE POINT (Top of Riser) GROUND SURFACE	0.00 0.00					
-2.5	CL-CLAY and SAND (FILL), soft, tan, moist, strong ammonia odor	-5.0	 <div>2"Ø BOREHOLE</div> <div>BENTONITE CHIPS</div>	1DP	X	--	71.2
-5.0	CL-CLAY and SAND (NATIVE), very stiff, gray brown mottled, low to moderate moisture - moisture increasing - very moist to saturated			2DP	X	--	17.1
-7.5					X	--	
-10.0				3DP	X	--	11.9
-12.5				4DP	X	--	8.6
-15.0				5DP	X	--	4.9
-17.5				6DP	X	--	3.1
-20.0					X	--	
-22.5		7DP	X	--	1.8		
-25.0		8DP	X	--	1.1		
-26.0	END OF HOLE @ 26.0ft BGS	-26.0					
-27.5							
-30.0							
-32.5							


NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▼ STATIC WATER LEVEL ▼
CHEMICAL ANALYSIS ○

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(AL-06)
Page 1 of 1

PROJECT NAME: BIRDSONG PEANUT PLANT
PROJECT NUMBER: 18283-01
CLIENT: FFM
LOCATION: COLQUITT, GEORGIA

HOLE DESIGNATION: BH-6
DATE COMPLETED: JULY 17, 2001
DRILLING METHOD: DPT
CRA SUPERVISOR: DAVID BRYTOWSKI

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft. AMSL	MONITOR INSTALLATION	SAMPLE			
				NUMBER	STATE	'N' VALUE	PID (ppm)
	REFERENCE POINT (Top of Riser) GROUND SURFACE	0.00 0.00					
	SM-SAND and SILT (FILL), loose, dark gray, moist	-1.8	 2"Ø BOREHOLE BENTONITE CHIPS	10P	X	--	1.2
-2.5	CL-CLAY and SAND (NATIVE), stiff, gray and brown, moist			20P	X	--	0.3
-5.0				30P	X	--	--
-7.5	- sand decreasing	40P		X	--	0.0	
-10.0	CL-CLAY, very stiff, little to no sand, red brown gray mottled, moist	50P		X	--	0.0	
-12.5		60P		X	--	0.0	
-15.0	- very moist	70P		X	--	--	
-17.5		80P		X	--	--	
-20.0	CL-CLAY, with saturated sand zones throughout	-24.0					
-22.5							
-25.0	AUGER REFUSAL, END OF HOLE @ 24.0ft BGS						
-27.5							
-30.0							
-32.5							


NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▼ STATIC WATER LEVEL ▼
CHEMICAL ANALYSIS ○

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(AL-07)
Page 1 of 1

PROJECT NAME: BIRDSONG PEANUT PLANT
PROJECT NUMBER: 18283-01
CLIENT: FFM
LOCATION: COLQUITT, GEORGIA

HOLE DESIGNATION: BH-7
DATE COMPLETED: JULY 17, 2001
DRILLING METHOD: DPT
CRA SUPERVISOR: DAVID BRYTOWSKI

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft. AMSL	MONITOR INSTALLATION	SAMPLE			
				NUMBER	STATE	"N" VALUE	PID (ppm)
	REFERENCE POINT (Top of Riser) GROUND SURFACE	0.00 0.00					
	CL-CLAY/SILT/SAND (FILL)						
-2.5	CL-CLAY and SAND (NATIVE), stiff, gray and brown, moist	-1.0	 <div style="position: absolute; left: 635px; top: 255px;">2"Ø BOREHOLE</div> <div style="position: absolute; left: 635px; top: 295px;">BENTONITE CHIPS</div>	1DP	X	--	0.0
-5.0				2DP	X	--	0.0
-7.5				3DP	X	--	0.0
-10.0				4DP	X	--	0.0
-12.5	- 4" zone loose sand and clay, very moist .L-16 CL-CLAY and SAND, soft, saturated, alternating layers			5DP	X	--	--
-15.0		-16.0		6DP	X	--	--
-17.5							
-20.0							
-22.5	END OF HOLE @ 22.0ft BGS	-22.0					
-25.0							
-27.5							
-30.0							
-32.5							

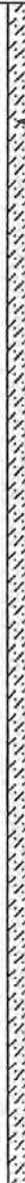
NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▼ STATIC WATER LEVEL ▼
CHEMICAL ANALYSIS ○

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(AL-08)
Page 1 of 1

PROJECT NAME: BIRDSONG PEANUT PLANT
PROJECT NUMBER: 18283-01
CLIENT: FFM
LOCATION: COLQUITT, GEORGIA

HOLE DESIGNATION: BH-8
DATE COMPLETED: JULY 17, 2001
DRILLING METHOD: DPT
CRA SUPERVISOR: DAVID BRYTOWSKI

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft. AMSL	MONITOR INSTALLATION	SAMPLE			
				NUMBER	STATE	'N' VALUE	PID (ppm)
	REFERENCE POINT (Top of Riser) GROUND SURFACE	0.00 0.00					
-2.5	CL-CLAY and SAND (FILL), moderately stiff, brown, moist		 <div>2"Ø BOREHOLE</div> <div>BENTONITE CHIPS</div>	1DP	X	--	--
-5.0				2DP	X	--	--
-7.5	CL-CLAY/SAND/SILT (NATIVE), brown, low moisture	-7.0		3DP	X	--	0.0
-10.0	CL-CLAY, trace sand, stiff, gray brown mottled, moist	-10.0		4DP	X	--	0.0
-12.5				5DP	X	--	0.0
-15.0				6DP	X	--	--
-17.5				7DP	X	--	0.0
-20.0				8DP	X	--	0.0
-22.5				9DP	X	--	0.0
-25.0				10DP	X	--	--
-27.5				- trace gravel - saturated			
-30.0	END OF HOLE @ 30.0ft BGS	-30.0					
-32.5							


NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ☒ STATIC WATER LEVEL ☒
CHEMICAL ANALYSIS ☐


STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: BIRDSONG PEANUT PLANT
PROJECT NUMBER: 18283-01
CLIENT: FFM
LOCATION: COLQUITT, GEORGIA

HOLE DESIGNATION: BH-9
DATE COMPLETED: JULY 18, 2001
DRILLING METHOD: DPT
CRA SUPERVISOR: DAVID BRYTOWSKI

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft. AMSL	MONITOR INSTALLATION	SAMPLE			
				NUMBER	STATE	'N' VALUE	PID (ppm)
	REFERENCE POINT (Top of Riser) GROUND SURFACE	0.00 0.00					
-2.5	SM-SAND and SILT (FILL), trace clay, tan, moist CL-CLAY (NATIVE), some sand and silt, stiff, tan, moist - gray and red mottled	-1.5	 <p>2"Ø BOREHOLE BENTONITE CHIPS</p>	1DP	X	--	0.0
-5.0				2DP	X	--	0.0
-7.5				3DP	X	--	0.0
-10.0	- moisture increasing			4DP	X	--	--
-12.5				5DP	X	--	--
-15.0				6DP	X	--	--
-17.5				7DP	X	--	--
-20.0	END OF HOLE @ 19.5ft BGS	-19.5					
-22.5							
-25.0							
-27.5							
-30.0							
-32.5							


NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇ STATIC WATER LEVEL ∇
CHEMICAL ANALYSIS 


STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(AL-10)
Page 1 of 2

PROJECT NAME: BIRDSONG PEANUT PLANT
PROJECT NUMBER: 18283-01
CLIENT: FFM
LOCATION: COLQUITT, GEORGIA

HOLE DESIGNATION: BH-10
DATE COMPLETED: JULY 18, 2001
DRILLING METHOD: DPT
CRA SUPERVISOR: DAVID BRYTOWSKI

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft. AMSL	MONITOR INSTALLATION	SAMPLE			
				NUMBER	STATE	'N' VALUE	PID (ppm)
	REFERENCE POINT (Top of Riser) GROUND SURFACE	0.00 0.00					
-2.5	CL-CLAY and SAND (ALLUVIUM), soft, brown, moist		 <div style="position: absolute; left: 630px; top: 260px;">2"Ø BOREHOLE</div> <div style="position: absolute; left: 630px; top: 300px;">BENTONITE CHIPS</div>	1DP	X	--	0.0
-5.0	- stiff			2DP	X	--	0.0
-7.5	CL-CLAY (NATIVE), some sand, very stiff, brown, low moisture	-7.0		3DP	X	--	0.0
-10.0	CL-CLAY, trace sand, gray brown mottled, moist	-10.0		4DP	X	--	0.0
-12.5				5DP	X	--	0.0
-15.0				6DP	X	--	0.0
-17.5				7DP	X	--	0.0
-20.0				8DP	X	--	0.0
-22.5	CL-CLAY and SAND - very moist	-22.0		9DP	X	--	--
-25.0				10DP	X	--	--
-27.5	-saturated			11DP	X	--	--
-30.0							
-32.5							


NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇ STATIC WATER LEVEL ∇
CHEMICAL ANALYSIS 

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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Page 2 of 2

PROJECT NAME: BIRDSONG PEANUT PLANT
PROJECT NUMBER: 18283-01
CLIENT: FFM
LOCATION: COLQUITT, GEORGIA

HOLE DESIGNATION: BH-10
DATE COMPLETED: JULY 18, 2001
DRILLING METHOD: DPT
CRA SUPERVISOR: DAVID BRYTOWSKI

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft. AMSL	MONITOR INSTALLATION	SAMPLE			
				NUMBER	STATE	"N" VALUE	PID (ppm)
				12DP	X	--	--
				13DP	X	--	--
				14DP	X	--	--
				15DP	X	--	--
				16DP	X	--	--
				17DP	X	--	--
				18DP	X	--	--
-37.5	END LOG 37ft	-37.0	 <div style="position: absolute; left: 690px; top: 260px;">2"Ø BOREHOLE</div> <div style="position: absolute; left: 690px; top: 320px;">BENTONITE CHIPS</div>				
-40.0							
-42.5							
-45.0							
-47.5							
-50.0							
-52.5	END OF HOLE @ 52.0ft BGS	-52.0					
-55.0							
-57.5							
-60.0							
-62.5							
-65.0							
-67.5							

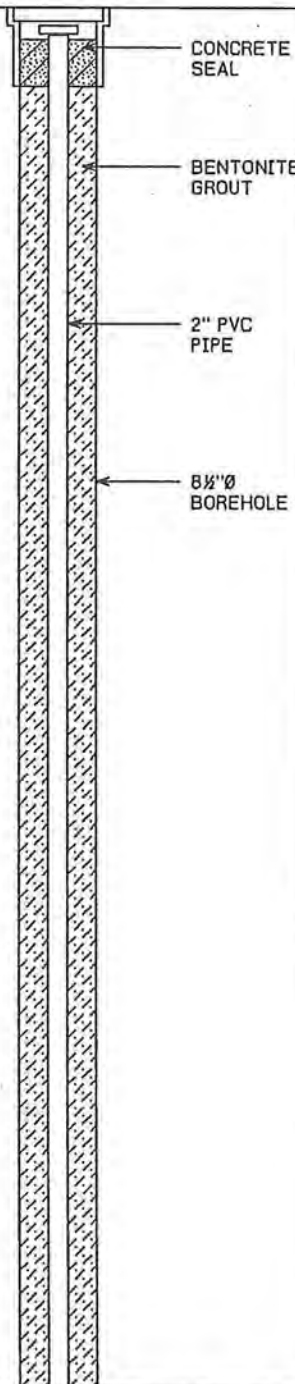
NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ☒ STATIC WATER LEVEL ☒
 CHEMICAL ANALYSIS ☐

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(AL-11)
Page 1 of 3

PROJECT NAME: BIRDSONG PEANUT PLANT
PROJECT NUMBER: 18283-01
CLIENT: FFM
LOCATION: COLQUITT, GEORGIA

HOLE DESIGNATION: MW-7D
DATE COMPLETED: JULY 26, 2001
DRILLING METHOD: 4 1/4" Ø HSA/MUD ROTARY
CRA SUPERVISOR: DAVID BRYTOWSKI

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft. AMSL	MONITOR INSTALLATION	SAMPLE			
				NUMBER	STATE	'N' VALUE	PID (ppm)
	GROUND SURFACE REFERENCE POINT (Top of Riser)	94.0 93.75					
-2.5			 <p>CONCRETE SEAL</p> <p>BENTONITE GROUT</p> <p>2" PVC PIPE</p> <p>8 1/2" Ø BOREHOLE</p>				
-5.0							
-7.5							
-10.0							
-12.5							
-15.0							
-17.5							
-20.0							
-22.5							
-25.0							
-27.5							
-30.0							
-32.5							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▼ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(AL-11)
Page 2 of 3

PROJECT NAME: BIRDSONG PEANUT PLANT
PROJECT NUMBER: 18283-01
CLIENT: FFM
LOCATION: COLQUITT, GEORGIA

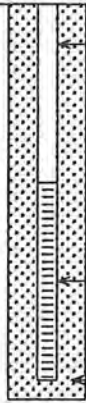
HOLE DESIGNATION: MW-7D
DATE COMPLETED: JULY 26, 2001
DRILLING METHOD: 4 1/2" Ø HSA/MUD ROTARY
CRA SUPERVISOR: DAVID BRYTOWSKI

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft. AMSL	MONITOR INSTALLATION	SAMPLE			
				NUMBER	STATE	'N' VALUE	PID (ppm)
37.5			8 1/2" Ø BOREHOLE				
40.0			BENTONITE GROUT				
42.5							
45.0			2" PVC PIPE				
47.5							
50.0							
52.5							
55.0							
57.5							
60.0			BENTONITE PELLETS				
62.5							
65.0							
67.5							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▼ STATIC WATER LEVEL ▼

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HOLE DESIGNATION: MW-7D
DATE COMPLETED: JULY 26, 2001
DRILLING METHOD: 4 1/2"Ø HSA/MUD ROTARY
CRA SUPERVISOR: DAVID BRYTOWSKI

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft. AMSL	MONITOR INSTALLATION	SAMPLE			
				NUMBER	STATE	'N' VALUE	PID (ppm)
-72.5			 <p>2" PVC PIPE</p> <p>8 1/2" Ø BOREHOLE</p> <p>WELL SCREEN</p> <p>SAND PACK</p> <p><u>SCREEN DETAILS</u> Screened Interval: 74.5 to 79.5ft BGS Length: 5.0ft Diameter: 2" Slot Size: #10 Material: PVC Sand Pack: 70.0 to 80.0ft BGS Material: #10/30 Sand and Natural Sand</p>				
-75.0							
-77.5							
-80.0	END OF HOLE @ 80.0ft BGS	14.0					
-82.5							
-85.0							
-87.5							
-90.0							
-92.5							
-95.0							
-97.5							
-100.0							
-102.5							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

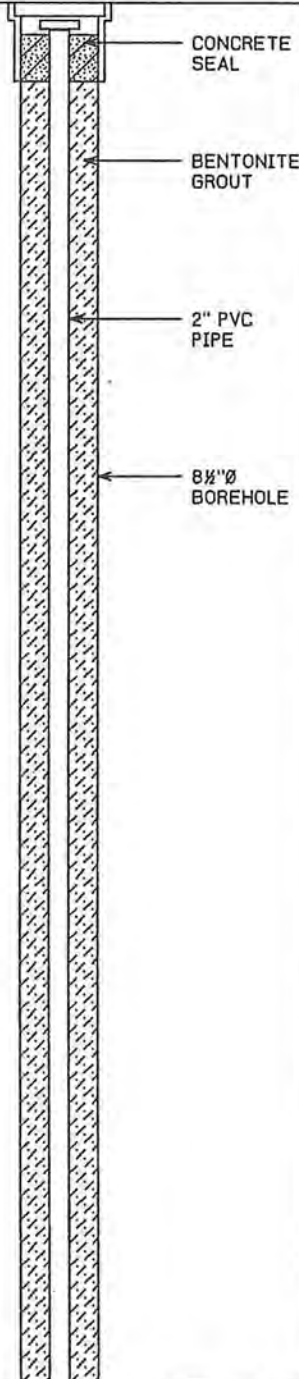
WATER FOUND STATIC WATER LEVEL

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(AL-12)
Page 1 of 2

PROJECT NAME: BIRDSONG PEANUT PLANT
PROJECT NUMBER: 18283-01
CLIENT: FFM
LOCATION: COLQUITT, GEORGIA

HOLE DESIGNATION: MW-8
DATE COMPLETED: JULY 26, 2001
DRILLING METHOD: 4 1/4" Ø HSA
CRA SUPERVISOR: DAVID BRYTOWSKI

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft. AMSL	MONITOR INSTALLATION	SAMPLE			
				NUMBER	STATE	'N' VALUE	PID (ppm)
	GROUND SURFACE REFERENCE POINT (Top of Riser)	93.8 93.57					
-2.5			 <p>CONCRETE SEAL</p> <p>BENTONITE GROUT</p> <p>2" PVC PIPE</p> <p>8 1/2" Ø BOREHOLE</p>				
-5.0							
-7.5							
-10.0							
-12.5							
-15.0							
-17.5							
-20.0							
-22.5							
-25.0							
-27.5							
-30.0							
-32.5							

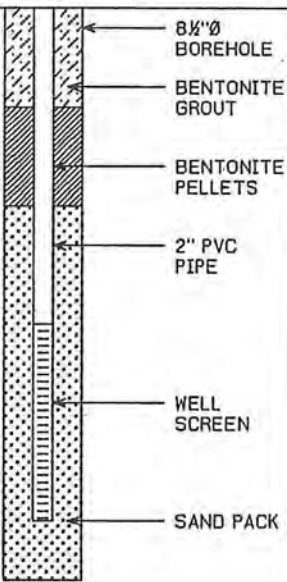
NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽ STATIC WATER LEVEL ▽

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(AL-12)
Page 2 of 2

PROJECT NAME: BIRDSONG PEANUT PLANT
PROJECT NUMBER: 18283-01
CLIENT: FFM
LOCATION: COLQUITT, GEORGIA

HOLE DESIGNATION: MW-8
DATE COMPLETED: JULY 26, 2001
DRILLING METHOD: 4 1/4"Ø HSA
CRA SUPERVISOR: DAVID BRYTOWSKI

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft. AMSL	MONITOR INSTALLATION	SAMPLE			
				NUMBER	STATE	'N' VALUE	PID (ppm)
<div> <div>37.5</div> <div>40.0</div> <div>42.5</div> <div>45.0</div> <div>47.5</div> <div>50.0</div> <div>52.5</div> <div>55.0</div> <div>57.5</div> <div>60.0</div> <div>62.5</div> <div>65.0</div> <div>67.5</div> </div>			 <p>8 1/2"Ø BOREHOLE BENTONITE GROUT BENTONITE PELLETS 2" PVC PIPE WELL SCREEN SAND PACK</p> <p>SCREEN DETAILS Screened Interval: 43.0 to 48.0ft BGS Length: 5.0ft Diameter: 2" Slot Size: #10 Material: PVC Sand Pack: 40.0 to 49.5ft BGS Material: #10/30 Sand</p>				

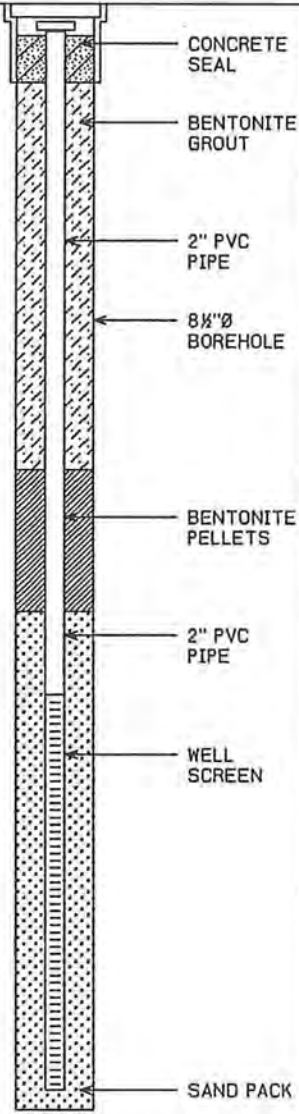
NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▼ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(AL-13)
Page 1 of 1

PROJECT NAME: BIRDSONG PEANUT PLANT
PROJECT NUMBER: 18283-01
CLIENT: FFM
LOCATION: COLQUITT, GEORGIA

HOLE DESIGNATION: MW-9
DATE COMPLETED: JULY 26, 2001
DRILLING METHOD: 4M"Ø HSA
CRA SUPERVISOR: DAVID BRYTOWSKI

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft. AMSL	MONITOR INSTALLATION	SAMPLE			
				NUMBER	STATE	'N' VALUE	PID (ppm)
	GROUND SURFACE REFERENCE POINT (Top of Riser)	93.1 92.85					
-2.5			 <p>CONCRETE SEAL</p> <p>BENTONITE GROUT</p> <p>2" PVC PIPE</p> <p>8 1/2"Ø BOREHOLE</p> <p>BENTONITE PELLETS</p> <p>2" PVC PIPE</p> <p>WELL SCREEN</p> <p>SAND PACK</p> <p>SCREEN DETAILS: Screened Interval: 17.5 to 27.5ft BGS Length: 10.0ft Diameter: 2" Slot Size: #10 Material: PVC Sand Pack: 15.4 to 28.0ft BGS Material: #10/30 Sand</p>				
-5.0							
-7.5							
-10.0							
-12.5							
-15.0							
-17.5							
-20.0							
-22.5							
-25.0							
-27.5							
-30.0							
-32.5							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▼ STATIC WATER LEVEL ▼

Client Information:

Client: **Conestoga Rover Associates**
1351 Oakbrook Drive
Norcross, GA 30093
Project Mgr: Thom Lawrence

Client Project Information:

Project: Birdsong Peanut
Project No.:
Collected by:

Laboratory Project Information:

Lab Number: 4-010558
Date Collected: 7/16-18/01
Date Received: 7/16-18/01

Case Summary:

- 1) Samples were received in good condition and between 0 and 4°C.
- 2) Samples were analyzed following current EPA Methodologies and the standards of NELAP.
- 3) No QA/QC problems were encountered during the analysis of the samples.

Data Approved by:

Phillip Hathcock

Date: *7/21/01*

Phillip Hathcock
Laboratory Technical Director

ESN Southeast is certified/approved to conduct environmental analytical testing in the following states:

California #2121, Florida #990184, Tennessee, Alabama, Georgia.

ESN Southeast adheres to the standards set forth by the National Environmental Laboratory Accreditation Program (NELAP).

CERTIFICATE OF ANALYSIS

Volatile Organic Compounds by GC/MS
EPA Method 8260B

Client Information:

Client: Conestoga Rover Associates
1351 Oakbrook Drive
Norcross, GA 30093
Project Mgr: Thom Lawrence

Laboratory Information:

Lab Number: 4-010558
Date Collected: 7/16-18/01
Date Received: 7/16-18/01
Date Analyzed: 7/16-18/01

Project Information:

Project: Birdsong Peanut
Project No.:
Collected by:

Sample Information:

Sample Matrix: Soil

SAMPLE ID	Vinyl Chloride mg/Kg	Dichloroethane mg/Kg	Dichloroethene mg/Kg	Trichloroethene mg/Kg	Tetrachloroethene mg/Kg	Surr. Rec (%)	Data Qual.
Method Blank	ND	ND	ND	ND	ND	89	
BH-1 2'	ND	ND	ND	ND	ND	91	
BH-1 21'	ND	ND	ND	ND	ND	88	
BH-2 4'	ND	ND	ND	ND	ND	95	
BH-2 21'	ND	ND	ND	ND	ND	101	
BH-3 2'	ND	ND	ND	ND	ND	106	
BH-3 21'	ND	ND	ND	ND	28.0	95	
BH-3 10'	ND	ND	ND	ND	ND	94	
BH-4 1.5'	ND	ND	ND	ND	ND	103	
BH-4 10'	ND	ND	ND	ND	ND	79	
BH-5 1'	ND	ND	ND	ND	ND	85	
BH-5 7.5'	ND	ND	ND	ND	ND	88	
BH-5 22'	ND	ND	ND	ND	ND	104	
BH-6 1'	ND	ND	ND	ND	ND	103	
BH-6 19.5'	ND	ND	ND	ND	7.5	95	
BH-7 1'	ND	ND	ND	ND	ND	99	
BH-7 15'	ND	ND	ND	ND	ND	106	
BH-8 1'	ND	ND	ND	ND	ND	87	
BH-8 25.5'	ND	ND	ND	ND	21.3	99	
BH-9 1.5'	ND	ND	ND	ND	ND	101	
BH-9 17.5'	ND	ND	ND	ND	ND	110	
BH-10-2'	ND	ND	ND	ND	ND	101	
BH-10 27'	ND	ND	ND	ND	ND	96	

DATA QUALIFIERS:

*PQL - Practical Quantitation Limit

**Results listed as 'ND' were NOT DETECTED
at or above the listed PQL.

CERTIFICATE OF ANALYSIS

Volatile Organic Compounds by GC/MS
EPA Method 8260B

Client Information:

Client: Conestoga Rover Associates
1351 Oakbrook Drive
Norcross, GA 30093
Project Mgr: Thom Lawrence

Laboratory Information:

Lab Number: 4-010558
Date Collected: 7/16-18/01
Date Received: 7/16-18/01
Date Analyzed: 7/16-18/01

Project Information:

Project: Birdsong Peanut

Project No.:
Collected by:

Sample Information:

Sample Matrix: Water

SAMPLE ID	Vinyl Chloride ug/L	Dichloroethane ug/L	Dichloroethene ug/L	Trichloroethene ug/L	Tetrachloroethene ug/L	Surr. Rec (%)	Data Qual.
Method Blank	ND	ND	ND	ND	ND	99	
BH-1	ND	ND	ND	ND	ND	97	
BH-2	ND	ND	ND	ND	ND	105	
BH-3	ND	ND	ND	ND	108	107	
BH-5	ND	ND	ND	ND	ND	103	
BH-6	ND	ND	ND	ND	23.0	99	
BH-7	ND	ND	ND	ND	ND	96	
BH-8	ND	ND	ND	ND	118	89	
BH-9	ND	ND	ND	ND	ND	93	
BH-10	ND	ND	ND	ND	ND	102	

DATA QUALIFIERS:

*PQL - Practical Quantitation Limit

**Results listed as 'ND' were NOT DETECTED
at or above the listed PQL.

3600-C Kennesaw N. Ind. Pkwy. ■ Kennesaw, GA 30144 ■ 770-919-0805 ■ Fax 770-919-0806

CLIENT: Conestoga Rivers Assoc.
ADDRESS: 1351 Oakbrook Dr Ste 150
CITY: Norcross STATE: GA ZIP: 30093
PHONE: 770-441-0027 FAX: 770-441-2050
CLIENT PROJECT #: _____ PROJECT MANAGER: _____

DATE: 7/16/01 PAGE 1 OF _____
ESN PROJECT #: Budsong Peanut
LOCATION: _____
COLLECTOR: _____ DATE OF COLLECTION: _____

[illegible]

CHAIN-OF-CUSTODY RECORD

[illegible]

SAMPLE COLLECTION DATA SHEET - GROUNDWATER SAMPLING PROGRAM

PROJECT NAME FFM CSR PROJECT NO. 18283-01

SAMPLING CREW MEMBERS DJB & TAL SUPERVISOR _____

DATE OF SAMPLE COLLECTION 8/2/01

[Note: For 2" dia. well, 1 ft. = 0.14 gal (imp) or 0.16 gal (us)]

Sample I.D. Number	Well Number	Measuring Point Elev. (ft. AMSL)	Bottom Depth (ft. btoc)	Water Depth (ft. btoc)	Water Elevation (ft. AMSL)	Well Volume (gallons)	Bailer Volume No. Bails	Volume Purged (gallons)	Field pH	Field Temp.	Field Cond.	Time	Sample Description & Analysis
101	MW-9												
102	MW-5												
103	MW-8												
104	MW-7D												
105	MW-6												
106	MW-4												
107	blank												

Additional Comments: _____

Copies to: _____

CRA



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

August 08, 2001

David Brytowski
Conestoga, Rovers, & Associates, Inc.
1351 Oakbrook Drive
Suite 150
Norcross, GA 30093
TEL: (770) 441-0027
FAX (770) 441-2050

RE: Peanut Plant

Order No.: 0108101

Dear David Brytowski:

Analytical Environmental Servs, Inc. received 7 samples on 8/3/01 2:16:00 PM for the analyses presented in the following report.

No problems were encountered during analyses. Additionally, all results for the associated quality control samples were within EPA and/or AES established limits except where noted in the project Case Narrative.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Jason Holloway
Project Manager

CRA**CONESTOGA-ROVERS & ASSOCIATES, INC.**
1351 Oakbrook Drive Suite 150
Norcross, GA 30093 770-441-0027

SHIPPED TO (Laboratory Name):

AES

No 2224

REFERENCE NUMBER:

18283-01

PROJECT NAME:

Peanut Plant

CHAIN OF CUSTODY RECORDSAMPLER'S
SIGNATURE:*David Brytowski*

PRINTED

NAME:

David Brytowski

SEQ.
NO.

DATE

TIME

SAMPLE NUMBER

SAMPLE
TYPENO. OF
CONTAINERS

PARAMETERS

REMARKS

0108101

8-2-01

GW-080201 DJB-001

water

X

Standard TAT

GW-080201 TAL 102

X

GW-080201 DJB 103

X

GW-080201 TAL 104

X

Select VOCs

GW-080201 TAL 105

X

include

8-2-01

GW-080201 TAL 106

water

X

PCE, TCE

Trip Blank

X

cis-1,2 dichloroethane

trans-1,2 dichloroethane

and vinyl chloride

TOTAL NUMBER OF CONTAINERS

RELINQUISHED BY:

①

David Brytowski

DATE: 8/3-01

TIME:

RECEIVED BY:

②

DATE:

TIME:

RELINQUISHED BY:

②

DATE:

TIME:

RECEIVED BY:

③

DATE:

TIME:

RELINQUISHED BY:

③

DATE:

TIME:

RECEIVED BY:

④

DATE:

TIME:

METHOD OF SHIPMENT:

AIR BILL NUMBER:

White - Fully Executed Copy
Yellow - Receiving Laboratory Copy
Pink - Sampler Copy
Goldenrod - Chemist Copy

SAMPLE TEAM:

*David Brytowski**Thom Lawrence*

RECEIVED FOR LABORATORY BY:

M. Karanc

DATE: 8/3/01

TIME: 2:16

Analytical Environmental Servs, Inc.

Sample Receipt Checklist

Client Name CONESTOGA

Date and Time Received

8/3/01 2:16:00 PM

Work Order Number 0108101

Received by MHR

Checklist completed by

Mue Heng 8-3-01
Signature Date

Reviewed by

JH 8/3/01
Initials Date

Matrix:

Carrier name Client

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Presen <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Presen <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Presen <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Water - VOA vials have zero headspace?	No VOA vials submitted <input type="checkbox"/>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

Adjusted? _____ Checked b _____

Any No and/or NA (not applicable) response must be detailed in the comments section bel

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

Analytical Environmental Servs, Inc.

Date: 08-Aug-01

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0108101
Project: Peanut Plant
Lab ID: 0108101-001A

Client Sample ID: GW-080201 DJB-101
Tag Number:
Collection Date: 8/2/01
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		SW8260B		Analyst: NWH		
cis-1,2-Dichloroethene	BRL	5.0		µg/L	1	8/8/01 2:08:00 AM
Tetrachloroethene	BRL	5.0		µg/L	1	8/8/01 2:08:00 AM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	1	8/8/01 2:08:00 AM
Trichloroethene	BRL	5.0		µg/L	1	8/8/01 2:08:00 AM
Vinyl chloride	BRL	5.0		µg/L	1	8/8/01 2:08:00 AM
Surr: 4-Bromofluorobenzene	92.3	73-111		%REC	1	8/8/01 2:08:00 AM
Surr: Dibromofluoromethane	98.7	86-120		%REC	1	8/8/01 2:08:00 AM
Surr: Toluene-d8	98.7	91-108		%REC	1	8/8/01 2:08:00 AM

Qualifiers: BRL - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Analytical Environmental Servs, Inc.

Date: 08-Aug-01

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0108101
Project: Peanut Plant
Lab ID: 0108101-002A

Client Sample ID: GW-080201TAL-102
Tag Number:
Collection Date: 8/2/01
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		SW8260B		Analyst: NWH		
cis-1,2-Dichloroethene	BRL	5.0		µg/L	1	8/8/01 2:42:00 AM
Tetrachloroethene	8.8	5.0		µg/L	1	8/8/01 2:42:00 AM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	1	8/8/01 2:42:00 AM
Trichloroethene	BRL	5.0		µg/L	1	8/8/01 2:42:00 AM
Vinyl chloride	BRL	5.0		µg/L	1	8/8/01 2:42:00 AM
Surr: 4-Bromofluorobenzene	91.5	73-111		%REC	1	8/8/01 2:42:00 AM
Surr: Dibromofluoromethane	97.0	86-120		%REC	1	8/8/01 2:42:00 AM
Surr: Toluene-d8	98.2	91-108		%REC	1	8/8/01 2:42:00 AM

Qualifiers: BRL - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Analytical Environmental Servs, Inc.

Date: 08-Aug-01

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0108101
Project: Peanut Plant
Lab ID: 0108101-003A

Client Sample ID: GW-080201 DJB-103
Tag Number:
Collection Date: 8/2/01
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		SW8260B		Analyst: NWH		
cis-1,2-Dichloroethene	BRL	5.0		µg/L	1	8/8/01 3:15:00 AM
Tetrachloroethene	BRL	5.0		µg/L	1	8/8/01 3:15:00 AM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	1	8/8/01 3:15:00 AM
Trichloroethene	BRL	5.0		µg/L	1	8/8/01 3:15:00 AM
Vinyl chloride	BRL	5.0		µg/L	1	8/8/01 3:15:00 AM
Surr: 4-Bromofluorobenzene	91.8	73-111		%REC	1	8/8/01 3:15:00 AM
Surr: Dibromofluoromethane	97.2	86-120		%REC	1	8/8/01 3:15:00 AM
Surr: Toluene-d8	98.9	91-108		%REC	1	8/8/01 3:15:00 AM

Qualifiers: BRL - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Analytical Environmental Servs, Inc.

Date: 08-Aug-01

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0108101
Project: Peanut Plant
Lab ID: 0108101-004A

Client Sample ID: GW-080201TAL-104
Tag Number:
Collection Date: 8/2/01
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		SW8260B		Analyst: NWH		
cis-1,2-Dichloroethene	BRL	5.0		µg/L	1	8/8/01 3:49:00 AM
Tetrachloroethene	BRL	5.0		µg/L	1	8/8/01 3:49:00 AM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	1	8/8/01 3:49:00 AM
Trichloroethene	BRL	5.0		µg/L	1	8/8/01 3:49:00 AM
Vinyl chloride	BRL	5.0		µg/L	1	8/8/01 3:49:00 AM
Surr: 4-Bromofluorobenzene	91.3	73-111		%REC	1	8/8/01 3:49:00 AM
Surr: Dibromofluoromethane	97.3	86-120		%REC	1	8/8/01 3:49:00 AM
Surr: Toluene-d8	97.3	91-108		%REC	1	8/8/01 3:49:00 AM

Qualifiers: BRL - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Analytical Environmental Servs, Inc.

Date: 08-Aug-01

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0108101
Project: Peanut Plant
Lab ID: 0108101-005A

Client Sample ID: GW-080201TAL-105
Tag Number:
Collection Date: 8/2/01
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		SW8260B		Analyst: NWH		
cis-1,2-Dichloroethene	BRL	5.0		µg/L	1	8/8/01 4:22:00 AM
Tetrachloroethene	23	5.0		µg/L	1	8/8/01 4:22:00 AM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	1	8/8/01 4:22:00 AM
Trichloroethene	BRL	5.0		µg/L	1	8/8/01 4:22:00 AM
Vinyl chloride	BRL	5.0		µg/L	1	8/8/01 4:22:00 AM
Surr: 4-Bromofluorobenzene	91.4	73-111		%REC	1	8/8/01 4:22:00 AM
Surr: Dibromofluoromethane	97.6	86-120		%REC	1	8/8/01 4:22:00 AM
Surr: Toluene-d8	99.5	91-108		%REC	1	8/8/01 4:22:00 AM

Qualifiers: BRL - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Analytical Environmental Servs, Inc.

Date: 08-Aug-01

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0108101
Project: Peanut Plant
Lab ID: 0108101-006A

Client Sample ID: GW-080201TAL-106
Tag Number:
Collection Date: 8/2/01
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		SW8260B		Analyst: NWH		
cis-1,2-Dichloroethene	BRL	5.0		µg/L	1	8/8/01 4:56:00 AM
Tetrachloroethene	BRL	5.0		µg/L	1	8/8/01 4:56:00 AM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	1	8/8/01 4:56:00 AM
Trichloroethene	BRL	5.0		µg/L	1	8/8/01 4:56:00 AM
Vinyl chloride	BRL	5.0		µg/L	1	8/8/01 4:56:00 AM
Surr: 4-Bromofluorobenzene	90.6	73-111		%REC	1	8/8/01 4:56:00 AM
Surr: Dibromofluoromethane	96.4	86-120		%REC	1	8/8/01 4:56:00 AM
Surr: Toluene-d8	98.4	91-108		%REC	1	8/8/01 4:56:00 AM

Qualifiers: BRL - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Analytical Environmental Servs, Inc.

Date: 08-Aug-01

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0108101
Project: Peanut Plant
Lab ID: 0108101-007A

Client Sample ID: Trip Blank
Tag Number:
Collection Date: 8/2/01
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		SW8260B		Analyst: NWH		
cis-1,2-Dichloroethene	BRL	5.0		µg/L	1	8/8/01 1:34:00 AM
Tetrachloroethene	BRL	5.0		µg/L	1	8/8/01 1:34:00 AM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	1	8/8/01 1:34:00 AM
Trichloroethene	BRL	5.0		µg/L	1	8/8/01 1:34:00 AM
Vinyl chloride	BRL	5.0		µg/L	1	8/8/01 1:34:00 AM
Surr: 4-Bromofluorobenzene	91.9	73-111		%REC	1	8/8/01 1:34:00 AM
Surr: Dibromofluoromethane	96.3	86-120		%REC	1	8/8/01 1:34:00 AM
Surr: Toluene-d8	96.1	91-108		%REC	1	8/8/01 1:34:00 AM

Qualifiers: BRL - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

APPENDIX H

2001 HSI LISTING LETTER

Georgia Department of Natural Resources

205 Butler Street, S.E., Suite 1462, Atlanta, Georgia 30334

Lonice C. Barrett, Commissioner

Environmental Protection Division

Harold F. Reheis, Director

404/657-8600

COPY

December 17, 2001

CERTIFIED MAIL

RETURN RECEIPT REQUESTED

Birdsong Peanut
c/o Mr. Russell Womble
Warehouse Manager
Post Office Box 565
Colquitt, Georgia 31737

RE: Listing of site on Hazardous Site Inventory
Birdsong Peanut
(Formerly Farmers Fertilizer and Milling Company)
HSI Site Number: 10710

Dear Mr. Womble:

Pursuant to the Georgia Rules for Hazardous Site Response, specifically Rule 391-3-19-.05(1) "Listing on the Hazardous Site Inventory," the Georgia Environmental Protection Division (EPD) has evaluated the above referenced site to determine whether a release of a regulated substance exceeding a reportable quantity has occurred. Based upon information provided in your notification dated March 15, 2001, and supplemental information dated May 7, 2001 and October 22, 2001, it has been determined that a release exceeding a reportable quantity has occurred at this site. Therefore, this site is now listed on the Hazardous Site Inventory (HSI) and will be included in the next publication of the HSI.

Enclosed is a document entitled "Introduction to the Hazardous Site Inventory" that provides an overview of the listing process. Also enclosed is a printout of the data on your site that has been entered into the HSI database. The printout indicates the numerical values assigned when the site was evaluated using the Reportable Quantities Screening Method (RQSM). If it is your position that any of the values shown on the enclosed printout do not represent actual conditions at the site as of the date of this letter, then you may request that the value be changed. If analytical data not yet submitted to EPD is the basis of your request for a change in a RQSM value, the data must have been collected prior to your receipt of this letter to affect the listing of your site on the HSI. Your request should be made in writing and provide documentation to support your position, including a statement as to what you think the appropriate value for that factor should be.

In accordance with O.C.G.A. §12-8-70 (d) and Rule 391-3-19-.05(2) "Release Reporting," you are required to submit the following information unless such information has already been submitted pursuant to Rule 391-3-19-.04(4) "Notification Requirements":

- (1) Name, mailing address, and telephone number of the site's property owner, lessee, tenant, or facility owner or operator (for all such properties at the site);
- (2) Street address of the site or, if a numbered address is not available, a location descriptor;
- (3) An original of the most current topographic map of scale 1:24,000 produced by the United States Geological Survey, with the geographic center of the site identified;
- (4) A description of the property boundaries in the vicinity of the site by legal description, survey plat, tax map*, or other means (the property boundary description must include other owners' properties if other

properties have been affected by the release);

***EPD requires that you provide a tax map parcel ID number for the parcel at which the reportable quantity release was identified.**

- (5) A chemical name, taken from Appendix I, of each regulated substance released at the site which independently meets the notification criteria in Rule 391-3-19-.04(3);
- (6) A general description of the nature of the release and the location of areas affected by the release or by its subsequent migration, both within and beyond the original site's boundaries;
- (7) Suspected or known source, quantity, and date of the release;
- (8) A summary of actions taken to investigate, clean up, or otherwise remediate the site; and
- (9) A statement which identifies the criteria of Rule 391-3-19-.04(3) by which the property owner determined that a release which required notification has occurred.

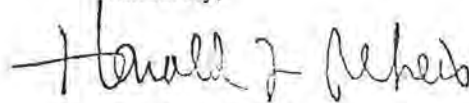
You have the option to use EPD's revised standardized Release Notification/Reporting Form (copy enclosed) in submitting the above information. If there are items requested on the revised notification form that were not previously submitted, please provide those items using the new form. If you change or add any information previously submitted in a standardized form, please provide a cover letter with the new completed form that clearly states that you are providing supplemental information only, and that you are not submitting a new notification.

Please submit the required information within forty-five (45) days of receipt of this letter to the following address:

Georgia Environmental Protection Division
Hazardous Sites Response Program
205 Butler Street, S.E., Suite 1462
Atlanta, Georgia 30334
ATTENTION: HSI

If you have any questions or comments, please contact Ms. Antonia Beavers at 404/657-8600.

Sincerely,



Harold F. Reheis
Director

Enclosures: (1) HSI site data printout
(2) Introduction to the HSI
(3) Release Notification/Reporting Form

c: Les Oakes, King & Spalding
Evans J. Plowden, Jr., Watson, Spence, Lowe and Chambliss, L.L.P.

Site No.: 10710

Site Name: Birdsong Peanut (Formerly Farmers Fertilizer and Milling Co)

12/03/2001

14:35:00

Location: 608 East Main Street

Colquitt

Lat 31 ° 10 ' 31 " N

Lon 84 ° 43 ' 18 " W

County: Miller

31737

Parcel ID: Map C14, Parcel 28

Property Owner: Birdsong Peanut (Formerly Farmers Fertilizer and Milling Company)

Post Office Box 565

Colquitt

GA 31737

Phone: (229) 758-3520

Contact Person: Russell Womble

Birdsong Peanut

Post Office Box 565

Colquitt

GA 31737

Phone: (229) 758-3520

Facility ow/op:

Birdsong Peanut

Gerald Garland (Facility Operator)

Birdsong Peanut

230 North Bay Street

Blakely

GA 31723

Phone: (229) 723-3641

EPA ID:

Entered HSI Database on : 12/03/2001

Corrective Action Site Class: 2

Cleanup Code: 1

OUTPUT FROM REPORTABLE QUANTITIES SCREENING METHOD

GROUNDWATER PATHWAY Pathway Score: 16.26

A. Known (45), Suspected (10), or Pot. Future (5): 45

1B. Higher (6), Average (3), or Lower (0) Susceptibility: 0

2B. Physical State [stable solid=0; liquid=3]: 0

C. Containment [very good=0; poor=3]: 0

SUBSTANCE: (CAS: 127184) Tetrachloroethene
2D. Toxicity: 4 3D. Quantity: 4 -

1E. Exposure: 4 (If 1E>4 then 2E=16)

2E. Distance to well or spring: 16 (If 1E=0 then 2E=1)

ON-SITE EXPOSURE PATHWAY Pathway Score: 26.67

A. Access [none=0; unlimited=4]: 4

B. Known (25), suspected (15), or no known (0) release: 25

C. Quality of containment [very good=0; poor=5]: 2

SUBSTANCE: (CAS: 127184) Tetrachloroethene
2D. Toxicity: 4 3D. Quantity: 4 -

1E. Distance to resident [<300'=8; >1mile=1]: 8

2E. Sensitive Environment affected [yes=1]: 0

APPENDIX I

2003 CRA VOLUNTARY REMEDIATION PROGRESS REPORT



**CONESTOGA-ROVERS
& ASSOCIATES**

1351 Oakbrook Drive, Suite 150, Norcross, GA 30093
Telephone: 770.441.0027 Facsimile: 770.441.2050
www.CRAworld.com

1/1 EDSF Man

March 28, 2003

Reference No. 18283-01

Les Oakes, Esq.
King & Spalding
191 Peachtree Street
Atlanta, Georgia 30303-1763

Dear Mr. Oakes:

Re: Voluntary Remediation Progress Report
Birdsong Peanut (former Farmer's Feed and Milling Company), HSI 10710
Colquitt, Georgia

Conestoga-Rovers & Associates (CRA) has prepared the following progress report of the voluntary remediation for the former Farmer's Feed and Milling (FFM) Company (Site), now Birdsong Peanut, in Colquitt, Miller County, Georgia (HSI #10710). Tetrachloroethene (a.k.a. perchloroethene or PCE) was detected in groundwater during a July 2001 Supplemental Phase II Environmental Site Assessment by CRA in two out of six wells at the Site, at 8.8 µg/L (MW-5) and 23 µg/L (MW-6). (PCE was also detected in two groundwater samples from investigatory borings at concentrations of 108 µg/L and 118 µg/L; see Table 1). Based on these results, CRA recommended that voluntary remediation of the Site be performed by chemical injection using potassium permanganate.

Two injection events have been performed, with the majority of the Site now showing no detected PCE concentrations. However, confirmatory sampling in October 2002 still showed PCE concentrations above MCLs in two wells, MW-5 and MW-7D (see Figure 1). Although potassium permanganate had been injected through three DPT injection points located within 20 feet of MW-5, these borings were not able to penetrate through the limestone layer encountered at 30 feet (MW-5 is screened at 40 to 45 feet). The detection of PCE at 6.1 µg/L in the deeper well, MW-7D was suspect. CRA recommended "spot" injections as a follow-up, using monitoring wells MW-5 and MW-7D as the injection points. These "spot" injections were conducted on December 30, 2002, introducing approximately 50 gallons of 5% permanganate solution into each well. Confirmatory sampling was conducted on February 2, 2003.

RESULTS OF SPOT CHEMICAL INJECTION

The results of the groundwater sampling are presented in Table 1. The latest sampling shows that the PCE is no longer present in MW-5 groundwater. A low detection of PCE just above detection limits, but within HSRA Type 2 Risk Reduction Standards, was reported in MW-6. However, the PCE in the new monitoring well, MW-10, (reduced from 130 µg/L to non-detect after the previous injection) has rebounded to 120 µg/L. This well is located within what is suspected to be the center of the impacted area. This rebound may be related to the rise in groundwater levels over the past eight months (see Figure 2), on the order of 7 feet. Although the entry location (the area where the PCE was released) was not detected by the original soil sampling, the "hot spot" in the aqueous contaminant plume detected by MW-10 leads us to believe that the initial release was in that area. (Note: soil hot spots, either above or below the level of groundwater, have not been identified at the Site by prior soil sampling). It is possible that there is a "smear zone" of PCE trapped within the soil near MW-10 that was formerly above the groundwater. Now that the water levels have risen, this PCE could have been dissolved into the groundwater, causing the apparent rebound observed at MW-10.

REGISTERED COMPANY
ISO 9001
ENGINEERING DESIGN



**CONESTOGA-ROVERS
& ASSOCIATES**

March 28, 2003

2

Reference No. 18283-01

Although the injections performed to date appear to have reduced the contaminant mass, a discrete localized source near MW-10, if present and left untreated, could continue to impact groundwater quality in the immediate vicinity of MW-10. Consequently, an additional phased soil investigation in the vicinity of MW-10 may be warranted prior to further treatment.

CRA also understands that a Compliance Status Report (CSR) call-in letter has been sent regarding this Site. Although this was not expected at this time, a CSR would have to be produced, regardless, once the remediation is complete in order to remove the Site from the HSI list. The project could proceed as follows:

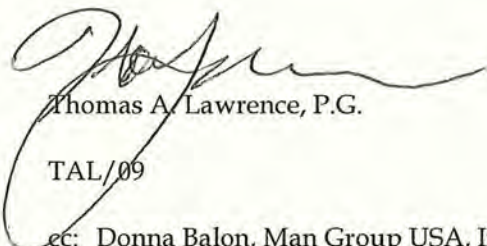
- advise EPD of respondent's intent to conduct an additional soil investigation in the vicinity of MW-10; EPD is likely to have requested this investigation in order to complete delineation to site-specific background levels;
- assess the remaining volume and distribution of contamination, and if demonstrated feasible, immediately proceed to remediation by chemical injection/oxidation;
- if additional treatment is performed, collect confirmatory samples to document the success of the treatment;
- submit a CSR upon achievement of Risk Reduction Standards or in September 2003 as requested by EPD; and
- keep EPD notified of progress and results through interim submittals.

The additional data to be collected during this supplemental investigation will be intended to be of the type and quality suitable for inclusion in the CSR. This data should provide us sufficient to reassess the remedial action objectives, determine if other remedial alternatives should be compared and contrasted with the present remedial design, or provide justification to pursue completion of remediation using chemical injection. We believe that this work can be completed in a timely manner in order to submit the CSR by the September 2003 deadline.

We will provide a proposal for performing these work items under separate cover.

Yours truly,

CONESTOGA-ROVERS & ASSOCIATES



Thomas A. Lawrence, P.G.

TAL/09

cc: Donna Balon, Man Group USA, Inc.
Robert Norman, Jones Cork & Miller
Gerald Garland, Birdsong Peanut

TABLE 1
SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
FARMER'S FEED AND MILLING, COLQUIT, GEORGIA

Sample Location	Sample Date	DCA (ug/L)	DCE (ug/L)	TCE (ug/L)	PCE (ug/L)	VC (ug/L)
BH-1	7/16/01	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
BH-2	7/16/01	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
BH-3	7/16/01	ND (5)	ND (5)	ND (5)	108	ND (5)
BH-5	7/17/01	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
BH-6	7/17/01	ND (5)	ND (5)	ND (5)	23	ND (5)
BH-7	7/17/01	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
BH-8	7/17/01	ND (5)	ND (5)	ND (5)	118	ND (5)
BH-9	7/18/01	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
BH-10	7/18/01	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
MW-4	8/2/01	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
MW-5	8/2/01	ND (5)	ND (5)	ND (5)	8.8	ND (5)
	7/9/02	ND (5)	ND (5)	ND (5)	8	ND (5)
	10/29/02	ND (5)	ND (5)	ND (5)	9.1	ND (5)
	2/11/03	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
MW-6	8/2/01	ND (5)	ND (5)	ND (5)	23	ND (5)
	7/9/02	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	10/29/02	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	2/11/03	ND (5)	ND (5)	ND (5)	8.9	ND (5)
MW-7D	8/2/01	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	7/9/02	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	10/29/02	ND (5)	ND (5)	ND (5)	6.1	ND (5)
	2/11/03	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
MW-8	8/2/01	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
MW-9	8/2/01	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
MW-10	9/4/02	ND (5)	ND (5)	ND (5)	130	ND (5)
	10/29/02	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	2/11/03	ND (5)	ND (5)	ND (5)	120	ND (5)
GC		4000	7	5	5	2

14 type 2

Note:

MW-10 is located near BH-3

DCA = 1,1-dichloroethane

DCE = 1,1-dichloroethene (total)

TCE = trichloroethene

PCE = tetrachloroethene

VC = vinyl chloride

ND = Not Detected @ (Reported Detection Limit)

GC = Groundwater Criteria (HSRA default cleanup standards for groundwater, Appendix III Table 1)



AERIAL PHOTOGRAPH SOURCE: MICROSOFT TERRASERVER/USGS

figure 1

SECOND CONFIRMATION SAMPLE RESULTS
BIRDSONG PEANUT PLANT
FARMER'S FEED AND MILLING COMPANY
Colquitt, Georgia



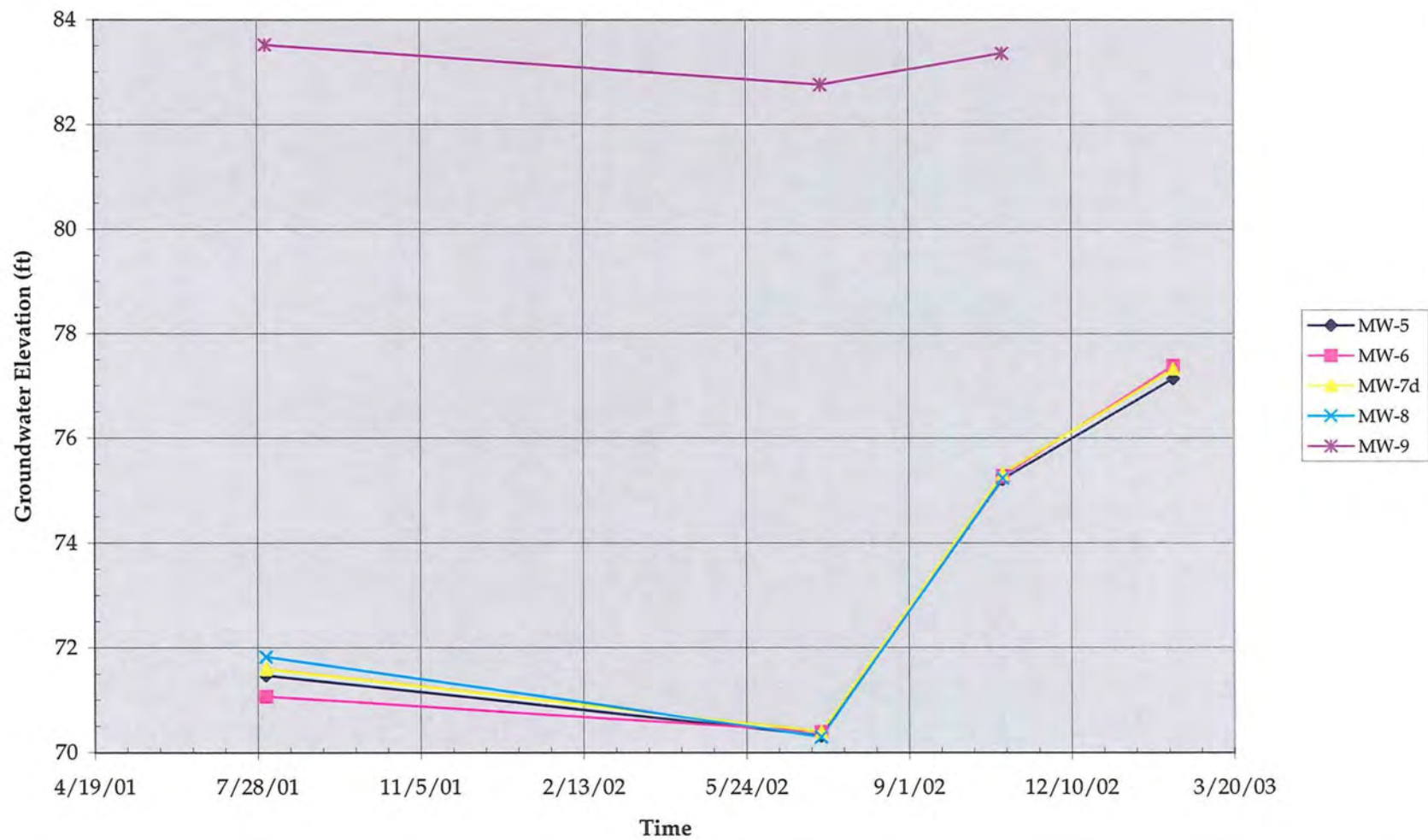


figure 2
WATER LEVELS OVER TIME
FORMER FARMER'S FEED AND MILLING COMPANY
Colquitt, Georgia



APPENDIX J

2003 CRA FOCUSED DELINEATION PROGRESS REPORT



**CONESTOGA-ROVERS
& ASSOCIATES**

FILE
EDF M.A.
1351 Oakbrook Drive, Suite 150, Norcross, GA 30093
Telephone: 770.441.0027 Facsimile: 770.441.2050
www.CRAworld.com

May 27, 2003

Reference No. 18283-01

Les Oakes, Esq.
King & Spalding
191 Peachtree Street
Atlanta, Georgia 30303-1763

Dear Mr. Oakes:

Re: Focused Delineation Progress Report
Birdsong Peanut (former Farmer's Feed and Milling Company), HSI 10710
Colquitt, Georgia

Conestoga-Rovers & Associates (CRA) has prepared the following progress report of the focused Site delineation as proposed in our March 31, 2003, "Proposal for Completion of Remediation and Compliance Status Report" for the former Farmer's Feed and Milling (FFM) Company (Site), now Birdsong Peanut, in Colquitt, Miller County, Georgia (HSI #10710).

The results of the groundwater sampling event of February 11, 2003, showed that the concentration of tetrachloroethene (PCE) in the new monitoring well, MW-10 (reduced from 130 µg/L to non-detect from the second round of chemical injection), had rebounded to 120 µg/L. The "hot spot" in the aqueous contaminant plume detected by MW-10 led us to believe that the initial release was in that area.

Although the injections performed to date have appeared to reduce the contaminant mass, a discrete localized source near MW-10, if present and left untreated, could continue to impact groundwater quality in the immediate vicinity of MW-10. Consequently, an additional phased soil investigation in the vicinity of MW-10 was conducted to complete delineation in that area.

WORK COMPLETED

On April 24 and 25, 2003, a focused investigation was conducted at the Site using direct push technology (DPT, i.e., Geoprobe) and a field analytical laboratory. A series of 7 DPT borings were advanced at strategic locations in the vicinity of MW-10 (see Figure 1). Soil and groundwater samples were collected from the borings and submitted for field laboratory analysis for volatile organic compounds (VOCs). A total of 13 soil and 6 groundwater samples were collected from the DPT borings; groundwater was not encountered in DPT boring BH-15.

It had been proposed to complete one of the borings as a small-diameter monitoring well to provide delineation and a permanent monitoring point. However, due to inclement weather on the second day, this could not be completed.

Results of laboratory analyses are as follows:



**TABLE 1
SUMMARY OF SAMPLE ANALYTICAL RESULTS
FARMER'S FEED AND MILLING, COLQUIT, GEORGIA**

Soil

Sample Location	Sample Depth	DCE	TCE	PCE	VC
BH-11	3 - 4 ft	ND (5)	ND (5)	ND (5)	ND (5)
	7 - 8 ft	ND (5)	ND (5)	ND (5)	ND (5)
BH-12	3 - 4 ft	ND (5)	ND (5)	ND (5)	ND (5)
	7 - 8 ft	ND (5)	ND (5)	ND (5)	ND (5)
BH-13	3 - 4 ft	ND (5)	ND (5)	ND (5)	ND (5)
	7 - 8 ft	ND (5)	ND (5)	ND (5)	ND (5)
BH-14	3 - 4 ft	ND (5)	ND (5)	ND (5)	ND (5)
	7 - 8 ft	ND (5)	ND (5)	ND (5)	ND (5)
BH-15	3 - 4 ft	ND (5)	ND (5)	ND (5)	ND (5)
BH-16	3 - 4 ft	ND (5)	ND (5)	ND (5)	ND (5)
	7 - 8 ft	ND (5)	ND (5)	ND (5)	ND (5)
BH-17	3 - 4 ft	ND (5)	ND (5)	ND (5)	ND (5)
	7 - 8 ft	ND (5)	ND (5)	ND (5)	ND (5)

Groundwater

BH-11		ND (1)	ND (1)	ND (1)	ND (1)
BH-12		ND (1)	ND (1)	8.8	ND (1)
BH-13		ND (1)	ND (1)	1.2	ND (1)
BH-14		ND (1)	ND (1)	1.8	ND (1)
BH-16		ND (1)	ND (1)	4.2	ND (1)
BH-17		ND (1)	ND (1)	48.7	ND (1)
GC		7	5	5	2

Note:

Concentrations in $\mu\text{g/kg}$ (soil), $\mu\text{g/L}$ (water) ND = Not Detected @ (Reported Detection Limit)
DCE = 1,1-dichloroethene (total) TCE = trichloroethene
PCE = tetrachloroethene VC = vinyl chloride
GC = Groundwater Criteria (HSRA Appendix III Table 1)

No VOCs were detected in any of the soil samples collected. PCE (only) was detected in five of the six groundwater samples. Only two of the groundwater samples contained PCE at concentrations above the Groundwater Criteria of $5 \mu\text{g/L}$. The highest detection of PCE at $48.7 \mu\text{g/L}$ was collected from BH-17, located to the south of MW-10 within the area that has shown the highest impact from PCE.

The results of the sampling demonstrate that the extent of PCE, is in fact, limited to the immediate vicinity of MW-10 and to the south. This suggests that there is no undetected source area adjacent to, or



**CONESTOGA-ROVERS
& ASSOCIATES**

May 27, 2003

3

Reference No. 18283-01

to the north of, MW-10. Also, it appears that the highest detections of PCE in the area described by MW-6 and MW-10 have been dramatically reduced.

There has been no detection of any degradation parameters (cis, 1-2 dichlorethene, vinyl chloride) throughout the investigations at the Site. This demonstrates that permanganate injection has not broken down PCE into other hazardous constituents, but has resulted in the complete destruction of PCE. Therefore, we do not recommend changing to a different type of oxidant such as sodium persulfate, or to a reductant such as sodium lactate.

The data collected during this delineation of the probable source area demonstrates chemical injection has been successful in reducing contaminant concentrations and mass. CRA believes that permanganate injection remains the most cost-effective and efficient approach, and recommends a third injection be performed, as follows:

- within the next four weeks, conduct a third injection, focusing in the remaining area showing impact from PCE, as defined by the focused delineation;
- complete the installation of the additional monitoring well, as previously proposed;
- collect confirmatory samples from the Site monitoring wells 6 weeks after injection to document the results of the treatment;
- submit a CSR, showing achievement of Risk Reduction Standards (RRSs), by the September 2003 deadline;
- conduct an additional confirmatory sampling event to show that there has been no rebound effect over time (after a four-month waiting period), and that the remediation has remained successful; and;
- by end of November 2003, request that the Site be designated as not needing further action and be removed from the Hazardous Site Inventory, in accordance with Rules 391-3-19-.05(4)(b) and 391-3-19-.06(6)(b)(i).

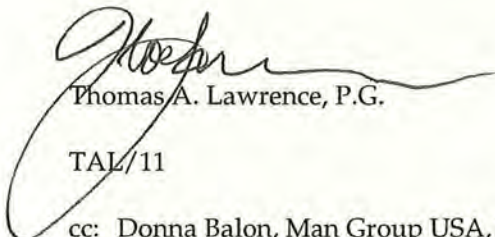
Options to be considered if the repeat injection does not achieve full compliance with RRSs include:

- request an extension to allow for additional injections or provide additional time for the Site to reach RRSs; or
- submit the CSR and a Corrective Action Plan calling for Monitoring Only.

Please contact us if you have any questions at (770) 441-0027.

Yours truly,

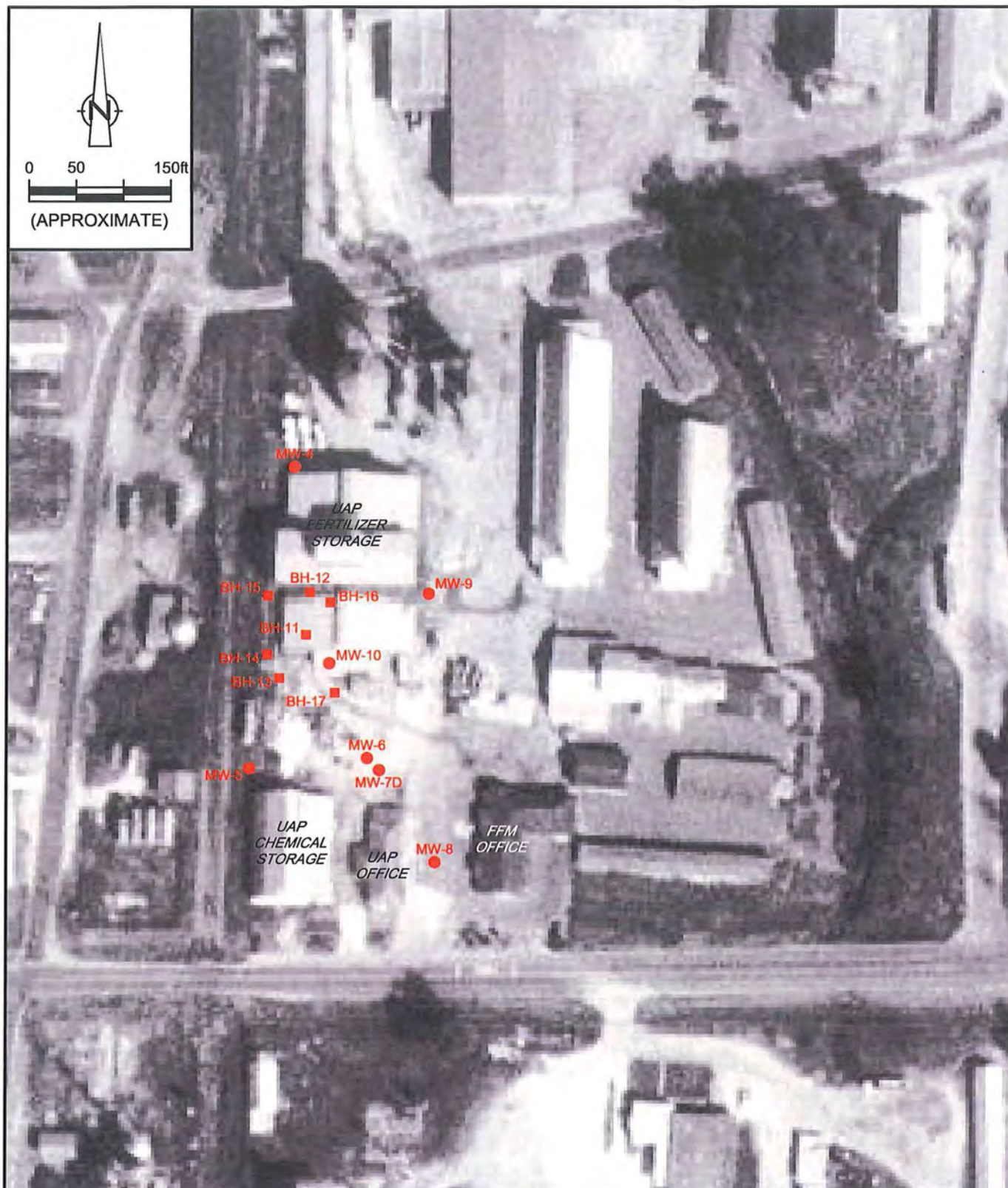
CONESTOGA-ROVERS & ASSOCIATES



Thomas A. Lawrence, P.G.

TAL/11

cc: Donna Balon, Man Group USA, Inc.
Robert Norman, Jones Cork & Miller
Gerald Garland, Birdsong Peanut



AERIAL PHOTOGRAPH SOURCE: MICROSOFT TERRASERVER/USGS

LEGEND

- MW-5 MONITORING WELL LOCATION
- BH-1 BOREHOLE LOCATION



figure 1
SITE PLAN
BIRDSONG PEANUT PLANT
FARMERS FEED AND MILLING COMPANY
Colquitt, Georgia

APPENDIX K

2003 CRA REPEAT CHEMICAL INJECTION PROGRESS REPORT

October 27, 2003

DRAFT

Reference No. 18283-01

Les Oakes, Esq.
King & Spalding
191 Peachtree Street
Atlanta, Georgia 30303-1763

Dear Mr. Oakes:

Re: Repeat Chemical Injection Progress Report
Birdsong Peanut (former Farmer's Feed and Milling Company), HSI 10710
Colquitt, Georgia

Conestoga-Rovers & Associates (CRA) has prepared the following progress report of the follow-up remedial chemical injection as originally proposed in our May 27, 2003, "Proposal for Completion of Remediation and Compliance Status Report" for the former Farmer's Feed and Milling (FFM) Company (Site), now Birdsong Peanut, in Colquitt, Miller County, Georgia (HSI #10710). This repeat injection, conducted after the originally planned injections conducted in 2002, was proposed to address the discrete localized source of tetrachloroethene (PCE) contamination detected near the monitoring well MW-10. This work has been conducted with the approval of the Georgia Environmental Protection Division (EPD).

As proposed in CRA's progress report of May 27, 2003, the following work has been conducted:

- the installation of the additional monitoring well MW-11 (see Figure 1) was completed;
- a third injection, focusing in the remaining area showing impact from PCE as defined by the focused delineation was conducted; and,
- confirmatory samples from the Site monitoring wells were collected 6 weeks after injection to document the results of the treatment.

An additional phased soil and groundwater investigation in the vicinity of MW-10 had previously been conducted on April 24 and 25, 2003, to complete delineation of residual contamination in that area. The results of the sampling demonstrated that the extent of dissolved PCE was, in fact, limited to the immediate vicinity of MW-10 and to the south. No impact was detected in any of the soil samples collected. Based on the results of this sampling (groundwater samples from nearby DPT borings showed detected PCE concentrations of 1.2 µg/L [BH-13], 1.8 µg/L [BH-14], and non-detect [BH-11]), an additional monitoring well was installed 55 feet to the west-northwest of MW-10 to provide additional definition on the northwest side of the impacted area.

After the additional well was installed on August 12, 2003, the third injection was performed by injecting approximately 250 gallons of a 6% potassium permanganate solution in each of 10 injection borings. These borings were located along a line running northwest-southeast from MW-10 to MW-6.

On September 30, 2003, confirmatory groundwater sampling was performed to determine the degree of success of the additional injection. The results of this sampling, along with previous samplings, are contained in Table 1. This sampling showed no detection of PCE in MW-7D and MW-10, but showed detections in MW-5, MW-6, and MW-11 of 8 µg/L, 20 µg/L, and 430 µg/L, respectively. It should be noted that the samples from all of these wells, except MW-11, still showed a strong purple color from the potassium permanganate, which indicates the presence of non-reacted permanganate.

The high detection of PCE in the sample from MW-11 is suspect based on the results of the previous investigation performed in April 2003, and distance from the center of the plume as delineated by other monitoring wells and borings. However, since the stratigraphy at the Site consists of isolated lenses of weathered limestone in clay, it could be possible that MW-11 intercepted a small lens of limestone, undetected by the DPT borings in the vicinity, that acts as a "sponge" due to its higher permeability, holding groundwater showing higher impact from PCE.

As presented in the our May 27 letter, options to be considered if the repeat injection does not achieve full compliance with RRSs include:

- request an extension to allow for additional injections or provide additional time for the Site to reach RRSs; or
- submit the CSR and a Corrective Action Plan calling for Monitoring Only.

Man Group USA and Birdsong Peanut have shown consistent action in investigating the Site and in conducting voluntary corrective action. Therefore, CRA recommends requesting an extension from EPD, and then conducting a focused injection in the vicinity of MW-11. This would be performed by injecting permanganate into four DPT borings spaced around MW-11. Groundwater samples would first be collected from the bottom of each of these borings, prior to injection, as a means of confirming the limited extent of impact detected in MW-11.

After additional confirmatory sampling has been conducted to show that there has been no rebound effect over time (after a four-month waiting period), and that the remediation has remained successful, a CSR showing achievement of Risk Reduction Standards (RRSs) can be submitted.

CRA would like to point out that during the repeat injection conducted in August 2003, it was noted on two separate occasions that the UAP personnel working adjacent to the Site dumped liquids onto the unpaved surface in the vicinity of MW-11. It is not known if these liquids actually contained any chemical that could pose any environmental concern. However, due to the sensitivity of the remedial actions being undertaken, we would request that Birdsong Peanut ask the UAP personnel to not use the area for dumping liquids in the future. In addition, we recommend a sample of impacted soil be obtained and analyzed to determine if the dumped liquids could impact groundwater quality beneath the Site.

October 27, 2003

3

Reference No. 18283-01

Please contact us if you have any questions at (770) 441-0027.

Yours truly,

CONESTOGA-ROVERS & ASSOCIATES

Thomas A. Lawrence, P.G.

TAL/12

cc: Donna Balon, Man Group USA, Inc.
Robert Norman, Jones Cork & Miller
Gerald Garland, Birdsong Peanut

TABLE 1
SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
FARMER'S FEED AND MILLING, COLQUITT, GEORGIA

Sample Location	Sample Date	DCA (ug/L)	DCE (ug/L)	TCE (ug/L)	PCE (ug/L)	VC (ug/L)
BH-1	7/16/2001	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
BH-2	7/16/2001	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
BH-3	7/16/2001	ND (5)	ND (5)	ND (5)	108	ND (5)
BH-5	7/17/2001	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
BH-6	7/17/2001	ND (5)	ND (5)	ND (5)	23	ND (5)
BH-7	7/17/2001	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
BH-8	7/17/2001	ND (5)	ND (5)	ND (5)	118	ND (5)
BH-9	7/18/2001	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
BH-10	7/18/2001	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
BH-11	4/24/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
BH-12	4/24/2003	ND (5)	ND (5)	ND (5)	8.8	ND (5)
BH-13	4/24/2003	ND (5)	ND (5)	ND (5)	1.2	ND (5)
BH-14	4/24/2003	ND (5)	ND (5)	ND (5)	1.8	ND (5)
BH-16	4/24/2003	ND (5)	ND (5)	ND (5)	4.2	ND (5)
BH-17	4/25/2003	ND (5)	ND (5)	ND (5)	48.7	ND (5)
MW-4	8/2/2001	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
MW-5	8/2/2001	ND (5)	ND (5)	ND (5)	8.8	ND (5)
	7/9/2002	ND (5)	ND (5)	ND (5)	8	ND (5)
	#####	ND (5)	ND (5)	ND (5)	9.1	ND (5)
	2/11/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	9/30/2003	ND (5)	ND (5)	ND (5)	8	ND (5)
MW-6	8/2/2001	ND (5)	ND (5)	ND (5)	23	ND (5)
	7/9/2002	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	#####	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	2/11/2003	ND (5)	ND (5)	ND (5)	8.9	ND (5)
	9/30/2003	ND (5)	ND (5)	ND (5)	20	ND (5)
MW-7D	8/2/2001	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	7/9/2002	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	#####	ND (5)	ND (5)	ND (5)	6.1	ND (5)
	2/11/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	9/30/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
MW-8	8/2/2001	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
MW-9	8/2/2001	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
MW-10	9/4/2002	ND (5)	ND (5)	ND (5)	130	ND (5)
	#####	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	2/11/2003	ND (5)	ND (5)	ND (5)	120	ND (5)
	9/30/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
MW-11	9/30/2003	ND (5)	ND (5)	ND (5)	430	ND (5)
GC		4000	7	5	5	2

Consistent

Consistent

Inconsistent

Note:

MW-10 is located near BH-3

DCA = 1,1-dichloroethane

DCE = 1,1-dichloroethene (total)

TCE = trichloroethene

PCE = tetrachloroethene

VC = vinyl chloride

ND = Not Detected @ (Reported Detection Limit)

GC = Groundwater Criteria (HSRA default cleanup standards for groundwater, Appendix III Table 1)

APPENDIX L

AUGUST 2004 CRA STATUS REPORT



**CONESTOGA-ROVERS
& ASSOCIATES**

1351 Oakbrook Drive, Suite 150, Norcross, GA 30093
Telephone: 770.441.0027 Facsimile: 770.441.2050
www.CRAworld.com

August 17, 2004

Reference No. 18283-01

Les Oakes, Esq.
King & Spalding
191 Peachtree Street
Atlanta, Georgia 30303-1763

Dear Mr. Oakes:

Re: Status Report
Birdsong Peanut (former Farmer's Feed and Milling Company), HSI 10710
Colquitt, Georgia

Conestoga-Rovers & Associates (CRA) has prepared this status report for the focused injection conducted May 4-7, 2004, following submittal of the Compliance Status Report (CSR) for the former Farmer's Feed and Milling (FFM) Company (Site), now Birdsong Peanut, in Colquitt, Miller County, Georgia (HSI #10710). The CSR was submitted to the Environmental Protection Division of the Georgia Department of Natural Resources (EPD) in December 2003.

SITE STATUS

The main factor that prevented the Site being certified in the CSR as being in compliance with groundwater Risk Reduction Standards (RRSs) was the detection of elevated concentrations of tetrachloroethene (PCE) in monitoring well MW-11 (see Figure 1). The non-compliance of groundwater has remained discrete and likely attributable to a small, isolated pocket of residual contamination within the saturated zone. The majority of PCE impact has been remediated at the Site. It was anticipated that a focused injection of potassium permanganate in the areas showing detections of PCE above RRSs would eliminate the exceedances.

After an additional monitoring well (MW-12) upgradient of MW-11 was installed for background delineation purposes, a focused injection of potassium permanganate was performed during the week of May 3, 2004. Injection was conducted in a grid pattern starting from 11 feet west of MW-11¹ leading to the east by MW-10; injection also was performed near MW-6 and adjacent to MW-5.

¹ Injection was started to the west to avoid the potential for "pushing" PCE out from the injection area and increasing contaminant concentrations in the perimeter wells MW-11 and MW-12.



**CONESTOGA-ROVERS
& ASSOCIATES**

August 17, 2004

2

Reference No. 18283-01

On June 23, 2004, confirmatory groundwater sampling was performed to determine the impact of the latest phase of injection. The results of this sampling, along with previous samplings, are contained in Table 1. This sampling showed no detection of PCE in MW-5, MW-7D, and MW-10, but showed low detections in MW-6, MW-11, and MW-12 of 21 µg/L, 41 µg/L, and 19 µg/L, respectively. All reported detections are less than the Type 4 RRS for PCE of 55 µg/L. Further reductions are required to comply with the Type 1 RRS of 5µg/L.

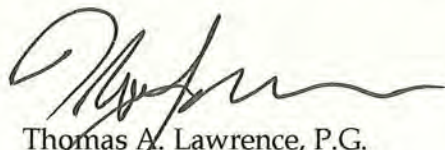
It should be noted that the samples from all of these wells, except MW-12, still showed a strong purple color from the potassium permanganate, which indicates the presence of non-reacted permanganate². A second focused injection could be conducted to further accelerate degradation, if needed, in the vicinity of MW-6, MW-11, and MW-12. However, we believe that the persistence of the permanganate will continue to reduce concentrations. This reaction can be catalyzed by the injection of air or steam into the monitoring wells.

At this time, the Site is in compliance with Type 4 RRS. CRA plans to resample in September, approximately 6 months after the injection was performed for confirmation that the Site remains in compliance with RRS.

Please contact us if you have any questions at (770) 441-0027.

Yours truly,

CONESTOGA-ROVERS & ASSOCIATES

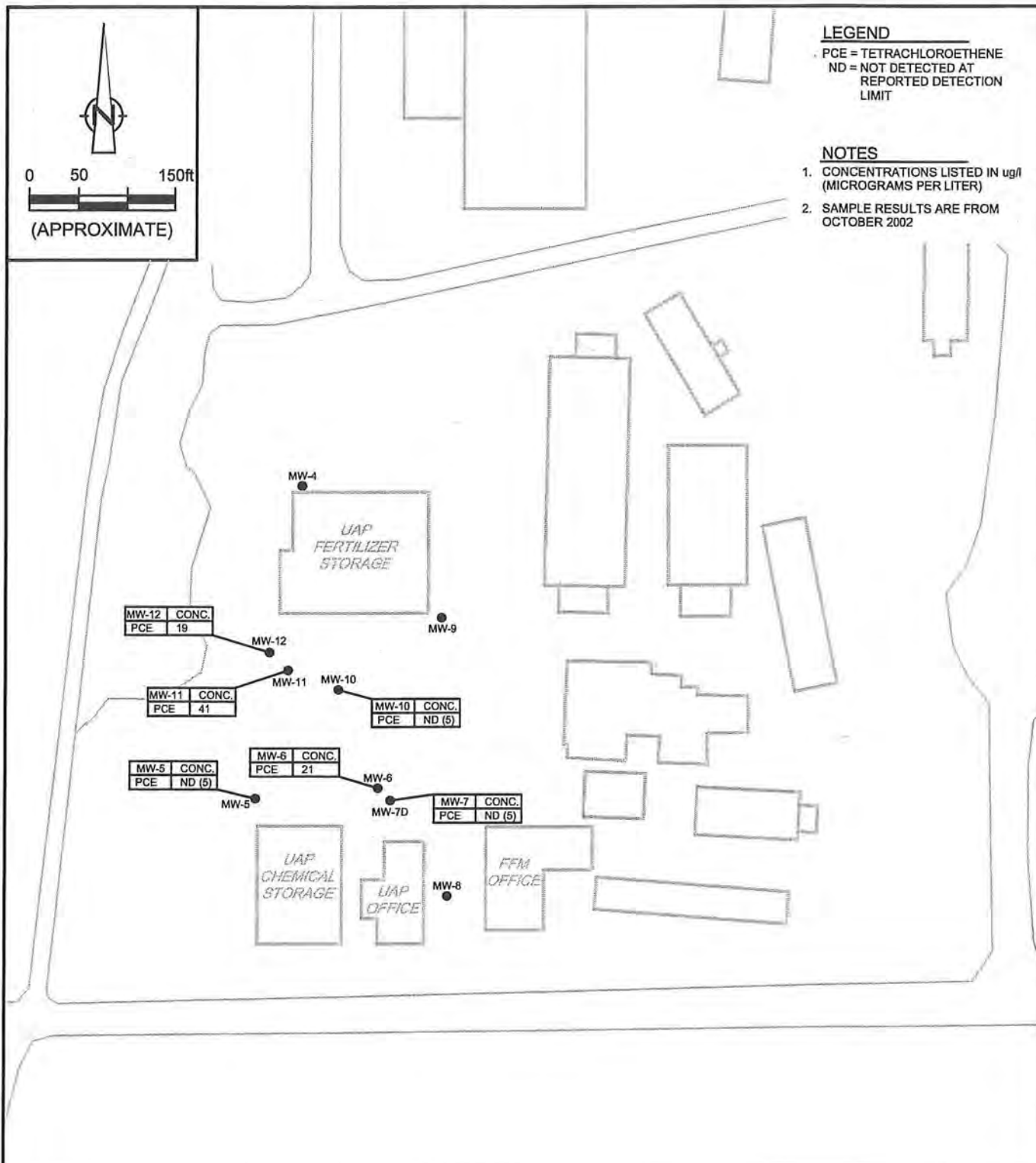


Thomas A. Lawrence, P.G.

jal/15

cc: Donna Balon, Man Group USA, Inc.

² At this Site, the permanganate has shown to have an extremely long "hang time" (i.e., reaction time) that can continue to attenuate PCE in groundwater over a protracted time period (6 to 12 months).



DIGITIZED FROM AERIAL PHOTOGRAPH, SOURCE: MICROSOFT TERRASERVER/USGS

figure 1
JUNE 23, 2004 CONFRIMATION SAMPLE RESULTS
BIRDSONG PEANUT PLANT
FARMERS FEED AND MILLING COMPANY
Colquitt, Georgia



TABLE 1
SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
FARMER'S FEED AND MILLING, COLQUITT, GEORGIA

Sample Location	Sample Date	DCA (ug/L) CAS#75343	DCE (ug/L) CAS#75354	TCE (ug/L) CAS#79016	PCE (ug/L) CAS#127184	VC (ug/L) CAS#75014
MW-4	8/2/2001	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
MW-5	8/2/2001	ND (5)	ND (5)	ND (5)	8.8	ND (5)
	7/9/2002	ND (5)	ND (5)	ND (5)	8	ND (5)
	10/29/2002	ND (5)	ND (5)	ND (5)	9.1	ND (5)
	2/11/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	9/30/2003	ND (5)	ND (5)	ND (5)	8	ND (5)
	11/7/2003	ND (5)	ND (5)	ND (5)	5.5	ND (5)
	4/14/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	6/23/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
MW-6	8/2/2001	ND (5)	ND (5)	ND (5)	23	ND (5)
	7/9/2002	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	10/29/2002	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	2/11/2003	ND (5)	ND (5)	ND (5)	8.9	ND (5)
	9/30/2003	ND (5)	ND (5)	ND (5)	20	ND (5)
	11/7/2003	ND (5)	ND (5)	ND (5)	29	ND (5)
	4/14/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	6/23/2004	ND (5)	ND (5)	ND (5)	20	ND (5)
MW-7D	8/2/2001	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	7/9/2002	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	10/29/2002	ND (5)	ND (5)	ND (5)	6.1	ND (5)
	2/11/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	9/30/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	11/7/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	4/14/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	6/23/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
MW-8	8/2/2001	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
MW-9	8/2/2001	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	11/7/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
MW-10	9/4/2002	ND (5)	ND (5)	ND (5)	130	ND (5)
	10/29/2002	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	2/11/2003	ND (5)	ND (5)	ND (5)	120	ND (5)
	9/30/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	11/7/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	4/14/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	6/23/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
MW-11	9/30/2003	ND (5)	ND (5)	ND (5)	430	ND (5)
	11/7/2003	ND (5)	ND (5)	ND (5)	180	ND (5)
	4/14/2004	ND (5)	ND (5)	ND (5)	460	ND (5)
	6/23/2004	ND (5)	ND (5)	ND (5)	41	ND (5)
MW-12	6/23/2004	ND (5)	ND (5)	ND (5)	19	ND (5)
Type 1 RRS		4000	7	5	5	2
Type 4 RRS		4000	525	40	55	5

Note:

DCA = 1,1-dichloroethane
DCE = 1,1-dichloroethene (total)
TCE = trichloroethene
PCE = tetrachloroethene

VC = vinyl chloride
ND = Not Detected @ (Reported Detection Limit)
Type 1 RRS = Groundwater Criteria (Appendix III Table 1)
Type 4 RRS = Groundwater Criteria (generic assumptions)



**CONESTOGA-ROVERS
& ASSOCIATES**

1351 Oakbrook Drive, Suite 150, Norcross, GA 30093
Telephone: 770.441.0027 Facsimile: 770.441.2050
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August 17, 2004

Reference No. 18283-01

Les Oakes, Esq.
King & Spalding
191 Peachtree Street
Atlanta, Georgia 30303-1763

Dear Mr. Oakes:

Re: Status Report
Birdsong Peanut (former Farmer's Feed and Milling Company), HSI 10710
Colquitt, Georgia

Conestoga-Rovers & Associates (CRA) has prepared this status report for the focused injection conducted May 4-7, 2004, following submittal of the Compliance Status Report (CSR) for the former Farmer's Feed and Milling (FFM) Company (Site), now Birdsong Peanut, in Colquitt, Miller County, Georgia (HSI #10710). The CSR was submitted to the Environmental Protection Division of the Georgia Department of Natural Resources (EPD) in December 2003.

SITE STATUS

The main factor that prevented the Site being certified in the CSR as being in compliance with groundwater Risk Reduction Standards (RRSs) was the detection of elevated concentrations of tetrachloroethene (PCE) in monitoring well MW-11 (see Figure 1). The non-compliance of groundwater has remained discrete and likely attributable to a small, isolated pocket of residual contamination within the saturated zone. The majority of PCE impact has been remediated at the Site. It was anticipated that a focused injection of potassium permanganate in the areas showing detections of PCE above RRSs would eliminate the exceedances.

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¹ Injection was started to the west to avoid the potential for "pushing" PCE out from the injection area and increasing contaminant concentrations in the perimeter wells MW-11 and MW-12.



**CONESTOGA-ROVERS
& ASSOCIATES**

August 17, 2004

2

Reference No. 18283-01

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It should be noted that the samples from all of these wells, except MW-12, still showed a strong purple color from the potassium permanganate, which indicates the presence of non-reacted permanganate². A second focused injection could be conducted to further accelerate degradation, if needed, in the vicinity of MW-6, MW-11, and MW-12. However, we believe that the persistence of the permanganate will continue to reduce concentrations. This reaction can be catalyzed by the injection of air or steam into the monitoring wells.

At this time, the Site is in compliance with Type 4 RRS. CRA plans to resample in September, approximately 6 months after the injection was performed for confirmation that the Site remains in compliance with RRS.

Please contact us if you have any questions at (770) 441-0027.

Yours truly,

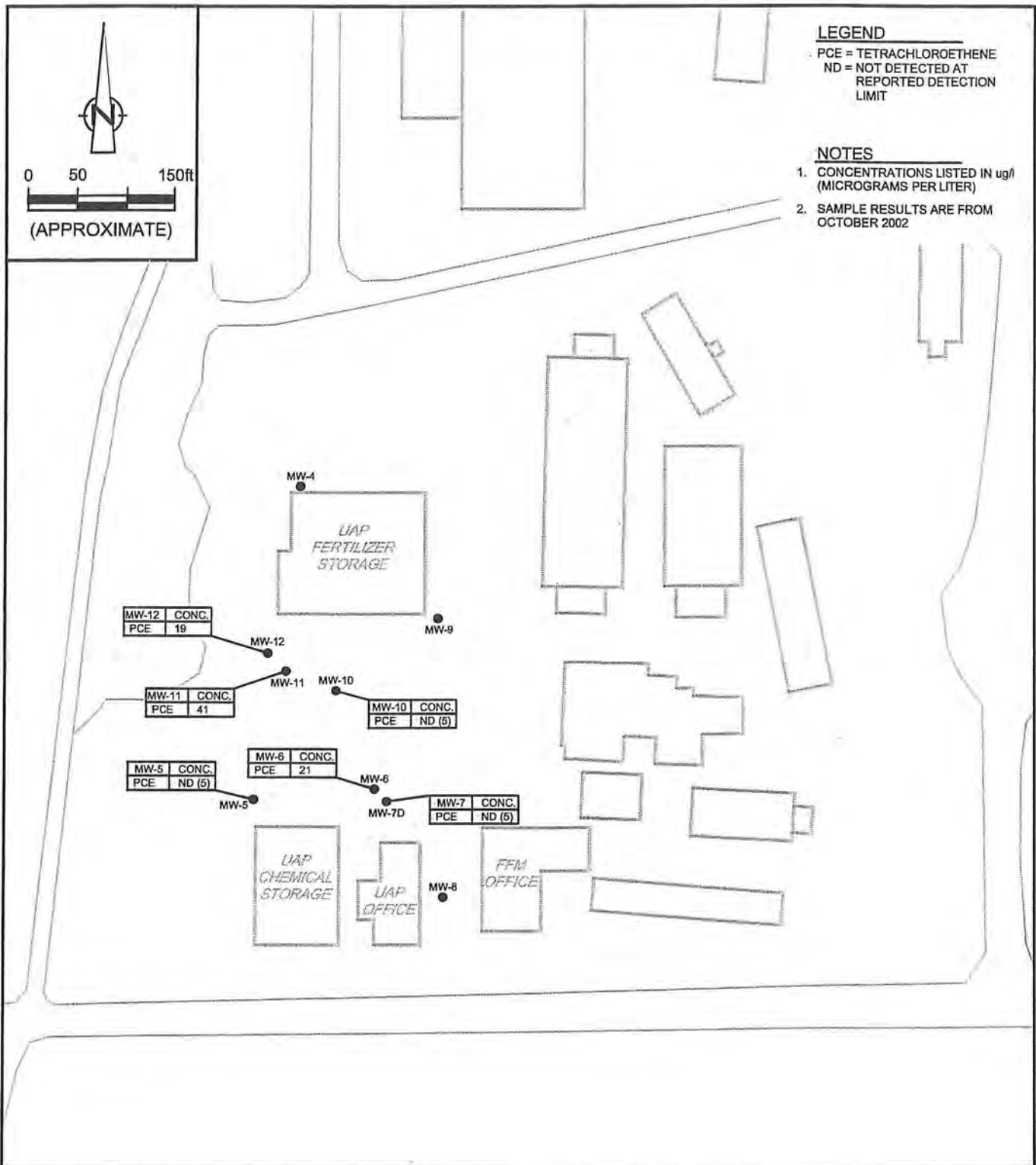
CONESTOGA-ROVERS & ASSOCIATES

Thomas A. Lawrence, P.G.

jal/15

cc: Donna Balon, Man Group USA, Inc.

² At this Site, the permanganate has shown to have an extremely long "hang time" (i.e., reaction time) that can continue to attenuate PCE in groundwater over a protracted time period (6 to 12 months).



DIGITIZED FROM AERIAL PHOTOGRAPH, SOURCE: MICROSOFT TERRASERVER/USGS

figure 1
JUNE 23, 2004 CONFRIMATION SAMPLE RESULTS
BIRDSONG PEANUT PLANT
FARMERS FEED AND MILLING COMPANY
Colquitt, Georgia



TABLE 1
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FARMER'S FEED AND MILLING, COLQUITT, GEORGIA

Sample Location	Sample Date	DCA (ug/L) CAS#75343	DCE (ug/L) CAS#75354	TCE (ug/L) CAS#79016	PCE (ug/L) CAS#127184	VC (ug/L) CAS#75014
MW-4	8/2/2001	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
MW-5	8/2/2001	ND (5)	ND (5)	ND (5)	8.8	ND (5)
	7/9/2002	ND (5)	ND (5)	ND (5)	8	ND (5)
	10/29/2002	ND (5)	ND (5)	ND (5)	9.1	ND (5)
	2/11/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	9/30/2003	ND (5)	ND (5)	ND (5)	8	ND (5)
	11/7/2003	ND (5)	ND (5)	ND (5)	5.5	ND (5)
	4/14/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	6/23/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
MW-6	8/2/2001	ND (5)	ND (5)	ND (5)	23	ND (5)
	7/9/2002	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	10/29/2002	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	2/11/2003	ND (5)	ND (5)	ND (5)	8.9	ND (5)
	9/30/2003	ND (5)	ND (5)	ND (5)	20	ND (5)
	11/7/2003	ND (5)	ND (5)	ND (5)	29	ND (5)
	4/14/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	6/23/2004	ND (5)	ND (5)	ND (5)	20	ND (5)
MW-7D	8/2/2001	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	7/9/2002	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	10/29/2002	ND (5)	ND (5)	ND (5)	6.1	ND (5)
	2/11/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	9/30/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	11/7/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	4/14/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	6/23/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
MW-8	8/2/2001	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
MW-9	8/2/2001	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	11/7/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
MW-10	9/4/2002	ND (5)	ND (5)	ND (5)	130	ND (5)
	10/29/2002	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	2/11/2003	ND (5)	ND (5)	ND (5)	120	ND (5)
	9/30/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	11/7/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	4/14/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	6/23/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
MW-11	9/30/2003	ND (5)	ND (5)	ND (5)	430	ND (5)
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Type 1 RRS		4000	7	5	5	2
Type 4 RRS		4000	525	40	55	5

Note:

DCA = 1,1-dichloroethane

DCE = 1,1-dichloroethene (total)

TCE = trichloroethene

PCE = tetrachloroethene

VC = vinyl chloride

ND = Not Detected @ (Reported Detection Limit)

Type 1 RRS = Groundwater Criteria (Appendix III Table 1)

Type 4 RRS = Groundwater Criteria (generic assumptions)

APPENDIX M

NOVEMBER 2004 CRA STATUS REPORT



**CONESTOGA-ROVERS
& ASSOCIATES**

see ECF memo / Birdsong
1351 Oakbrook Dr., Ste 150, Norcross, Georgia 30093
Telephone: (770) 441-0027 Facsimile: (770) 441-2050
www.CRAworld.com

November 16, 2004

Reference No. 18283-01

Les Oakes, Esq.
King & Spalding
191 Peachtree Street
Atlanta, Georgia 30303-1763

Dear Mr. Oakes:

Re: Status Report
Birdsong Peanut (former Farmer's Feed and Milling Company), HSI 10710
Colquitt, Georgia

Conestoga-Rovers & Associates (CRA) has prepared this status report for the former Farmer's Feed and Milling (FFM) Company (Site), now Birdsong Peanut, in Colquitt, Miller County, Georgia (HSI #10710). CRA has conducted a second sampling event following the focused injection conducted May 4-7, 2004 because CRA believed, based upon the available information, that a focused injection of potassium permanganate in the areas showing detections of PCE above RRSs would eliminate the exceedances. Since the May treatment, the majority of PCE impact has been remediated at the Site. PCE in groundwater remains above the applicable Risk Reduction Standard (RRS) for tetrachloroethene (PCE) in a discrete area as detected in monitoring well MW-11 (see Figure 1).

SITE STATUS

After an additional monitoring well (MW-12) upgradient of MW-11 (see Figure 1) was installed for background delineation purposes, a focused injection of potassium permanganate was performed during the week of May 3, 2004. Injection was conducted in a grid pattern starting from 11 feet west of MW-11¹ leading to the east by MW-10; injection also was performed near MW-6 and adjacent to MW-5.

On October 20, 2004, the second confirmatory groundwater sampling was performed to examine the long-term impact of the latest phase of injection. The results of this sampling, along with previous samplings, are summarized in Table 1. This sampling showed no detection of PCE in MW-5 and MW-7D, but showed low detections in MW-6 (25 µg/L), MW-10² (8.6 µg/L), MW-11 (57 µg/L), and MW-12 (17 µg/L). All reported detections are less than the Type 4 RRS for PCE of 40 µg/L³. The samples from these wells had previously shown a strong purple color from the potassium permanganate, indicating the

¹ Injection was started to the west to avoid the potential for "pushing" PCE out from the injection area and increasing contaminant concentrations in the perimeter wells MW-11 and MW-12.

² MW-10 had been non-detect for PCE since the September 30, 2003 sampling.

³ CRA is currently discussing with EPD regarding their apparent revision of the Type 4 RRS of PCE from 40 µg/L to 4 µg/L. CRA believes that the EPD decision is incorrect. CRA's basis is explained in our letter to you responding to Mr. Bob Norman's comments on the NOD for the CSR.



**CONESTOGA-ROVERS
& ASSOCIATES**

November 16, 2004

2

Reference No. 018283-01

presence of non-reacted permanganate⁴. During this sampling event, the purple color had taken a brownish tint, indicating that the permanganate had completely reacted with the PCE.

CRA understands that Birdsong is anxious to have the Site removed from the HSI as quickly as possible. Based on previous experience, we believe that in order to request removal of the Site from the HSI, further reductions of PCE concentrations closer to the Type 1 RRS of 5µg/L would likely still be needed. Given the low levels of PCE remaining, the lack of soil impact detected, and the limited volume of groundwater in the impacted permeable zone, chemical injection still remains the most viable and cost-effective method for further remediation of the Site.

The second injection as proposed in our letter of March 10, 2004, would need to be conducted to bring the Site closer to Type 1 RRS. However, due to the low, persistent concentrations of PCE, it is difficult to justify the scope of one injection that will successfully achieve and maintain groundwater at or below the Type 1 RRS of 5 µg/L across the entire Site. The injection grid would need to blanket the entire investigation area in order to address each detection at each well. Alternately, the Site does not pose an imminent threat to human health or the environment. Consequently, long-term monitoring may be proposed in lieu of active remediation.

CRA is currently drafting a response letter to the August 27, 2004 Notice of Deficiency and Request for Corrective Active Plan from Georgia Environmental Protection Division. A draft for review will be made available by Wednesday November 17, 2004.

Please contact us if you have any questions at (770) 441-0027.

Yours truly,

CONESTOGA-ROVERS & ASSOCIATES



Thomas A. Lawrence, P.G.

tal/16

cc: Donna Balon, Man Group USA, Inc.

⁴ At this Site, the permanganate has shown to have an extremely long "hang time" (i.e., reaction time) that can continue to attenuate PCE in groundwater over a protracted time period (6 to 12 months).

MONITORING WELL DATA
FARMER'S FEED AND MILLING, COLQUIT, GEORGIA

Well No.	Depth to Screen (ft bgs)	Screened Interval (elev in ft)	TOC Elevation (ft)	Date Measured	Depth to Water (ft bTOC)	Water Elevation (ft)
MW-4	7 - 17	86 - 76	92.70	8/2/2001	8.28	84.42
MW-5	40 - 45	56 - 51	95.57	8/2/2001	24.10	71.47
				7/9/2002	25.25	70.32
				10/29/2002	20.35	75.22
				2/11/2003	18.43	77.14
				9/30/2003	18.42	77.15
				11/7/2003	21.59	73.98
				4/14/2004	19.99	75.58
				6/23/2004	19.41	76.16
MW-6	50 - 55	45 - 40	94.26	10/20/2004	21.14	74.43
				8/2/2001	23.19	71.07
				7/9/2002	23.87	70.39
				10/29/2002	18.98	75.28
				2/11/2003	16.87	77.39
				9/30/2003	18.17	76.09
				11/7/2003	20.07	74.19
				4/14/2004	18.52	75.74
MW-7d	73 - 78	21 - 16	93.75	6/23/2004	17.99	76.27
				10/20/2004	20.63	73.63
				8/2/2001	22.16	71.59
				7/9/2002	23.36	70.39
				10/29/2002	18.43	75.32
				2/11/2003	16.42	77.33
				9/30/2003	17.46	76.29
				11/7/2003	19.42	74.33
MW-8	43 - 48	51 - 46	93.57	4/14/2004	17.98	75.77
				6/23/2004	17.52	76.23
				10/20/2004	20.11	73.64
				8/2/2001	21.75	71.82
				7/9/2002	23.27	70.30
				10/29/2002	18.33	75.24
				11/7/2003	19.30	74.27
				4/14/2004	17.92	75.65
MW-9	17 - 27	76 - 66	92.85	8/2/2001	9.33	83.52
				7/9/2002	10.09	82.76
				10/29/2002	9.49	83.36
				11/7/2003	9.45	83.40
				4/14/2004	13.77	79.08
MW-10	19 - 29		93.41	10/29/2002	11.14	82.27
				2/11/2003	10.29	83.12
				9/30/2003	11.19	82.22
				11/7/2003	12.46	80.95
				4/14/2004	13.38	80.03
				6/23/2004	11.94	81.47
				10/20/2004	13.06	80.35
MW-11	20 - 30		94.44	9/30/2003	11.19	83.25
				11/7/2003	12.08	82.36
				4/14/2004	13.03	81.41
				6/23/2004	12.57	81.87
				10/20/2004	15.36	79.08

Note:

TOC (Top of Casing) elevations referenced to arbitrary project

benchmark of 100.00 ft

bgs = below ground surface

bTOC = below TOC

APPENDIX N
2005 CRA HSRA CSR



HSRA COMPLIANCE STATUS REPORT

FORMER FARMER'S FEED AND MILLING COMPANY,
NOW BIRDSONG PEANUT
608 EAST MAIN STREET

(HSI SITE NO. 10710)
COLQUITT, GEORGIA

60319.019002 E. D. & F. Mann, Incorporated - Project Savannah
HSRA Compliance Status Report, Former Farmer's Feed and
Milling Co., now Birdsong Peanut, HSI Site No. 10710, Colquitt, GA - Ref. No.
18283(4), prepared by Conestoga-Rovers & Associates, September 2005



HSRA COMPLIANCE STATUS REPORT

**FORMER FARMER'S FEED AND MILLING COMPANY,
NOW BIRDSONG PEANUT
608 EAST MAIN STREET**

**(HSI SITE NO. 10710)
COLQUITT, GEORGIA**

**SEPTEMBER 2005
REF. NO. 18283 (4)**

This report is printed on recycled paper.

**Prepared by:
Conestoga-Rovers
& Associates**

1412 Oakbrook Drive
Suite 180
Norcross, GA 30093

Office: 770-441-0027
Fax: 770-441-2050

COMPLIANCE STATUS REPORT

Portion of Southwest Quarter of
Former FFM Facility, now Birdsong Peanut
608 East Main Street
HSI Site No. 10710

CERTIFICATION OF COMPLIANCE

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

Based on my review of the findings of this report with respect to the risk reduction standards of the Rules for Hazardous Site Response, Rule 391-3-19.07, I have determined that the Site is in compliance with Type 1 risk reduction standards for soil, but is not in compliance with any of the risk reduction standards (e.g., types 1 through 4) for groundwater.

For Man Group USA Inc:

Les Oakes

Printed Name

Les Oakes

Signature

For Man Group USA INC.

W/express permission

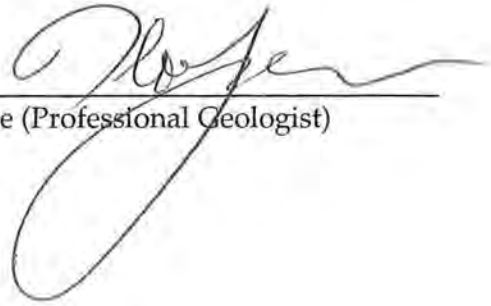
COMPLIANCE STATUS REPORT

Portion of Southwest Quarter of
Former FFM Facility, now Birdsong Peanut
608 East Main Street
HSI Site No. 10710

CERTIFICATION OF GROUNDWATER REPORT

I certify that I am a qualified groundwater scientist who has received a baccalaureate or post-graduate degree in the natural sciences or engineering, and have sufficient training and experience in groundwater hydrology and related fields, as demonstrated by state registration and completion of accredited university courses, that enable me to make sound professional judgments regarding groundwater monitoring and contaminant fate and transport. I further certify that this report was prepared by me or by a subordinate working under my direction.

Thomas A. Lawrence, P.G. #1385
Printed Name (Professional Geologist)



Signature (Professional Geologist)

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1.0 INTRODUCTION

1.1 PURPOSE

Conestoga-Rovers & Associates (CRA) has prepared this Revised Compliance Status Report (CSR) on behalf of Man Group USA Inc. (formerly EDF & Man, Inc.), for the former Farmer's Feed and Milling Company (FFM), now Birdsong Peanut, in Colquitt, Miller County, Georgia (Property). A Property location map is provided as Figure 1.

This CSR is submitted to fulfill continuing requirements of Chapter 391-3-19 of the Georgia Rules for Hazardous Site Response (hereinafter, Rules), in particular Rule 391-3-19-.06(3). The Rules were promulgated under authority of the Hazardous Site Response Act (HSRA) OCGA § 12-8-90 et seq. (1992). The purpose of a CSR is to document the vertical and horizontal extent of impact at the Site by substances regulated under the Rules and to document whether concentrations of and conditions for these regulated substances are in compliance with standards established in the Rules.

This facility was listed as Site Number 10710 on the Hazardous Sites Inventory (HSI) on December 17, 2001, due to the detection of tetrachloroethene (aka perchloroethene, PCE) above Notification Concentrations (NCs) in the groundwater beneath a limited portion of the Property. The HSI "Site" consists of the limited area within the Property affected by PCE. No other related regulated substances have been detected in groundwater samples or identified in on-Site soil samples above HSRA notification levels.

The first CSR for this Site was submitted in December 2003 in response to a CSR call-in from the Environmental Protection Division of the Georgia Department of Natural Resources (EPD). EPD provided review comments for the CSR on August 27, 2004, and requested revision and resubmittal following additional investigations. A request was also made for a Corrective Action Plan (CAP), which will be submitted under separate cover.

1.2 REPORT ORGANIZATION

The CSR is organized to address the informational requirements described in Rule 301-3-19-.06(3) of the Rules. The main sections of the CSR are as follows:

- **Section 2** provides an orientation to the Property: its current physical description, history of its development, history of operations, ownership history, and history of the Site's regulatory involvement;

- **Section 3** summarizes investigations and methods that have been undertaken at the Site between July 2001 and September 2005;
- **Section 4** presents the findings of the collective investigations, the nature and extent of the releases, and the probable source of those releases;
- **Section 5** describes voluntary interim remedial measures that have been undertaken at the Site;
- **Section 6** describes the potential environmental and human receptors of the releases, the applicable risk reduction standards, and the status of the Site's compliance with those standards;
- **Section 7** presents the Public Notifications; and,
- **Section 8** lists the reference documents used in the preparation of this report.

2.0 PROPERTY DESCRIPTION

2.1 PHYSICAL DESCRIPTION OF PROPERTY

The Birdsong Peanut Property is a peanut buying and shelling facility, located northeast of the intersection of the Georgia Southwestern Railroad and East Main Street (Georgia State Highway 91), in Colquitt, Miller County, Georgia. The Property location is shown on the USGS topographic map presented on Figure 1.

The Property consists of approximately 40 acres, and is located within an agricultural/commercial district with adjacent properties zoned primarily as commercial. The Property is bounded on the north by Pine Street, additional storage and operations buildings owned by Birdsong Peanut, and Yates Concrete; on the east by Pert South laboratory, commercial properties, and additional storage and operations for Birdsong Peanut; on the south by Main Street and Southern States agricultural business (agricultural chemicals and peanut buying); and on the west by the Georgia Southwestern Railroad, with residential properties further to the west. To the southwest is a former petroleum bulk storage facility owned by Tully Oil Company, previously owned by Roy W. Bush Oil Company. The base for Figure 2 is taken from a 1993 aerial photograph, and shows the Property and immediate vicinity. The land use shown for the entire area of coverage apparently has not changed since the photograph was taken.

The "Site", defined as the area affected by a release of PCE, is restricted to a limited portion of the southwest quarter of the Property east of the railroad right-of-way, between the chemical storage building and fertilizer storage building currently leased by United Agricultural Products (UAP).

Figure 2 is a scale drawing that shows the developed features of the Property. The majority of the Property that is not occupied by buildings is paved with either asphalt or concrete. The Property is flat, with a very gentle slope to the east. Stormwater runoff from Property buildings and paved areas is conveyed through paved drainage swales and ditches to catch basins connected to the municipal storm sewer, and ultimately discharges to local creeks. Additional details about the Property are provided in subsequent sections of this CSR.

2.2 PROPERTY DEVELOPMENT HISTORY

The Birdsong Peanut Property was formerly owned by Farmer's Feed and Milling Company. It is currently used for a number of agriculturally related operations

including peanut purchasing, warehousing, and shelling. The southwest portion of the Property is leased by UAP for agricultural chemical and fertilizer sales and spraying services. Prior to its current use, the Property was reportedly residential and agricultural (up to early 1950's), with a portion of the Property occupied by a lumber mill. The original Site building, presently used by UAP for fertilizer storage, was used for fertilizer production in the late 1950's. The peanut shelling and warehousing operations started at the Property in the early 1960's.

2.3 **RELEASE DISCOVERY AND REGULATORY AGENCY INVOLVEMENT**

A limited Phase II Environmental Site Assessment (ESA) was conducted at the Property by others in August and September 2000. Laboratory analysis of groundwater samples from three monitoring wells installed during the limited ESA detected a reportable quantity of PCE in monitoring well MW-6 (see Figure 2) at 28 µg/L, above its Maximum Contaminant Level (MCL) of 5 µg/L for drinking water. No other volatile organic compounds (VOCs) were detected in the groundwater samples. No VOCs (except for carbon disulfide) were detected during soil sampling at the Property. The carbon disulfide detection was limited to one soil sample from MW-5 at a concentration of 0.008 mg/kg, slightly above its laboratory detection limit of 0.005 mg/kg. Subsequent soil sampling conducted for verification of the detection in the vicinity of MW-5 did not detect any carbon disulfide. (The detection of the carbon disulfide is likely a sampling artifact from the use of latex or nitrile gloves; therefore, the one-time detection of carbon disulfide is not considered representative of Site conditions and is not related to the PCE release. Accordingly, carbon disulfide is not considered a regulated substance of concern at the Site for purposes of this report.)

Based on the detection of PCE at a reportable quantity (above background), an Initial Release Notification under the HSRA program was prepared and sent to EPD on March 20, 2001. Subsequent conversations with EPD personnel indicated that the decision to list the Property on the Hazardous Site Index would be deferred pending receipt of additional information on the extent of impact from PCE in Property soils and groundwater. CRA subsequently conducted further soil and groundwater investigations at the Property in July 2001.

The EPD notified FFM in its letter of December 17, 2001, that the Site had been listed on the HSI, but a CSR Call-In was not issued at that time. FFM has been conducting voluntary remediation of groundwater at the Site since May 2002. The Site was subsequently issued a CSR Call-In on March 7, 2003.

3.0 DESCRIPTION OF INVESTIGATIVE METHODS

3.1 SUPPLEMENTAL SITE INVESTIGATION

CRA performed a Supplemental Site Investigation (SSI) during the period of July 23 through August 3, 2001. The objective of this SSI was to confirm the presence and delineate the extent of impact from PCE in groundwater, and to identify what additional effort (e.g., risk assessment or corrective action) would be needed to demonstrate that the presence of PCE at the reported concentrations poses no significant risk.

The scope of work for the SSI consisted of the following:

- advancement and sampling (soil and groundwater) of 10 direct-push technology (DPT) borings;
- field laboratory analysis of the collected DPT samples for chlorinated VOCs (PCE and its related degradation products; 1,1-dichloroethane, cis-1,2-dichloroethene, trichloroethene, and vinyl chloride);
- installation of 2 shallow monitoring wells and 1 deep monitoring well; and
- sampling of the 3 existing wells and the 3 newly-installed wells for analysis for PCE and related degradation products.

3.1.1 DPT SAMPLING

The DPT sampling was conducted to define the extent of contaminant migration by advancing a series of DPT borings radially outward from the identified impacted area (MW-6). Sample locations for the 10 DPT borings are presented in Figure 2. Soil samples were collected continuously until groundwater was encountered in each DPT boring. Groundwater samples were also collected from the base of each DPT boring.

Prior to initiating each DPT boring, all non-sample contacting equipment (tools and sampler tubes) were thoroughly cleaned with a hot-water pressure washer and/or Alconox wash, and potable-water rinse. The DPT rig was cleaned using a hot-water rinse only, which is in accordance with EPA's November 2001 edition of the document entitled "Environmental Investigations Standard Operating Procedures and Quality Assurance Manual" (EISOPQAM), Appendix B "Standard Field Cleaning Procedures", Section B.3 Downhole Drilling Equipment. New, disposable PVC liners were placed in the soil probe tubes used to collect soil samples from each 4-foot sample interval; the liners are disposable, and used for only one sample. New nitrile gloves were donned

prior to inspection of each soil sample for material characteristics and evidence of impact, and preparation of the sample for laboratory analysis. Groundwater sampling for volatile organics from DPT borings was conducted using a low-flow peristaltic pump with new HDPE tubing following the procedure outlined in Section 7.3.3 of the EISOPQAM (the "straw method").

Following sampling activities, the borings were completed by backfilling with bentonite-clay chips. Soil descriptions and completion details were recorded by CRA and are presented on the respective Stratigraphic and Instrumentation Logs provided in Appendix A.

Soil and groundwater samples were analyzed in the field for VOCs using EPA Method 8260B. A field laboratory (ESN Southeast, Kennesaw) was used to allow additional samples to be collected or locations modified, as necessary, based on the field analytical results. Field laboratory analytical results are included in Appendix B.

Chlorinated hydrocarbons are very difficult to screen in the field using standard detection methods such as photoionization detectors or flame ionization detectors. Also, no visual or olfactory indications of impact were detected in the soil samples. Therefore, soil samples were chosen for analysis based on depth (one shallow, one deep per boring), to detect potential vertical migration indicative of a release location. Analytical results of the soil samples from the DPT borings detected the presence of PCE in 3 of the 22 samples collected (see Table 1 and Figure 3). PCE was detected at concentrations of 28 µg/kg, 7.5 µg/kg, and 21.3 µg/kg in samples from borings BH-3, BH-6, and BH-8, respectively; all three samples were from below 19 feet bgs. No other chlorinated VOC was detected in any soil sample.

Analytical results of the groundwater samples from the DPT borings detected concentrations of PCE at 108 µg/L, 23 µg/L, and 118 µg/L, in only 3 of the 22 DPT samples (see Table 2 and Figure 4). These samples were collected from borings BH-3, BH-6, and BH-8, the same DPT borings that contained detected concentrations of PCE in the deeper soil samples.

3.1.2 MONITORING WELL INSTALLATIONS

Based on the findings of the DPT sampling, two additional shallow monitoring wells (MW-8 and MW-9) were located upgradient and laterally downgradient of the existing monitoring well MW-6 (see Figure 2) to define by triangulation, in conjunction with the existing "clean" well MW-5, the extent of impacted groundwater in the vicinity of MW-

6. Deep well MW-7D (78 feet) was installed downgradient from the known impacted area to determine if contamination had migrated downward below the first encountered saturated zone, and to define stratigraphy below 50 feet below ground surface (bgs). Actual completion depths of wells MW-8 and MW-9 were 48 feet and 27 feet bgs, respectively¹. Boring logs and construction details for all new monitoring wells and existing wells are included in Appendix A.

Each of the three new monitoring wells was constructed of 2-inch I.D. PVC casing, with a 5-foot long factory-slotted screen. The wells were completed with a lockable, flush-mount protective cover and concrete pad. Sample collection techniques, well development and purging procedures, sample handling and preservation procedures, equipment decontamination, and chain-of-custody procedures were conducted in accordance with standard practice and with methodologies prescribed in EISOPQAM. The wells were developed by pumping sediment-laden water with a submersible PVC pump. Development was considered complete when turbidity had been minimized, indicator parameters had stabilized, and at least 5 well volumes (or a maximum of 50 gallons) had been removed. Prior to purging, water levels were measured relative to the top of each well casing using an electric water level tape. Groundwater sampling for volatile organics was conducted following the "straw method". Groundwater samples were submitted to a fixed laboratory (Analytical Environmental Services, Atlanta) for analysis. Fixed laboratory analytical reports are contained in Appendix C.

Initial sampling of the monitoring well network for the SSI in 2001 showed detectable concentrations of PCE (see Table 5) in only 2 wells, MW-5 (8.8 µg/L) and MW-6 (23 µg/L). Monitoring well MW-5 had originally shown no detectable concentrations of PCE during the limited ESA.

Based on the previous limited ESA and the data collected for the SSI, the following conclusions were drawn:

1. Analytical results of all soil and groundwater samples detected the presence of only one regulated substance (PCE) in soil and groundwater. No degradation products associated with PCE or any other VOCs had been detected on the Site.
2. Site investigations indicated that the PCE-impacted zone is of limited extent both laterally (within an approximate 100-foot radius) and at depth (from 20 to 50 feet bgs). The impacted area was delineated roughly by monitoring wells MW-8, MW-5,

¹ Site investigations do not show the coexistence of two independent permeable zones at the 20 and 45-foot depth zones (approximately); rather, only one permeable zone at each location is commonly detected, and groundwater is encountered when that zone was reached.

MW-9, and boring BH-10, with the center roughly in the vicinity of BH-3. The shallow weathered limestone horizon encountered in MW-4 and MW-9 does not show any impact from PCE, nor does the deeper groundwater zone encountered in MW-7D.

3. Concentrations of PCE in two soil samples from BH-3 and BH-8, slightly above the HSRA Soil Notification Concentration of 18 µg/kg, were detected at depth only, within the saturated zone. This suggests that the detection of PCE in the soil samples is a result of migration of dissolved PCE in shallow groundwater or vapor phase, and does not infer a soil impact zone.
4. The groundwater concentrations of PCE detected in DPT borings BH-3, BH-6, BH-8, and in wells MW-5 and MW-6 were all above Maximum Contaminant Level (MCL) of 5 µg/L for drinking water.
5. The area of groundwater impact appears to be limited to a portion of the southwestern quarter of the Property, within a (roughly) 100-foot radius.

3.2 ADDITIONAL SITE INVESTIGATIONS

The results of the SSI have confirmed that the soil at the Site complies with the Type 1 Risk Reduction Standards (RRS). Subsequent to the SSI, a series of additional Site investigations have been performed in an effort to further define the degree, as well as extent, of impact to groundwater. The additional field investigations performed included:

- i) Advancement of 13 investigatory borings, each to groundwater;
- ii) Collection of continuous soil samples from each borehole;
- iii) Selection of up to 2 soil samples from select borings (based on depth) for laboratory analysis;
- iv) Collection of a groundwater sample from the bottom of each of the DPT borings for laboratory analysis;
- v) Installation of eight new shallow monitoring wells and one new deep monitoring well to supplement the existing monitoring well network;
- vi) Sampling of existing monitoring wells and newly-installed wells for VOCs in groundwater;
- vii) A field survey of all sampling locations; and,
- viii) Performance of three instantaneous change in head (slug test) tests for determination of hydraulic properties of the underlying water-bearing zones.

These focused investigations were conducted primarily in April 2003 and August 2005. However, two of the additional eight wells were installed in September 2002 and August 2003, as part of interim remedial activities (see Section 5.0).

Groundwater sampling from either DPT or auger borings was conducted as a means of determining the approximate areas of potential impact, and for efficient placement of monitoring wells. This series of additional samplings and well installations was conducted in order to complete the definition of soil and groundwater impact, with the ultimate objective of providing monitoring points and performing voluntary Interim Remedial Measures to address residual VOC concentrations observed on Site (see Section 3.3). Analytical results of soil and groundwater samples are contained in Tables 1 and 2. Long-term water level measurements from monitoring wells are shown in Table 3; field parameters during purging are contained in Table 4; and well sample results are contained in Table 5.

3.2.1 INVESTIGATORY BORING SAMPLING

Focused sampling was conducted at the Site at strategic locations in the vicinity of the fertilizer storage and chemical storage buildings (see Figure 2). A series of 13 borings were advanced using DPT (7 borings) in April 2003, and by hollow-stem auger (6 borings) in August 2005. Soil and groundwater samples were collected from the borings and submitted for laboratory analysis for volatile organic compounds (VOCs). A total of 22 soil and 12² groundwater samples were collected from the borings.

As for the DPT sampling conducted for the SSI, a field laboratory (ESN Southeast, Kennesaw) was used to analyze the soil and groundwater samples collected by DPT in 2003. For the sampling in August 2005, the samples were submitted to a fixed laboratory (Analytical Environmental Services, Atlanta). The soil samples submitted to the fixed laboratory were field-preserved in accordance with Method 5035, in specially-prepared vials with a solution of sodium bisulfate or (for higher levels of VOCs) methanol.

PCE was detected at concentrations below its Notification Concentration in the soil samples collected from the three borings (BH-17 through BH-19) centrally located between the two buildings (see Figure 3).

² Although the 40-foot DPT boring BH-15 was allowed to stay open overnight, groundwater was not encountered in this boring.

PCE was detected in 8 of the 12 groundwater samples; 5 of the groundwater samples contained PCE at concentrations above the MCL of 5 µg/L. The highest concentration of PCE detected was 48.7 µg/L, in the sample collected from BH-17, within the area that has shown the highest impact from PCE (see Figure 4).

Note: due to the degree of difficulty associated with finding first water because of the discrete perched zones, the depth of water sampled from each boring is given along with sample results in Table 2. (For example, the depth of water encountered in the series of 4 borings BH-15, BH-10, BH-12, and BH-16, each roughly located 20 feet apart from west to east, is as follows: BH-15, dry to 40 feet; BH-10, 50 feet; BH-12, 16 feet; BH-16, 40 feet.)

3.2.2 ADDITIONAL MONITORING WELL INSTALLATIONS

Initially, a limited plume of impacted groundwater was presumed to lie roughly between wells MW-5 and MW-6, and borings BH-3 and BH-8, based on detections of PCE in groundwater. Monitoring well MW-10 was located in the vicinity of BH-3 as a permanent monitoring point in that area³. That well then became the center of the limited plume when a groundwater sample from it showed a PCE detection of 130 µg/L. In an effort to delineate western extent of impact, three additional wells (MW-11, MW-12, and MW-16) were located to the west of MW-10. These wells also served to help refine the location of the plume to between MW-10 and MW-11. A second deep well, MW-17D, was also installed in the centroid of the plume to delineate extent of impact vertically.

In August 2005, three shallow (13 to 20 feet deep) monitoring wells were installed to the south (MW-13), southwest (MW-14), and southeast (MW-15) of the centroid of the plume, adjacent to deeper (approximately 40 feet deep) wells, in an effort to detect transient shallow groundwater migration and impact. Their installations were facilitated by the increase in water levels (approximately 10 feet, see Figure 6) measured in wells since October 2004, due to the high volume of precipitation during that period⁴.

³ In approximately mid-2002, the southern portion of the UAP fertilizer building was reduced in size; it formerly extended to the approximate location of MW-12 (see Figure 2). This allowed the expansion of the investigations to the north.

⁴ It should not be presumed, based on the water level data collected after the extended high-rainfall period, that there are two laterally extensive saturated zones within the shallow soils above limestone bedrock at the Site. The occurrence of these zones (roughly at 20 feet and at 40 feet) is temporal, highly dependent on precipitation, with lateral extent of the zones dependent on volume of rainfall infiltration. During the majority of Site investigations, only one zone was encountered during sampling. It is

A summary of historic monitoring well analytical results is presented in Table 5.

3.3 DETERMINATION OF GROUNDWATER FLOW DIRECTION AND RATES

The groundwater beneath the Property lies at depths ranging from approximately 10 to 20 ft below grade (bg), depending on the depth of the saturated horizon. The groundwater surface elevations and flow directions calculated from groundwater levels measured on September 9, 2005, are shown on Figures 5A ("20-foot zone") and 5B ("40-foot zone"). In order to calculate a conservative gradient with as many wells as possible, the Excel® spreadsheet method available from the University of Kansas (www.geo.ku.edu/hydro/KUHydro.html) was used to calculate hydraulic gradient from the data sets (2003, J.F. Devlin⁵). Using the data for the two zones, this method of calculating the Site gradient (worksheets attached) produced a Site hydraulic gradient of 0.0064 ft/ft for the "20-foot zone" with a gradient of -20.2° off x-axis (east-southeast), and 0.0030 for the "40-foot zone" with a gradient of -77.5° off x-axis (south-southeast)⁶. The spreadsheet calculations are included in Appendix D.

A series of slug tests (rising head) were performed in two monitoring wells, MW-8 ("40-foot zone") and MW-9 ("20-foot zone"). Hydraulic conductivities were calculated with the computer program AQTESOLV® using the Bouwer and Rice (1976) straight-line analytical method, modified for confined aquifers (Bouwer, 1989). Head values collected during the field tests, as well as graphical displays of the fitted curves, are provided in Appendix E. The calculated hydraulic conductivity values were 4.0×10^{-5} centimeters per second (cm/s) in MW-8 and 3.1×10^{-7} cm/s in MW-9. This range of hydraulic conductivity values corresponds with the range of values typically associated with silty clay loam and silty clay (van Genuchten, et. al, 1991; Freeze and Cherry, 1979).

Average linear velocity (Freeze and Cherry, 1979) of groundwater flow was calculated using the discharge velocity (from Darcy's Law) divided by effective porosity to express flow through a porous medium:

anticipated that most, if no all, of the new shallow wells will go dry during the dry season. This is evidenced by the 3-foot drop in water levels during the 3-week period from August 19 to September 12, 2005.

⁵ "A Spreadsheet Method of Estimating Best-Fit Hydraulic Gradients Using Head Data from Multiple Wells," Ground Water, Vol. 41 No. 3.

⁶ Visual inspection of data on Figure 5B suggests that the water elevation observed in MW-6 could be an outlier, and hydraulic gradient should be south-southwest.

$$V_p = \frac{K}{n_e} \times \Delta H \times 1034645.7$$

where

V_p = average linear velocity (feet/year);

K = hydraulic conductivity (centimeters/second);

ΔH = hydraulic gradient (unit-less);

n_e = effective porosity (unit-less); and

1034645.7 = conversion factor between cm/s and ft/yr.

Referenced effective porosities for silty clay range from 0.24 for SESOIL to 0.36 for Carsel and Parrish (1988: "Developing Joint Probability Distributions of Soil Water Retention Curves", Water Resources Research). A more appropriate value would be 0.321, from Rawls et al. (1982: "Estimating Soil Water Properties", Transactions, ASAE). Therefore, assuming an effective porosity of 0.321, the calculated average linear velocity for the two zones are 0.006 foot per year ("20-foot zone") and 0.39 foot per year ("40-foot zone"). Average linear velocity is not indicative of the actual rate of contaminant migration; due to various retardation and natural attenuation processes that apply to dissolved contaminants, but not to the water itself, average linear velocity may significantly overstate the rate of contaminant migration.

4.0 SIGNIFICANT FINDINGS OF THE COLLECTIVE INVESTIGATIONS

4.1 PROPERTY HYDROGEOLOGY

Colquitt lies within the Dougherty Plain District of the Coastal Plain Province. The Dougherty Plain is a northeast-trending, wedge-shaped, level to gently rolling lowland that pinches out where the Fall Line Hills and the Tifton Upland meet. The northwestern boundary is gradational from the Fall Line Hills and occurs where the slopes become more gentle and the relief is low; the 250 foot elevation approximates this boundary. The southeastern boundary is the base of the Pelham Escarpment, which separates this distinct from the Tifton Upland. The region slopes southwestward with maximum elevations of 300 feet in the northeast to a minimum elevation of 77 feet at Lake Seminole. The flat to very gently rolling topography is interrupted by numerous sinkholes. Karst topography prevails in this district, and many sinkholes, still actively forming, are the sites of numerous ponds and marshes. The karst topography is formed on the underlying Ocala Group and Suwannee Limestones (southwest of Miller County) of Eocene and Oligocene age, respectively.

The Dougherty Plain is underlain by surficial residuum consisting of varied-colored clay and fine to coarse, subangular sand, not generally water bearing (Mitchell, 1981). Surficial sediments are underlain by the limestones of the Eocene-age Ocala Group. The Ocala varies from a porous, cream to white, loose coquina of large foraminifers and shells to a brown, solution-riddled, echinoid-rich limestone. Locally, the top of the limestone is sometimes replaced by chert. Depth to the top of the Ocala is approximately 100 feet in Miller County (Herrick and Vorhis, 1963). The Ocala Group underlies south Georgia from the Dougherty Plain all the way south to the Florida Keys. Groundwater flow within the principal artesian aquifer (Ocala Group limestone), which is the main source of municipal groundwater in southwest Georgia, is to the south (Mitchell, 1981). The town of Colquitt utilizes the Ocala as its groundwater source (Wait, 1960).

Local shallow stratigraphy, as defined by the investigations conducted at the Site and surrounding Property, consists of undifferentiated sands, clays, and discontinuous weathered limestones to a depth of approximately 80 feet. Depth to competent bedrock has not been determined at the Property, but is probably within 100 feet of land surface. Two discrete and discontinuous weathered limestone horizons have been encountered at the Property. A shallow weathered limestone at 14 to 20 feet bgs was encountered only on the northern portion of the Property in two wells (MW-4 and MW-9) and in four DPT borings (BH-3, BH-4, BH-6, and BH-8). A deeper limestone horizon was

encountered at 44, 54, and 40 feet bgs in MW-5, MW-6, and MW-8, respectively. Cross-sections showing the Property stratigraphy (location shown on Figure 7) are presented on Figures 8A and 8B.

Shallow groundwater in the Dougherty Plain area can occur in discrete, discontinuous perched zones, the occurrence depending on stratigraphic variations (2005, pers. comm.; Debbie Gordon, USGS). Water levels also commonly respond quickly to precipitation events. The unconsolidated material above the Ocala Group limestone bedrock acts as a leaky aquitard, consisting mostly of sandy clay. The weathered limestone zones within the unconsolidated material act as preferential pathways for groundwater flow. However, due to their discontinuous nature laterally, the storage is not significant and migration potential highly limited. In essence, these zones act more like individual perched zones than continuous permeable zones.

During Site investigations, sampling was conducted to first groundwater, which typically was encountered in each borehole at the first major lithologic change (first limestone horizon beneath sandy clay). These saturated zones are confined, and depending on depth of encounter, water levels rose from 4 feet (shallow horizon) to 25 feet (deeper horizon) above the top of the limestone. Site conditions did not show the coexistence of two independent permeable zones at the 20 and 40-foot depth zones (approximately); rather, only one permeable zone at each location was detected, and groundwater was encountered when that zone was reached. The shallow and deeper limestone horizons apparently are not hydraulically connected, as evidenced by an approximate 12-foot difference in respective potentiometric levels (see Table 3).

The flow direction in the shallower zone is shown by the water level measurements taken in MW-9, MW-10, MW-11 and MW-13 through MW-16, with a general trend more westerly than that within the deeper horizon (Figure 5A). Although the shallow limestone was not encountered in wells MW-10 and MW-11, the proximity to nearby DPT borings that did encounter the limestone, and the shallow depth to groundwater infer their relationship to the shallow zone. Groundwater flow direction in the deeper limestone horizon, as determined by water level measurements taken in wells MW-5, MW-6, MW-7D, MW-8, and MW-12 is to the south (Figure 5B).

4.3 NATURE AND EXTENT OF CONTAMINATION

Conclusions of the Site delineation efforts are as follows:

1. soil sampling investigations conducted at the Site have not positively identified a surface entry location (i.e., the spot where the PCE was released) or area of significant soil impact, even though a total of 23 borings have been sampled within a circle with an approximate radius of only 200 feet. The extensive soil sampling performed to date indicates on Site soils comply with Type 1 RRS;
2. impacted groundwater is within a permeable zone of limited permeability and degree of water saturation;
3. horizontally, the area of impact appears to be limited to an area approximately 150 feet (northwest to southeast) by 50 feet;
4. depth of impact has shown to be limited to within 20 to 50 feet bgs;
5. concentrations of PCE in groundwater are roughly within one order of magnitude of the detection limit (5 µg/L);
6. the configuration of PCE impact in groundwater at the Site shows the greatest concentrations to be in the center of the Site; and,
7. the aqueous (dissolved) contaminant plume, defined by MW-10 and MW-11, suggests that the initial release was in that area.

4.4 CONCEPTUAL MODEL OF CONTAMINANT MIGRATION

Chlorinated solvents such as TCE and PCE (as well as their degradation products cis-1,2-dichloroethene and vinyl chloride) are dense, nonaqueous phase liquids (DNAPLs⁷), meaning that they are more dense than water, and are hydrophobic (do not mix well) in water. When spilled on the ground in sufficient quantities, a chlorinated solvent will migrate downward through soil by the force of gravity. As it progresses downward through the unsaturated zone, it leaves behind residual liquid (residual saturation) that gets trapped in the pore spaces by interfacial (surface) tension effects (Mercer and Cohen, 1990; USEPA, 1996). It can only continue its downward migration if there is sufficient volume to replenish the chlorinated solvent that gets trapped in soil pore spaces along the way, (Schwille, 1988). Residual droplets of fluid that are trapped within the soil pores in the saturated zone serve as a chemical contaminant source to the groundwater (USEPA, 1991). The groundwater that flows through the "hanging curtain" of residual droplets in the soil within the saturated zone will transport dissolved PCE horizontally along with the flow of groundwater.

⁷ The ganglia of micro-globule droplets held under capillary forces in the pore spaces of the soil matrix (Kram et al., 2001) are referred to as residual DNAPL.

Because of the lasting effect of residual saturation, the greatest concentrations of soil (residual) and groundwater (dissolved) impact from chlorinated hydrocarbons typically correspond with the location(s) of initial release. Concurrently, a zone of impact, horizontal or vertical, can be traced back, more or less continuously, from lowest concentration of impact to the approximate source area. Chlorinated hydrocarbons do not separate into slugs or isolated pockets, but leave behind a trail of droplets adsorbed in the soil pores, like breadcrumbs, back to the origin.

Given a fixed volume of dissolved PCE at the source or release area, it is not possible for PCE to spread beyond a certain length of porous medium without continued volume (excess volume and head pressure) of PCE added at the source. Soil sampling suggests that a source area does not remain at the Site. The transient nature of saturation related to precipitation and variable flow directions between the shallow and deeper permeable zones infer that the shallower zone is perched, and is not part of the local groundwater flow regime. Also, the calculated groundwater flows at the Site are extremely slow, less than one foot per year. Thus, the investigations at the Site suggest that the configuration of the dissolved plume, is stable and would not migrate beyond or below present boundaries of the plume.

4.5 POTENTIAL SOURCES

Neither FFM nor Birdsong Peanut has reportedly used PCE as part of regular Site operations. Chlorinated solvents such as PCE are not typically used in handling or processing food products such as peanuts. Also, they are not generally used for agricultural applications such as fertilizing or pest control. Site investigations did not detect a source area. However, the current Site employees report that a small shed formerly located in the vicinity of DPT boring BH-3/well MW-10 had been used for limited equipment and/or vehicle maintenance, that could have used degreasing agents. This could represent the potential source of PCE. However, no maintenance activities have reportedly been conducted at that location in the past 20 years.

The configuration of the dissolved PCE plume centered on MW-10 suggests that this area could have been the original release area. Based on the lack of soil impact, the small groundwater impact area, and the relatively low detected PCE groundwater concentrations, any release from this area was likely small in volume. The highest PCE concentrations observed have been 0.1% of the solubility of PCE, indicating the absence of free-phase or residual DNAPL.

5.0 VOLUNTARY INTERIM REMEDIAL MEASURES

Based on the results of the ongoing investigations, Man Group and Birdsong Peanut elected to conduct limited voluntary interim remedial measures at the Site as a means to eliminate, control, or minimize potential risk represented by the Site. The voluntary remedial technology used, verbally approved by EPD, has been in-situ chemical injection of potassium permanganate for oxidation of the observed chlorinated hydrocarbon, PCE. The injection program was designed and implemented in an iterative manner, with focused injections based on the results of confirmatory sampling conducted. A notification⁸ of pilot-scale injection was sent to the Underground Injection Control, Water Resources Branch of EPD, for these interim measures.

Potassium permanganate has been pressure-injected into the subsurface using direct push technology (DPT) in four iterations, with each application focused on a particular area. The trend in PCE concentrations versus time for representative wells is presented in Figure 10. These injections are summarized below.

5.1 FIRST IN-SITU CHEMICAL TREATMENT

The first injection was conducted in May 2002, at 10 DPT boring locations across the Site (see Figure 11). Approximately 50 gallons of permanganate (a 1% solution by weight) was injected at each of the injection points, at depths of 25 to 35 feet. After three month's time, monitoring well sampling indicated that the PCE in the vicinity of MW-6 had been oxidized. However, the PCE detected in MW-5 (8 µg/L) was slightly above the MCL for PCE of 5 µg/L.

5.2 SECOND IN-SITU CHEMICAL TREATMENT

A second injection was performed on September 4 and 5, 2002. A fourth monitoring well (MW-10) had been installed in the vicinity of BH-3 (Figure 2), and sampled before the second injection took place; sampling results showed PCE was detected at a concentration of 130 µg/L. (This well was completed as a 1-inch diameter PVC well

⁸ Prior to undertaking the first injection, CRA had prepared and submitted the documentation for requesting a UIC permit. However, EPD's Underground Injection Control Branch advised CRA that as long as the corrective activities were voluntary, being conducted under HSRA, and results were being reported to HSRA, then no UIC permit would need to be issued. Rather, the work could proceed as a pilot program with notification given in lieu of a permits. Used judiciously, pilot injections are allowed on a by-case basis for voluntary actions; CRA has followed this procedure to satisfy the requirements of UIC.

with a 10-foot screen, flush mount completion.) One hundred gallons of potassium permanganate at 5% by weight was pressure-injected into the subsurface using DPT at 10 boring locations focused between MW-5, MW-6, and the new well MW-10.

Monitoring wells MW-5, MW-6, MW-7D and MW-10 were sampled on October 29, 2002, approximately 8 weeks after the second injection. The results of the sampling showed that the PCE in the vicinity of MW-6 and MW-10 had been oxidized, and confirmed the absence of degradation parameters (cis-1,2-dichloroethene, vinyl chloride) in all groundwater samples. However, the PCE detected in MW-5 at 9.1 µg/L still remained above the Maximum Contaminant Level (MCL) for PCE of 5 µg/L. (A detection of PCE at 6.1 µg/L in the deeper well MW-7D was considered suspect since it is not physically possible for the injection process to cause the downward migration of PCE on the order of 20 feet through a silty clay.)

A follow-up sampling event was conducted on February 11, 2003. The results of this sampling confirmed the absence of PCE in MW-7D. However, the analytical results showed a low detection of PCE just above detection limits in MW-6, and PCE in the new monitoring well, MW-10, (reduced from 130 µg/L to non-detect after the previous injection) had rebounded to 120 µg/L. This rebound could have been related to the rise in Site groundwater levels over the period of July 2002 to February 2003, on the order of 7 feet. It is possible that there was a "smear zone" of PCE trapped within the soil near MW-10, formerly above the groundwater, that had been dissolved into the groundwater, causing the apparent rebound. However, the lack of PCE detections in soil lessens the possibility of a significant smear zone. Such a rebound could also be from a combination of flushing effects from the injected liquid, and from insufficient volumes of injectant to react with PCE in the groundwater.

5.3 THIRD IN-SITU CHEMICAL TREATMENT

After MW-11 was installed on August 12, 2003, approximately 250 gallons of a 6% potassium permanganate solution was injected in each of 10 injection borings located along a line running northwest-southeast from MW-10 to MW-6. On September 30, 2003, confirmatory groundwater sampling showed no detection of PCE in MW-7D and MW-10, but showed detections in MW-5, MW-6, and MW-11 of 8 µg/L, 20 µg/L, and 430 µg/L, respectively.

The reported concentration of PCE in the sample from MW-11 was suspect based on the results of the previous investigation performed in April 2003, and distance from the center of the plume as delineated by other monitoring wells and borings. However,

since the stratigraphy at the Site consists of isolated lenses of weathered limestone in clay, it is possible that MW-11 intercepted a small lens of limestone, undetected by the DPT borings in the vicinity, that acts as a "sponge" due to its higher permeability, holding groundwater showing higher impact from PCE.

Additional confirmation sampling was conducted on November 7, 2003. Monitoring wells MW-5 through MW-7D, and MW-9 through MW-11 were sampled. The results of the sampling showed no PCE remaining at the Site except for MW-5 at 5.5 µg/L, slightly above detection limits, MW-6 at 29 µg/L, and MW-11, which showed a detection of PCE at 180 µg/L. This detection in MW-11, lower than the original detection, supports the possibility of dissolved PCE having been flushed to the west from the vicinity of MW-10.

5.4 FOURTH IN-SITU CHEMICAL TREATMENT

After an additional monitoring well (MW-12) upgradient of MW-11 was installed for background delineation purposes, a focused injection of potassium permanganate was performed during the week of May 3, 2004. 250 gallons of 6% potassium permanganate solution was injected in each of 10 injection borings oriented in a grid pattern starting from 11 feet west of MW-11⁹ leading to the east by MW-10; injection also was performed near MW-6 and adjacent to MW-5.

On June 23, 2004, confirmatory groundwater sampling was performed to determine the impact of the latest phase of injection. The results of this sampling, along with previous samplings, are contained in Table 5. This sampling showed no detection of PCE in MW-5, MW-7D, and MW-10, but showed low detections in MW-6, MW-11, and MW-12 of 21 µg/L, 41 µg/L, and 19 µg/L, respectively.

On October 20, 2004, the second confirmatory groundwater sampling was performed to examine the long-term impact of the latest phase of injection. This sampling showed no detection of PCE in MW-5 and MW-7D, but showed low detections in MW-6 (25 µg/L), MW-10 (8.6 µg/L), MW-11(57 µg/L), and MW-12 (17 µg/L).

The sampling shows that the Site is at stasis, with the highest observed concentration of PCE (MW-11) at 50% of the previous observation, but the remaining wells not showing a significant change. The overall concentrations of PCE in the limited groundwater contaminant plume have been significantly reduced, at least by an order of magnitude,

⁹ Injection was started to the west to avoid the potential for "pushing" PCE out from the injection area and increasing contaminant concentrations in the perimeter wells MW-11 and MW-12.

through the use of potassium permanganate injection. The monitoring well located on the western perimeter of the Site, MW-5, has remained non-detect since November of 2003. However, levels of PCE at MW-6 and MW-11 remain above the RRS of 5.0 µg/L.

6.0 RISKS POSED BY CURRENT SITE CONTAMINATION

Preceding sections of the CSR described the distribution of contamination at the Site, without regard to the contamination's potential impact on human health or the environment. In the following sections, we describe what is known about potential receptors, followed by a comparison of actual concentrations at the Site to the Risk Reduction Standards (RRS) of the HSRA rules.

The Site is surrounded by a fence that is open at the front entrance and at the back entrance. The Site is active, with employees on Site (less than 24 hours). The impacted area is well within the property boundary fence, and is of limited extent both laterally (within an approximate 100-foot radius) and does not extend up to the ground surface (i.e., contamination is below pavement, typically at depth from 20 to 50 feet bgs). No other property is impacted, or is expected to be impacted by this release.

6.1 POTENTIAL RECEPTORS

6.1.1 POTENTIAL EXPOSURE TO SOILS

The results of the CSR activities indicate that no analyzed parameters in the collected soil samples were detected at concentrations above the residential Type I Soil RRSs. PCE was detected in a total of only 12 of 46 soil samples at concentrations ranging from 3.2 µg/kg to 29 µg/kg, well below the RRS of 500 µg/kg. Moreover, the entire Property has limited access, and is concrete or asphalt-paved with no access to subsurface soil. The impacted area is well within the property boundary fence, and is of limited extent both laterally and at depth. Consequently, the potential for direct human exposure to contaminated soil at the Site does not exist. The Site complies with all Type 1 RRS for soils

6.1.2 POTENTIAL EXPOSURES TO SURFACE WATER

Other than stormwater drainage ways, there is no naturally occurring surface water located at the Property. The majority of the Property is paved, and there is at least 10 feet of unsaturated soil beneath the pavement. Therefore, the potential for surface water contamination at the Site is negligible. It does not appear that any impact to or migration of surface water contaminated by PCE is occurring at the Site. Any surface runoff generated at the Property would either infiltrate unpaved areas surrounding the parking lot, or be intercepted by the storm sewer inlets in paved areas. There were no

contexts discovered where water emerges from beneath the buildings or pavement and becomes surface water.

6.1.3 POTENTIAL EXPOSURES TO GROUND WATER

There is no apparent potential for exposure to substances released from the Site through exposure to groundwater. The Property, surrounding agricultural/commercial operations and residences are served by public water, which comes from the Ocala Group limestones at depth and under artesian pressure. Although there is detectable impact to shallow groundwater in a limited portion of the Site from PCE above MCLs, the potential for off-Site migration is extremely low.

There is a municipal well (Colquitt Number 3) located approximately 400 feet to the west of the Site. According to the local municipal authority, this well is completed in limestones of the Ocala Group (Floridan aquifer), is believed to be cased to around 180 feet, and typically shows a drawdown of approximately 44 feet below grade. The location of this municipal well is cross-gradient to the flow directions observed in Site wells, and is screened approximately 130 feet deeper than the deepest observed impact at the Site. Ignoring the flow direction, and assuming a conservative assumption of isotropic permeability within the shallow clays (given the slow horizontal flow rate of less than one foot per year), vertical time of travel directly at the well head cone of depression would be around 300 years from the saturated zone to the screened zone. Thus, the municipal well is not considered a receptor.

6.2 APPLICABLE RISK REDUCTION STANDARDS

Section 391-3-19-.07 of the Rules allows for the determination of risk reduction standards (RRSs) that are protective of human health and the environment. The Rules provide for five alternative types of RRSs against which a site's compliance status may be evaluated. The RRS Types are described below:

- Type 1 – based on standardized exposure assumptions for residential properties;
- Type 2 – based on Site-specific exposure determinations for residential properties;
- Type 3 – based on standardized exposure assumptions for non-residential properties;
- Type 4 – based on Site-specific exposure determinations for non-residential properties; and

- Type 5 – based on the use of engineering and institutional controls such as caps, slurry walls, fences, deed restrictions, etc. to minimize risk at any type property when it is not appropriate and/or practical to apply Type 1-4 standards.

The area (Site) known to have been impacted by (or suspected of having been impacted by) releases at the Property is limited to an area that is in a land use that meets the definition given in the Rules for “non-residential property.” As such, the Type 3 risk reduction standards (Type 3 RRS) and Type 4 risk reduction standards (Type 4 RRS) of the Rules would be applicable. The use of engineering and institutional controls is not applicable at the Site, thus Type 5 risk reduction standards are not offered for comparison.

6.3 STATUS OF SITE’S COMPLIANCE WITH RISK REDUCTION STANDARDS

The only regulated substance present at concentrations above RRS at the Site is PCE. The Type 1 RRS for PCE (not a metal, and thus not in Rule 391-3-19 Appendix III Table 2) in soil is the largest concentration of either the Appendix I Notification Concentration for soil (180 µg/kg) or 100 times the Appendix III Table 1 Groundwater Criteria (=500 µg/kg). Based on the soil data collected at the facility, the Site is in compliance with Type 1 RRSs in soil. The minimal detections of PCE in soil were observed in 3 of 35 soil samples, taken from within the saturated zone at a depth below 19 feet, and reflect groundwater impact. However, all samples taken from within and also below the unsaturated zone are either non-detect or well below 500 µg/kg.

Until such time that peer review scientists at EPA have accepted official USEPA dose response values by listing it on IRIS, CRA recognizes that the Type 1/3 RRS are the least restrictive most appropriate cleanup standards for most many chlorinated hydrocarbons in groundwater, and will utilize those RRS. The data collected to-date for the CSR show that the Site does not comply with the Type 3 RRS for groundwater for PCE. The Type 3 RRS for PCE is its MCL, 5 µg/L. Samples collected at monitoring wells MW-6, MW-11, MW-12, MW-13, and MW-16 currently exceed the Type 3 RRS for PCE. At well MW-10, which formerly showed the highest PCE concentrations, the PCE concentration has been below the Type 1 RRS for the past 2 years except for one detection in October 2004.

The vertical extent of impact to groundwater from PCE has been delineated by MW-7D and MW-17D. The non-detect of PCE in groundwater samples from these wells, adjacent to wells MW-10 and MW-6, indicates that the impact from the chlorinated

hydrocarbon PCE is limited to at least within 50 feet of ground surface. This limited area of groundwater impact does not meet the RRS for PCE in groundwater.

7.0 PUBLIC PARTICIPATION

In accordance with the public participation requirements at Rule 391-3-19-.06(5), a notice of the availability of this CSR is being prepared for publication, within 7 days of the CSR's submittal to EPD, in the legal advertisements section of the Colquitt Chronicle newspaper:

PUBLIC NOTICE
Portion of Southwest Quarter of
Former Farmers Fertilizer and Milling Facility, now Birdsong Peanut
608 East Main Street
Colquitt, Georgia

The Georgia Environmental Protection Division, Department of Natural Resources, State of Georgia (EPD) has placed this site on the Hazardous Site Inventory pursuant to its authority under the Hazardous Site Response Act and Rules promulgated thereunder. As required by the Rules for Hazardous Site Response, the responsible party for this site was required to investigate the site and submit a compliance status report (CSR) to EPD summarizing the results of that investigation. EPD is currently reviewing the CSR to determine if corrective action is needed for regulated substances that have been released at this site. Before EPD decides whether corrective action is needed, the public has the opportunity to review the compliance status report and provide comments to EPD about the report.

The 30-day public comment period begins September 26, 2005. Oral and written comments can be made to:

Ms. Jacki Scarbary
Georgia Environmental Protection Division
Hazardous Sites Response Program
2 Martin Luther King Drive, Suite 1462
Atlanta, Georgia 30334
(404) 657-8600

The designated contact for the parties who developed the report is:

Thomas Lawrence
Conestoga-Rovers & Associates, Inc.
1351 Oakbrook Drive, Suite 150
Norcross, Georgia 30093

(770) 441-0027

An exact copy of the published notice will be submitted to EPD within 15 days of publication. CRA has also prepared separate letters, conveying the same information as the legal advertisement, to the Chairman of the Miller County Board of Commissioners and the Mayor of Colquitt. A copy of the CSR will be provided to the Miller County Library in Colquitt.

8.0 REFERENCES

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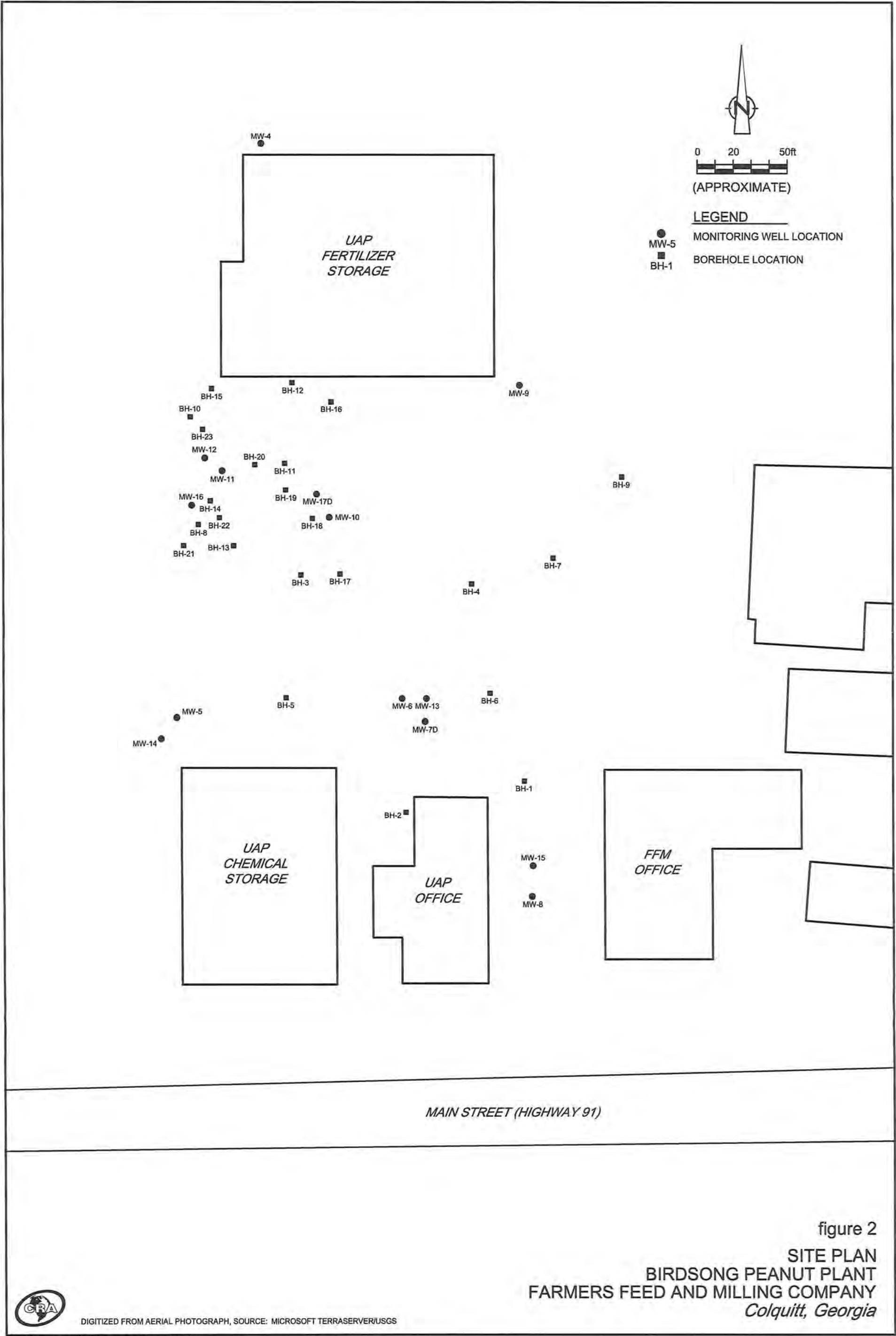
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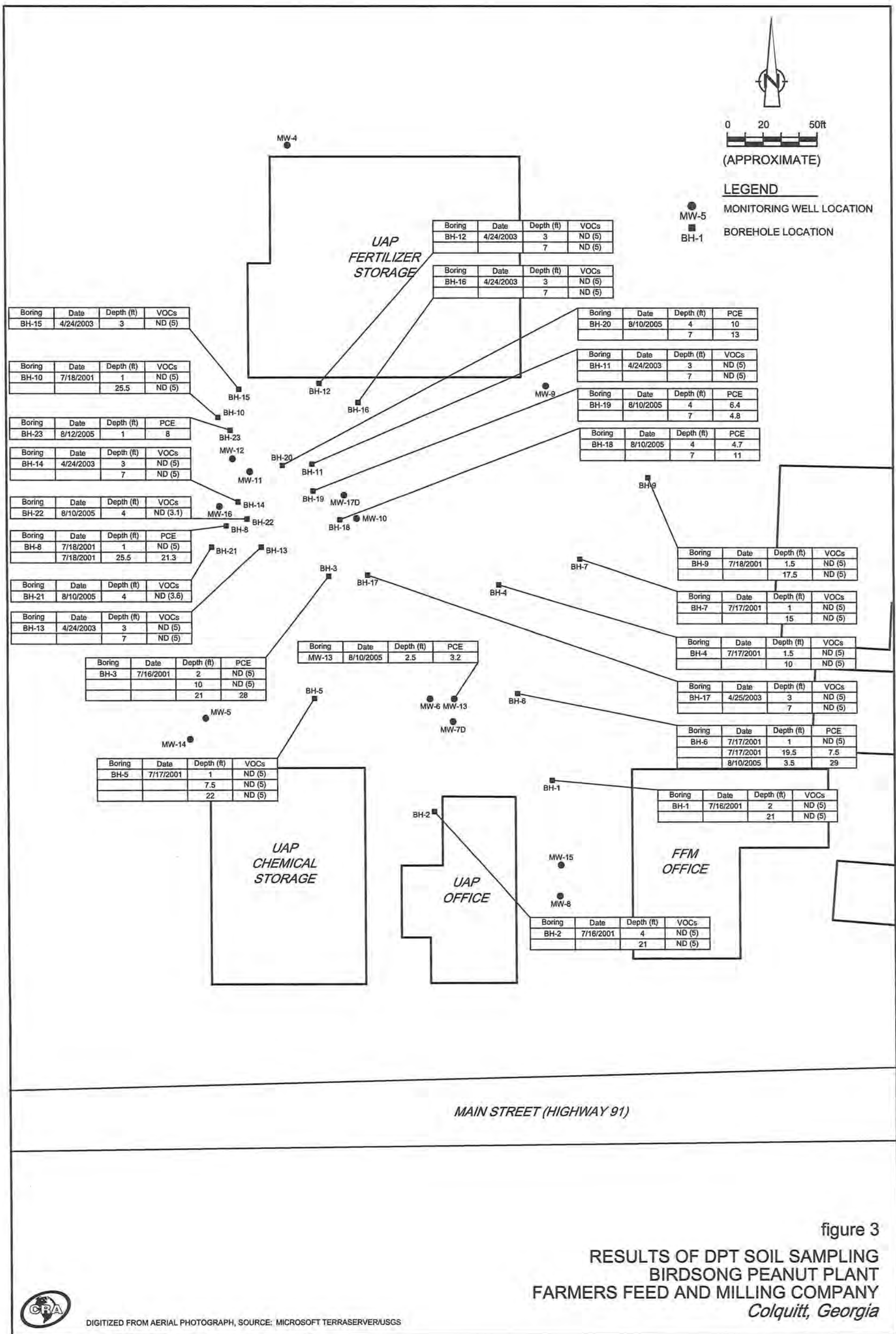
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DIGITIZED FROM AERIAL PHOTOGRAPH, SOURCE: MICROSOFT TERRASERVER/USGS

figure 3
RESULTS OF DPT SOIL SAMPLING
BIRDSONG PEANUT PLANT
FARMERS FEED AND MILLING COMPANY
Colquitt, Georgia

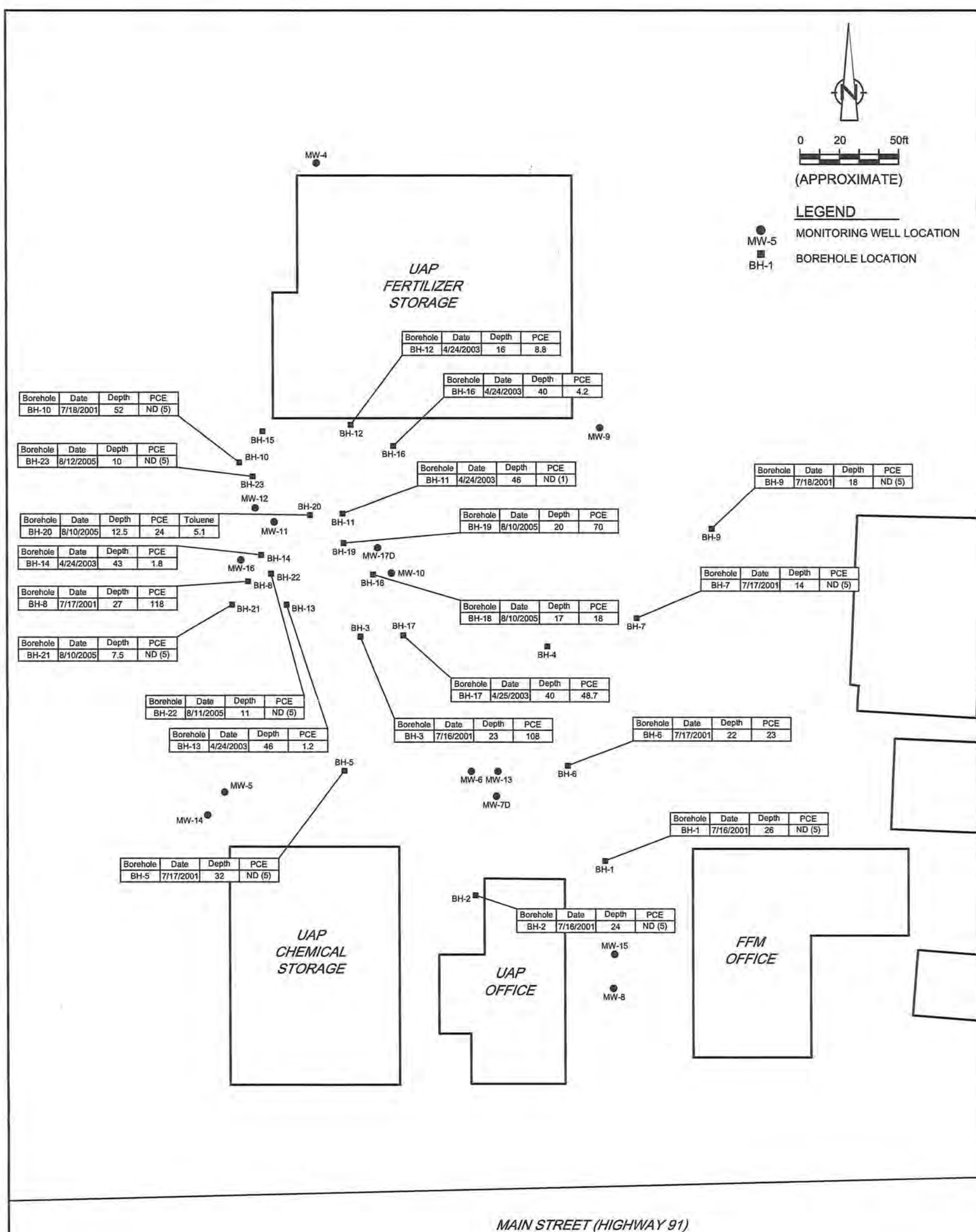


figure 4

RESULTS OF DPT GROUNDWATER SAMPLING
BIRDSONG PEANUT PLANT
FARMERS FEED AND MILLING COMPANY
Colquitt, Georgia

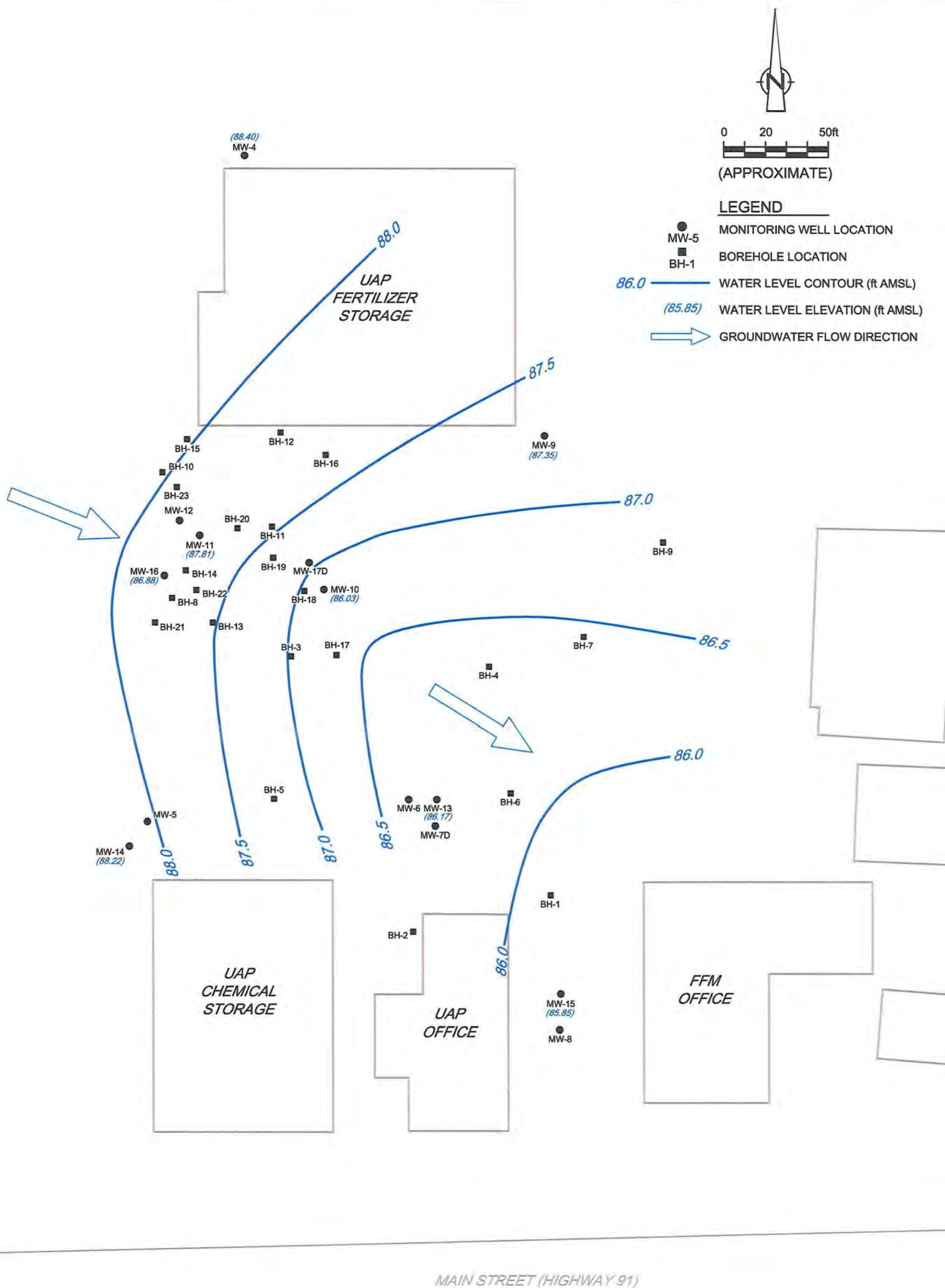


figure 5A
 "20 FOOT ZONE" GROUNDWATER ELEVATIONS (SEPTEMBER 9, 2005)
 BIRDSONG PEANUT PLANT
 FARMERS FEED AND MILLING COMPANY
 Colquitt, Georgia



DIGITIZED FROM AERIAL PHOTOGRAPH, SOURCE: MICROSOFT TERRASERVER/USGS

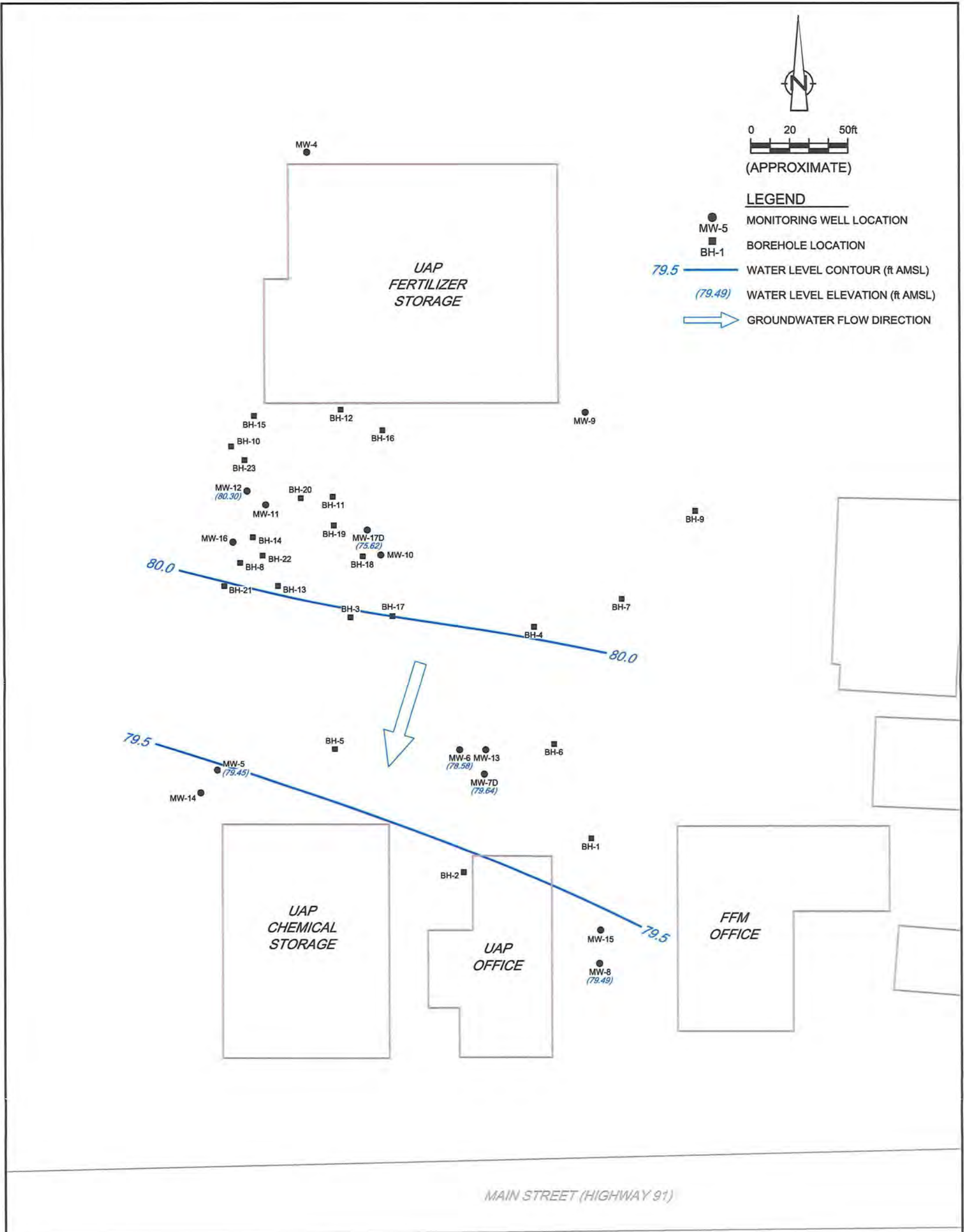


figure 5B
"40 FOOT ZONE" GROUNDWATER ELEVATIONS (SEPTEMBER 9, 2005)
BIRDSONG PEANUT PLANT
FARMERS FEED AND MILLING COMPANY
Colquitt, Georgia



DIGITIZED FROM AERIAL PHOTOGRAPH, SOURCE: MICROSOFT TERRASERVER/USGS

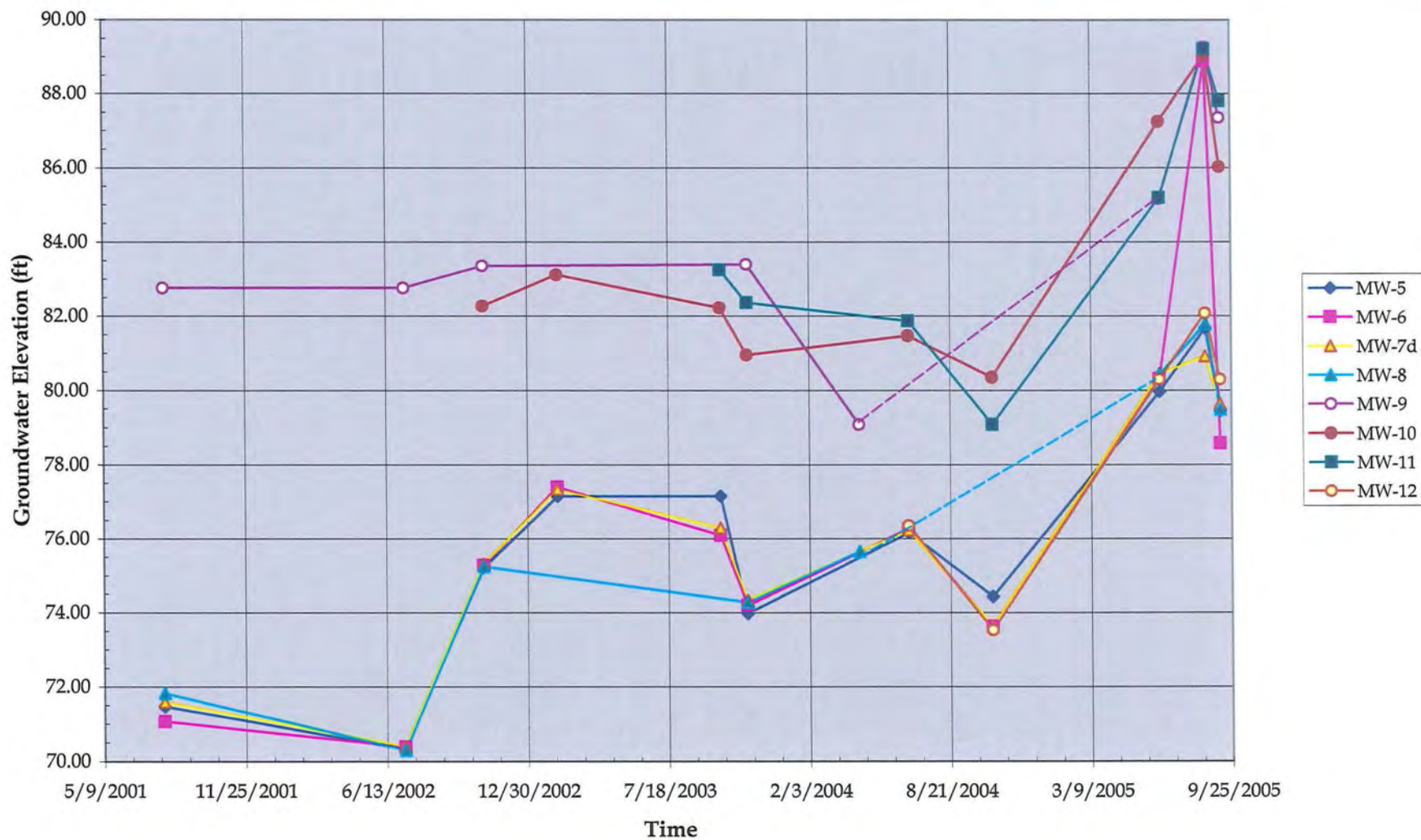


figure 6
WATER LEVELS OVER TIME
FORMER FARMER'S FEED AND MILLING COMPANY
Colquitt, Georgia



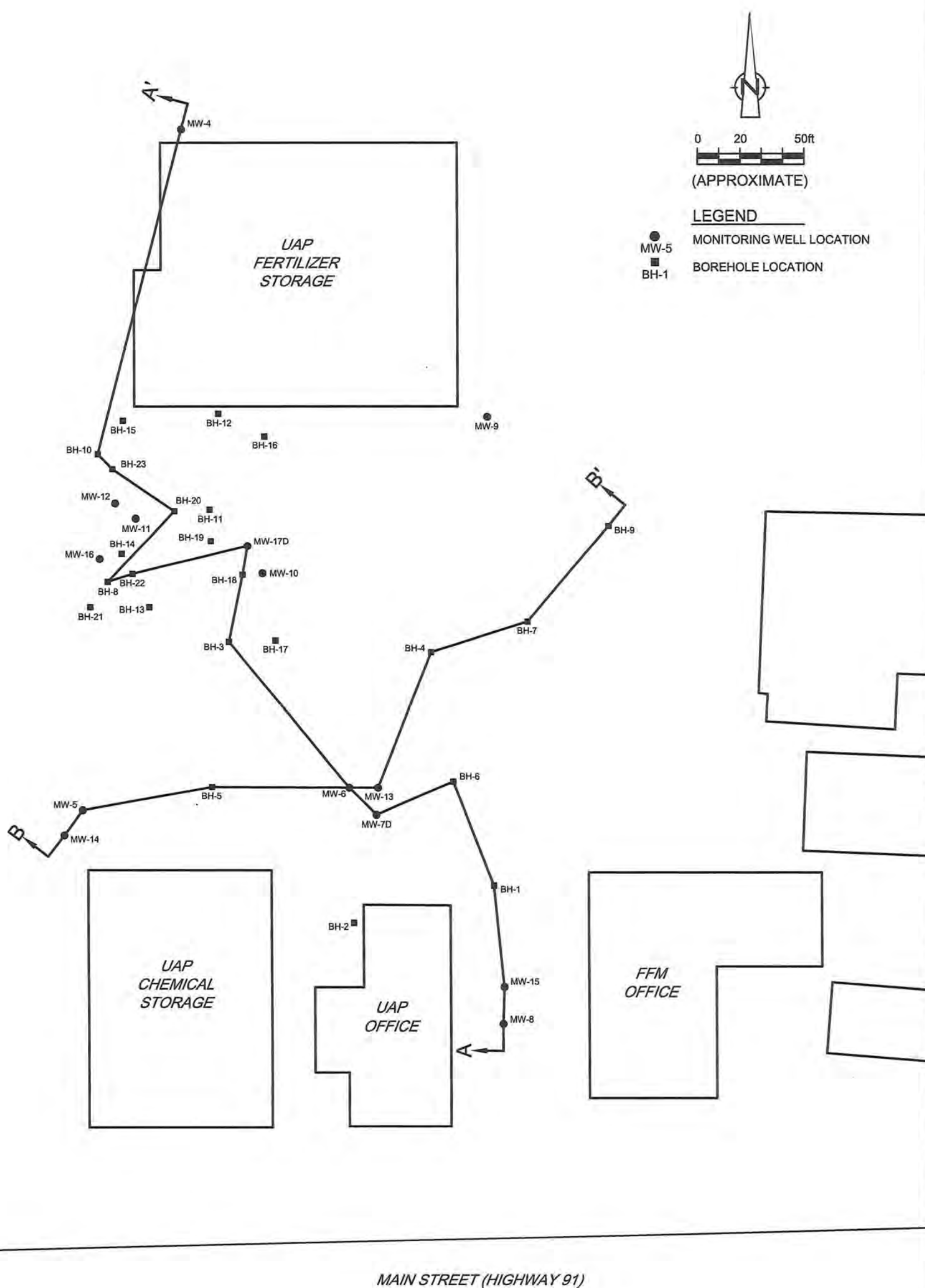
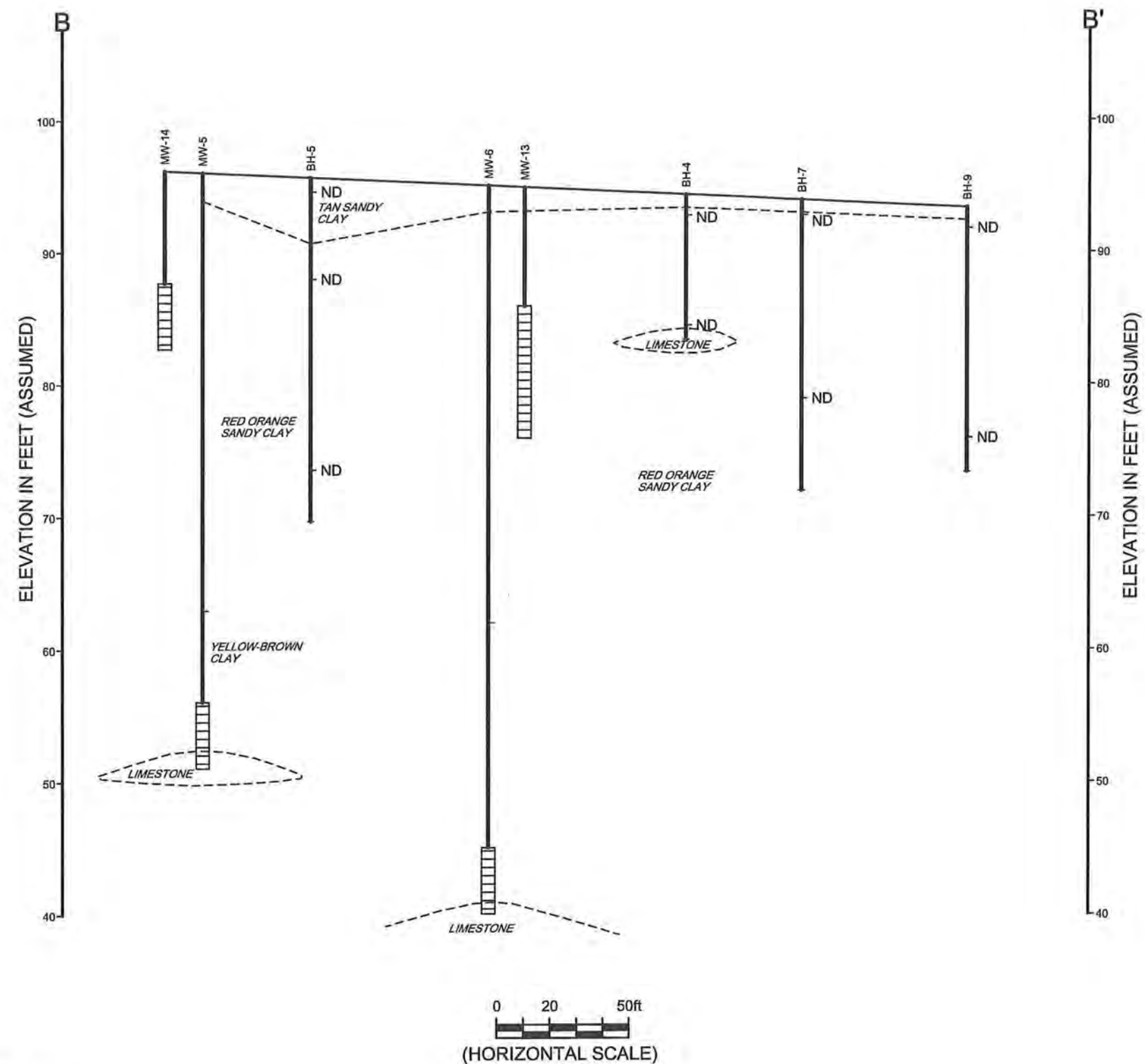


figure 7
GEOLOGIC CROSS SECTION LOCATIONS
BIRDSONG PEANUT PLANT
FARMERS FEED AND MILLING COMPANY
Colquitt, Georgia





LEGEND

28 ug/Kg = PCE IN SOIL SAMPLE



figure 8B
CROSS SECTION B-B'
BIRDSONG PEANUT PLANT
FARMERS FEED AND MILLING COMPANY
Colquitt, Georgia

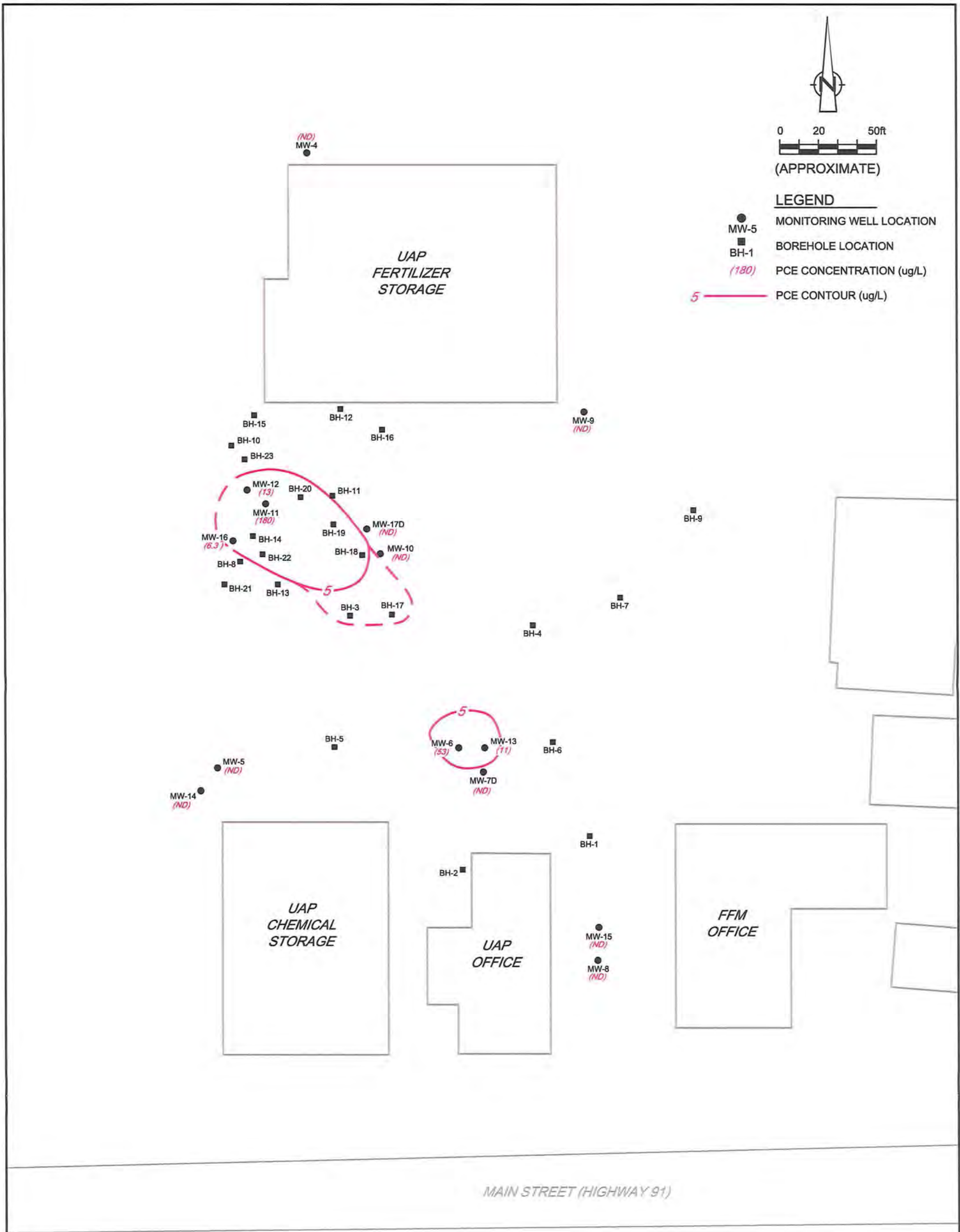


figure 9
EXTENT OF GROUNDWATER IMPACT
BIRDSONG PEANUT PLANT
FARMERS FEED AND MILLING COMPANY
Colquitt, Georgia



DIGITIZED FROM AERIAL PHOTOGRAPH, SOURCE: MICROSOFT TERRASERVER/USGS

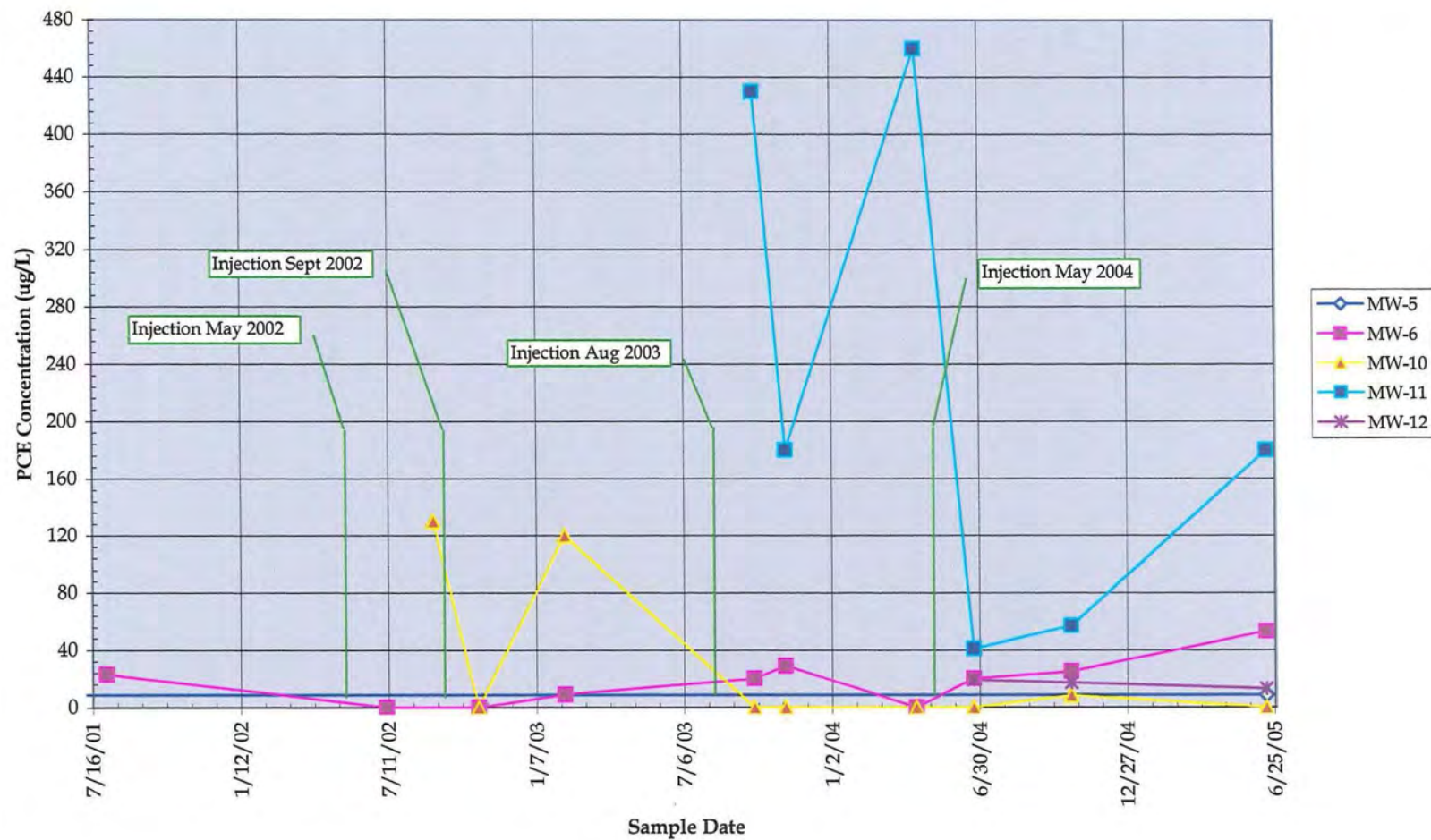


figure 10
TETRACHLOROETHENE CONCENTRATIONS VS TIME
BIRDSONG PEANUT/FFM FACILITY
Colquitt, Georgia



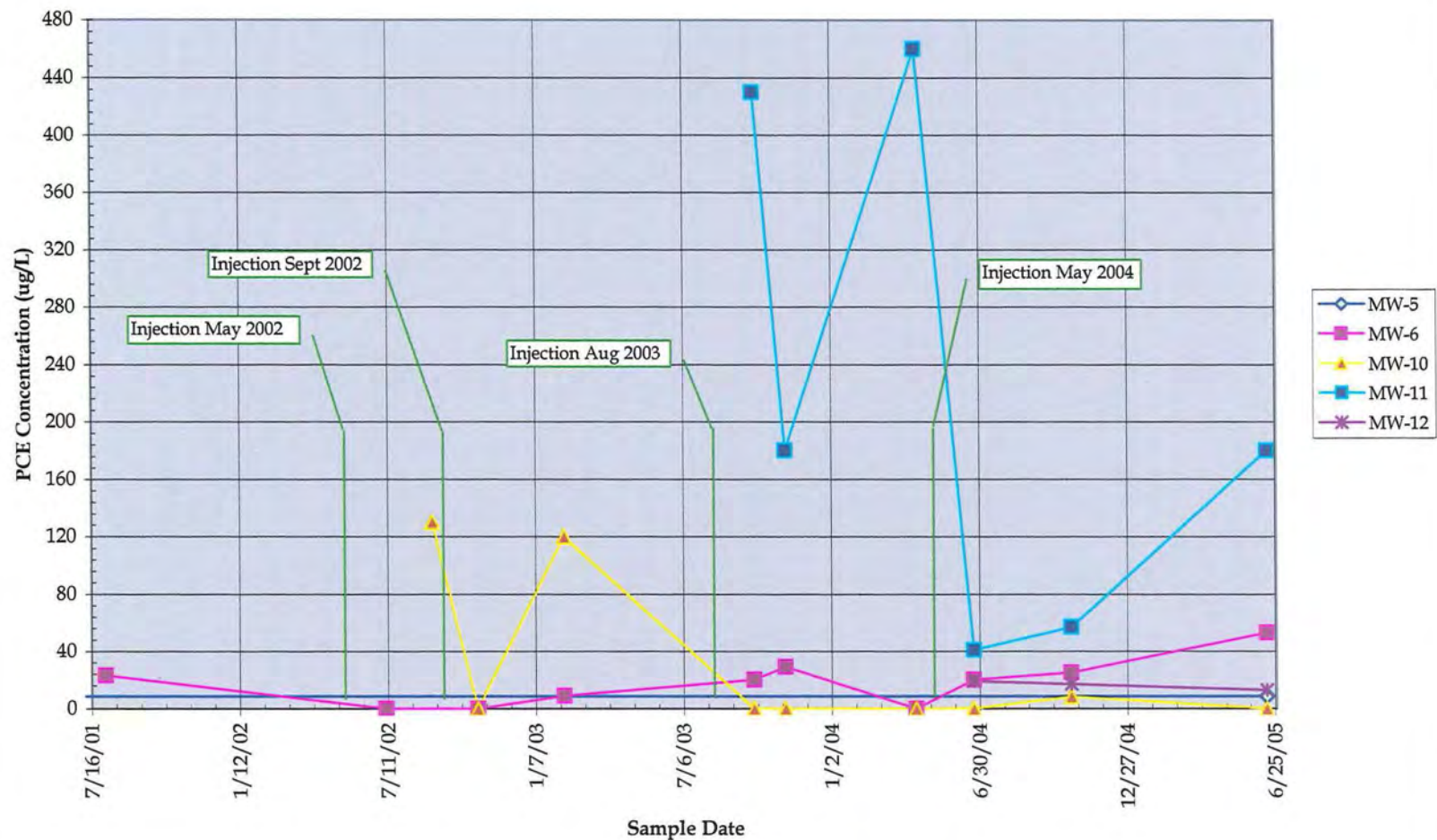


figure 10
TETRACHLOROETHENE CONCENTRATIONS VS TIME
BIRDSONG PEANUT/FFM FACILITY
Colquitt, Georgia



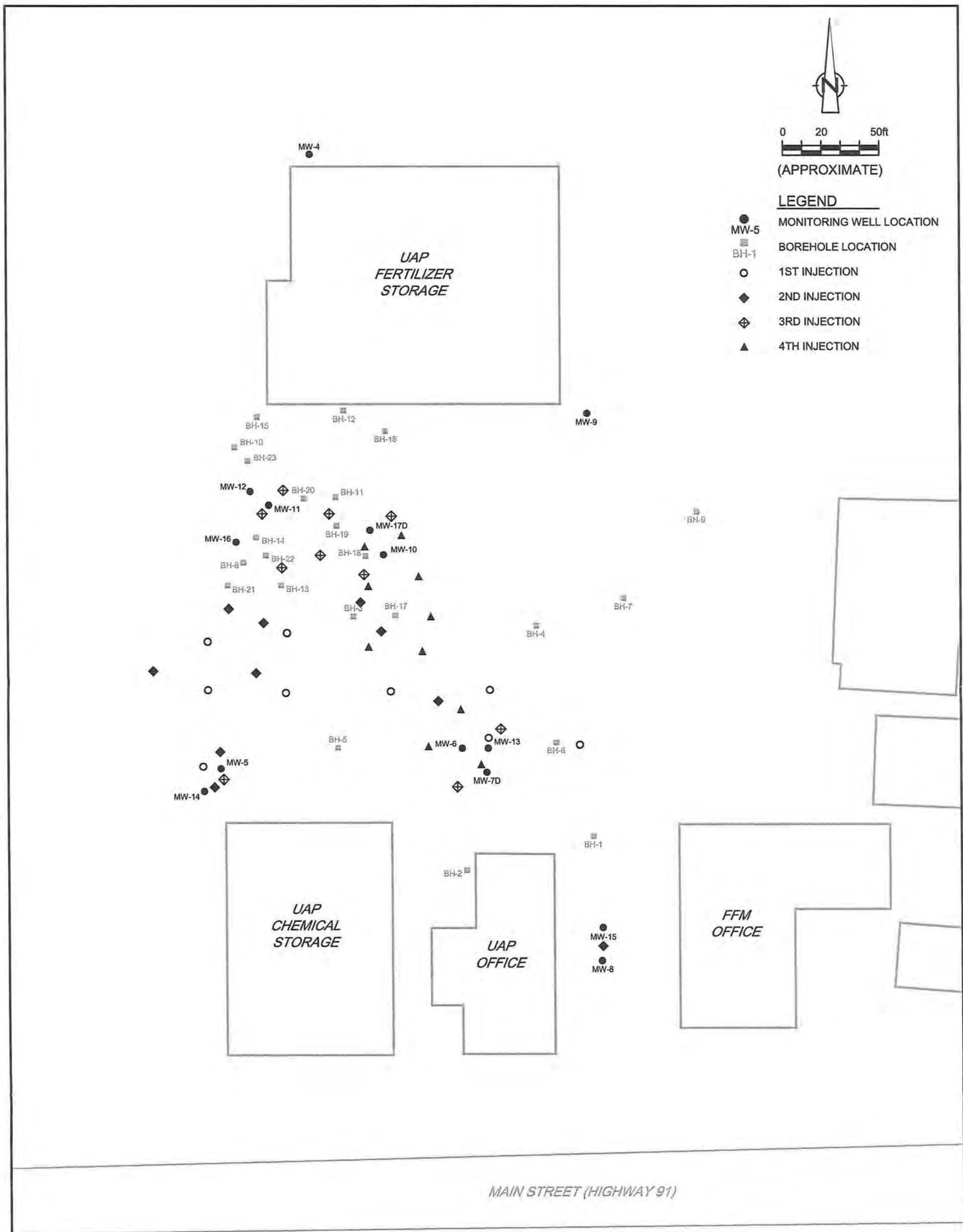


figure 11
PILOT INJECTION BORING LOCATIONS
BIRDSONG PEANUT PLANT
FARMERS FEED AND MILLING COMPANY
Colquitt, Georgia



TABLE 1
SUMMARY OF DPT SOIL SAMPLE ANALYTICAL RESULTS
FARMER'S FEED AND MILLING, COLQUITT, GEORGIA

DPT Boring	Sample Date	Sample Depth (ft)	DCA (ug/kg) CAS#75343	DCE (ug/kg) CAS#75354	TCE (ug/kg) CAS#79016	PCE (ug/kg) CAS#127184	VC (ug/kg) CAS#75014
BH-1	7/16/2001	2	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
		21	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
BH-2	7/16/2001	4	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
		21	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
BH-3	7/16/2001	2	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
		10	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
		21	ND (5)	ND (5)	ND (5)	28	ND (5)
BH-4	7/17/2001	1.5	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
		10	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
BH-5	7/17/2001	1	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
		7.5	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
		22	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
BH-6	7/17/2001	1	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
		19.5	ND (5)	ND (5)	ND (5)	7.5	ND (5)
BH-6 offset	8/10/2005	3.5	ND (3)	ND (3)	ND (3)	29	ND (6)
BH-7	7/17/2001	1	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
		15	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
BH-8	7/18/2001	1	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
		25.5	ND (5)	ND (5)	ND (5)	21.3	ND (5)
BH-8 offset	8/10/2005	2.5	ND (2.9)	ND (2.9)	ND (2.9)	3.2	ND (5.9)
BH-9	7/18/2001	1.5	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
		17.5	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
BH-10	7/18/2001	1	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
		25.5	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
BH-11	4/24/2003	3	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
		7	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
BH-12	4/24/2003	3	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
		7	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
BH-13	4/24/2003	3	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
		7	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
BH-14	4/24/2003	3	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
		7	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
BH-15	4/24/2003	3	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
BH-16	4/24/2003	3	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
		7	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
BH-17	4/25/2003	3	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
		7	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
BH-18	8/10/2005	4	ND (3.6)	ND (3.6)	ND (3.6)	4.7	ND (7.2)
		7	ND (3.6)	ND (3.6)	ND (3.6)	11	ND (7.2)
BH-19	8/10/2005	4	ND (3.4)	ND (3.4)	ND (3.4)	6.4	ND (6.7)
		7	ND (3.2)	ND (3.2)	ND (3.2)	4.8	ND (6.3)
BH-20	8/10/2005	4	ND (3.3)	ND (3.3)	ND (3.3)	10	ND (6.6)
		7	ND (2.9)	ND (2.9)	ND (2.9)	13	ND (5.9)
BH-21	8/10/2005	4	ND (3.6)	ND (3.6)	ND (3.6)	ND (3.6)	ND (7.2)
BH-22	8/10/2005	4	ND (3.1)	ND (3.1)	ND (3.1)	ND (3.1)	ND (6.3)
BH-23	8/12/2005	1	ND (2.5)	ND (2.5)	ND (2.5)	8	ND (5.1)
Type 1 RRS			500	700	500	500	200

Note:

DCA = 1,1-dichloroethane

DCE = 1,1-dichloroethene (total)

TCE = trichloroethene

PCE = tetrachloroethene

VC = vinyl chloride

ND = Not Detected @ (Reported Detection Limit)

Type 1 RRS (Rule 391-3-19) = 100 x Appendix III Table 1 Groundwater Criteria

TABLE 2
SUMMARY OF DPT GROUNDWATER SAMPLE ANALYTICAL RESULTS
FARMER'S FEED AND MILLING, COLQUIT, GEORGIA

Sample Location	Sample Date	Sample Depth (ft)	DCA (ug/L) CAS#75343	DCE (ug/L) CAS#75354	TCE (ug/L) CAS#79016	PCE (ug/L) CAS#127184	VC (ug/L) CAS#75014	Toluene (ug/L)
BH-1	7/16/2001	26	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
BH-2	7/16/2001	24	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
BH-3	7/16/2001	23	ND (5)	ND (5)	ND (5)	108	ND (5)	NA
BH-5	7/17/2001	32	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
BH-6	7/17/2001	22	ND (5)	ND (5)	ND (5)	23	ND (5)	NA
BH-7	7/17/2001	14	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
BH-8	7/17/2001	27	ND (5)	ND (5)	ND (5)	118	ND (5)	NA
BH-9	7/18/2001	18	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
BH-10	7/18/2001	52	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
BH-11	4/24/2003	46	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
BH-12	4/24/2003	16	ND (1)	ND (1)	ND (1)	8.8	ND (1)	ND (1)
BH-13	4/24/2003	46	ND (1)	ND (1)	ND (1)	1.2	ND (1)	ND (1)
BH-14	4/24/2003	43	ND (1)	ND (1)	ND (1)	1.8	ND (1)	ND (1)
BH-16	4/24/2003	40	ND (1)	ND (1)	ND (1)	4.2	ND (1)	ND (1)
BH-17	4/25/2003	40	ND (1)	ND (1)	ND (1)	48.7	ND (1)	ND (1)
BH-18	8/10/2005	17	ND (5)	ND (5)	ND (5)	18	ND (5)	ND (5)
BH-19	8/10/2005	20	ND (5)	ND (5)	ND (5)	70	ND (5)	ND (5)
BH-20	8/10/2005	12.5	ND (5)	ND (5)	ND (5)	24	ND (5)	5.1
BH-21	8/10/2005	7.5	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
BH-22	8/11/2005	11	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
BH-23	8/12/2005	10	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Type 1/3 RRS			4,000	7	5	5	2	1,000

Note:

DCA = 1,1-dichloroethane

DCE = 1,1-dichloroethene (total)

TCE = trichloroethene

PCE = tetrachloroethene

VC = vinyl chloride

ND = Not Detected @ (Reported Detection Limit)

Type 1/3 RRS = Groundwater Criteria (Appendix III Table 1)

TABLE 3
MONITORING WELL WATER LEVEL DATA
FARMER'S FEED AND MILLING, COLQUIT, GEORGIA

Well No.	Depth to Screen (ft bgs)	Screened Interval (elev in ft)	TOC Elevation (ft)	Date Measured	Depth to Water (ft bTOC)	Water Elevation (ft)
MW-4	7 - 17	86 - 76	92.70	8/2/2001	8.28	84.42
				8/19/2005	1.60	91.10
				9/9/2005	4.30	88.40
MW-5	40 - 45	56 - 51	95.57	8/2/2001	24.10	71.47
				7/9/2002	25.25	70.32
				10/29/2002	20.35	75.22
				2/11/2003	18.43	77.14
				9/30/2003	18.42	77.15
				11/7/2003	21.59	73.98
				6/23/2004	19.41	76.16
				10/20/2004	21.14	74.43
				6/15/2005	15.60	79.97
				8/19/2005	13.69	81.68
				9/9/2005	16.12	79.45
				9/9/2005	16.12	79.45
MW-6	50 - 55	45 - 40	94.26	8/2/2001	23.19	71.07
				7/9/2002	23.67	70.39
				10/29/2002	18.98	75.28
				2/11/2003	16.67	77.39
				9/30/2003	18.17	76.09
				11/7/2003	20.07	74.19
				6/23/2004	17.99	76.27
				10/20/2004	20.63	73.63
				6/15/2005	13.94	80.32
				8/19/2005	5.38	88.88
				9/9/2005	15.68	78.58
				9/9/2005	15.68	78.58
MW-7d	73 - 78	21 - 16	93.75	8/2/2001	22.16	71.59
				7/9/2002	23.36	70.39
				10/29/2002	18.43	75.32
				2/11/2003	16.42	77.33
				9/30/2003	17.46	76.29
				11/7/2003	19.42	74.33
				6/23/2004	17.52	76.23
				10/20/2004	20.11	73.64
				6/15/2005	13.31	80.44
				8/19/2005	12.83	80.92
				9/9/2005	14.11	79.64
				9/9/2005	14.11	79.64
MW-8	43 - 48	51 - 46	93.57	8/2/2001	21.25	71.82
				7/9/2002	23.27	70.30
				10/29/2002	18.33	75.24
				11/7/2003	19.30	74.27
				4/14/2004	17.92	75.65
				10/20/2004	-	NM
				6/15/2005	13.15	80.42
				8/19/2005	11.79	81.78
				9/9/2005	14.08	79.49
				9/9/2005	14.08	79.49
MW-9	17 - 27	76 - 66	92.85	8/2/2001	9.33	82.76
				7/9/2002	10.09	82.76
				10/29/2002	9.49	83.36
				11/7/2003	9.45	83.40
				4/14/2004	13.77	79.08
				10/20/2004	-	NM
				6/15/2005	7.68	85.17
				8/19/2005	3.59	89.26
				9/9/2005	5.50	87.35
				9/9/2005	5.50	87.35
MW-10	19 - 29	74 - 64	93.41	10/29/2002	11.14	82.27
				2/11/2003	10.29	83.12
				9/30/2003	11.19	82.22
				11/7/2003	12.46	80.95
				6/23/2004	11.94	81.47
				10/20/2004	13.06	80.35
				6/15/2005	6.17	87.24
				8/19/2005	4.37	89.04
				9/9/2005	7.38	86.03
				9/9/2005	7.38	86.03
MW-11	20 - 30	74 - 64	94.44	9/30/2003	11.19	83.25
				11/7/2003	12.08	82.36
				6/23/2004	12.57	81.87
				10/20/2004	15.36	79.08
				6/15/2005	9.24	85.20
				8/19/2005	5.22	89.22
				9/9/2005	6.63	87.81
MW-12	20 - 30	75 - 65	95.46	6/23/2004	19.11	76.35
				10/20/2004	21.93	73.53
				6/15/2005	15.16	80.30
				8/19/2005	13.38	82.08
				9/9/2005	15.16	80.30
MW-13	8 - 18	86 - 76	93.76	8/19/2005	5.70	88.06
MW-14	8 - 13	86 - 81	96.72	9/9/2005	7.59	86.17
MW-15	10 - 20	83 - 73	93.30	8/19/2005	6.40	90.32
MW-16	10 - 20	86 - 76	96.34	9/9/2005	8.50	88.22
MW-17	65 - 75	28 - 18	93.40	8/19/2005	5.68	87.62
				9/9/2005	7.45	85.85
				8/19/2005	6.32	90.02
				9/9/2005	9.46	86.88
				8/19/2005	13.01	80.39
				9/9/2005	17.78	75.62

TOC (Top of Casing) elevations referenced to arbitrary project
benchmark of 100.00 ft
bgs = below ground surface
bTOC = below TOC
NM = not measured

TABLE 4
WELL PURGING DATA SUMMARY
FARMER'S FEED AND MILLING, COLQUIT, GEORGIA

<i>Well Number</i>	<i>Total Depth (ft.)</i>	<i>Purge Date</i>	<i>Total Gallons Purged ⁽¹⁾</i>	<i>pH</i>	<i>Turbidity (ntu) ⁽²⁾</i>	<i>Conductivity (μS) ⁽³⁾</i>	<i>Temperature (°C) ⁽⁴⁾</i>	<i>Dissolved Oxygen (mg/L)</i>	<i>ORP (mV)</i>
MW-4	17	8/19/2005	1.4	-	3	491	29.4	4.0	469
MW-5	45	6/15/2005	2.1	5.08	2	521	23.3	2.8	561
MW-6	55	6/15/2005	2.6	6.56	79	1,710	26.7	2.4	268
MW-7D	78	6/15/2005	2.1	7.34	39	323	25.3	1.2	554
MW-10*	29	6/15/2005	1.0	-	-	-	-	-	-
MW-11	30	6/15/2005	1.0	6.15	208	2,200	27.6	-	-
MW-12	30	6/15/2005	1.0	6.77	999	2,490	30.6	-	-
MW-13	18	8/19/2005	2.1	5.72	22	7,830	28.9	0.8	121
MW-14	13	8/19/2005	1.4	-	17	842	26.1	5.0	371
MW-15	20	8/19/2005	1.2	5.33	35	657	29.1	0.6	204
MW-16	20	8/19/2005	2.6	4.83	1	261	24.7	3.7	268
MW-17D	75	8/19/2005	2.0	7.46	6	350	26.9	3.1	131

Notes:

⁽¹⁾ Purged using low-flow method @ 150 - 300 mL/min

⁽²⁾ Nephelometric Turbidity Units

⁽³⁾ microSeimens

⁽⁴⁾ Degrees Celsius

MW-10* - parameters not measured at time of sampling due to presence of permanganate

TABLE 5
SUMMARY OF MONITORING WELL SAMPLE ANALYTICAL RESULTS
FARMER'S FEED AND MILLING, COLQUITT, GEORGIA

Sample Location	Sample Date	DCA (ug/L) CAS#75343	DCE (ug/L) CAS#75354	TCE (ug/L) CAS#79016	PCE (ug/L) CAS#127184	VC (ug/L) CAS#75014	Toluene (ug/L)
MW-4	8/2/2001	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
	8/19/2005	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	14
MW-5	8/2/2001	ND (5)	ND (5)	ND (5)	8.8	ND (5)	NA
	7/9/2002	ND (5)	ND (5)	ND (5)	8	ND (5)	NA
	10/29/2002	ND (5)	ND (5)	ND (5)	9.1	ND (5)	NA
	2/11/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
	9/30/2003	ND (5)	ND (5)	ND (5)	8	ND (5)	NA
	11/7/2003	ND (5)	ND (5)	ND (5)	5.5	ND (5)	NA
	4/14/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
	6/23/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
	10/20/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
	6/15/2005	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
	8/2/2001	ND (5)	ND (5)	ND (5)	23	ND (5)	NA
MW-6	7/9/2002	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
	10/29/2002	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
	2/11/2003	ND (5)	ND (5)	ND (5)	8.9	ND (5)	NA
	9/30/2003	ND (5)	ND (5)	ND (5)	20	ND (5)	NA
	11/7/2003	ND (5)	ND (5)	ND (5)	29	ND (5)	NA
	4/14/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
	6/23/2004	ND (5)	ND (5)	ND (5)	20	ND (5)	NA
	10/20/2004	ND (5)	ND (5)	ND (5)	25	ND (5)	NA
	6/15/2005	ND (5)	ND (5)	ND (5)	53	ND (5)	NA
	8/2/2001	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
	7/9/2002	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
MW-7D	10/29/2002	ND (5)	ND (5)	ND (5)	6.1	ND (5)	NA
	2/11/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
	9/30/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
	11/7/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
	4/14/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
	6/23/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
	10/20/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
	6/15/2005	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
	8/2/2001	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
	11/7/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
	9/4/2002	ND (5)	ND (5)	ND (5)	130	ND (5)	NA
MW-10	10/29/2002	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
	2/11/2003	ND (5)	ND (5)	ND (5)	120	ND (5)	NA
	9/30/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
	11/7/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
	4/14/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
	6/23/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
	10/20/2004	ND (5)	ND (5)	ND (5)	8.6	ND (5)	NA
	6/15/2005	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
	9/30/2003	ND (5)	ND (5)	ND (5)	430	ND (5)	NA
	11/7/2003	ND (5)	ND (5)	ND (5)	180	ND (5)	NA
	4/14/2004	ND (5)	ND (5)	ND (5)	460	ND (5)	NA
MW-11	6/23/2004	ND (5)	ND (5)	ND (5)	41	ND (5)	NA
	10/20/2004	ND (5)	ND (5)	ND (5)	57	ND (5)	NA
	6/15/2005	ND (5)	ND (5)	ND (5)	180	ND (5)	NA
	6/23/2004	ND (5)	ND (5)	ND (5)	19	ND (5)	NA
	10/20/2004	ND (5)	ND (5)	ND (5)	17	ND (5)	NA
	6/15/2005	ND (5)	ND (5)	ND (5)	13	ND (5)	NA
	8/19/2005	ND (5)	ND (5)	ND (5)	11	ND (5)	ND (5)
	8/19/2005	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	8/19/2005	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	8/19/2005	ND (5)	ND (5)	ND (5)	6.3	ND (5)	6.3
	8/19/2005	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	5.2
Type 1/3 RRS		4,000	7	5	5	2	1,000

Note:

DCA = 1,1-dichloroethane

DCE = 1,1-dichloroethene (total)

TCE = trichloroethene

PCE = tetrachloroethene

VC = vinyl chloride

ND = Not Detected @ (Reported Detection Limit)

Type 1/3 RRS = Groundwater Criteria (Appendix III Table 1)

APPENDIX A

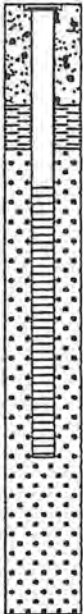
BORING LOGS AND WELL COMPLETION DETAILS



Geosciences Inc.

SUBSURFACE DRILL LOG

PROJECT NAME	FFM Main Facility	PROJECT NUMBER	ALE-00-335A	PAGE 1 OF 1
FIELD ENG/GEO	Alison Long	GROUND ELEVATION (ft)		BORING NO: MW-4
RIG TYPE	CME-55	DRILLING METHOD	HSA	DATE: 8/28/00

DEPTH	SOIL/MATERIAL DESCRIPTION	ELEVATION (feet)	LITHOLOGY	SPT BLOWS	SAMPLES	WATER LEVEL	COMMENTS
0	Topsoil and grass						
	White to 10YR 6/8 brownish-yellow, fine-grained sand and silt			27			
8	5Y 7/1 light gray, dry, fine-grained, consolidated sand and silt			67			
	2.5Y 4/1 dark gray sand and silt in top 5"			50/4			
16	White, weathered limestone in bottom 3"						
	Same strata as above			15			
24	Same as above strata in top 4"			17			
	10YR 5/8 yellowish-brown and light gray mottled clay						
	Boring Terminated at 25 feet.						
	GW Enc. at 9.58 feet 24 hours after drilling						
32							
40							
48							
56							



Geosciences Inc.

SUBSURFACE DRILL LOG

PROJECT NAME FFM Main Facility
 FIELD ENG/GEO Alison Long
 RIG TYPE CME-55

PROJECT NUMBER ALE-00-335A
 GROUND ELEVATION (ft)
 DRILLING METHOD HSA

PAGE 1 OF 1
 BORING NO: MW-5
 DATE: 8/29/00

DEPTH	SOIL/MATERIAL DESCRIPTION	ELEVATION (feet)	LITHOLOGY	SPT BLOWS	SAMPLES	WATER LEVEL	COMMENTS
0	Topsoil and grass						Flush mount 8" diameter manhole cover and vault
	10R 6/8 brownish-yellow, light gray, and 2.5YR 4/4 reddish-brown, mottled, very stiff, sandy clay			23	✓		Borehole annular space grouted with portland cement/3-5% bentonite powder slurry
8	Same strata as above except contains more light gray, very stiff			30	✓		
	Dry, same strata as above; 5Y 8/1 white mottles dominant			29	✓		40' of 2" diameter PVC riser
16	Same as above mottled, tricolor clay			27	✓		
	Same as above strata, moist			27	✓		
24	Same strata as above, predominantly reddish-brown and brownish-yellow mottles with little white			21	✓		
32	10YR 5/8 yellowish-brown clay; bottom 2" contains dark yellowish-brown 10YR 4/4 clasts			29	✓		3/8" bentonite pellets at 34.7' bls
	Same clast-containing clay as above; moist			15	✓		10/30 sand at 37.5' bls
40	Same strata as above in top 4"; saturated			40	✓		5' of 2" diameter 0.01" machine-slotted PVC screen (to 40' bls)
	Friable, white limestone and clay in bottom 14"						Well set at 45' bls
48	Boring Terminated at 45 feet.						
	GW Enc. at 29.80 feet 24 hours after drilling						
56							

SUBSURFACE DRILL LOG

PROJECT NAME	FFM Main Facility	PROJECT NUMBER	ALE-00-335A
FIELD ENG/GEO	Alison Long	GROUND ELEVATION (ft)	
RIG TYPE	CME-55	DRILLING METHOD	HSA

PAGE 1 OF 1
 BORING NO: MW-6
 DATE: 8/29/00


DEPTH	SOIL/MATERIAL DESCRIPTION	ELEVATION (feet)	LITHOLOGY	SPT BLOWS	SAMPLES	WATER LEVEL	COMMENTS
0	Asphalt						Flush mount 8" diameter manhole cover and vault Borehole annular space grouted with portland cement/3-5% bentonite powder slurry 50' of 2" diameter PVC riser
	Very stiff, 7.5YR 5/8 strong brown sandy clay			9			
	Same as above clay except lighter in color 10YR 7/4 very pale brown			14			
8	Dry, light gray and 10YR 6/8 brownish-yellow mottled, sandy clay			14			
	Very stiff, same as above sandy clay, predominantly light gray			18			
16	Moist, same strata as above			15			
	Top same as above strata; bottom 7" has more sand and water content and is 7.5YR 7/8 reddish-yellow in color			15			
	Moist, 10YR 5/6 to 5/8 yellowish-brown sandy clay			13			
32	Moist, same as above in top 6"			9			
	Bottom 12" Very Stiff, 10YR 8/6 yellow, light gray, and 10R 6/3 pale red, mottled, fine-grained clay						
40	Same strata as above			10			3/8" bentonite pellets at 45.1' bls 10/30 sand at 47.3' bls 5' of 2" diameter 0.01" machine-slotted PVC screen (at 50' bls) Well set at 55' bls
	Same strata as above becoming darker and more uniform in color. 10YR 5/6 yellowish-brown in bottom 7" of spoon.			4			
48	Same strata as above in top 10"; sandy clay containing clasts in bottom 3"			WOR			
	Same clay containing clasts n top 4" of sample			19			
56	Friable, white limestone in bottom 5" of sample						
	Boring Terminated at 55 feet.						
	GW Enc. at 28.46 feet 24 hours after drilling						

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(AL-01)
Page 1 of 1

PROJECT NAME: BIRDSONG PEANUT PLANT
PROJECT NUMBER: 18283-01
CLIENT: FFM
LOCATION: COLQUITT, GEORGIA

HOLE DESIGNATION: BH-1
DATE COMPLETED: JULY 16, 2001
DRILLING METHOD: DPT
CRA SUPERVISOR: DAVID BRYTOWSKI

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft. AMSL	MONITOR INSTALLATION	SAMPLE			
				NUMBER	STATE	'N' VALUE	PID (ppm)
	REFERENCE POINT (Top of Riser) GROUND SURFACE	0.00 0.00					
-2.5	SM-SAND and SILT (NATIVE), black, moist, organic		 <div style="position: absolute; left: 685px; top: 255px;">2"Ø BOREHOLE</div> <div style="position: absolute; left: 685px; top: 295px;">BENTONITE CHIPS</div>	1DP	X	--	5.0
-5.0	SM-SILT and SAND, tan, moist	-5.5		2DP	X	--	3.8
-7.5	- sand grades into clay				X		
-10.0	CL-CLAY, stiff, tan, moist	-10.0		3DP	X	--	2.0
-12.5	- orange brown clay				X		
-15.0				4DP	X	--	2.4
-17.5					X		
-20.0				5DP	X	--	2.6
-22.5					X		
-25.0	- saturated seam			6DP	X	--	2.5
-27.5				7DP	X	--	--
-30.0	END OF HOLE @ 30.0ft BGS	-30.0					
-32.5							


NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▼ STATIC WATER LEVEL ▼
CHEMICAL ANALYSIS ○

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(AL-02)
Page 1 of 1

PROJECT NAME: BIRDSONG PEANUT PLANT
PROJECT NUMBER: 18283-01
CLIENT: FFM
LOCATION: COLQUITT, GEORGIA

HOLE DESIGNATION: BH-2
DATE COMPLETED: JULY 16, 2001
DRILLING METHOD: DPT
CRA SUPERVISOR: DAVID BRYTOWSKI

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft. AMSL	MONITOR INSTALLATION	SAMPLE			
				NUMBER	STATE	"N" VALUE	PID (ppm)
	REFERENCE POINT (Top of Riser) GROUND SURFACE	0.00 0.00					
	CL-CLAY and SAND (NATIVE), moist		 <div>2"Ø BOREHOLE</div> <div>BENTONITE CHIPS</div>	1DP	X	--	1.3
-2.5		-3.0		2DP	X	--	1.2
-5.0				3DP	X	--	--
-7.5				4DP	X	--	1.8
-10.0		-12.0		5DP	X	--	1.8
-12.5	CL-CLAY, some sand, very stiff, white/red, moist			6DP	X	--	2.0
-15.0	- moisture increasing			7DP	X	--	--
-17.5	- some loose sand lenses	-21.0		8DP	X	--	--
-20.0							
-22.5	SM/CL-SAND and CLAY, saturated, alternated layering						
-25.0	- saturated zone of (SM)	-26.0					
-27.5	END OF HOLE @ 26.0ft BGS						
-30.0							
-32.5							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▼ STATIC WATER LEVEL ▼
CHEMICAL ANALYSIS ○

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(AL-03)
Page 1 of 1

PROJECT NAME: BIRDSONG PEANUT PLANT
PROJECT NUMBER: 18283-01
CLIENT: FFM
LOCATION: COLQUITT, GEORGIA

HOLE DESIGNATION: BH-3
DATE COMPLETED: JULY 16, 2001
DRILLING METHOD: DPT
CRA SUPERVISOR: DAVID BRYTOWSKI

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft. AMSL	MONITOR INSTALLATION	SAMPLE			
				NUMBER	STATE	"N" VALUE	PID (ppm)
	REFERENCE POINT (Top of Riser) GROUND SURFACE	0.00 0.00					
	CL-CLAY (ALLUVIUM)						
	CL-CLAY (NATIVE), silt and sand, medium soft, moist	-1.0					
-2.5				1DP	X	--	2.1
	CL-CLAY and SAND, stiff, brown and red mottled, moist	-3.0					
		-4.0					
-5.0	CL-CLAY and SAND, very stiff, gray and red mottled, moist			2DP	X	--	2.5
-7.5							
-10.0				3DP	X	--	1.6
-12.5				4DP	X	--	2.2
-15.0	- 1" lense of loose sand			5DP	X	--	2.7
-17.5				6DP	X	--	2.7
-20.0	- saturated						
-22.5				7DP	X	--	--
-25.0				8DP	X	--	--
	WEATHERED ROCK	-25.5 -26.0					
	END OF HOLE @ 26.0ft BGS						
-27.5							
-30.0							
-32.5							


NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▼ STATIC WATER LEVEL ▼
CHEMICAL ANALYSIS ○

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(AL-04)
Page 1 of 1

PROJECT NAME: BIRDSONG PEANUT PLANT
PROJECT NUMBER: 18283-01
CLIENT: FFM
LOCATION: COLQUITT, GEORGIA

HOLE DESIGNATION: BH-4
DATE COMPLETED: JULY 17, 2001
DRILLING METHOD: DPT
CRA SUPERVISOR: DAVID BRYTOWSKI

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft. AMSL	MONITOR INSTALLATION	SAMPLE			
				NUMBER	STATE	'N' VALUE	PID (ppm)
	REFERENCE POINT (Top of Riser) GROUND SURFACE	0.00 0.00					
	CL-CLAY/SAND/SILT (FILL)						
-2.5	CL-CLAY and SAND (NATIVE), very stiff, gray and red, moist	-1.2	 <p>2"Ø BOREHOLE BENTONITE CHIPS</p>	IDP	X	--	1.2
-5.0				2DP	X	--	1.4
-7.5	CL-CLAY and SAND, soft, tan, moist	-6.7		3DP	X	--	5.2
-10.0	CL-CLAY, soft, saturated	-9.2					
	WEATHERED ROCK	-10.0					
	END OF HOLE @ 11.0ft BGS	-11.0					
-12.5							
-15.0							
-17.5							
-20.0							
-22.5							
-25.0							
-27.5							
-30.0							
-32.5							


NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▼ STATIC WATER LEVEL ▼
CHEMICAL ANALYSIS ○

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(AL-05)
Page 1 of 1

PROJECT NAME: BIRDSONG PEANUT PLANT
PROJECT NUMBER: 18283-01
CLIENT: FFM
LOCATION: COLQUITT, GEORGIA

HOLE DESIGNATION: BH-5
DATE COMPLETED: JULY 17, 2001
DRILLING METHOD: DPT
CRA SUPERVISOR: DAVID BRYTOWSKI

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft. AMSL	MONITOR INSTALLATION	SAMPLE			
				NUMBER	STATE	"N" VALUE	PID (ppm)
	REFERENCE POINT (Top of Riser) GROUND SURFACE	0.00 0.00					
-2.5	CL-CLAY and SAND (FILL), soft, tan, moist, strong ammonia odor	-5.0	 <div style="position: absolute; left: 685px; top: 255px;">2"Ø BOREHOLE</div> <div style="position: absolute; left: 685px; top: 295px;">BENTONITE CHIPS</div>	1DP	X	--	71.2
-5.0	CL-CLAY and SAND (NATIVE), very stiff, gray brown mottled, low to moderate moisture			2DP	X	--	17.1
-7.5				3DP	X	--	11.9
-10.0				4DP	X	--	8.6
-12.5	- moisture increasing			5DP	X	--	4.9
-15.0	- very moist to saturated			6DP	X	--	3.1
-17.5				7DP	X	--	1.8
-20.0				8DP	X	--	1.1
-22.5		-26.0					
-25.0	END OF HOLE @ 26.0ft BGS						
-27.5							
-30.0							
-32.5							


NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ▼ STATIC WATER LEVEL ▼
 CHEMICAL ANALYSIS ○

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(AL-06)
Page 1 of 1

PROJECT NAME: BIRDSONG PEANUT PLANT
PROJECT NUMBER: 18283-01
CLIENT: FFM
LOCATION: COLQUITT, GEORGIA

HOLE DESIGNATION: BH-6
DATE COMPLETED: JULY 17, 2001
DRILLING METHOD: DPT
CRA SUPERVISOR: DAVID BRYTOWSKI

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft. AMSL	MONITOR INSTALLATION	SAMPLE			
				NUMBER	STATE	"N" VALUE	PID (ppm)
	REFERENCE POINT (Top of Riser) GROUND SURFACE	0.00 0.00					
	SM-SAND and SILT (FILL), loose, dark gray, moist		 <p>2"Ø BOREHOLE BENTONITE CHIPS</p>	10P	X	--	1.2
-2.5	CL-CLAY and SAND (NATIVE), stiff, gray and brown, moist	-1.8		20P	X	--	0.3
-5.0				30P	X	--	--
-7.5	- sand decreasing			40P	X	--	0.0
-10.0	CL-CLAY, very stiff, little to no sand, red brown gray mottled, moist			50P	X	--	0.0
-12.5				60P	X	--	0.0
-15.0	- very moist			70P	X	--	--
-17.5		-18.0		80P	X	--	--
-20.0	CL-CLAY, with saturated sand zones throughout						
-22.5							
-25.0	AUGER REFUSAL, END OF HOLE @ 24.0ft BGS	-24.0					
-27.5							
-30.0							
-32.5							

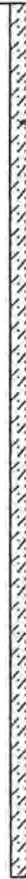
NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▼ STATIC WATER LEVEL ▼
CHEMICAL ANALYSIS ○

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(AL-07)
Page 1 of 1

PROJECT NAME: BIRDSONG PEANUT PLANT
PROJECT NUMBER: 18283-01
CLIENT: FFM
LOCATION: COLQUITT, GEORGIA

HOLE DESIGNATION: BH-7
DATE COMPLETED: JULY 17, 2001
DRILLING METHOD: DPT
CRA SUPERVISOR: DAVID BRYTOWSKI

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft. AMSL	MONITOR INSTALLATION	SAMPLE			
				NUMBER	STATE	'N' VALUE	P10 (ppm)
	REFERENCE POINT (Top of Riser) GROUND SURFACE	0.00 0.00					
	CL-CLAY/SILT/SAND (FILL)						
-2.5	CL-CLAY and SAND (NATIVE), stiff, gray and brown, moist	-1.0	 <div style="position: absolute; left: 680px; top: 250px;">2"Ø BOREHOLE</div> <div style="position: absolute; left: 680px; top: 285px;">BENTONITE CHIPS</div>	IDP	X	--	0.0
-5.0				2DP	X	--	0.0
-7.5				3DP	X	--	0.0
-10.0				4DP	X	--	0.0
-12.5	- 4" zone loose sand and clay, very moist -L-16 CL-CLAY and SAND, soft, saturated, alternating layers			5DP	X	--	--
-15.0		-16.0		6DP	X	--	--
-17.5							
-20.0							
-22.5	END OF HOLE @ 22.0ft BGS	-22.0					
-25.0							
-27.5							
-30.0							
-32.5							


NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▼ STATIC WATER LEVEL ▼
CHEMICAL ANALYSIS ○

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(AL-08)
Page 1 of 1

PROJECT NAME: BIRDSONG PEANUT PLANT
PROJECT NUMBER: 18283-01
CLIENT: FFM
LOCATION: COLQUITT, GEORGIA

HOLE DESIGNATION: BH-8
DATE COMPLETED: JULY 17, 2001
DRILLING METHOD: DPT
CRA SUPERVISOR: DAVID BRYTOWSKI

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft. AMSL	MONITOR INSTALLATION	SAMPLE			
				NUMBER	STATE	'N' VALUE	PID (ppm)
	REFERENCE POINT (Top of Riser) GROUND SURFACE	0.00 0.00					
-2.5	CL-CLAY and SAND (FILL), moderately stiff, brown, moist		 <div style="position: absolute; left: 680px; top: 250px;">2"Ø BOREHOLE</div> <div style="position: absolute; left: 680px; top: 290px;">BENTONITE CHIPS</div>	1DP	X	--	--
-5.0				2DP	X	--	--
-7.5	CL-CLAY/SAND/SILT (NATIVE), brown, low moisture	-7.0		3DP	X	--	0.0
-10.0	CL-CLAY, trace sand, stiff, gray brown mottled, moist	-10.0		4DP	X	--	0.0
-12.5				5DP	X	--	0.0
-15.0				6DP	X	--	--
-17.5				7DP	X	--	0.0
-20.0				8DP	X	--	0.0
-22.5				9DP	X	--	0.0
-25.0				10DP	X	--	--
-27.5			- trace gravel - saturated				
-30.0	END OF HOLE @ 30.0ft BGS	-30.0					
-32.5							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ▼ STATIC WATER LEVEL ▼
 CHEMICAL ANALYSIS ○

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(AL-09)
Page 1 of 1

PROJECT NAME: BIRDSONG PEANUT PLANT
PROJECT NUMBER: 18283-01
CLIENT: FFM
LOCATION: COLQUITT, GEORGIA

HOLE DESIGNATION: BH-9
DATE COMPLETED: JULY 18, 2001
DRILLING METHOD: DPT
CRA SUPERVISOR: DAVID BRYTOWSKI

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft. AMSL	MONITOR INSTALLATION	SAMPLE			
				NUMBER	STATE	"N" VALUE	PID (ppm)
	REFERENCE POINT (Top of Riser) GROUND SURFACE	0.00 0.00					
	SM-SAND and SILT (FILL), trace clay, tan, moist						
-2.5	CL-CLAY (NATIVE), some sand and silt, stiff, tan, moist - gray and red mottled	-1.5	2"Ø BOREHOLE BENTONITE CHIPS	1DP	X	--	0.0
-5.0				2DP	X	--	0.0
-7.5				3DP	X	--	0.0
-10.0	- moisture increasing			4DP	X	--	--
-12.5				5DP	X	--	--
-15.0				6DP	X	--	--
-17.5				7DP	X	--	--
-20.0	END OF HOLE @ 19.5ft BGS	-19.5					
-22.5							
-25.0							
-27.5							
-30.0							
-32.5							


NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▼ STATIC WATER LEVEL ▼
CHEMICAL ANALYSIS ○

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(AL-10)
Page 1 of 2

PROJECT NAME: BIRDSONG PEANUT PLANT
PROJECT NUMBER: 18283-01
CLIENT: FFM
LOCATION: COLQUITT, GEORGIA

HOLE DESIGNATION: BH-10
DATE COMPLETED: JULY 18, 2001
DRILLING METHOD: DPT
CRA SUPERVISOR: DAVID BRYTOWSKI

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft. AMSL	MONITOR INSTALLATION	SAMPLE			
				NUMBER	STATE	"N" VALUE	PID (ppm)
	REFERENCE POINT (Top of Riser) GROUND SURFACE	0.00 0.00					
-2.5	CL-CLAY and SAND (ALLUVIUM), soft, brown, moist		 <div style="position: absolute; top: 255px; left: 685px;">2"Ø BOREHOLE</div> <div style="position: absolute; top: 295px; left: 685px;">BENTONITE CHIPS</div>	1DP	X	--	0.0
-5.0	- stiff			2DP	X	--	0.0
-7.5	CL-CLAY (NATIVE), some sand, very stiff, brown, low moisture	-7.0		3DP	X	--	0.0
-10.0	CL-CLAY, trace sand, gray brown mottled, moist	-10.0		4DP	X	--	0.0
-12.5				5DP	X	--	0.0
-15.0				6DP	X	--	0.0
-17.5				7DP	X	--	0.0
-20.0				8DP	X	--	0.0
-22.5	CL-CLAY and SAND - very moist	-22.0		9DP	X	--	--
-25.0				10DP	X	--	--
-27.5	-saturated			11DP	X	--	--
-30.0							
-32.5							


NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▼ STATIC WATER LEVEL ▼
CHEMICAL ANALYSIS ○

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(AL-10)
Page 2 of 2

PROJECT NAME: BIRDSONG PEANUT PLANT
PROJECT NUMBER: 18283-01
CLIENT: FFM
LOCATION: COLQUITT, GEORGIA

HOLE DESIGNATION: BH-10
DATE COMPLETED: JULY 18, 2001
DRILLING METHOD: DPT
CRA SUPERVISOR: DAVID BRYTOWSKI

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft. AMSL	MONITOR INSTALLATION	SAMPLE			
				NUMBER	STATE	"N" VALUE	PID (ppm)
				12DP	X	--	--
				13DP	X	--	--
				14DP	X	--	--
				15DP	X	--	--
				16DP	X	--	--
				17DP	X	--	--
				18DP	X	--	--
-37.5	END LOG 37ft	-37.0	 <p>2"Ø BOREHOLE</p> <p>BENTONITE CHIPS</p>				
-40.0							
-42.5							
-45.0							
-47.5							
-50.0							
-52.5	END OF HOLE @ 52.0ft BGS	-52.0					
-55.0							
-57.5							
-60.0							
-62.5							
-65.0							
-67.5							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ▼ STATIC WATER LEVEL ▼
 CHEMICAL ANALYSIS ○

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: BIRDSONG PEANUT PLANT

HOLE DESIGNATION: BH-11

PROJECT NUMBER: 18283-01

DATE COMPLETED: April 24, 2003

CLIENT: FARMERS FEED AND MILLING

DRILLING METHOD: DIRECT PUSH TECHNOLOGY

LOCATION: ATLANTA, GEORGIA

FIELD PERSONNEL: T. LAWRENCE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	
0								
2	CH-CLAY, orange			1				
4	CH-CLAY, red-orange, very dry	3.00						
6				2				
8	NO SAMPLES COLLECTED	8.00						
10								
12								
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								
36								
38								
40								
42								
44								
46								
48	END OF BOREHOLE @ 47.0ft BGS	47.00						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE




STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: BIRDSONG PEANUT PLANT
PROJECT NUMBER: 18283-01
CLIENT: FARMERS FEED AND MILLING
LOCATION: ATLANTA, GEORGIA

HOLE DESIGNATION: BH-12
DATE COMPLETED: April 24, 2003
DRILLING METHOD: DIRECT PUSH TECHNOLOGY
FIELD PERSONNEL: T. LAWRENCE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE			
				NUMBER	INTERVAL	REC (%)	'N' VALUE
2	CH-CLAY, orange and red mottled			3			
4	CH-CLAY, orange and red mottled with white clay lenses	4.00		4			
6							
8	NO SAMPLES COLLECTED	8.00					
10							
12							
14							
16							
18							
20							
22							
24							
26							
28							
30							
32							
34							
36	END OF BOREHOLE @ 36.0ft BGS	36.00					
38							
40							
42							
44							
46							
48							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG 18283-01.GPJ CRA CORP.GDT 11/19/03



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: BIRDSONG PEANUT PLANT

HOLE DESIGNATION: BH-13

PROJECT NUMBER: 18283-01

DATE COMPLETED: April 24, 2003

CLIENT: FARMERS FEED AND MILLING

DRILLING METHOD: DIRECT PUSH TECHNOLOGY

LOCATION: ATLANTA, GEORGIA

FIELD PERSONNEL: T. LAWRENCE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE			
				NUMBER	INTERVAL	REC (%)	'N' VALUE
2	CH-CLAY, orange and red mottled with white sandy clay pockets			5			
4							
6				6			
8		8.00					
10	NO SAMPLES COLLECTED						
12							
14							
16							
18							
20							
22							
24							
26							
28							
30							
32	END OF BOREHOLE @ 32.0ft BGS	32.00					
34							
36							
38							
40							
42							
44							
46							
48							

OVERBURDEN LOG 18283-01.GPJ CRA CORP.GDT 11/18/03

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: BIRDSONG PEANUT PLANT
PROJECT NUMBER: 18283-01
CLIENT: FARMERS FEED AND MILLING
LOCATION: ATLANTA, GEORGIA

HOLE DESIGNATION: BH-15
DATE COMPLETED: April 24, 2003
DRILLING METHOD: DIRECT PUSH TECHNOLOGY
FIELD PERSONNEL: T. LAWRENCE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE			
				NUMBER	INTERVAL	REC (%)	'N' VALUE
2	CL-SANDY CLAY, brown, very hard			9			
4	dry, no water	4.00					
6							
8							
10							
12							
14							
16							
18							
20							
22							
24							
26							
28							
30							
32							
34							
36							
38							
40	END OF BOREHOLE @ 40.0ft BGS	40.00					
42							
44							
46							
48							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG 18283-01.GPJ CRA CORP GDT 11/19/03

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: BIRDSONG PEANUT PLANT

HOLE DESIGNATION: BH-17

PROJECT NUMBER: 18283-01


DATE COMPLETED: April 24, 2003

CLIENT: FARMERS FEED AND MILLING

DRILLING METHOD: DIRECT PUSH TECHNOLOGY

LOCATION: ATLANTA, GEORGIA

FIELD PERSONNEL: T. LAWRENCE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE			
				NUMBER	INTERVAL	REC (%)	'N' VALUE
2	CL-SANDY CLAY, brown with white sandy clay at 4ft			12			
4	CL-SANDY CLAY, red and orange mottled	4.00		13			
6							
8	CH-CLAY, red and white	7.00					
	NO SAMPLES COLLECTED	8.00					
10							
12							
14							
16							
18							
20							
22							
24							
26							
28							
30							
32							
34							
36							
38							
40	END OF BOREHOLE @ 40.0ft BGS	40.00					
42							
44							
46							
48							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

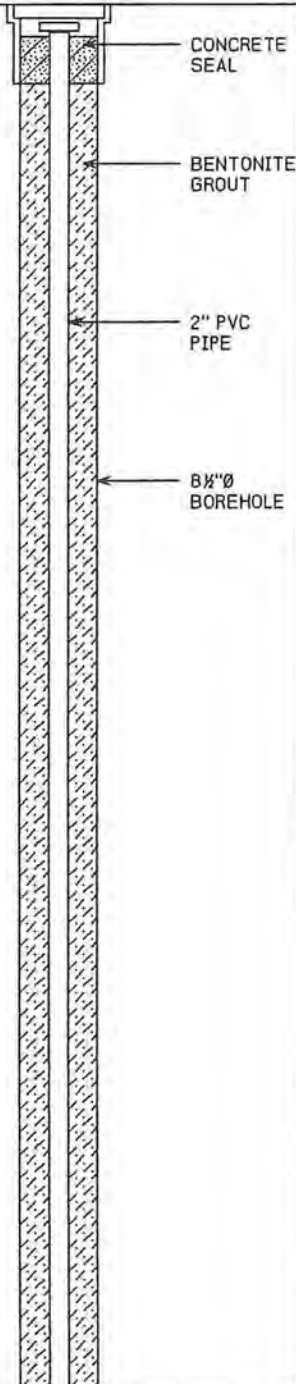
OVERBURDEN LOG 18283-01.GPJ CRA CORP.GDT 11/18/03

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(AL-11)
Page 1 of 3

PROJECT NAME: BIRDSONG PEANUT PLANT
PROJECT NUMBER: 18283-01
CLIENT: FFM
LOCATION: COLQUITT, GEORGIA

HOLE DESIGNATION: MW-7D
DATE COMPLETED: JULY 26, 2001
DRILLING METHOD: 4 1/4" Ø HSA/MUD ROTARY
CRA SUPERVISOR: DAVID BRYTOWSKI

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft. AMSL	MONITOR INSTALLATION	SAMPLE			
				NUMBER	STATE	'N' VALUE	PID (ppm)
	GROUND SURFACE REFERENCE POINT (Top of Riser)	94.0 93.75					
-2.5			 <p>CONCRETE SEAL</p> <p>BENTONITE GROUT</p> <p>2" PVC PIPE</p> <p>8 1/2" Ø BOREHOLE</p>				
-5.0							
-7.5							
-10.0							
-12.5							
-15.0							
-17.5							
-20.0							
-22.5							
-25.0							
-27.5							
-30.0							
-32.5							

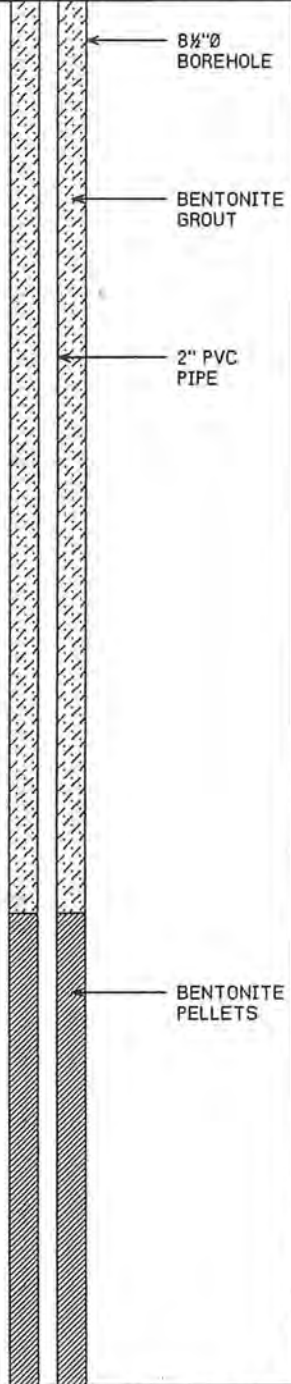
NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▼ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(AL-11)
Page 2 of 3

PROJECT NAME: BIRDSONG PEANUT PLANT
PROJECT NUMBER: 18283-01
CLIENT: FFM
LOCATION: COLQUITT, GEORGIA

HOLE DESIGNATION: MW-7D
DATE COMPLETED: JULY 26, 2001
DRILLING METHOD: 4 1/2" Ø HSA/MUD ROTARY
CRA SUPERVISOR: DAVID BRYTOWSKI

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft. AMSL	MONITOR INSTALLATION	SAMPLE			
				NUMBER	STATE	"N" VALUE	PID (ppm)
37.5							
40.0							
42.5							
45.0							
47.5							
50.0							
52.5							
55.0							
57.5							
60.0							
62.5							
65.0							
67.5							

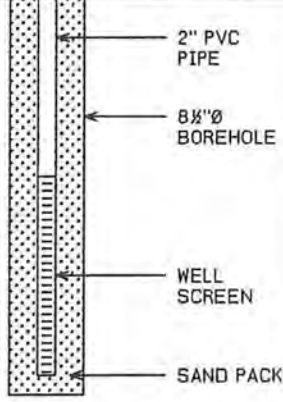
NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▼ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(AL-11)
Page 3 of 3

PROJECT NAME: BIRDSONG PEANUT PLANT
PROJECT NUMBER: 18283-01
CLIENT: FFM
LOCATION: COLQUITT, GEORGIA

HOLE DESIGNATION: MW-7D
DATE COMPLETED: JULY 26, 2001
DRILLING METHOD: 4 1/2" Ø HSA/MUD ROTARY
CRA SUPERVISOR: DAVID BRYTOWSKI

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft. AMSL	MONITOR INSTALLATION	SAMPLE			
				NUMBER	STATE	'N' VALUE	PID (ppm)
-72.5			 <p>2" PVC PIPE</p> <p>8 1/2" Ø BOREHOLE</p> <p>WELL SCREEN</p> <p>SAND PACK</p> <p>SCREEN DETAILS Screened Interval: 74.5 to 79.5ft BGS Length: 5.0ft Diameter: 2" Slot Size: #10 Material: PVC Sand Pack: 70.0 to 80.0ft BGS Material: #10/30 Sand and Natural Sand</p>				
-75.0							
-77.5							
-80.0	END OF HOLE @ 80.0ft BGS	14.0					
-82.5							
-85.0							
-87.5							
-90.0							
-92.5							
-95.0							
-97.5							
-100.0							
-102.5							

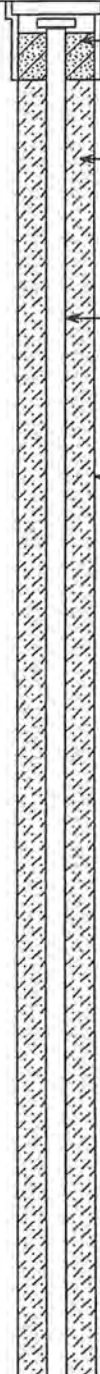
NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▼ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(AL-12)
Page 1 of 2

PROJECT NAME: BIRDSONG PEANUT PLANT
PROJECT NUMBER: 18283-01
CLIENT: FFM
LOCATION: COLQUITT, GEORGIA

HOLE DESIGNATION: MW-8
DATE COMPLETED: JULY 26, 2001
DRILLING METHOD: 4 1/4" Ø HSA
CRA SUPERVISOR: DAVID BRYTOWSKI

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft. AMSL	MONITOR INSTALLATION	SAMPLE			
				NUMBER	STATE	'N' VALUE	PID (ppm)
	GROUND SURFACE REFERENCE POINT (Top of Riser)	93.8 93.57					
-2.5			 <div style="position: absolute; left: 680px; top: 250px;">CONCRETE SEAL</div> <div style="position: absolute; left: 680px; top: 310px;">BENTONITE GROUT</div> <div style="position: absolute; left: 680px; top: 380px;">2" PVC PIPE</div> <div style="position: absolute; left: 680px; top: 460px;">8 1/2" Ø BOREHOLE</div>				
-5.0							
-7.5							
-10.0							
-12.5							
-15.0							
-17.5							
-20.0							
-22.5							
-25.0							
-27.5							
-30.0							
-32.5							

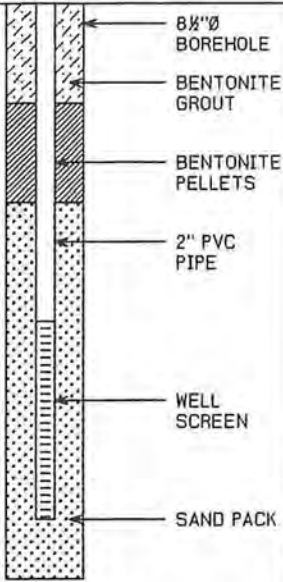
NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▼ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(AL-12)
Page 2 of 2

PROJECT NAME: BIRDSONG PEANUT PLANT
PROJECT NUMBER: 18283-01
CLIENT: FFM
LOCATION: COLQUITT, GEORGIA

HOLE DESIGNATION: MW-8
DATE COMPLETED: JULY 26, 2001
DRILLING METHOD: 4 1/2" Ø HSA
CRA SUPERVISOR: DAVID BRYTOWSKI

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft. AMSL	MONITOR INSTALLATION	SAMPLE			
				NUMBER	STATE	"N" VALUE	PID (ppm)
37.5			 <p>8 1/2" Ø BOREHOLE BENTONITE GROUT BENTONITE PELLETS 2" PVC PIPE WELL SCREEN SAND PACK</p> <p><u>SCREEN DETAILS</u> Screened Interval: 43.0 to 48.0ft BGS Length: 5.0ft Diameter: 2" Slot Size: #10 Material: PVC Sand Pack: 40.0 to 49.5ft BGS Material: #10/30 Sand</p>				
40.0							
42.5							
45.0							
47.5							
50.0							
52.5							
55.0							
57.5							
60.0							
62.5							
65.0							
67.5							

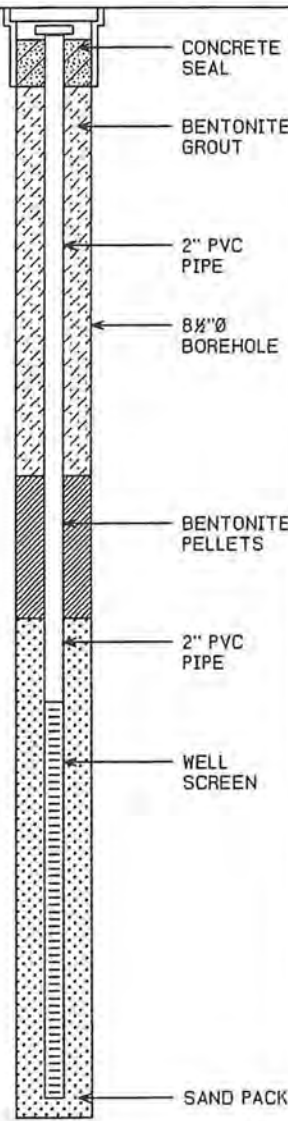
NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▼ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(AL-13)
Page 1 of 1

PROJECT NAME: BIRDSONG PEANUT PLANT
PROJECT NUMBER: 18283-01
CLIENT: FFM
LOCATION: COLQUITT, GEORGIA

HOLE DESIGNATION: MW-9
DATE COMPLETED: JULY 26, 2001
DRILLING METHOD: 4 1/4" Ø HSA
CRA SUPERVISOR: DAVID BRYTOWSKI

DEPTH ft. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft. AMSL	MONITOR INSTALLATION	SAMPLE			
				NUMBER	STATE	"N" VALUE	PID (ppm)
	GROUND SURFACE REFERENCE POINT (Top of Riser)	93.1 92.85					
-2.5			 <p>CONCRETE SEAL</p> <p>BENTONITE GROUT</p> <p>2" PVC PIPE</p> <p>8 1/2" Ø BOREHOLE</p> <p>BENTONITE PELLETS</p> <p>2" PVC PIPE</p> <p>WELL SCREEN</p> <p>SAND PACK</p> <p>SCREEN DETAILS Screened Interval: 17.5 to 27.5ft BGS Length: 10.0ft Diameter: 2" Slot Size: #10 Material: PVC Sand Pack: 15.4 to 28.0ft BGS Material: #10/30 Sand</p>				
-5.0							
-7.5							
-10.0							
-12.5							
-15.0							
-17.5							
-20.0							
-22.5							
-25.0							
-27.5							
-30.0							
-32.5							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▼ STATIC WATER LEVEL ▼



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: BIRDSONG PEANUT PLANT

HOLE DESIGNATION: MW-10

PROJECT NUMBER: 18283-01

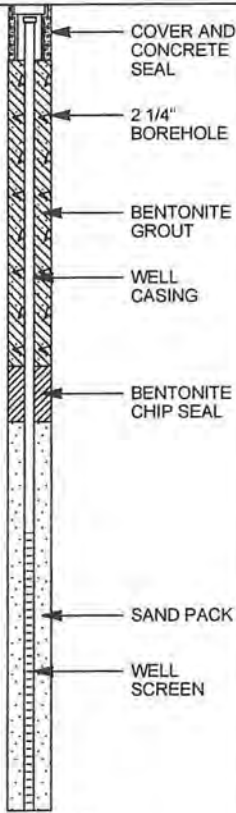
DATE COMPLETED: September 4, 2002

CLIENT: FARMERS FEED AND MILLING

DRILLING METHOD: DIRECT PUSH TECHNOLOGY

LOCATION: ATLANTA, GEORGIA

FIELD PERSONNEL: D. BRYTOWSKI/ S. WOODALL

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	MONITORING WELL	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	
	TOP OF CASING	93.41						
2								
4								
6								
8								
10								
12								
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								
36								
38								
40								
42								
44								
46								
48								

WELL DETAILS

Screened interval:

19.00 to 29.00ft BGS

Length: 10ft

Diameter: 1in

Slot Size: 10

Material: SCH. 40 PVC

Seal:

13.00 to 15.00ft BGS

Material: BENTONITE CHIPS

Sand Pack:

15.00 to 29.00ft BGS

Material: FILTER SAND

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG 18283-01.GPJ CRA CORP.GDT 11/17/03



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: BIRDSONG PEANUT PLANT

PROJECT NUMBER: 18283-01

CLIENT: FARMERS FEED AND MILLING

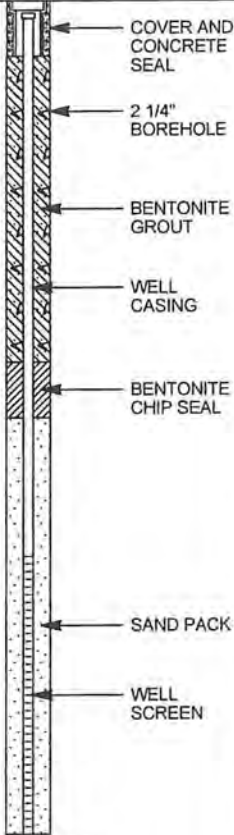
LOCATION: ATLANTA, GEORGIA

HOLE DESIGNATION: MW-11

DATE COMPLETED: August 12, 2003

DRILLING METHOD: DIRECT PUCH TECHNOLOGY

FIELD PERSONNEL: D. BRYTOWSKI

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	MONITORING WELL	SAMPLE			
				NUMBER	INTERVAL	REC (%)	'N' VALUE
	TOP OF CASING	94.44					
2							
4							
6							
8							
10							
12							
14							
16							
18							
20							
22							
24							
26							
28							
30							
32							
34							
36							
38							
40							
42							
44							
46							
48							

WELL DETAILS

Screened interval:

20.00 to 30.00ft BGS

Length: 10ft

Diameter: 1in

Slot Size: 10

Material: SCH. 40 PVC

Seal:

13.00 to 15.00ft BGS

Material: BENTONITE CHIPS

Sand Pack:

15.00 to 30.00ft BGS

Material: FILTER SAND

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG 18283-01 GPJ CRA_CORP.GDT 11/17/03



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 2

PROJECT NAME: BIRDSONG PEANUT PLANT

HOLE DESIGNATION: BH-11

PROJECT NUMBER: 18283-01


DATE COMPLETED: April 24, 2003

CLIENT: FARMERS FEED AND MILLING

DRILLING METHOD: DIRECT PUSH TECHNOLOGY

LOCATION: ATLANTA, GEORGIA

FIELD PERSONNEL: T. LAWRENCE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	Tons/SF	
2	CH-CLAY, orange	3.00	 2 1/4" BOREHOLE	1	2-3			
4	CH-CLAY, red-orange, very dry			2	3-4			
6		8.00						
8	NO SAMPLES COLLECTED							
10								
12								
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG 18283-01.GPJ CRA CORP.GDT 9/7/05



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 2 of 2

PROJECT NAME: BIRDSONG PEANUT PLANT

HOLE DESIGNATION: BH-11

PROJECT NUMBER: 18283-01

DATE COMPLETED: April 24, 2003

CLIENT: FARMERS FEED AND MILLING

DRILLING METHOD: DIRECT PUSH TECHNOLOGY

LOCATION: ATLANTA, GEORGIA

FIELD PERSONNEL: T. LAWRENCE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	Tons/SF	
36								
38								
40								
42								
44								
46								
47	END OF BOREHOLE @ 47.0ft BGS	47.00						
48								
50								
52								
54								
56								
58								
60								
62								
64								
66								
68								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG 18283-01.GPJ CRA_CORP.GDT 9/7/05



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 2

PROJECT NAME: BIRDSONG PEANUT PLANT

PROJECT NUMBER: 18283-01

CLIENT: FARMERS FEED AND MILLING


LOCATION: ATLANTA, GEORGIA

HOLE DESIGNATION: BH-12

DATE COMPLETED: April 24, 2003

DRILLING METHOD: DIRECT PUSH TECHNOLOGY

FIELD PERSONNEL: T. LAWRENCE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	Tons/SF	
2	CH-CLAY, orange and red mottled			3	2.00 - 3.00			
4	CH-CLAY, orange and red mottled with white clay lenses	4.00		4	3.00 - 4.00			
6								
8	NO SAMPLES COLLECTED	8.00						
10								
12								
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG 18283-01.GPJ CRA_CORP.GDT 9/7/05



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 2 of 2

PROJECT NAME: BIRDSONG PEANUT PLANT

HOLE DESIGNATION: BH-12

PROJECT NUMBER: 18283-01


DATE COMPLETED: April 24, 2003

CLIENT: FARMERS FEED AND MILLING

DRILLING METHOD: DIRECT PUSH TECHNOLOGY

LOCATION: ATLANTA, GEORGIA

FIELD PERSONNEL: T. LAWRENCE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	Tons/SF	
36	END OF BOREHOLE @ 36.0ft BGS	36.00						
38								
40								
42								
44								
46								
48								
50								
52								
54								
56								
58								
60								
62								
64								
66								
68								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG 18283-01.GPJ CRA CORP GDT 9/7/05



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: BIRDSONG PEANUT PLANT

HOLE DESIGNATION: BH-13

PROJECT NUMBER: 18283-01

DATE COMPLETED: April 24, 2003

CLIENT: FARMERS FEED AND MILLING

DRILLING METHOD: DIRECT PUSH TECHNOLOGY

LOCATION: ATLANTA, GEORGIA

FIELD PERSONNEL: T. LAWRENCE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	Tons/SF	
2	CH-CLAY, orange and red mottled with white sandy clay pockets		2 1/4" BOREHOLE	5				
4				6				
6								
8	NO SAMPLES COLLECTED	8.00						
10								
12								
14								
16			BENTONITE CHIP FILL					
18								
20								
22								
24								
26								
28								
30								
32	END OF BOREHOLE @ 32.0ft BGS	32.00						
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG 18283-01.GPJ CRA CORP.GDT 9/7/05



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 2

PROJECT NAME: BIRDSONG PEANUT PLANT

HOLE DESIGNATION: BH-14

PROJECT NUMBER: 18283-01

DATE COMPLETED: April 24, 2003

CLIENT: FARMERS FEED AND MILLING

DRILLING METHOD: DIRECT PUCH TECHNOLOGY

LOCATION: ATLANTA, GEORGIA

FIELD PERSONNEL: T. LAWRENCE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE			
				NUMBER	INTERVAL	REC (%)	Tons/SF
2	CH-CLAY, orange and red mottled with whiole sandy clay pockets			7			
4							
6				8			
8	NO SAMPLES COLLECTED	8.00					
10							
12							
14							
16							
18							
20							
22							
24							
26							
28							
30							
32							
34							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG 18283-01.GPJ CRA_CORP.GDT 9/7/05



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 2 of 2

PROJECT NAME: BIRDSONG PEANUT PLANT

PROJECT NUMBER: 18283-01

CLIENT: FARMERS FEED AND MILLING

LOCATION: ATLANTA, GEORGIA

HOLE DESIGNATION: BH-14

DATE COMPLETED: April 24, 2003

DRILLING METHOD: DIRECT PUCH TECHNOLOGY

FIELD PERSONNEL: T. LAWRENCE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	Tons/SF	
36								
38								
40								
42								
44	END OF BOREHOLE @ 43.0ft BGS	43.00						
46								
48								
50								
52								
54								
56								
58								
60								
62								
64								
66								
68								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG 18283-01.GPJ CRA CORP.GDT 9/7/05



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 2

PROJECT NAME: BIRDSONG PEANUT PLANT

PROJECT NUMBER: 18283-01

CLIENT: FARMERS FEED AND MILLING

LOCATION: ATLANTA, GEORGIA

HOLE DESIGNATION: BH-15

DATE COMPLETED: April 24, 2003

DRILLING METHOD: DIRECT PUSH TECHNOLOGY

FIELD PERSONNEL: T. LAWRENCE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	Tons/SF	
2	CL-SANDY CLAY, brown, very hard			9				
4	dry, no water	4.00						
6								
8								
10								
12								
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG 18283-01.GPJ CRA_CORP.GDT 9/7/05



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 2 of 2

PROJECT NAME: BIRDSONG PEANUT PLANT

PROJECT NUMBER: 18283-01

CLIENT: FARMERS FEED AND MILLING

LOCATION: ATLANTA, GEORGIA

HOLE DESIGNATION: BH-15

DATE COMPLETED: April 24, 2003

DRILLING METHOD: DIRECT PUSH TECHNOLOGY

FIELD PERSONNEL: T. LAWRENCE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	Tons/SF	
36								
38								
40	END OF BOREHOLE @ 40.0ft BGS	40.00						
42								
44								
46								
48								
50								
52								
54								
56								
58								
60								
62								
64								
66								
68								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG 18283-01.GPJ CRA CORP.GDT 9/7/05



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 2

PROJECT NAME: BIRDSONG PEANUT PLANT

HOLE DESIGNATION: BH-16

PROJECT NUMBER: 18283-01


DATE COMPLETED: April 24, 2003

CLIENT: FARMERS FEED AND MILLING

DRILLING METHOD: DIRECT PUCH TECHNOLOGY

LOCATION: ATLANTA, GEORGIA

FIELD PERSONNEL: T. LAWRENCE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	Tons/SF	
2	CL-SANDY CLAY, light brown with orange			10	10-11			
4	CH-CLAY, red and orange mottled with white sandy clay pockets	4.00		11	11-12			
6								
8	NO SAMPLES COLLECTED	8.00						
10								
12								
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG 18283-01.GPJ CRA_CORP.GDT 9/7/05



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 2 of 2

PROJECT NAME: BIRDSONG PEANUT PLANT

HOLE DESIGNATION: BH-16

PROJECT NUMBER: 18283-01

DATE COMPLETED: April 24, 2003

CLIENT: FARMERS FEED AND MILLING

DRILLING METHOD: DIRECT PUCH TECHNOLOGY

LOCATION: ATLANTA, GEORGIA

FIELD PERSONNEL: T. LAWRENCE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	Tons/SF	
36								
38								
40	END OF BOREHOLE @ 40.0ft BGS	40.00						
42								
44								
46								
48								
50								
52								
54								
56								
58								
60								
62								
64								
66								
68								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG 18283-01.GPJ CRA CORP.GDT 9/7/05



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 2

PROJECT NAME: BIRDSONG PEANUT PLANT

PROJECT NUMBER: 18283-01

CLIENT: FARMERS FEED AND MILLING


LOCATION: ATLANTA, GEORGIA

HOLE DESIGNATION: BH-17

DATE COMPLETED: April 24, 2003

DRILLING METHOD: DIRECT PUSH TECHNOLOGY

FIELD PERSONNEL: T. LAWRENCE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	Tons/SF	
2	CL-SANDY CLAY, brown with white sandy clay at 4ft			12	12-13			
4	CL-SANDY CLAY, red and orange mottled	4.00		13	13-14			
6								
8	CH-CLAY, red and white	7.00						
	NO SAMPLES COLLECTED	8.00						
10								
12								
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG 18283-01.GPJ CRA_CORP.GDT 9/7/05



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 2 of 2

PROJECT NAME: BIRDSONG PEANUT PLANT

HOLE DESIGNATION: BH-17

PROJECT NUMBER: 18283-01

DATE COMPLETED: April 24, 2003

CLIENT: FARMERS FEED AND MILLING

DRILLING METHOD: DIRECT PUSH TECHNOLOGY

LOCATION: ATLANTA, GEORGIA

FIELD PERSONNEL: T. LAWRENCE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	Tons/SF	
36								
38								
40	END OF BOREHOLE @ 40.0ft BGS	40.00						
42								
44								
46								
48								
50								
52								
54								
56								
58								
60								
62								
64								
66								
68								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG 18283-01.GPJ CRA CORP GDT 9/7/05



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: BIRDSONG PEANUT PLANT

PROJECT NUMBER: 18283-01

CLIENT: FARMERS FEED AND MILLING

LOCATION: ATLANTA, GEORGIA

HOLE DESIGNATION: BH-18

DATE COMPLETED: August 10, 2005

DRILLING METHOD: 2 1/4" I.D. HSA

FIELD PERSONNEL: D. BRYTOWSKI

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE			
				NUMBER	INTERVAL	REC (%)	Tons/SF
	Hand augered to 3.0ft BGS						
2							
4	CL-CLAY (RESIDUUM), trace sand, stiff, red brown/brown mottled, low moisture	3.00	6" BOREHOLE	1		2	3.0
6				2		2	4.0
8	- gray/red brown/brown mottled at 7.5ft BGS			3		1.5	4.5
10	- moisture increasing at 10.0ft BGS		BACKFILLED WITH BENTONITE CHIPS	4		2	4.25
12				5		2	4.5
14				6			
16	SP/CL-SAND and CLAY, mixed, saturated	15.50					
18	END OF BOREHOLE @ 17.5ft BGS	17.50					
20							
22							
24							
26							
28							
30							
32							
34							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG 18283-01.GPJ CRA_CORP.GDT 9/7/05



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: BIRDSONG PEANUT PLANT

HOLE DESIGNATION: BH-19

PROJECT NUMBER: 18283-01

DATE COMPLETED: August 10, 2005

CLIENT: FARMERS FEED AND MILLING

DRILLING METHOD: 2 1/4" I.D. HSA

LOCATION: ATLANTA, GEORGIA

FIELD PERSONNEL: D. BRYTOWSKI

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	Tons/SF	PID (ppm)
	Hand augered to 3.0ft BGS							
2							N/A	
4	CL-CLAY (RESIDUUM), trace sand, very stiff, red brown/brown mottled, low to moderate moisture	3.00	6" BOREHOLE	1		1.8	74.5	0.0
6				2		2	4.5	
8				3		1.3	3.0	
10				4		2	3.75	
12			BACKFILLED WITH BENTONITE CHIPS	5		1.9	3.25	
14				6		0	3.75	
16	- gray/yellow brown mottled at 15.0ft BGS			7		1	3.75	
18	- moisture increasing at 17.5ft BGS			8		0.5	3.5	
20								
22	- CL and water at 22.0ft BGS	22.50						
24	END OF BOREHOLE @ 22.5ft BGS							
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG 18283-01.GPJ CRA_CORP.GDT 9/7/05



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: BIRDSONG PEANUT PLANT

PROJECT NUMBER: 18283-01

CLIENT: FARMERS FEED AND MILLING

LOCATION: ATLANTA, GEORGIA

HOLE DESIGNATION: BH-20

DATE COMPLETED: August 10, 2005

DRILLING METHOD: 2 1/4" I.D. HSA

FIELD PERSONNEL: D. BRYTOWSKI

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	Tons/SF	PID (ppm)
	Hand augered to 3.0ft BGS							
2								
4	CL-CLAY (RESIDUUM), trace sand, very stiff, gray/red brown/yellow brown mottled, low to moderate moisture	3.00	6" BOREHOLE	1		1.7	74.5	0.0
6				2		2.1	74.5	
8			BACKFILLED WITH BENTONITE CHIPS	3		2.3	0.25	
10	CL-CLAY (RESIDUUM), trace sand, soft, yellow brown/red brown mottled, moist to saturated	8.50		4		2.1		
12	END OF BOREHOLE @ 12.5ft BGS	12.50						
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG 18283-01.GPJ CRA CORP.GDT 9/7/05



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: BIRDSONG PEANUT PLANT

HOLE DESIGNATION: BH-21

PROJECT NUMBER: 18283-01

DATE COMPLETED: August 10, 2005

CLIENT: FARMERS FEED AND MILLING

DRILLING METHOD: 2 1/4" I.D. HSA

LOCATION: ATLANTA, GEORGIA

FIELD PERSONNEL: D. BRYTOWSKI

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE			
				NUMBER	INTERVAL	REC (%)	Tons/SF
	Hand augered to 3.0ft BGS						
2							
4	CL-CLAY (RESIDUUM), trace sand, soft, yellow brown/gray mottled, saturated	3.00		1		1.8	0.75
6				2		2.5	0
8	END OF BOREHOLE @ 7.5ft BGS	7.50					
10							
12							
14							
16							
18							
20							
22							
24							
26							
28							
30							
32							
34							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG 18283-01.GPJ CRA_CORP.GDT 9/7/05



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: BIRDSONG PEANUT PLANT

PROJECT NUMBER: 18283-01

CLIENT: FARMERS FEED AND MILLING

LOCATION: ATLANTA, GEORGIA

HOLE DESIGNATION: BH-22

DATE COMPLETED: August 10, 2005

DRILLING METHOD: 2 1/4" I.D. HSA

FIELD PERSONNEL: D. BRYTOWSKI

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	Tons/SF	PID (ppm)
	Hand augered to 3.0ft BGS							
2								
4	CL-CLAY (RESIDUUM), trace sand, moderate density, red brown/yellow brown mottled, moist	3.00		1		1.8	1.75	0.0
6	CL-CLAY (RESIDUUM), some sand, stiff, yellow brown/red brown mottled, moist to saturated	5.00		2		2.2	3.25	0.0
8	no recovery, water	7.50		3		0	0	N/A
10	CL-CLAY (RESIDUUM), trace sand, soft, yellow brown/gray mottled, saturated	10.00		4		1.5	1.0	N/A
12	END OF BOREHOLE @ 12.5ft BGS	12.50						
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG 18283-01.GPJ CRA_CORP.GDT 9/7/05



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: BIRDSONG PEANUT PLANT

HOLE DESIGNATION: BH-23

PROJECT NUMBER: 18283-01

DATE COMPLETED: August 10, 2005

CLIENT: FARMERS FEED AND MILLING

DRILLING METHOD: 2 1/4" I.D. HSA

LOCATION: ATLANTA, GEORGIA

FIELD PERSONNEL: D. BRYTOWSKI

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE			
				NUMBER	INTERVAL	REC (%)	Tons/SF
	Hand augered to 3.0ft BGS						
2							
4	CL-CLAY/SAND/SILT (FILL), soft, saturated	3.00	6" BOREHOLE	1	X	0.67	0
6			BACKFILLED WITH BENTONITE CHIPS				
8							
10	END OF BOREHOLE @ 10.0ft BGS	10.00		2	X	0.67	0
12							
14							
16							
18							
20							
22							
24							
26							
28							
30							
32							
34							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG 18283-01.GPJ CRA_CORP.GDT 9/7/05



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: BIRDSONG PEANUT PLANT
PROJECT NUMBER: 18283-01
CLIENT: FARMERS FEED AND MILLING
LOCATION: ATLANTA, GEORGIA

HOLE DESIGNATION: MW-10
DATE COMPLETED: September 4, 2002
DRILLING METHOD: DIRECT PUSH TECHNOLOGY
FIELD PERSONNEL: D. BRYTOWSKI

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	MONITORING WELL	SAMPLE				
				NUMBER	INTERVAL	REC (%)	Tons/SF	
	TOP OF CASING	93.41						
2			COVER AND CONCRETE SEAL					
4			2 1/4" BOREHOLE					
6								
8			BENTONITE GROUT					
10			WELL CASING					
12								
14			BENTONITE CHIP SEAL					
16								
18								
20								
22			SAND PACK					
24			WELL SCREEN					
26								
28								
30								
32								
34								

WELL DETAILS

Screened interval:

19.00 to 29.00ft BGS

Length: 10ft

Diameter: 1in

Slot Size: 10

Material: SCH. 40 PVC

Seal:

13.00 to 15.00ft BGS

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG 18283-01.GPJ CRA_CORP.GDT 9/9/05



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 2 of 2

PROJECT NAME: BIRDSONG PEANUT PLANT

HOLE DESIGNATION: MW-10

PROJECT NUMBER: 18283-01

DATE COMPLETED: September 4, 2002

CLIENT: FARMERS FEED AND MILLING

DRILLING METHOD: DIRECT PUSH TECHNOLOGY

LOCATION: ATLANTA, GEORGIA

FIELD PERSONNEL: D. BRYTOWSKI

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	MONITORING WELL	SAMPLE				
				NUMBER	INTERVAL	REC (%)	Tons/SF	
36			Material: BENTONITE CHIPS Sand Pack: 15.00 to 29.00ft BGS Material: FILTER SAND					
38								
40								
42								
44								
46								
48								
50								
52								
54								
56								
58								
60								
62								
64								
66								
68								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG 18283-01.GPJ CRA CORP.GDT 9/9/05



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: BIRDSONG PEANUT PLANT

PROJECT NUMBER: 18283-01

CLIENT: FARMERS FEED AND MILLING

LOCATION: ATLANTA, GEORGIA

HOLE DESIGNATION: MW-11

DATE COMPLETED: August 12, 2003

DRILLING METHOD: DIRECT PUCH TECHNOLOGY

FIELD PERSONNEL: D. BRYTOWSKI

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	MONITORING WELL	SAMPLE				
				NUMBER	INTERVAL	REC (%)	Tons/SF	
	TOP OF CASING	94.44						
2			COVER AND CONCRETE SEAL					
4			2 1/4" BOREHOLE					
6								
8			BENTONITE GROUT					
10			WELL CASING					
12								
14			BENTONITE CHIP SEAL					
16								
18								
20								
22			SAND PACK					
24								
26			WELL SCREEN					
28								
30								
32								
34								

WELL DETAILS

Screened interval:

20.00 to 30.00ft BGS

Length: 10ft

Diameter: 1in

Slot Size: 10

Material: SCH. 40 PVC

Seal:

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG 18283-01.GPJ CRA_CORP.GDT 9/7/05



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: BIRDSONG PEANUT PLANT

HOLE DESIGNATION: MW-11

PROJECT NUMBER: 18283-01

DATE COMPLETED: August 12, 2003

CLIENT: FARMERS FEED AND MILLING

DRILLING METHOD: DIRECT PUCH TECHNOLOGY

LOCATION: ATLANTA, GEORGIA

FIELD PERSONNEL: D. BRYTOWSKI

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	MONITORING WELL	SAMPLE				
				NUMBER	INTERVAL	REC (%)	Tons/SF	
36			13.00 to 15.00ft BGS Material: BENTONITE CHIPS Sand Pack:					
38			15.00 to 30.00ft BGS Material: FILTER SAND					
40								
42								
44								
46								
48								
50								
52								
54								
56								
58								
60								
62								
64								
66								
68								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG 18283-01.GPJ CRA CORP.GDT 9/7/05



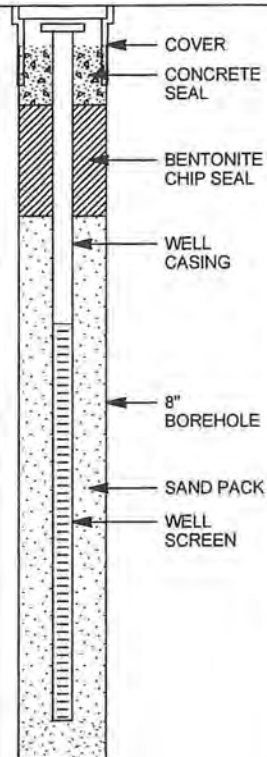
STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: BIRDSONG PEANUT PLANT
PROJECT NUMBER: 18283-01
CLIENT: FARMERS FEED AND MILLING
LOCATION: ATLANTA, GEORGIA

HOLE DESIGNATION: MW-13
DATE COMPLETED: August 11, 2005
DRILLING METHOD: 4 1/4" I.D. HSA
FIELD PERSONNEL: D. BRYTOWSKI

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	MONITORING WELL	SAMPLE				
				NUMBER	INTERVAL	REC (%)	Tons/SF	PID (ppm)
	Hand augered to 3.5ft BGS							
2								
4	CL-CLAY and SAND (RESIDUUM), soft, gray/yellowbrown mottled, moist	3.50		1		1		358
6	- some black coloring at 5.0ft BGS			2		0.42		60
8	CL-CLAY and SAND (RESIDUUM), stiff, gray/yellow brown/red brown mottled, moist	7.50		3		2	2.3	7.8
10	- moisture increasing slightly at 10.0ft BGS			4		1.9	2.2	1.3
12				5		2.5	1.8	5.4
14				6		2.5	2.0	N/A
16								
18	END OF BOREHOLE @ 19.0ft BGS	17.50						
20								
22								
24								
26								
28								
30								
32								
34								



WELL DETAILS

Screened interval:
8.00 to 18.00ft BGS
Length: 10ft
Diameter: 2in
Slot Size: .010
Material: SCH. 40 PVC
Seal:
2.50 to 5.30ft BGS
Material: BENTONITE CHIPS
Sand Pack:
5.30 to 19.00ft BGS
Material: 10/30 SAND

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG 18283-01.GPJ CRA_CORP.GDT 9/7/05



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: BIRDSONG PEANUT PLANT

PROJECT NUMBER: 18283-01

CLIENT: FARMERS FEED AND MILLING

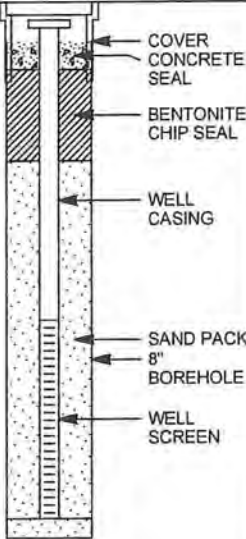
LOCATION: ATLANTA, GEORGIA

HOLE DESIGNATION: MW-14

DATE COMPLETED: August 11, 2005

DRILLING METHOD: 4 1/4" I.D. HSA

FIELD PERSONNEL: D. BRYTOWSKI

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	MONITORING WELL	SAMPLE			
				NUMBER	INTERVAL	REC (%)	Tons/SF
2	CL-CLAY, saturated at 4.0ft BGS, hand augered to 5.0ft BGS		 WELL DETAILS Screened interval: 8.00 to 13.00ft BGS Length: 5ft Diameter: 2in Slot Size: .010 Material: SCH. 40 PVC Seal: 1.70 to 4.00ft BGS Material: BENTONITE CHIPS Sand Pack: 4.00 to 13.50ft BGS Material: 10/30 SAND				
4							
6	CL-CLAY, trace sand, orange/red mottled	5.00		1	X		1.75
8	CL-CLAY and SAND (RESIDUUM), yellow brown/light gray mottled, low moisture	7.50		2	X		3.0
10	- some chert fragments at 10.0ft BGS			3	X		-
12				4	X		-
14	- very moist at 12.5ft BGS - WEATHERED ROCK, very hard, low moisture, water in cuttings at 13.0ft BGS END OF BOREHOLE @ 13.5ft BGS	15.00					
16							
18							
20							
22							
24							
26							
28							
30							
32							
34							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG 18283-01.GPJ CRA_CORP.GDT 9/7/05



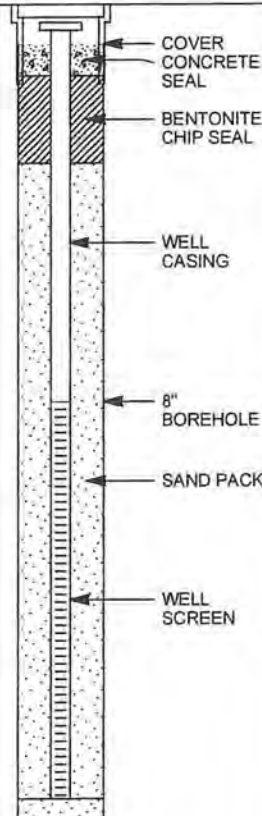
STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: BIRDSONG PEANUT PLANT
PROJECT NUMBER: 18283-01
CLIENT: FARMERS FEED AND MILLING
LOCATION: ATLANTA, GEORGIA

HOLE DESIGNATION: MW-15
DATE COMPLETED: August 11, 2005
DRILLING METHOD: 4 1/4" I.D. HSA
FIELD PERSONNEL: D. BRYTOWSKI

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	MONITORING WELL	SAMPLE			
				NUMBER	INTERVAL	REC (%)	Tons/SF
	Hand augered to 5.0ft BGS						
2							
4							
6	SM-SAND and SILT (FILL), loose, saturated, burnt wood fragments	5.00		1		1.5	-
8				2		2	1.5
10	CL-CLAY and SAND (RESIDUUM), stiff to very stiff	8.50		3		2.5	3.75
12				4		1.3	N/A
14	SP-SAND (RESIDUUM), some rock fragments, loose	12.50		5		2	2.0
16	CL-CLAY and SAND (RESIDUUM), stiff, light gray, very moist	15.00					
18	SP-SAND (RESIDUUM), trace clay, loose, saturated	16.50					
20							
22	END OF BOREHOLE @ 20.5ft BGS	20.50					
24							
26							
28							
30							
32							
34							



WELL DETAILS
Screened interval:
10.00 to 20.00ft BGS
Length: 10ft
Diameter: 2in
Slot Size: .010
Material: SCH. 40 PVC
Seal:
1.80 to 4.00ft BGS
Material: BENTONITE CHIPS
Sand Pack:
4.00 to 20.50ft BGS
Material: 10/30 SAND

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG 18283-01.GPJ CRA CORP.GDT 9/7/05



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: BIRDSONG PEANUT PLANT

PROJECT NUMBER: 18283-01

CLIENT: FARMERS FEED AND MILLING

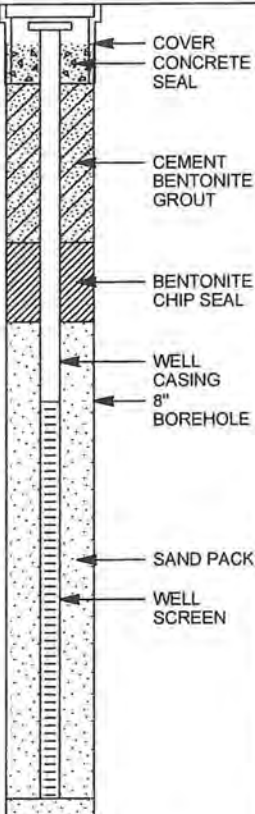
LOCATION: ATLANTA, GEORGIA

HOLE DESIGNATION: MW-16

DATE COMPLETED: August 11, 2005

DRILLING METHOD: 4 1/4" I.D. HSA

FIELD PERSONNEL: D. BRYTOWSKI

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	MONITORING WELL	SAMPLE			
				NUMBER	INTERVAL	REC (%)	Tons/SF
2	Hand augered to 5.0ft BGS		 <p>COVER CONCRETE SEAL</p> <p>CEMENT BENTONITE GROUT</p> <p>BENTONITE CHIP SEAL</p> <p>WELL CASING</p> <p>8" BOREHOLE</p> <p>SAND PACK</p> <p>WELL SCREEN</p> <p>WELL DETAILS Screened interval: 10.00 to 20.00ft BGS Length: 10ft Diameter: 2in Slot Size: .010 Material: SCH. 40 PVC Seal: 6.00 to 8.00ft BGS Material: BENTONITE CHIPS Sand Pack: 8.00 to 20.50ft BGS Material: 10/30 SAND</p>				
4							
6	CL-CLAY (RESIDUUM), very stiff, red/tan/white mottled	5.00		1			74.5
8	- trace sand at 7.5ft BGS			2			74.5
10				3			3.5
12				4			2.75
14	CL-CLAY and SAND (RESIDUUM), soft, saturated	13.00		5			1.75
16				6			2.5
18							
20	END OF BOREHOLE @ 20.5ft BGS	20.00					
22							
24							
26							
28							
30							
32							
34							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG 18283-01.GPJ CRA_CORP.GDT 8/7/05



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 3

PROJECT NAME: BIRDSONG PEANUT PLANT

PROJECT NUMBER: 18283-01

CLIENT: FARMERS FEED AND MILLING

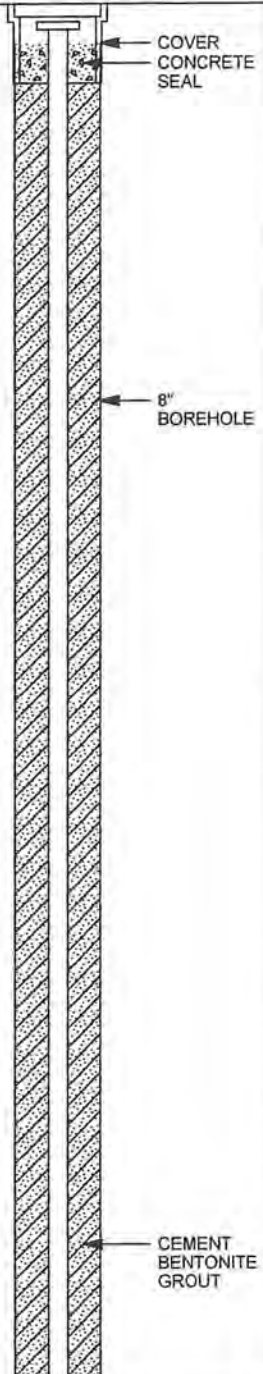
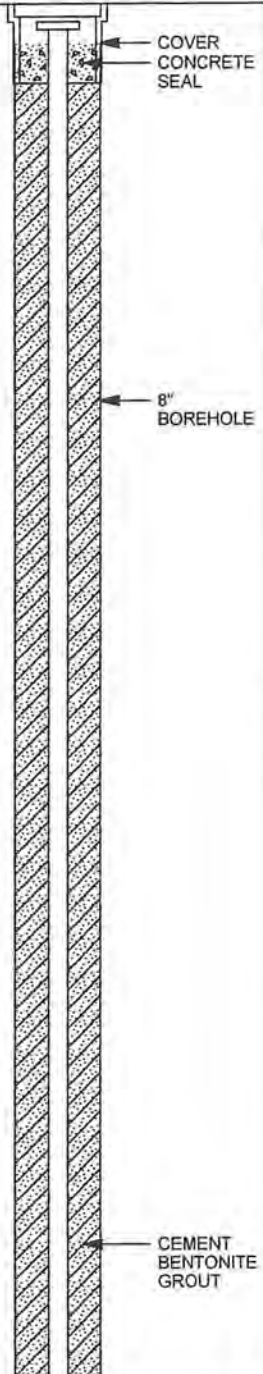
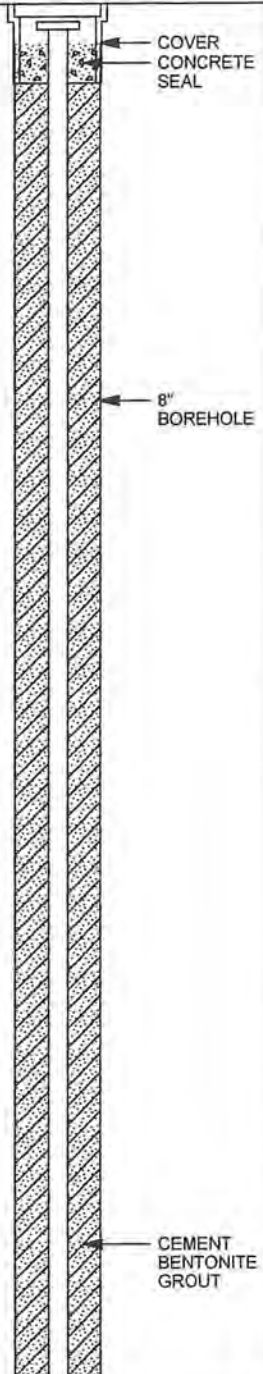
LOCATION: ATLANTA, GEORGIA

HOLE DESIGNATION: MW-17D

DATE COMPLETED: August 12, 2005

DRILLING METHOD: 4 1/4" I.D. HSA

FIELD PERSONNEL: D. BRYTOWSKI

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	MONITORING WELL	SAMPLE				
				NUMBER	INTERVAL	REC (%)	Tons/SF	P/D (ppm)
2	Hand augered to 3ft BGS							
4	CL-CLAY (RESIDUUM), some sand, firm to stiff, yellow brown	3.00		1	X		2.5	0.0
6								
8				2	X		3.5	0.0
10								
12				3	X		74.5	0.0
14								
16								
18	CL-CLAY and SAND (RESIDUUM), soft, moist	18.00		4	X		2.75	0.0
20								
22								
24	- saturated at 23.0ft BGS			5	X		3.75	0.0
26								
28				6	X			
30								
32	CH-CLAY, soft, plastic	31.00						
34	- 1" sand seam, saturated at 34.2ft BGS			7	X		0.25	0.0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG 18283-01.GPJ CRA_CORP.GDT 9/7/05



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 2 of 3

PROJECT NAME: BIRDSONG PEANUT PLANT

PROJECT NUMBER: 18283-01

CLIENT: FARMERS FEED AND MILLING

LOCATION: ATLANTA, GEORGIA

HOLE DESIGNATION: MW-17D

DATE COMPLETED: August 12, 2005

DRILLING METHOD: 4 1/4" I.D. HSA

FIELD PERSONNEL: D. BRYTOWSKI

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	MONITORING WELL	SAMPLE				
				NUMBER	INTERVAL	REC (%)	Tons/SF	PID (ppm)
36								
38				8	X	2.5	1.0	0.0
40								
42								
44	- sandstone rock fragments at 44.5ft BGS			9	X	2.5	0.5	0.0
46								
48								
50	After 50ft BGS flowing sands prevented split spoon sampling	50.00		10	X	1	N/A	0.0
52								
54								
56								
58								
60								
62								
64								
66								
68								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG 18283-01.GPJ CRA CORP.GDT 9/7/05

BENTONITE
CHIP SEAL

WELL
CASING

WELL
SCREEN
SAND PACK

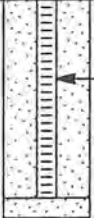


STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 3 of 3

PROJECT NAME: BIRDSONG PEANUT PLANT
PROJECT NUMBER: 18283-01
CLIENT: FARMERS FEED AND MILLING
LOCATION: ATLANTA, GEORGIA

HOLE DESIGNATION: MW-17D
DATE COMPLETED: August 12, 2005
DRILLING METHOD: 4 1/4" I.D. HSA
FIELD PERSONNEL: D. BRYTOWSKI

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	MONITORING WELL	SAMPLE				
				NUMBER	INTERVAL	REC (%)	Tons/SF	PID (ppm)
72								
74								
76	END OF BOREHOLE @ 75.5ft BGS	75.50						
78			<u>WELL DETAILS</u> Screened interval: 65.00 to 75.00ft BGS Length: 10ft Diameter: 2in Slot Size: .010 Material: SCH. 40 PVC Seal: 60.50 to 63.00ft BGS Material: BENTONITE CHIPS Sand Pack: 63.00 to 75.50ft BGS Material: 10/30 SAND					
80								
82								
84								
86								
88								
90								
92								
94								
96								
98								
100								
102								
104								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG 18283-01.GPJ CRA_CORP.GDT 9/7/05

APPENDIX B

FIELD LABORATORY ANALYTICAL REPORTS

Case Narrative

Client Information:

Client: **Conestoga Rover Associates**
1351 Oakbrook Drive
Norcross, GA 30093
Project Mgr: Thom Lawrence

Client Project Information:

Project: Birdsong Peanut
Project No.:
Collected by:

Laboratory Project Information:

Lab Number: 4-010558
Date Collected: 7/16-18/01
Date Received: 7/16-18/01

Case Summary:

- 1) Samples were received in good condition and between 0 and 4°C.
- 2) Samples were analyzed following current EPA Methodologies and the standards of NELAP.
- 3) No QA/QC problems were encountered during the analysis of the samples.

Data Approved by:

Phillip Hathcock
Phillip Hathcock

Date: 7/21/01

Laboratory Technical Director

ESN Southeast is certified/approved to conduct environmental analytical testing in the following states:

California #2121, Florida #990184, Tennessee, Alabama, Georgia.

ESN Southeast adheres to the standards set forth by the National Environmental Laboratory Accreditation Program (NELAP).

CERTIFICATE OF ANALYSIS

Volatile Organic Compounds by GC/MS
EPA Method 8260B

Client Information:

Client:	Conestoga Rover Associates
	1351 Oakbrook Drive
	Norcross, GA 30093
Project Mgr:	Thom Lawrence

Laboratory Information:

Lab Number:	4-010558
Date Collected:	7/16-18/01
Date Received:	7/16-18/01
Date Analyzed:	7/16-18/01

Project Information:

Project:	Birdsong Peanut
Project No.:	
Collected by:	

Sample Information:

Sample Matrix:	Soil
----------------	------

SAMPLE ID	Vinyl Chloride mg/Kg	Dichloroethane mg/Kg	Dichloroethene mg/Kg	Trichloroethene mg/Kg	Tetrachloroethene mg/Kg	Surr. Rec (%)	Data Qual.
Method Blank	ND	ND	ND	ND	ND	89	
BH-1 2'	ND	ND	ND	ND	ND	91	
BH-1 21'	ND	ND	ND	ND	ND	88	
BH-2 4'	ND	ND	ND	ND	ND	95	
BH-2 21'	ND	ND	ND	ND	ND	101	
BH-3 2'	ND	ND	ND	ND	ND	106	
BH-3 21'	ND	ND	ND	ND	28.0	95	
BH-3 10'	ND	ND	ND	ND	ND	94	
BH-4 1.5'	ND	ND	ND	ND	ND	103	
BH-4 10'	ND	ND	ND	ND	ND	79	
BH-5 1'	ND	ND	ND	ND	ND	85	
BH-5 7.5'	ND	ND	ND	ND	ND	88	
BH-5 22'	ND	ND	ND	ND	ND	104	
BH-6 1'	ND	ND	ND	ND	ND	103	
BH-6 19.5'	ND	ND	ND	ND	7.5	95	
BH-7 1'	ND	ND	ND	ND	ND	99	
BH-7 15'	ND	ND	ND	ND	ND	106	
BH-8 1'	ND	ND	ND	ND	ND	87	
BH-8 25.5'	ND	ND	ND	ND	21.3	99	
BH-9 1.5'	ND	ND	ND	ND	ND	101	
BH-9 17.5'	ND	ND	ND	ND	ND	110	
BH-10-2'	ND	ND	ND	ND	ND	101	
BH-10 27'	ND	ND	ND	ND	ND	96	

DATA QUALIFIERS:

*PQL - Practical Quantitation Limit

**Results listed as 'ND' were NOT DETECTED
at or above the listed PQL.

CERTIFICATE OF ANALYSIS

Volatile Organic Compounds by GC/MS
EPA Method 8260B

Client Information:

Client:	Conestoga Rover Associates 1351 Oakbrook Drive Norcross, GA 30093
Project Mgr:	Thom Lawrence

Laboratory Information:

Lab Number:	4-010558
Date Collected:	7/16-18/01
Date Received:	7/16-18/01
Date Analyzed:	7/16-18/01

Project Information:

Project:	Birdsong Peanut
Project No.:	
Collected by:	

Sample Information:

Sample Matrix:	Water
----------------	-------

SAMPLE ID	Vinyl Chloride ug/L	Dichloroethane ug/L	Dichloroethene ug/L	Trichloroethene ug/L	Tetrachloroethene ug/L	Surr. Rec (%)	Data Qual.
Method Blank	ND	ND	ND	ND	ND	99	
BH-1	ND	ND	ND	ND	ND	97	
BH-2	ND	ND	ND	ND	ND	105	
BH-3	ND	ND	ND	ND	108	107	
BH-5	ND	ND	ND	ND	ND	103	
BH-6	ND	ND	ND	ND	23.0	99	
BH-7	ND	ND	ND	ND	ND	96	
BH-8	ND	ND	ND	ND	118	89	
BH-9	ND	ND	ND	ND	ND	93	
BH-10	ND	ND	ND	ND	ND	102	

DATA QUALIFIERS:

*PQL - Practical Quantitation Limit

**Results listed as 'ND' were NOT DETECTED
at or above the listed PQL.

CHAIN-OF-CUSTODY RECORD

CLIENT: Conestoga Koppers Assoc.
 ADDRESS: 1351 Oakbrook Dr Ste 150
 CITY: Norcross STATE: GA ZIP: 30093
 PHONE: 770-441-0027 FAX: 770-441-2050
 CLIENT PROJECT #: _____ PROJECT MANAGER: _____

DATE: 7/16/01 PAGE 1 OF _____
 ESN PROJECT #: Birdsong Penut
 LOCATION: _____
 COLLECTOR: _____ DATE OF COLLECTION: _____

Sample Number	Depth	Time	Date	Sample Type	Container	ANALYSES													FIELD NOTES	Total Number Of Containers	Laboratory Note Number																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
						BTEX 8021B	VOA 8021B	VOA 624/8260B	Semi Vol 625/8270C	TPH 8015B (gasoline)	TPH 8015B (diesel)	PAH 610/8100 (g & d)	PEST/PCBs8081																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
BH-1 11	2'			Soil	4oz	X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								

RELINQUISHED BY: (Signature) _____ DATE/TIME _____ RECEIVED BY: (Signature) _____ DATE/TIME _____

RELINQUISHED BY: (Signature) _____ DATE/TIME _____ RECEIVED BY: (Signature) _____ DATE/TIME _____

SAMPLE DISPOSAL INSTRUCTIONS

☐ ESN DISPOSAL @ \$2.00 each ☐ Return ☐ Pickup

SAMPLE RECEIPT

TOTAL NUMBER OF CONTAINERS

CHAIN OF CUSTODY SEALS Y/N/NA

SEALS INTACT? Y/N/NA

RECEIVED GOOD CON./COLD

NOTES:

LABORATORY NOTES:

1 Sample

2 HLD

CHAIN-OF-CUSTODY RECORD

CLIENT: Conestoga Power Assoc
 ADDRESS: 1351 Oakbrook Dr Ste 150
 CITY: Norcross STATE: GA ZIP: 30093
 PHONE: 770-441-0027 FAX: 770-441-2050
 CLIENT PROJECT #: _____ PROJECT MANAGER: _____

DATE: 7/17/01 PAGE 1 OF _____
 ESN PROJECT #: _____
 LOCATION: Birdsong Peanut
 COLLECTOR: _____ DATE OF COLLECTION: _____

Sample Number	Depth	Time	Date	Sample Type	Container	ANALYSES												FIELD NOTES	Total Number Of Containers	Laboratory Note Number	
						BTEX 8021B	VOA 8021B	VOA 624/826DB	Semi Vol 625/827DC	TPH 8015B (gasoline)	TPH 8015B (diesel)	PAH 610/8100	PEST/PCB8081								
BH-4 (008)	1.5'			Soil	402	x													ND		
BH-4 (009)	10'			Soil	402	x													ND		
BH-5 (010)	1'			Soil	402	x													ND		
BH-5 (011)	7.5			Soil	402	x													ND		
BH-5 (012)	22			Soil	402	x													ND		
BH-5 (013)	1'			Water	VOA	x													ND		
BH-6 (014)	1'			Soil	402	x													ND		
PH-6 (015)	19.5			Soil	402	x													7.5 ppb PCE		
PH-6 (016)				Water	VOA	x													23 ppb PCE		
BH-7 (016)	1'			Soil	402	x													ND		
BH-7	15'			Soil	402	x													ND		
PH-7	15'			Water	VOA	x													ND		
BH-8	1'			Soil	402	x													ND		
PH-8	25.5			Soil	402	x													ND ^{PH} 21.3 ppb PCE		
PH-8				Water	VOA	x													118 ppb PCE		

RELINQUISHED BY: (Signature) _____ DATE/TIME _____ RECEIVED BY: (Signature) _____ DATE/TIME _____

RELINQUISHED BY: (Signature) _____ DATE/TIME _____ RECEIVED BY: (Signature) _____ DATE/TIME _____

SAMPLE DISPOSAL INSTRUCTIONS

☐ ESN DISPOSAL @ \$2.00 each ☐ Return ☐ Pickup

SAMPLE RECEIPT

TOTAL NUMBER OF CONTAINERS

CHAIN OF CUSTODY SEALS Y/N/NA

SEALS INTACT? Y/N/NA

RECEIVED GOOD CON./COLD

NOTES:

LABORATORY NOTES:

11 Soil
 4 Water

3600-C Kennesaw N. Ind. Pkwy. ■ Kennesaw, GA 30144 ■ 770-919-0805 ■ Fax 770-919-0806

CLIENT: Conestoga Rivers Assoc
ADDRESS: 1351 Oakbrook Drive Ste 150
CITY: Norcross STATE: GA ZIP: 30093
PHONE: 770-441-6027 FAX: 770-441-2050
CLIENT PROJECT #: _____ PROJECT MANAGER: _____

DATE: 7/10/01 PAGE 1 OF 1
ESN PROJECT #:
LOCATION: Bidsong Peanut
COLLECTOR: DATE OF COLLECTION:

[illegible]

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	DATE/TIME
------------------------------	-----------	--------------------------	-----------

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	DATE/TIME
------------------------------	-----------	--------------------------	-----------

SAMPLE DISPOSAL INSTRUCTIONS

☐ **ESN DISPOSAL @ \$2.00 each** ☐ **Return** ☐ **Pickup**

SAMPLE RECEIPT

TOTAL NUMBER OF CONTAINERSCHAIN OF CUSTODY SEALS Y/N/NASEALS INTACT? Y/N/NARECEIVED GOOD CON./COLD

NOTES:

LABORATORY NOTES:

450

SAMPLE COLLECTION DATA SHEET - GROUNDWATER SAMPLING PROGRAM

PROJECT NAME FFM CSR PROJECT NO. 18283-01

SAMPLING CREW MEMBERS DJB & TAL SUPERVISOR _____

DATE OF SAMPLE COLLECTION 8/2/01

[Note: For 2" dia. well, 1 ft. = 0.14 gal (imp) or 0.16 gal (us)]

Sample I.D. Number	Well Number	Measuring Point Elev. (ft. AMSL)	Bottom Depth (ft. btoc)	Water Depth (ft. btoc)	Water Elevation (ft. AMSL)	Well Volume (gallons)	Bailer Volume No. Bails	Volume Purged (gallons)	Field pH	Field Temp.	Field Cond.	Time	Sample Description & Analysis
101	MW-9												
102	MW-5												
103	MW-8												
104	MW-7D												
105	MW-6												
106	MW-4												
107	blank												

Additional Comments: _____

Copies to: _____

CRA

Case Narrative

Client Information:

Client: CONESTOGA-ROVERS
1351 Oakbrook Dr Ste. 150
Norcross, GA 30093
Project Mgr: Tom Lawrence

Client Project Information:

Project: 608 E. Main St.
Project No.:
Collected by: Tom Lawrence


Laboratory Project Information:

Lab Number: 030358-4
Date Collected: 4/24-25/03
Date Received: 4/24-25/03

Case Summary:

- 1) Samples were received in good condition and between 0 and 4°C.
- 2) Samples were analyzed following current EPA Methodologies and the standards of NELAP.
- 3) No QA/QC problems were encountered during the analysis of the samples.

Data Approved by:


Phillip Hathcock
Laboratory Technical Director

Date: 5/1/03

- * Estimated uncertainties for test results are found in laboratory SOPs and are available upon request.
- * ESN Southeast is certified/approved to conduct environmental analytical testing in the following states:
- * California #2121, Florida #990184, Tennessee, Alabama, Georgia.
- * ESN Southeast adheres to the standards set forth by the National Environmental Laboratory Accreditation Program (NELAP).

CERTIFICATE OF ANALYSIS

Volatile Organic Compounds by GC/MS
EPA Method 8260B

Client Information:

Client: CONESTOGA-ROVERS
1351 Oakbrook Dr Ste. 150
Norcross, GA 30093
Project Mgr: Tom Lawrence

Laboratory Information:

Lab Number: 030358-4
Date Collected:
Date Received:
Date Analyzed: 4/24/2003

Project Information:

Project: 608 E. Main St.
Colquitt, GA.
Project No.:
Collected by: Tom/ Sammy

Sample Information:

Sample ID: Method Blank
Sample Matrix: Soil

CONSTITUENT	PQL*	RESULTS	CONSTITUENT	PQL*	RESULTS
	mg/kg	mg/kg		mg/kg	mg/kg
Vinyl Chloride	0.005	ND	Bromodichloromethane	0.005	ND
Bromomethane	0.005	ND	Toluene	0.005	ND
Methyl-t-butyl ether (MTBE)	0.010	ND	1,1,2-Trichloroethane	0.005	ND
1,1-Dichloroethene	0.005	ND	Tetrachloroethene	0.005	ND
Methylene Chloride	0.005	ND	Dibromochloromethane	0.005	ND
trans-1,2-Dichloroethene	0.005	ND	Chlorobenzene	0.005	ND
1,1-Dichloroethane	0.005	ND	1,1,1,2-Tetrachloroethane	0.005	ND
cis-1,2-Dichloroethene	0.005	ND	Ethylbenzene	0.005	ND
Chloroform	0.005	ND	m & p-Xylene	0.010	ND
1,1,1-Trichloroethane	0.005	ND	o-Xylene	0.005	ND
1,2-Dichloroethane	0.005	ND	Bromoform	0.005	ND
Benzene	0.005	ND	1,1,2,2-Tetrachloroethane	0.005	ND
Trichloroethene	0.005	ND			

DATA QUALIFIERS:

*PQL - Practical Quantitation Limit

**Results listed as 'ND' were NOT DETECTED
at or above the listed PQL.

Surrogate Compounds	% Recovery
Dibromofluoromethane	125
Toluene-d8	97
4-Bromofluorobenzene	98

CERTIFICATE OF ANALYSIS

Volatile Organic Compounds by GC/MS
EPA Method 8260B

Client Information:

Client:	CONESTOGA-ROVERS
	1351 Oakbrook Dr Ste. 150
	Norcross, GA 30093
Project Mgr:	Tom Lawrence

Laboratory Information:

Lab Number:	030358-4
Date Collected:	4/24/2003
Date Received:	4/24/2003
Date Analyzed:	4/24/2003

Project Information:

Project:	608 E. Main St.
	Colquitt, GA.
Project No.:	
Collected by:	Tom/ Sammy

Sample Information:

Sample ID:	BH-11
	3-4'
Sample Matrix:	Soil

CONSTITUENT	PQL*	RESULTS	CONSTITUENT	PQL*	RESULTS
	mg/kg	mg/kg		mg/kg	mg/kg
Vinyl Chloride	0.005	ND	Bromodichloromethane	0.005	ND
Bromomethane	0.005	ND	Toluene	0.005	ND
Methyl-t-butyl ether (MTBE)	0.010	ND	1,1,2-Trichloroethane	0.005	ND
1,1-Dichloroethene	0.005	ND	Tetrachloroethene	0.005	ND
Methylene Chloride	0.005	ND	Dibromochloromethane	0.005	ND
trans-1,2-Dichloroethene	0.005	ND	Chlorobenzene	0.005	ND
1,1-Dichloroethane	0.005	ND	1,1,1,2-Tetrachloroethane	0.005	ND
cis-1,2-Dichloroethene	0.005	ND	Ethylbenzene	0.005	ND
Chloroform	0.005	ND	m & p-Xylene	0.010	ND
1,1,1-Trichloroethane	0.005	ND	o-Xylene	0.005	ND
1,2-Dichloroethane	0.005	ND	Bromoform	0.005	ND
Benzene	0.005	ND	1,1,2,2-Tetrachloroethane	0.005	ND
Trichloroethene	0.005	ND			

DATA QUALIFIERS:

*PQL - Practical Quantitation Limit

Results listed as 'ND' were **NOT DETECTED
at or above the listed PQL.

Surrogate Compounds	% Recovery
Dibromofluoromethane	115
Toluene-d8	100
4-Bromofluorobenzene	93

CERTIFICATE OF ANALYSIS

Volatile Organic Compounds by GC/MS
EPA Method 8260B

Client Information:

Client: CONESTOGA-ROVERS
1351 Oakbrook Dr Ste. 150
Norcross, GA 30093
Project Mgr: Tom Lawrence

Laboratory Information:

Lab Number: 030358-4
Date Collected: 4/24/2003
Date Received: 4/24/2003
Date Analyzed: 4/24/2003

Project Information:

Project: 608 E. Main St.
Colquitt, GA.
Project No.:
Collected by: Tom/ Sammy

Sample Information:

Sample ID: BH-11
7-8'
Sample Matrix: Soil

CONSTITUENT	PQL*	RESULTS	CONSTITUENT	PQL*	RESULTS
	mg/kg	mg/kg		mg/kg	mg/kg
Vinyl Chloride	0.005	ND	Bromodichloromethane	0.005	ND
Bromomethane	0.005	ND	Toluene	0.005	ND
Methyl-t-butyl ether (MTBE)	0.010	ND	1,1,2-Trichloroethane	0.005	ND
1,1-Dichloroethene	0.005	ND	Tetrachloroethene	0.005	ND
Methylene Chloride	0.005	ND	Dibromochloromethane	0.005	ND
trans-1,2-Dichloroethene	0.005	ND	Chlorobenzene	0.005	ND
1,1-Dichloroethane	0.005	ND	1,1,1,2-Tetrachloroethane	0.005	ND
cis-1,2-Dichloroethene	0.005	ND	Ethylbenzene	0.005	ND
Chloroform	0.005	ND	m & p -Xylene	0.010	ND
1,1,1-Trichloroethane	0.005	ND	o-Xylene	0.005	ND
1,2-Dichloroethane	0.005	ND	Bromoform	0.005	ND
Benzene	0.005	ND	1,1,2,2-Tetrachloroethane	0.005	ND
Trichloroethene	0.005	ND			

DATA QUALIFIERS:

*PQL - Practical Quantitation Limit

**Results listed as 'ND' were NOT DETECTED
at or above the listed PQL.

Surrogate Compounds	% Recovery
Dibromofluoromethane	119
Toluene-d8	109
4-Bromofluorobenzene	93

CERTIFICATE OF ANALYSIS

Volatile Organic Compounds by GC/MS
EPA Method 8260B

Client Information:

Client: CONESTOGA-ROVERS
1351 Oakbrook Dr Ste. 150
Norcross, GA 30093
Project Mgr: Tom Lawrence

Laboratory Information:

Lab Number: 030358-4
Date Collected: 4/24/2003
Date Received: 4/24/2003
Date Analyzed: 4/24/2003

Project Information:

Project: 608 E. Main St.
Colquitt, GA.
Project No.:
Collected by: Tom/ Sammy

Sample Information:

Sample ID: BH-12
3-4'
Sample Matrix: Soil

CONSTITUENT	PQL*	RESULTS	CONSTITUENT	PQL*	RESULTS
	mg/kg	mg/kg		mg/kg	mg/kg
Vinyl Chloride	0.005	ND	Bromodichloromethane	0.005	ND
Bromomethane	0.005	ND	Toluene	0.005	ND
Methyl-t-butyl ether (MTBE)	0.010	ND	1,1,2-Trichloroethane	0.005	ND
1,1-Dichloroethene	0.005	ND	Tetrachloroethene	0.005	ND
Methylene Chloride	0.005	ND	Dibromochloromethane	0.005	ND
trans-1,2-Dichloroethene	0.005	ND	Chlorobenzene	0.005	ND
1,1-Dichloroethane	0.005	ND	1,1,1,2-Tetrachloroethane	0.005	ND
cis-1,2-Dichloroethene	0.005	ND	Ethylbenzene	0.005	ND
Chloroform	0.005	ND	m & p-Xylene	0.010	ND
1,1,1-Trichloroethane	0.005	ND	o-Xylene	0.005	ND
1,2-Dichloroethane	0.005	ND	Bromoform	0.005	ND
Benzene	0.005	ND	1,1,2,2-Tetrachloroethane	0.005	ND
Trichloroethene	0.005	ND			

DATA QUALIFIERS:

*PQL - Practical Quantitation Limit

**Results listed as 'ND' were NOT DETECTED
at or above the listed PQL.

Surrogate Compounds	% Recovery
Dibromofluoromethane	117
Toluene-d8	85
4-Bromofluorobenzene	92

CERTIFICATE OF ANALYSIS

Volatile Organic Compounds by GC/MS
EPA Method 8260B

Client Information:

Client: **CONESTOGA-ROVERS**
1351 Oakbrook Dr Ste. 150
Norcross, GA 30093
Project Mgr: Tom Lawrence

Laboratory Information:

Lab Number: 030358-4
Date Collected: 4/24/2003
Date Received: 4/24/2003
Date Analyzed: 4/24/2003

Project Information:

Project: 608 E. Main St.
Colquitt, GA.
Project No.:
Collected by: Tom/ Sammy

Sample Information:

Sample ID: BH-12
7-8'
Sample Matrix: Soil

CONSTITUENT	PQL*	RESULTS	CONSTITUENT	PQL*	RESULTS
	mg/kg	mg/kg		mg/kg	mg/kg
Vinyl Chloride	0.005	ND	Bromodichloromethane	0.005	ND
Bromomethane	0.005	ND	Toluene	0.005	ND
Methyl-t-butyl ether (MTBE)	0.010	ND	1,1,2-Trichloroethane	0.005	ND
1,1-Dichloroethene	0.005	ND	Tetrachloroethene	0.005	ND
Methylene Chloride	0.005	ND	Dibromochloromethane	0.005	ND
trans-1,2-Dichloroethene	0.005	ND	Chlorobenzene	0.005	ND
1,1-Dichloroethane	0.005	ND	1,1,1,2-Tetrachloroethane	0.005	ND
cis-1,2-Dichloroethene	0.005	ND	Ethylbenzene	0.005	ND
Chloroform	0.005	ND	m&p-Xylene	0.010	ND
1,1,1-Trichloroethane	0.005	ND	o-Xylene	0.005	ND
1,2-Dichloroethane	0.005	ND	Bromoform	0.005	ND
Benzene	0.005	ND	1,1,2,2-Tetrachloroethane	0.005	ND
Trichloroethene	0.005	ND			

DATA QUALIFIERS:

*PQL - Practical Quantitation Limit

**Results listed as 'ND' were NOT DETECTED
at or above the listed PQL.

Surrogate Compounds	% Recovery
Dibromofluoromethane	116
Toluene-d8	83
4-Bromofluorobenzene	91

CERTIFICATE OF ANALYSIS

Volatile Organic Compounds by GC/MS
EPA Method 8260B

Client Information:

Client:	CONESTOGA-ROVERS
	1351 Oakbrook Dr Ste. 150
	Norcross, GA 30093
Project Mgr:	Tom Lawrence

Laboratory Information:

Lab Number:	030358-4
Date Collected:	4/24/2003
Date Received:	4/24/2003
Date Analyzed:	4/24/2003

Project Information:

Project:	608 E. Main St.
	Colquitt, GA.
Project No.:	
Collected by:	Tom/ Sammy

Sample Information:

Sample ID:	BH-13
	3-4'
Sample Matrix:	Soil

CONSTITUENT	PQL*	RESULTS	CONSTITUENT	PQL*	RESULTS
	mg/kg	mg/kg		mg/kg	mg/kg
Vinyl Chloride	0.005	ND	Bromodichloromethane	0.005	ND
Bromomethane	0.005	ND	Toluene	0.005	ND
Methyl-t-butyl ether (MTBE)	0.010	ND	1,1,2-Trichloroethane	0.005	ND
1,1-Dichloroethene	0.005	ND	Tetrachloroethene	0.005	ND
Methylene Chloride	0.005	ND	Dibromochloromethane	0.005	ND
trans-1,2-Dichloroethene	0.005	ND	Chlorobenzene	0.005	ND
1,1-Dichloroethane	0.005	ND	1,1,1,2-Tetrachloroethane	0.005	ND
cis-1,2-Dichloroethene	0.005	ND	Ethylbenzene	0.005	ND
Chloroform	0.005	ND	m&p-Xylene	0.010	ND
1,1,1-Trichloroethane	0.005	ND	o-Xylene	0.005	ND
1,2-Dichloroethane	0.005	ND	Bromoform	0.005	ND
Benzene	0.005	ND	1,1,2,2-Tetrachloroethane	0.005	ND
Trichloroethene	0.005	ND			

DATA QUALIFIERS:

*PQL - Practical Quantitation Limit

Results listed as 'ND' were **NOT DETECTED
at or above the listed PQL.

Surrogate Compounds	% Recovery
Dibromofluoromethane	126
Toluene-d8	86
4-Bromofluorobenzene	107

CERTIFICATE OF ANALYSIS

Volatile Organic Compounds by GC/MS
EPA Method 8260B

Client Information:

Client: CONESTOGA-ROVERS
1351 Oakbrook Dr Ste. 150
Norcross, GA 30093
Project Mgr: Tom Lawrence

Laboratory Information:

Lab Number: 030358-4
Date Collected: 4/24/2003
Date Received: 4/24/2003
Date Analyzed: 4/24/2003

Project Information:

Project: 608 E. Main St.
Colquitt, GA
Project No.:
Collected by: Tom/ Sammy

Sample Information:

Sample ID: BH-13
7-8'
Sample Matrix: Soil

CONSTITUENT	PQL*	RESULTS	CONSTITUENT	PQL*	RESULTS
	mg/kg	mg/kg		mg/kg	mg/kg
Vinyl Chloride	0.005	ND	Bromodichloromethane	0.005	ND
Bromomethane	0.005	ND	Toluene	0.005	ND
Methyl-t-butyl ether (MTBE)	0.010	ND	1,1,2-Trichloroethane	0.005	ND
1,1-Dichloroethene	0.005	ND	Tetrachloroethene	0.005	ND
Methylene Chloride	0.005	ND	Dibromochloromethane	0.005	ND
trans-1,2-Dichloroethene	0.005	ND	Chlorobenzene	0.005	ND
1,1-Dichloroethane	0.005	ND	1,1,1,2-Tetrachloroethane	0.005	ND
cis-1,2-Dichloroethene	0.005	ND	Ethylbenzene	0.005	ND
Chloroform	0.005	ND	m&p-Xylene	0.010	ND
1,1,1-Trichloroethane	0.005	ND	o-Xylene	0.005	ND
1,2-Dichloroethane	0.005	ND	Bromoform	0.005	ND
Benzene	0.005	ND	1,1,2,2-Tetrachloroethane	0.005	ND
Trichloroethene	0.005	ND			

DATA QUALIFIERS:

*PQL - Practical Quantitation Limit

**Results listed as 'ND' were NOT DETECTED
at or above the listed PQL.

Surrogate Compounds	% Recovery
Dibromofluoromethane	114
Toluene-d8	85
4-Bromofluorobenzene	105

CERTIFICATE OF ANALYSIS

Volatile Organic Compounds by GC/MS
EPA Method 8260B

Client Information:

Client:	CONESTOGA-ROVERS
	1351 Oakbrook Dr Ste. 150
	Norcross, GA 30093
Project Mgr:	Tom Lawrence

Laboratory Information:

Lab Number:	030358-4
Date Collected:	4/24/2003
Date Received:	4/24/2003
Date Analyzed:	4/24/2003

Project Information:

Project:	608 E. Main St.
	Colquitt, GA.
Project No.:	
Collected by:	Tom/ Sammy

Sample Information:

Sample ID:	BH-14
	3-4'
Sample Matrix:	Soil

CONSTITUENT	PQL*	RESULTS	CONSTITUENT	PQL*	RESULTS
	mg/kg	mg/kg		mg/kg	mg/kg
Vinyl Chloride	0.005	ND	Bromodichloromethane	0.005	ND
Bromomethane	0.005	ND	Toluene	0.005	ND
Methyl-t-butyl ether (MTBE)	0.010	ND	1,1,2-Trichloroethane	0.005	ND
1,1-Dichloroethene	0.005	ND	Tetrachloroethene	0.005	ND
Methylene Chloride	0.005	ND	Dibromochloromethane	0.005	ND
trans-1,2-Dichloroethene	0.005	ND	Chlorobenzene	0.005	ND
1,1-Dichloroethane	0.005	ND	1,1,1,2-Tetrachloroethane	0.005	ND
cis-1,2-Dichloroethene	0.005	ND	Ethylbenzene	0.005	ND
Chloroform	0.005	ND	m & p -Xylene	0.010	ND
1,1,1-Trichloroethane	0.005	ND	o-Xylene	0.005	ND
1,2-Dichloroethane	0.005	ND	Bromoform	0.005	ND
Benzene	0.005	ND	1,1,2,2-Tetrachloroethane	0.005	ND
Trichloroethene	0.005	ND			

DATA QUALIFIERS:

*PQL - Practical Quantitation Limit

**Results listed as 'ND' were NOT DETECTED
at or above the listed PQL.

Surrogate Compounds	% Recovery
Dibromofluoromethane	128
Toluene-d8	89
4-Bromofluorobenzene	91

CERTIFICATE OF ANALYSIS

Volatile Organic Compounds by GC/MS
EPA Method 8260B

Client Information:

Client: CONESTOGA-ROVERS
1351 Oakbrook Dr Ste. 150
Norcross, GA 30093
Project Mgr: Tom Lawrence

Laboratory Information:

Lab Number: 030358-4
Date Collected: 4/24/2003
Date Received: 4/24/2003
Date Analyzed: 4/24/2003

Project Information:

Project: 608 E. Main St.
Colquitt, GA.
Project No.:
Collected by: Tom/ Sammy

Sample Information:

Sample ID: BH-14
7-8'
Sample Matrix: Soil

CONSTITUENT	PQL*	RESULTS	CONSTITUENT	PQL*	RESULTS
	mg/kg	mg/kg		mg/kg	mg/kg
Vinyl Chloride	0.005	ND	Bromodichloromethane	0.005	ND
Bromomethane	0.005	ND	Toluene	0.005	ND
Methyl-t-butyl ether (MTBE)	0.010	ND	1,1,2-Trichloroethane	0.005	ND
1,1-Dichloroethene	0.005	ND	Tetrachloroethene	0.005	ND
Methylene Chloride	0.005	ND	Dibromochloromethane	0.005	ND
trans-1,2-Dichloroethene	0.005	ND	Chlorobenzene	0.005	ND
1,1-Dichloroethane	0.005	ND	1,1,1,2-Tetrachloroethane	0.005	ND
cis-1,2-Dichloroethene	0.005	ND	Ethylbenzene	0.005	ND
Chloroform	0.005	ND	m & p -Xylene	0.010	ND
1,1,1-Trichloroethane	0.005	ND	o-Xylene	0.005	ND
1,2-Dichloroethane	0.005	ND	Bromoform	0.005	ND
Benzene	0.005	ND	1,1,2,2-Tetrachloroethane	0.005	ND
Trichloroethene	0.005	ND			

DATA QUALIFIERS:

*PQL - Practical Quantitation Limit

**Results listed as 'ND' were NOT DETECTED
at or above the listed PQL.

Surrogate Compounds	% Recovery
Dibromofluoromethane	115
Toluene-d8	86
4-Bromofluorobenzene	87

CERTIFICATE OF ANALYSIS

Volatile Organic Compounds by GC/MS
EPA Method 8260B

Client Information:

Client: **CONESTOGA-ROVERS**
1351 Oakbrook Dr Ste. 150
Norcross, GA 30093
Project Mgr: Tom Lawrence

Laboratory Information:

Lab Number: 030358-4
Date Collected: 4/24/2003
Date Received: 4/24/2003
Date Analyzed: 4/24/2003

Project Information:

Project: 608 E. Main St.
Colquitt, GA.
Project No.:
Collected by: Tom/ Sammy

Sample Information:

Sample ID: BH-15
3-4'
Sample Matrix: Soil

CONSTITUENT	PQL*	RESULTS	CONSTITUENT	PQL*	RESULTS
	mg/kg	mg/kg		mg/kg	mg/kg
Vinyl Chloride	0.005	ND	Bromodichloromethane	0.005	ND
Bromomethane	0.005	ND	Toluene	0.005	ND
Methyl-t-butyl ether (MTBE)	0.010	ND	1,1,2-Trichloroethane	0.005	ND
1,1-Dichloroethene	0.005	ND	Tetrachloroethene	0.005	ND
Methylene Chloride	0.005	ND	Dibromochloromethane	0.005	ND
trans-1,2-Dichloroethene	0.005	ND	Chlorobenzene	0.005	ND
1,1-Dichloroethane	0.005	ND	1,1,1,2-Tetrachloroethane	0.005	ND
cis-1,2-Dichloroethene	0.005	ND	Ethylbenzene	0.005	ND
Chloroform	0.005	ND	m & p -Xylene	0.010	ND
1,1,1-Trichloroethane	0.005	ND	o-Xylene	0.005	ND
1,2-Dichloroethane	0.005	ND	Bromoform	0.005	ND
Benzene	0.005	ND	1,1,2,2-Tetrachloroethane	0.005	ND
Trichloroethene	0.005	ND			

DATA QUALIFIERS:

*PQL - Practical Quantitation Limit

**Results listed as 'ND' were NOT DETECTED
at or above the listed PQL.

Surrogate Compounds	% Recovery
Dibromofluoromethane	124
Toluene-d8	86
4-Bromofluorobenzene	90

CERTIFICATE OF ANALYSIS

Volatile Organic Compounds by GC/MS
EPA Method 8260B

Client Information:

Client:	CONESTOGA-ROVERS
	1351 Oakbrook Dr Ste. 150
	Norcross, GA 30093
Project Mgr:	Tom Lawrence

Laboratory Information:

Lab Number:	030358-4
Date Collected:	4/24/2003
Date Received:	4/24/2003
Date Analyzed:	4/24/2003

Project Information:

Project:	608 E. Main St.
	Colquitt, GA.
Project No.:	
Collected by:	Tom/ Sammy

Sample Information:

Sample ID:	BH-16
	3-4'
Sample Matrix:	Soil

CONSTITUENT	PQL*	RESULTS	CONSTITUENT	PQL*	RESULTS
	mg/kg	mg/kg		mg/kg	mg/kg
Vinyl Chloride	0.005	ND	Bromodichloromethane	0.005	ND
Bromomethane	0.005	ND	Toluene	0.005	ND
Methyl-t-butyl ether (MTBE)	0.010	ND	1,1,2-Trichloroethane	0.005	ND
1,1-Dichloroethene	0.005	ND	Tetrachloroethene	0.005	ND
Methylene Chloride	0.005	ND	Dibromochloromethane	0.005	ND
trans-1,2-Dichloroethene	0.005	ND	Chlorobenzene	0.005	ND
1,1-Dichloroethane	0.005	ND	1,1,1,2-Tetrachloroethane	0.005	ND
cis-1,2-Dichloroethene	0.005	ND	Ethylbenzene	0.005	ND
Chloroform	0.005	ND	m&p-Xylene	0.010	ND
1,1,1-Trichloroethane	0.005	ND	o-Xylene	0.005	ND
1,2-Dichloroethane	0.005	ND	Bromoform	0.005	ND
Benzene	0.005	ND	1,1,2,2-Tetrachloroethane	0.005	ND
Trichloroethene	0.005	ND			

DATA QUALIFIERS:

*PQL - Practical Quantitation Limit

**Results listed as 'ND' were NOT DETECTED
at or above the listed PQL.

Surrogate Compounds	% Recovery
Dibromofluoromethane	110
Toluene-d8	91
4-Bromofluorobenzene	92

CERTIFICATE OF ANALYSIS

Volatile Organic Compounds by GC/MS

EPA Method 8260B

Client Information:

Client:	CONESTOGA-ROVERS
	1351 Oakbrook Dr Ste. 150
	Norcross, GA 30093
Project Mgr:	Tom Lawrence

Laboratory Information:

Lab Number:	030358-4
Date Collected:	4/24/2003
Date Received:	4/24/2003
Date Analyzed:	4/24/2003

Project Information:

Project:	608 E. Main St.
	Colquitt, GA.
Project No.:	
Collected by:	Tom/ Sammy

Sample Information:

Sample ID:	BH-16
	7-8'
Sample Matrix:	Soil

CONSTITUENT	PQL*	RESULTS	CONSTITUENT	PQL*	RESULTS
	mg/kg	mg/kg		mg/kg	mg/kg
Vinyl Chloride	0.005	ND	Bromodichloromethane	0.005	ND
Bromomethane	0.005	ND	Toluene	0.005	ND
Methyl-t-butyl ether (MTBE)	0.010	ND	1,1,2-Trichloroethane	0.005	ND
1,1-Dichloroethene	0.005	ND	Tetrachloroethene	0.005	ND
Methylene Chloride	0.005	ND	Dibromochloromethane	0.005	ND
trans-1,2-Dichloroethene	0.005	ND	Chlorobenzene	0.005	ND
1,1-Dichloroethane	0.005	ND	1,1,1,2-Tetrachloroethane	0.005	ND
cis-1,2-Dichloroethene	0.005	ND	Ethylbenzene	0.005	ND
Chloroform	0.005	ND	m & p -Xylene	0.010	ND
1,1,1-Trichloroethane	0.005	ND	o -Xylene	0.005	ND
1,2-Dichloroethane	0.005	ND	Bromoform	0.005	ND
Benzene	0.005	ND	1,1,2,2-Tetrachloroethane	0.005	ND
Trichloroethene	0.005	ND			

DATA QUALIFIERS:

*PQL - Practical Quantitation Limit

Results listed as 'ND' were **NOT DETECTED
at or above the listed PQL.

Surrogate Compounds	% Recovery
Dibromofluoromethane	125
Toluene-d8	91
4-Bromofluorobenzene	97

CERTIFICATE OF ANALYSIS

Volatile Organic Compounds by GC/MS
EPA Method 8260B

Client Information:

Client: CONESTOGA-ROVERS
1351 Oakbrook Dr Ste. 150
Norcross, GA 30093
Project Mgr: Tom Lawrence

Laboratory Information:

Lab Number: 030358-4
Date Collected:
Date Received:
Date Analyzed: 4/25/2003

Project Information:

Project: 608 E. Main St.
Colquitt, GA.
Project No.:
Collected by: Tom/ Sammy

Sample Information:

Sample ID: Method Blank
Sample Matrix: Soil

CONSTITUENT	PQL* mg/kg	RESULTS mg/kg	CONSTITUENT	PQL* mg/kg	RESULTS mg/kg
Vinyl Chloride	0.005	ND	Bromodichloromethane	0.005	ND
Bromomethane	0.005	ND	Toluene	0.005	ND
Methyl-t-butyl ether (MTBE)	0.010	ND	1,1,2-Trichloroethane	0.005	ND
1,1-Dichloroethene	0.005	ND	Tetrachloroethene	0.005	ND
Methylene Chloride	0.005	ND	Dibromochloromethane	0.005	ND
trans-1,2-Dichloroethene	0.005	ND	Chlorobenzene	0.005	ND
1,1-Dichloroethane	0.005	ND	1,1,1,2-Tetrachloroethane	0.005	ND
cis-1,2-Dichloroethene	0.005	ND	Ethylbenzene	0.005	ND
Chloroform	0.005	ND	m & p-Xylene	0.010	ND
1,1,1-Trichloroethane	0.005	ND	o-Xylene	0.005	ND
1,2-Dichloroethane	0.005	ND	Bromoform	0.005	ND
Benzene	0.005	ND	1,1,2,2-Tetrachloroethane	0.005	ND
Trichloroethene	0.005	ND			

DATA QUALIFIERS:

*PQL - Practical Quantitation Limit

**Results listed as 'ND' were NOT DETECTED
at or above the listed PQL.

Surrogate Compounds	% Recovery
Dibromofluoromethane	121
Toluene-d8	96
4-Bromofluorobenzene	113

CERTIFICATE OF ANALYSIS

Volatile Organic Compounds by GC/MS
EPA Method 8260B

Client Information:

Client: CONESTOGA-ROVERS
1351 Oakbrook Dr Ste. 150
Norcross, GA 30093
Project Mgr: Tom Lawrence

Laboratory Information:

Lab Number: 030358-4
Date Collected: 4/25/2003
Date Received: 4/25/2003
Date Analyzed: 4/25/2003

Project Information:

Project: 608 E. Main St.
Colquitt, GA.
Project No.:
Collected by: Tom/ Sammy

Sample Information:

Sample ID: BH-17
3-4'
Sample Matrix: Soil

CONSTITUENT	PQL*	RESULTS	CONSTITUENT	PQL*	RESULTS
	mg/kg	mg/kg		mg/kg	mg/kg
Vinyl Chloride	0.005	ND	Bromodichloromethane	0.005	ND
Bromomethane	0.005	ND	Toluene	0.005	ND
Methyl-t-butyl ether (MTBE)	0.010	ND	1,1,2-Trichloroethane	0.005	ND
1,1-Dichloroethene	0.005	ND	Tetrachloroethene	0.005	ND
Methylene Chloride	0.005	ND	Dibromochloromethane	0.005	ND
trans-1,2-Dichloroethene	0.005	ND	Chlorobenzene	0.005	ND
1,1-Dichloroethane	0.005	ND	1,1,1,2-Tetrachloroethane	0.005	ND
cis-1,2-Dichloroethene	0.005	ND	Ethylbenzene	0.005	ND
Chloroform	0.005	ND	m&p-Xylene	0.010	ND
1,1,1-Trichloroethane	0.005	ND	o-Xylene	0.005	ND
1,2-Dichloroethane	0.005	ND	Bromoform	0.005	ND
Benzene	0.005	ND	1,1,2,2-Tetrachloroethane	0.005	ND
Trichloroethene	0.005	ND			

DATA QUALIFIERS:

*PQL - Practical Quantitation Limit

**Results listed as 'ND' were NOT DETECTED
at or above the listed PQL.

Surrogate Compounds	% Recovery
Dibromofluoromethane	121
Toluene-d8	83
4-Bromofluorobenzene	108

CERTIFICATE OF ANALYSIS

Volatile Organic Compounds by GC/MS
EPA Method 8260B

Client Information:

Client:	CONESTOGA-ROVERS
	1351 Oakbrook Dr Ste. 150
	Norcross, GA 30093
Project Mgr:	Tom Lawrence

Laboratory Information:

Lab Number:	030358-4
Date Collected:	4/25/2003
Date Received:	4/25/2003
Date Analyzed:	4/25/2003

Project Information:

Project:	608 E. Main St.
	Colquitt, GA.
Project No.:	
Collected by:	Tom/ Sammy

Sample Information:

Sample ID:	BH-17
	7-8'
Sample Matrix:	Soil

CONSTITUENT	PQL*	RESULTS	CONSTITUENT	PQL*	RESULTS
	mg/kg	mg/kg		mg/kg	mg/kg
Vinyl Chloride	0.005	ND	Bromodichloromethane	0.005	ND
Bromomethane	0.005	ND	Toluene	0.005	ND
Methyl-t-butyl ether (MTBE)	0.010	ND	1,1,2-Trichloroethane	0.005	ND
1,1-Dichloroethene	0.005	ND	Tetrachloroethene	0.005	ND
Methylene Chloride	0.005	ND	Dibromochloromethane	0.005	ND
trans-1,2-Dichloroethene	0.005	ND	Chlorobenzene	0.005	ND
1,1-Dichloroethane	0.005	ND	1,1,1,2-Tetrachloroethane	0.005	ND
cis-1,2-Dichloroethene	0.005	ND	Ethylbenzene	0.005	ND
Chloroform	0.005	ND	m & p -Xylene	0.010	ND
1,1,1-Trichloroethane	0.005	ND	o-Xylene	0.005	ND
1,2-Dichloroethane	0.005	ND	Bromoform	0.005	ND
Benzene	0.005	ND	1,1,2,2-Tetrachloroethane	0.005	ND
Trichloroethene	0.005	ND			

DATA QUALIFIERS:

*PQL - Practical Quantitation Limit

**Results listed as 'ND' were NOT DETECTED

Surrogate Compounds	% Recovery
Dibromofluoromethane	123
Toluene-d8	94
4-Bromofluorobenzene	110

CERTIFICATE OF ANALYSIS

Volatile Organic Compounds by GC/MS
EPA Method 8260B

Client Information:

Client:	CONESTOGA-ROVERS
	1351 Oakbrook Dr Ste. 150
	Norcross, GA 30093
Project Mgr:	Tom Lawrence

Laboratory Information:

Lab Number:	030358-4
Date Collected:
Date Received:
Date Analyzed:	4/24/2003

Project Information:

Project:	608 E. Main St.
	Colquitt, GA.
Project No.:	
Collected by:	Tom/ Sammy

Sample Information:

Sample ID:	Method Blank
Sample Matrix:	Water

CONSTITUENT	PQL*	RESULTS	CONSTITUENT	PQL*	RESULTS
	ug/L	ug/L		ug/L	ug/L
Vinyl Chloride	1.0	ND	Bromodichloromethane	1.0	ND
Bromomethane	1.0	ND	Toluene	1.0	ND
Methyl-t-butyl ether (MTBE)	10.0	ND	1,1,2-Trichloroethane	1.0	ND
1,1-Dichloroethene	1.0	ND	Tetrachloroethene	1.0	ND
Methylene Chloride	1.0	ND	Dibromochloromethane	1.0	ND
trans-1,2-Dichloroethene	1.0	ND	Chlorobenzene	1.0	ND
1,1-Dichloroethane	1.0	ND	1,1,1,2-Tetrachloroethane	1.0	ND
cis-1,2-Dichloroethene	1.0	ND	Ethylbenzene	1.0	ND
Chloroform	1.0	ND	m & p-Xylene	2.0	ND
1,1,1-Trichloroethane	1.0	ND	o-Xylene	1.0	ND
1,2-Dichloroethane	1.0	ND	Bromoform	1.0	ND
Benzene	1.0	ND	1,1,2,2-Tetrachloroethane	1.0	ND
Trichloroethene	1.0	ND			

DATA QUALIFIERS:

*PQL - Practical Quantitation Limit

**Results listed as 'ND' were NOT DETECTED
at or above the listed PQL.

Surrogate Compounds % Recovery

Dibromofluoromethane	125
Toluene-d8	97
4-Bromofluorobenzene	98

CERTIFICATE OF ANALYSIS

Volatile Organic Compounds by GC/MS
EPA Method 8260B

Client Information:

Client: **CONESTOGA-ROVERS**
1351 Oakbrook Dr Ste. 150
Norcross, GA 30093
Project Mgr: Tom Lawrence

Laboratory Information:

Lab Number: 030358-4
Date Collected: 4/24/2003
Date Received: 4/24/2003
Date Analyzed: 4/24/2003

Project Information:

Project: 608 E. Main St.
Colquitt, GA.
Project No.:
Collected by: Tom/ Sammy

Sample Information:

Sample ID: BH-11
Sample Matrix: Water

CONSTITUENT	PQL*	RESULTS	CONSTITUENT	PQL*	RESULTS
	ug/L	ug/L		ug/L	ug/L
Vinyl Chloride	1.0	ND	Bromodichloromethane	1.0	ND
Bromomethane	1.0	ND	Toluene	1.0	ND
Methyl-t-butyl ether (MTBE)	10.0	ND	1,1,2-Trichloroethane	1.0	ND
1,1-Dichloroethene	1.0	ND	Tetrachloroethene	1.0	ND
Methylene Chloride	1.0	ND	Dibromochloromethane	1.0	ND
trans-1,2-Dichloroethene	1.0	ND	Chlorobenzene	1.0	ND
1,1-Dichloroethane	1.0	ND	1,1,1,2-Tetrachloroethane	1.0	ND
cis-1,2-Dichloroethene	1.0	ND	Ethylbenzene	1.0	ND
Chloroform	1.0	ND	m & p -Xylene	2.0	ND
1,1,1-Trichloroethane	1.0	ND	o-Xylene	1.0	ND
1,2-Dichloroethane	1.0	ND	Bromoform	1.0	ND
Benzene	1.0	ND	1,1,2,2-Tetrachloroethane	1.0	ND
Trichloroethene	1.0	ND			

DATA QUALIFIERS:

*PQL - Practical Quantitation Limit

Results listed as 'ND' were **NOT DETECTED
at or above the listed PQL.

Surrogate Compounds % Recovery

Dibromofluoromethane	106
Toluene-d8	112
4-Bromofluorobenzene	109

CERTIFICATE OF ANALYSIS

Volatile Organic Compounds by GC/MS
EPA Method 8260B

Client Information:

Client:	CONESTOGA-ROVERS
	1351 Oakbrook Dr Ste. 150
	Norcross, GA 30093
Project Mgr:	Tom Lawrence

Laboratory Information:

Lab Number:	030358-4
Date Collected:	4/24/2003
Date Received:	4/24/2003
Date Analyzed:	4/24/2003

Project Information:

Project:	608 E. Main St.
	Colquitt, GA.
Project No.:	
Collected by:	Tom/ Sammy

Sample Information:

Sample ID:	BH-12
Sample Matrix:	Water

CONSTITUENT	PQL*	RESULTS	CONSTITUENT	PQL*	RESULTS
	ug/L	ug/L		ug/L	ug/L
Vinyl Chloride	1.0	ND	Bromodichloromethane	1.0	ND
Bromomethane	1.0	ND	Toluene	1.0	ND
Methyl-t-butyl ether (MTBE)	10.0	ND	1,1,2-Trichloroethane	1.0	ND
1,1-Dichloroethene	1.0	ND	Tetrachloroethene	1.0	8.8
Methylene Chloride	1.0	ND	Dibromochloromethane	1.0	ND
trans-1,2-Dichloroethene	1.0	ND	Chlorobenzene	1.0	ND
1,1-Dichloroethane	1.0	ND	1,1,1,2-Tetrachloroethane	1.0	ND
cis-1,2-Dichloroethene	1.0	ND	Ethylbenzene	1.0	ND
Chloroform	1.0	ND	m&p-Xylene	2.0	ND
1,1,1-Trichloroethane	1.0	ND	o-Xylene	1.0	ND
1,2-Dichloroethane	1.0	ND	Bromoform	1.0	ND
Benzene	1.0	ND	1,1,2,2-Tetrachloroethane	1.0	ND
Trichloroethene	1.0	ND			

DATA QUALIFIERS:

*PQL - Practical Quantitation Limit

**Results listed as 'ND' were NOT DETECTED
at or above the listed PQL.

Surrogate Compounds % Recovery

Dibromofluoromethane	119
Toluene-d8	115
4-Bromofluorobenzene	102

CERTIFICATE OF ANALYSIS

Volatile Organic Compounds by GC/MS

EPA Method 8260B

Client Information:

Client:	CONESTOGA-ROVERS
	1351 Oakbrook Dr Ste. 150
	Norcross, GA 30093
Project Mgr:	Tom Lawrence

Laboratory Information:

Lab Number:	030358-4
Date Collected:	4/24/2003
Date Received:	4/24/2003
Date Analyzed:	4/24/2003

Project Information:

Project:	608 E. Main St.
	Colquitt, GA.
Project No.:	
Collected by:	Tom/ Sammy

Sample Information:

Sample ID:	BH-13
Sample Matrix:	Water

CONSTITUENT	PQL*	RESULTS	CONSTITUENT	PQL*	RESULTS
	ug/L	ug/L		ug/L	ug/L
Vinyl Chloride	1.0	ND	Bromodichloromethane	1.0	ND
Bromomethane	1.0	ND	Toluene	1.0	ND
Methyl-t-butyl ether (MTBE)	10.0	ND	1,1,2-Trichloroethane	1.0	ND
1,1-Dichloroethene	1.0	ND	Tetrachloroethene	1.0	1.2
Methylene Chloride	1.0	ND	Dibromochloromethane	1.0	ND
trans-1,2-Dichloroethene	1.0	ND	Chlorobenzene	1.0	ND
1,1-Dichloroethane	1.0	ND	1,1,1,2-Tetrachloroethane	1.0	ND
cis-1,2-Dichloroethene	1.0	ND	Ethylbenzene	1.0	ND
Chloroform	1.0	ND	m&p-Xylene	2.0	ND
1,1,1-Trichloroethane	1.0	ND	o-Xylene	1.0	ND
1,2-Dichloroethane	1.0	ND	Bromoform	1.0	ND
Benzene	1.0	ND	1,1,2,2-Tetrachloroethane	1.0	ND
Trichloroethene	1.0	ND			

DATA QUALIFIERS:

*PQL - Practical Quantitation Limit

Results listed as 'ND' were **NOT DETECTED
at or above the listed PQL.

Surrogate Compounds % Recovery

Dibromofluoromethane	117
Toluene-d8	105
4-Bromofluorobenzene	99

CERTIFICATE OF ANALYSIS

Volatile Organic Compounds by GC/MS
EPA Method 8260B

Client Information:

Client: CONESTOGA-ROVERS
1351 Oakbrook Dr Ste. 150
Norcross, GA 30093
Project Mgr: Tom Lawrence

Laboratory Information:

Lab Number: 030358-4
Date Collected: 4/24/2003
Date Received: 4/24/2003
Date Analyzed: 4/24/2003

Project Information:

Project: 608 E. Main St.
Colquitt, GA.
Project No.:
Collected by: Tom/ Sammy

Sample Information:

Sample ID: BH-14
Sample Matrix: Water

CONSTITUENT	PQL*	RESULTS	CONSTITUENT	PQL*	RESULTS
	ug/L	ug/L		ug/L	ug/L
Vinyl Chloride	1.0	ND	Bromodichloromethane	1.0	ND
Bromomethane	1.0	ND	Toluene	1.0	ND
Methyl-t-butyl ether (MTBE)	10.0	ND	1,1,2-Trichloroethane	1.0	ND
1,1-Dichloroethene	1.0	ND	Tetrachloroethene	1.0	1.8
Methylene Chloride	1.0	ND	Dibromochloromethane	1.0	ND
trans-1,2-Dichloroethene	1.0	ND	Chlorobenzene	1.0	ND
1,1-Dichloroethane	1.0	ND	1,1,1,2-Tetrachloroethane	1.0	ND
cis-1,2-Dichloroethene	1.0	ND	Ethylbenzene	1.0	ND
Chloroform	1.0	ND	m & p -Xylene	2.0	ND
1,1,1-Trichloroethane	1.0	ND	o-Xylene	1.0	ND
1,2-Dichloroethane	1.0	ND	Bromoform	1.0	ND
Benzene	1.0	ND	1,1,2,2-Tetrachloroethane	1.0	ND
Trichloroethene	1.0	ND			

DATA QUALIFIERS:

*PQL - Practical Quantitation Limit

Results listed as 'ND' were **NOT DETECTED
at or above the listed PQL.

Surrogate Compounds	% Recovery
Dibromofluoromethane	115
Toluene-d8	106
4-Bromofluorobenzene	92

CERTIFICATE OF ANALYSIS

Volatile Organic Compounds by GC/MS
EPA Method 8260B

Client Information:

Client: CONESTOGA-ROVERS
1351 Oakbrook Dr Ste. 150
Norcross, GA 30093
Project Mgr: Tom Lawrence

Laboratory Information:

Lab Number: 030358-4
Date Collected: 4/24/2003
Date Received: 4/24/2003
Date Analyzed: 4/24/2003

Project Information:

Project: 608 E. Main St.
Colquitt, GA.
Project No.:
Collected by: Tom/ Sammy

Sample Information:

Sample ID: BH-16
Sample Matrix: Water

CONSTITUENT	PQL*	RESULTS	CONSTITUENT	PQL*	RESULTS
	ug/L	ug/L		ug/L	ug/L
Vinyl Chloride	1.0	ND	Bromodichloromethane	1.0	ND
Bromomethane	1.0	ND	Toluene	1.0	ND
Methyl-t-butyl ether (MTBE)	10.0	ND	1,1,2-Trichloroethane	1.0	ND
1,1-Dichloroethene	1.0	ND	Tetrachloroethene	1.0	4.2
Methylene Chloride	1.0	ND	Dibromochloromethane	1.0	ND
trans-1,2-Dichloroethene	1.0	ND	Chlorobenzene	1.0	ND
1,1-Dichloroethane	1.0	ND	1,1,1,2-Tetrachloroethane	1.0	ND
cis-1,2-Dichloroethene	1.0	ND	Ethylbenzene	1.0	ND
Chloroform	1.0	ND	m&p-Xylene	2.0	ND
1,1,1-Trichloroethane	1.0	ND	o-Xylene	1.0	ND
1,2-Dichloroethane	1.0	ND	Bromoform	1.0	ND
Benzene	1.0	ND	1,1,2,2-Tetrachloroethane	1.0	ND
Trichloroethene	1.0	ND			

DATA QUALIFIERS:

*PQL - Practical Quantitation Limit

**Results listed as 'ND' were NOT DETECTED
at or above the listed PQL.

Surrogate Compounds % Recovery

Dibromofluoromethane	122
Toluene-d8	92
4-Bromofluorobenzene	107

CERTIFICATE OF ANALYSIS

Volatile Organic Compounds by GC/MS
EPA Method 8260B

Client Information:

Client: **CONESTOGA-ROVERS**
1351 Oakbrook Dr Ste. 150
Norcross, GA 30093
Project Mgr: Tom Lawrence

Laboratory Information:

Lab Number: 030358-4
Date Collected:
Date Received:
Date Analyzed: 4/25/2003

Project Information:

Project: 608 E. Main St.
Colquitt, GA.
Project No.:
Collected by: Tom/ Sammy

Sample Information:

Sample ID: Method Blank
Sample Matrix: Water

CONSTITUENT	PQL*	RESULTS	CONSTITUENT	PQL*	RESULTS
	ug/L	ug/L		ug/L	ug/L
Vinyl Chloride	1.0	ND	Bromodichloromethane	1.0	ND
Bromomethane	1.0	ND	Toluene	1.0	ND
Methyl-t-butyl ether (MTBE)	10.0	ND	1,1,2-Trichloroethane	1.0	ND
1,1-Dichloroethene	1.0	ND	Tetrachloroethene	1.0	ND
Methylene Chloride	1.0	ND	Dibromochloromethane	1.0	ND
trans-1,2-Dichloroethene	1.0	ND	Chlorobenzene	1.0	ND
1,1-Dichloroethane	1.0	ND	1,1,1,2-Tetrachloroethane	1.0	ND
cis-1,2-Dichloroethene	1.0	ND	Ethylbenzene	1.0	ND
Chloroform	1.0	ND	m&p-Xylene	2.0	ND
1,1,1-Trichloroethane	1.0	ND	o-Xylene	1.0	ND
1,2-Dichloroethane	1.0	ND	Bromoform	1.0	ND
Benzene	1.0	ND	1,1,2,2-Tetrachloroethane	1.0	ND
Trichloroethene	1.0	ND			

DATA QUALIFIERS:

*PQL - Practical Quantitation Limit

Results listed as 'ND' were **NOT DETECTED
at or above the listed PQL.

Surrogate Compounds % Recovery

Dibromofluoromethane	121
Toluene-d8	96
4-Bromofluorobenzene	113

CERTIFICATE OF ANALYSIS

Volatile Organic Compounds by GC/MS
EPA Method 8260B

Client Information:

Client: **CONESTOGA-ROVERS**
1351 Oakbrook Dr Ste. 150
Norcross, GA 30093
Project Mgr: Tom Lawrence

Laboratory Information:

Lab Number: 030358-4
Date Collected: 4/25/2003
Date Received: 4/25/2003
Date Analyzed: 4/25/2003

Project Information:

Project: 608 E. Main St.
Colquitt, GA.
Project No.:
Collected by: Tom/ Sammy

Sample Information:

Sample ID: BH-17
Sample Matrix: Water

CONSTITUENT	PQL*	RESULTS	CONSTITUENT	PQL*	RESULTS
	ug/L	ug/L		ug/L	ug/L
Vinyl Chloride	1.0	ND	Bromodichloromethane	1.0	ND
Bromomethane	1.0	ND	Toluene	1.0	ND
Methyl-t-butyl ether (MTBE)	10.0	ND	1,1,2-Trichloroethane	1.0	ND
1,1-Dichloroethene	1.0	ND	Tetrachloroethene	1.0	48.7
Methylene Chloride	1.0	ND	Dibromochloromethane	1.0	ND
trans-1,2-Dichloroethene	1.0	ND	Chlorobenzene	1.0	ND
1,1-Dichloroethane	1.0	ND	1,1,1,2-Tetrachloroethane	1.0	ND
cis-1,2-Dichloroethene	1.0	ND	Ethylbenzene	1.0	ND
Chloroform	1.0	ND	m&p-Xylene	2.0	ND
1,1,1-Trichloroethane	1.0	ND	o-Xylene	1.0	ND
1,2-Dichloroethane	1.0	ND	Bromoform	1.0	ND
Benzene	1.0	ND	1,1,2,2-Tetrachloroethane	1.0	ND
Trichloroethene	1.0	ND			

DATA QUALIFIERS:

*PQL - Practical Quantitation Limit

**Results listed as 'ND' were NOT DETECTED
at or above the listed PQL.

Surrogate Compounds % Recovery

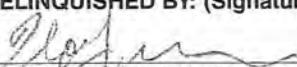
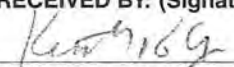
Dibromofluoromethane	109
Toluene-d8	93
4-Bromofluorobenzene	108

CHAIN-OF-CUSTODY RECORD

CLIENT: Conestoga-Koveris - Assoc. n.d.s.
 ADDRESS: 351 Duckbrook Dr., Ste 150
 CITY: Norcross STATE: GA ZIP: 30093
 PHONE: 770-441-0027 FAX: 770-441-2050
 CLIENT PROJECT #: _____ PROJECT MANAGER: Tom Lawrence

DATE: April 25, 2003 PAGE 1 OF 1
 ESN PROJECT #: 170358-V
 LOCATION: 208 E. Main
Colquhoun Rd
 COLLECTOR: Tom/Sing/Tony DATE OF COLLECTION: 4/25

Sample Number	Depth	Time	Date	Sample Type	Container	ANALYSES												FIELD NOTES	Total Number Of Containers	Laboratory Note Number
						BTEX 8021B	VOA 8021B	VOA 624/8260B	Semi Vol 625/8270C	TPH 8015B (gasoline)	TPH 8015B (diesel)	PAH 8015B (g & d)	PEST/PCBs 8081							
BH-17	3-4'		4/25	Sd.L.	Jar		✓												1	
k	7-8			k	↓		✓												1	
BH-17	-	1910		LQ	VOAs		✓												2	

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	DATE/TIME
			4/25/03
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	DATE/TIME

SAMPLE DISPOSAL INSTRUCTIONS
☐ ESN DISPOSAL @ \$2.00 each ☐ Return ☐ Pickup

SAMPLE RECEIPT

TOTAL NUMBER OF CONTAINERS _____
 CHAIN OF CUSTODY SEALS Y/N/NA _____
 SEALS INTACT? Y/N/NA _____
 RECEIVED GOOD CON./COLD _____
 NOTES: _____

LABORATORY NOTES:

CHAIN-OF-CUSTODY RECORD

CLIENT: Conestoga-Kovels Assoc's
 ADDRESS: 1351 Oakbrook Dr. Ste. 150
 CITY: Norcross STATE: GA ZIP: 30093
 PHONE: 770-441-0027 FAX: 770-441-2050
 CLIENT PROJECT #: _____ PROJECT MANAGER: Tom Lawrence

DATE: April 24, 2003 PAGE 1 OF 1
 ESN PROJECT #: 030358-4
 LOCATION: 608 E Main
College Park, GA
 COLLECTOR: Tom/Larry/Tony DATE OF COLLECTION: 4/24

Sample Number	Depth	Time	Date	Sample Type	Container	ANALYSES											FIELD NOTES	Total Number Of Containers	Laboratory Note Number
						BTEX 8021B	VOA 8021B	VOA 824/826/8	Semi Vol 825/827/8	TPH 8015B (gasoline)	TPH 8015B (diesel)	PAH 8015B (g & d)	PEST/PCBs/8081						
BH-11	3-4'	-	4/24	Soil	JAR	-	-	-	-	-	-	-	-	-	-	-		1	
↓	7-8'	-		Soil	↓	-	-	-	-	-	-	-	-	-	-	-		1	
BH-11	-	10:00		1. Q	VOA's	-	-	-	-	-	-	-	-	-	-	-		2	
BH-12	3-4'	-		Soil	JAR	-	-	-	-	-	-	-	-	-	-	-		1	
↓	7-8'	-		↓	↓	-	-	-	-	-	-	-	-	-	-	-		1	
BH-12	-	11:30		1. Q	VOA's	-	-	-	-	-	-	-	-	-	-	-		2	
BH-13	3-4'	-		Soil	JAR	-	-	-	-	-	-	-	-	-	-	-		1	
↓	7-8'	-		Soil	↓	-	-	-	-	-	-	-	-	-	-	-		1	
BH-13	-	1345		1. Q	VOA's	-	-	-	-	-	-	-	-	-	-	-		2	
BH-14	3-4'	-		Soil	JAR	-	-	-	-	-	-	-	-	-	-	-		1	
↓	7-8'	-		↓	↓	-	-	-	-	-	-	-	-	-	-	-		1	
BH-14	-	1500		1. Q	VOA's	-	-	-	-	-	-	-	-	-	-	-		2	
BH-15	3-4'	-		Soil	JAR	-	-	-	-	-	-	-	-	-	-	-		1	
BH-16	3-4'	-		↓	↓	-	-	-	-	-	-	-	-	-	-	-		1	
↓	7-8'	-		↓	↓	-	-	-	-	-	-	-	-	-	-	-		1	
BH-16	-	1710		1. Q	VOA's	-	-	-	-	-	-	-	-	-	-	-		2	

RELINQUISHED BY: (Signature) [Signature] DATE/TIME 4-24-03
 RELINQUISHED BY: (Signature) _____ DATE/TIME _____
 RECEIVED BY: (Signature) [Signature] DATE/TIME 4/24/03
 RECEIVED BY: (Signature) _____ DATE/TIME _____

SAMPLE RECEIPT

TOTAL NUMBER OF CONTAINERS _____
 CHAIN OF CUSTODY SEALS Y/N/NA _____
 SEALS INTACT? Y/N/NA _____
 RECEIVED GOOD CON./COLD _____
 NOTES: _____

LABORATORY NOTES:
SAMPLE DISPOSAL INSTRUCTIONS

☒ ESN DISPOSAL @ \$2.00 each ☐ Return ☐ Pickup

APPENDIX C

FIXED LABORATORY ANALYTICAL REPORTS

SAMPLE KEY
FORMER FFM/BIRDSONG PEANUT
COLQUITT, GEORGIA

Sample ID	Well ID	Sample ID	Well ID
GW-080201-DJB-101	MW-9	GW-062304-DJB-001	MW-12
GW-080201-TL-102	MW-5	GW-062304-DJB-002	MW-11
GW-080201-DJB-103	MW-8	GW-062304-DJB-003	MW-10
GW-080201-TL-104	MW-7D	GW-062304-DJB-004	MW-5
GW-080201-TL-105	MW-6	GW-062304-DJB-005	MW-6
GW-080201-TL-106	MW-4	GW-062304-DJB-006	MW-7D
GW-070902-DJB-001	MW-5	WG-102004-DJB-001	MW-5
GW-070902-DJB-002	MW-7D	WG-102004-DJB-002	MW-12
GW-070902-DJB-003	MW-6	WG-102004-DJB-003	MW-11
GW-090402-DJB	MW-10	WG-102004-DJB-004	MW-10
GW-102902-DJB-001	MW-10	WG-102004-DJB-005	MW-7D
GW-102902-DJB-002	MW-5	WG-102004-DJB-006	MW-6
GW-102902-DJB-003	MW-7D	GW-061505-DJB-001	MW-12
GW-102902-DJB-004	MW-6	GW-061505-DJB-002	MW-11
GW-102902-DJB-005	MW-6 duplicate	GW-061505-DJB-003	MW-10
GW-021103-DJB-001	MW-5	GW-061505-SAG-004	MW-7D
GW-021103-DJB-002	MW-10	GW-061505-SAG-005	MW-6
GW-021103-DJB-003	MW-7D	GW-061505-SAG-006	MW-5
GW-021103-DJB-004	MW-7D duplicate	GW-081005-DJB-001	BH-18
GW-021103-DJB-005	MW-6	GW-081005-DJB-002	BH-19
GW-093003-DJB-001	MW-11	GW-081005-DJB-003	BH-20
GW-093003-DJB-002	MW-5	GW-081005-DJB-004	BH-21
GW-093003-DJB-003	MW-10	GW-081105-DJB-005	BH-22
GW-093003-DJB-004	MW-7D	GW-081205-DJB-006	BH-23
GW-093003-DJB-006	MW-6	GW-081905-SAG-007	MW-14
GW-110703-TL-001	MW-7D	GW-081905-SAG-008	MW-13
GW-110703-TL-002	MW-6	GW-081905-SAG-009	MW-15
GW-110703-TL-003	MW-10	GW-081905-SAG-011	MW-16
GW-110703-TL-004	MW-11	GW-081905-SAG-012	MW-17D
GW-110703-TL-005	MW-5	GW-081905-SAG-013	MW-4
GW-110703-TL-006	MW-9		
GW-041304-DJB-001	MW-5		
GW-041304-DJB-002	MW-11		
GW-041304-DJB-003	MW-10		
GW-041304-DJB-004	MW-6		
GW-041304-DJB-005	MW-7D		

Soil Samples to Fixed Lab

Sample ID	DPT Boring	Depth
S-080905-DJB-001	MW-13	3.5 - 4.5'
S-080905-DJB-002	BH-6*	2.5 - 3.0'
S-081005-DJB-003	BH-18	4'
S-081005-DJB-004	BH-18	7'
S-081005-DJB-005	BH-19	4'
S-081005-DJB-006	BH-19	7'
S-081005-DJB-007	BH-20	4'
S-081005-DJB-008	BH-20	7'
S-081005-DJB-009	BH-21	4'
S-081005-DJB-010	BH-22	4'
S-081205-DJB-011	BH-23	1'



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

August 08, 2001

David Brytowski
Conestoga, Rovers, & Associates, Inc.
1351 Oakbrook Drive
Suite 150
Norcross, GA 30093
TEL: (770) 441-0027
FAX (770) 441-2050

RE: Peanut Plant

Order No.: 0108101

Dear David Brytowski:

Analytical Environmental Servs, Inc. received 7 samples on 8/3/01 2:16:00 PM for the analyses presented in the following report.

No problems were encountered during analyses. Additionally, all results for the associated quality control samples were within EPA and/or AES established limits except where noted in the project Case Narrative.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Jason Holloway
Project Manager

CONESTOGA-ROVERS & ASSOCIATES, INC.
1351 Oakbrook Drive Suite 150
Norcross, GA 30093 770-441-0027

AES

CHAIN OF CUSTODY RECORD

18283-01

Peanut Plant

SAMPLER'S SIGNATURE: D. J. Bystrom

PRINTED NAME: David Bratonski

NO. OF
CONTAINERS

PARAMETERS

REMARKS

010 8101

[illegible]

TOTAL NUMBER OF CONTAINERS

RELINQUISHED BY: David Bryant

DATE: 5/3 01
TIME:

RECEIVED BY:

DATE:

RELINQUISHED BY:
②

DATE:
TIME:

RECEIVED BY:

DATE:

RELINQUISHED BY:
③

DATE:
TIME:

RECEIVED BY:

DATE:

METHOD OF SHIPMENT:

AIR BILL NUMBER:

White	- Fully Executed Copy
Yellow	- Receiving Laboratory Copy
Pink	- Sampler Copy
Goldenrod	- Chemist Copy

SAMPLE TEAM: David B. Hansen
Thom Hansen

RECEIVED FOR LABORATORY BY:

DATE: 8/3/01 TIME: 2:16

Analytical Environmental Servs, Inc.

Sample Receipt Checklist

Client Name CONESTOGA

Date and Time Received

8/3/01 2:16:00 PM

Work Order Number 0108101

Received by MHR

Checklist completed by

Mae Hays 8-3-01
Signature Date

Reviewed by

JH
Initials

8/3/01
Date

Matrix:

Carrier name Client

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Presen <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Presen <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Presen <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Water - VOA vials have zero headspace?	No VOA vials submitted <input type="checkbox"/>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

Adjusted? _____ Checked b _____

Any No and/or NA (not applicable) response must be detailed in the comments section bel

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

Analytical Environmental Servs, Inc.

Date: 08-Aug-01

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0108101
Project: Peanut Plant
Lab ID: 0108101-001A

Client Sample ID: GW-080201 DJB-101
Tag Number:
Collection Date: 8/2/01
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		SW8260B		Analyst: NWH		
cis-1,2-Dichloroethene	BRL	5.0		µg/L	1	8/8/01 2:08:00 AM
Tetrachloroethene	BRL	5.0		µg/L	1	8/8/01 2:08:00 AM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	1	8/8/01 2:08:00 AM
Trichloroethene	BRL	5.0		µg/L	1	8/8/01 2:08:00 AM
Vinyl chloride	BRL	5.0		µg/L	1	8/8/01 2:08:00 AM
Surr: 4-Bromofluorobenzene	92.3	73-111		%REC	1	8/8/01 2:08:00 AM
Surr: Dibromofluoromethane	98.7	86-120		%REC	1	8/8/01 2:08:00 AM
Surr: Toluene-d8	98.7	91-108		%REC	1	8/8/01 2:08:00 AM

Qualifiers: BRL - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Analytical Environmental Servs, Inc.

Date: 08-Aug-01

CLIENT: Conestoga, Rovers, & Associates, Inc.

Client Sample ID: GW-080201TAL-102

Lab Order: 0108101

Tag Number:

Project: Peanut Plant

Collection Date: 8/2/01

Lab ID: 0108101-002A

Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS SW8260B						Analyst: NWH
cis-1,2-Dichloroethene	BRL	5.0		µg/L	1	8/8/01 2:42:00 AM
Tetrachloroethene	8.8	5.0		µg/L	1	8/8/01 2:42:00 AM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	1	8/8/01 2:42:00 AM
Trichloroethene	BRL	5.0		µg/L	1	8/8/01 2:42:00 AM
Vinyl chloride	BRL	5.0		µg/L	1	8/8/01 2:42:00 AM
Surr: 4-Bromofluorobenzene	91.5	73-111		%REC	1	8/8/01 2:42:00 AM
Surr: Dibromofluoromethane	97.0	86-120		%REC	1	8/8/01 2:42:00 AM
Surr: Toluene-d8	98.2	91-108		%REC	1	8/8/01 2:42:00 AM

Qualifiers: BRL - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Analytical Environmental Servs, Inc.

Date: 08-Aug-01

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0108101
Project: Peanut Plant
Lab ID: 0108101-003A

Client Sample ID: GW-080201 DJB-103
Tag Number:
Collection Date: 8/2/01
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		SW8260B				Analyst: NWH
cis-1,2-Dichloroethene	BRL	5.0		µg/L	1	8/8/01 3:15:00 AM
Tetrachloroethene	BRL	5.0		µg/L	1	8/8/01 3:15:00 AM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	1	8/8/01 3:15:00 AM
Trichloroethene	BRL	5.0		µg/L	1	8/8/01 3:15:00 AM
Vinyl chloride	BRL	5.0		µg/L	1	8/8/01 3:15:00 AM
Surr: 4-Bromofluorobenzene	91.8	73-111		%REC	1	8/8/01 3:15:00 AM
Surr: Dibromofluoromethane	97.2	86-120		%REC	1	8/8/01 3:15:00 AM
Surr: Toluene-d8	98.9	91-108		%REC	1	8/8/01 3:15:00 AM

Qualifiers: BRL - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Analytical Environmental Servs, Inc.

Date: 08-Aug-01

CLIENT: Conestoga, Rovers, & Associates, Inc.

Client Sample ID: GW-080201TAL-104

Lab Order: 0108101

Tag Number:

Project: Peanut Plant

Collection Date: 8/2/01

Lab ID: 0108101-004A

Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		SW8260B		Analyst: NWH		
cis-1,2-Dichloroethene	BRL	5.0		µg/L	1	8/8/01 3:49:00 AM
Tetrachloroethene	BRL	5.0		µg/L	1	8/8/01 3:49:00 AM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	1	8/8/01 3:49:00 AM
Trichloroethene	BRL	5.0		µg/L	1	8/8/01 3:49:00 AM
Vinyl chloride	BRL	5.0		µg/L	1	8/8/01 3:49:00 AM
Surr: 4-Bromofluorobenzene	91.3	73-111		%REC	1	8/8/01 3:49:00 AM
Surr: Dibromofluoromethane	97.3	86-120		%REC	1	8/8/01 3:49:00 AM
Surr: Toluene-d8	97.3	91-108		%REC	1	8/8/01 3:49:00 AM

Qualifiers: BRL - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Analytical Environmental Servs, Inc.

Date: 08-Aug-01

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0108101
Project: Peanut Plant
Lab ID: 0108101-005A

Client Sample ID: GW-080201TAL-105
Tag Number:
Collection Date: 8/2/01
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		SW8260B		Analyst: NWH		
cis-1,2-Dichloroethene	BRL	5.0		µg/L	1	8/8/01 4:22:00 AM
Tetrachloroethene	23	5.0		µg/L	1	8/8/01 4:22:00 AM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	1	8/8/01 4:22:00 AM
Trichloroethene	BRL	5.0		µg/L	1	8/8/01 4:22:00 AM
Vinyl chloride	BRL	5.0		µg/L	1	8/8/01 4:22:00 AM
Surr: 4-Bromofluorobenzene	91.4	73-111		%REC	1	8/8/01 4:22:00 AM
Surr: Dibromofluoromethane	97.6	86-120		%REC	1	8/8/01 4:22:00 AM
Surr: Toluene-d8	99.5	91-108		%REC	1	8/8/01 4:22:00 AM

Qualifiers: BRL - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Analytical Environmental Servs, Inc.

Date: 08-Aug-01

CLIENT: Conestoga, Rovers, & Associates, Inc.

Client Sample ID: GW-080201TAL-106

Lab Order: 0108101

Tag Number:

Project: Peanut Plant

Collection Date: 8/2/01

Lab ID: 0108101-006A

Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS SW8260B						Analyst: NWH
cis-1,2-Dichloroethene	BRL	5.0		µg/L	1	8/8/01 4:56:00 AM
Tetrachloroethene	BRL	5.0		µg/L	1	8/8/01 4:56:00 AM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	1	8/8/01 4:56:00 AM
Trichloroethene	BRL	5.0		µg/L	1	8/8/01 4:56:00 AM
Vinyl chloride	BRL	5.0		µg/L	1	8/8/01 4:56:00 AM
Surr: 4-Bromofluorobenzene	90.6	73-111		%REC	1	8/8/01 4:56:00 AM
Surr: Dibromofluoromethane	96.4	86-120		%REC	1	8/8/01 4:56:00 AM
Surr: Toluene-d8	98.4	91-108		%REC	1	8/8/01 4:56:00 AM

Qualifiers: BRL - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Analytical Environmental Servs, Inc.

Date: 08-Aug-01

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0108101
Project: Peanut Plant
Lab ID: 0108101-007A

Client Sample ID: Trip Blank
Tag Number:
Collection Date: 8/2/01
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS						Analyst: NWH
SW8260B						
cis-1,2-Dichloroethene	BRL	5.0		µg/L	1	8/8/01 1:34:00 AM
Tetrachloroethene	BRL	5.0		µg/L	1	8/8/01 1:34:00 AM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	1	8/8/01 1:34:00 AM
Trichloroethene	BRL	5.0		µg/L	1	8/8/01 1:34:00 AM
Vinyl chloride	BRL	5.0		µg/L	1	8/8/01 1:34:00 AM
Surr: 4-Bromofluorobenzene	91.9	73-111		%REC	1	8/8/01 1:34:00 AM
Surr: Dibromofluoromethane	96.3	86-120		%REC	1	8/8/01 1:34:00 AM
Surr: Toluene-d8	96.1	91-108		%REC	1	8/8/01 1:34:00 AM

Qualifiers: BRL - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

18283-01
TAL



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

July 24, 2002

Rec'd CRA
AUG 23 2002

David Brytowski
Conestoga, Rovers, & Associates, Inc.
1351 Oakbrook Drive
Suite 150
Norcross, GA 30093
TEL: (770) 441-0027
FAX (770) 441-2050

RE: Birdsong

Order No.: 0207179

Dear David Brytowski:

Analytical Environmental Servs, Inc. received 3 samples on 7/10/02 10:40:00 AM for the analyses presented in the following report.

No problems were encountered during analyses. Additionally, all results for the associated quality control samples were within EPA and/or AES established limits except where noted in the project Case Narrative.

NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water effective 07/01/01-06/30/02.

AIHA Certification number 505 for analysis of Air, Paint Chips, Soil, Dust Wipes effective until 03/01/03.

These results relate only to the items tested.

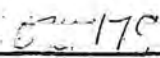
This report shall not be reproduced except in full and with the permission of the laboratory.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Jason Holloway
Project Manager

1007(FORMS) — DEC 6, 93 — REV.D — (AF-01)



#1247 P.001/001

1007(FORMS) — DEC 8, 93 — REV.D — (AF-01)

Analytical Environmental Services, Inc.

Sample Receipt Checklist

Client CRA

Date and Time 7/10/02

Work Order Number 0207179

Received by A.A.

Checklist completed by Amel Hazzic 7/10/02
Signature Date

Reviewed by AA 7/18/02
Initials Date

Carrier name: FedEx ☐ UPS ☐ Courier ☐ Client ☒ US Mail ☐ Other ☐

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Cooler #1 <u>700K</u> Cooler #2 <input type="checkbox"/>	Cooler #3 <input type="checkbox"/>	Cooler #4 <input type="checkbox"/>	Cooler #5 <input type="checkbox"/> Cooler #6 <input type="checkbox"/>
Water - VOA vials have zero headspace?	No VOA vials submitted <input type="checkbox"/>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Applicable <input type="checkbox"/>
Adjusted? <input type="checkbox"/>		Checked by <input type="checkbox"/>	

Any No and/or NA (not applicable) response must be detailed in the comments section below:

Client contacted ☐ Date contacted: ☐ Person contacted ☐

Contacted by: ☐ Regarding ☐

Comments: 4 containers sent for sample 001 - 002.

Corrective Action

Lab Order: 0207179
Client: Conestoga, Rovers, & Associates, Inc.
Project: Birdsong

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
0207179-001A	GW-070902-DJB-001	7/9/02 11:25:00 AM	Aqueous	Volatile Organic Compounds by GC/MS		7/12/02	7/13/02
0207179-001B				Inorganic Anions by IC		7/10/02	7/10/02
				Inorganic Anions by IC		7/18/02	7/18/02
				Inorganic Anions by IC		7/18/02	7/19/02
				Inorganic Anions by IC		7/22/02	7/22/02
				Inorganic Anions by IC		7/22/02	7/22/02
				Inorganic Anions by IC		7/22/02	7/22/02
				Inorganic Anions by IC		7/22/02	7/22/02
				Sulfate		7/23/02	7/23/02
0207179-001C				TOTAL METALS BY ICP		7/16/02	7/18/02
				TOTAL METALS BY ICP		7/16/02	7/17/02
0207179-002A	GW-070902-DJB-002	7/9/02 2:00:00 PM		Volatile Organic Compounds by GC/MS		7/12/02	7/13/02
0207179-002B				Inorganic Anions by IC		7/18/02	7/18/02
				Inorganic Anions by IC		7/18/02	7/19/02
				Inorganic Anions by IC		7/10/02	7/10/02
				Sulfate		7/23/02	7/23/02
0207179-002C				TOTAL METALS BY ICP		7/16/02	7/17/02
0207179-003A	GW-070902-DJB-003	7/9/02 3:10:00 PM		Volatile Organic Compounds by GC/MS		7/12/02	7/13/02

Analytical Environmental Servs, Inc.

Date: 24-Jul-02

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0207179
Project: Birdsong
Lab ID: 0207179-001

Client Sample ID: GW-070902-DJB-001
Collection Date: 7/9/02 11:25:00 AM
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
METALS, TOTAL		SW6010B				Analyst: SSS
Calcium	90.2	0.100		mg/L	1	7/17/02 7:37:00 PM
Iron	BRL	0.100		mg/L	1	7/17/02 7:37:00 PM
Magnesium	4.79	0.100		mg/L	1	7/17/02 7:37:00 PM
Manganese	0.071	0.005		mg/L	1	7/17/02 7:37:00 PM
Potassium	23.9	0.500		mg/L	1	7/17/02 7:37:00 PM
Sodium	5.72	1.00		mg/L	1	7/17/02 7:37:00 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		SW8260B				Analyst: JTC
cis-1,2-Dichloroethene	BRL	5.0		µg/L	1	7/13/02 12:23:00 PM
Tetrachloroethene	8.0	5.0		µg/L	1	7/13/02 12:23:00 PM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	1	7/13/02 12:23:00 PM
Trichloroethene	BRL	5.0		µg/L	1	7/13/02 12:23:00 PM
Vinyl chloride	BRL	2.0		µg/L	1	7/13/02 12:23:00 PM
Surr: 4-Bromofluorobenzene	104	71.8-143		%REC	1	7/13/02 12:23:00 PM
Surr: Dibromofluoromethane	96.3	80.3-123		%REC	1	7/13/02 12:23:00 PM
Surr: Toluene-d8	94.2	70.1-142		%REC	1	7/13/02 12:23:00 PM
INORGANIC ANIONS BY IC		E300				Analyst: JCF
Chloride	38.9	2.50		mg/L	10	7/18/02 3:42:01 PM
INORGANIC ANIONS BY IC		E300				Analyst: LJO
Nitrogen, Nitrate (As N)	BRL	0.25		mg/L	1	7/10/02 5:35:00 PM
SULFATE		E375.4				Analyst: LAV
Sulfate	16.3	1.00		mg/L	1	7/23/02 4:00:00 PM

Qualifiers: BRL - Below Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Analytical Environmental Servs, Inc.

Date: 24-Jul-02

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0207179
Project: Birdsong
Lab ID: 0207179-002

Client Sample ID: GW-070902-DJB-002
Collection Date: 7/9/02 2:00:00 PM

Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
METALS, TOTAL		SW6010B				Analyst: SSS
Calcium	59.0	0.100		mg/L	1	7/17/02 8:55:00 PM
Iron	BRL	0.100		mg/L	1	7/17/02 8:55:00 PM
Magnesium	0.991	0.100		mg/L	1	7/17/02 8:55:00 PM
Manganese	BRL	0.005		mg/L	1	7/17/02 8:55:00 PM
Potassium	2.67	0.500		mg/L	1	7/17/02 8:55:00 PM
Sodium	3.45	1.00		mg/L	1	7/17/02 8:55:00 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		SW8260B				Analyst: JTC
cis-1,2-Dichloroethene	BRL	5.0		µg/L	1	7/13/02 11:53:00 AM
Tetrachloroethene	BRL	5.0		µg/L	1	7/13/02 11:53:00 AM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	1	7/13/02 11:53:00 AM
Trichloroethene	BRL	5.0		µg/L	1	7/13/02 11:53:00 AM
Vinyl chloride	BRL	2.0		µg/L	1	7/13/02 11:53:00 AM
Surr: 4-Bromofluorobenzene	105	71.8-143		%REC	1	7/13/02 11:53:00 AM
Surr: Dibromofluoromethane	92.4	80.3-123		%REC	1	7/13/02 11:53:00 AM
Surr: Toluene-d8	93.7	70.1-142		%REC	1	7/13/02 11:53:00 AM
INORGANIC ANIONS BY IC		E300				Analyst: JCF
Chloride	9.91	0.25		mg/L	1	7/18/02 3:42:01 PM
INORGANIC ANIONS BY IC		E300				Analyst: LJO
Nitrogen, Nitrate (As N)	BRL	0.25		mg/L	1	7/10/02 5:50:00 PM
SULFATE		E375.4				Analyst: LAV
Sulfate	2.95	1.00		mg/L	1	7/23/02 4:00:00 PM

Qualifiers: BRL - Below Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Analytical Environmental Servs, Inc.

Date: 24-Jul-02

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0207179
Project: Birdsong
Lab ID: 0207179-003

Client Sample ID: GW-070902-DJB-003
Collection Date: 7/9/02 3:10:00 PM

Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		SW8260B				Analyst: JTC
cis-1,2-Dichloroethene	BRL	50		µg/L	10	7/13/02 12:52:00 PM
Tetrachloroethene	BRL	50		µg/L	10	7/13/02 12:52:00 PM
trans-1,2-Dichloroethene	BRL	50		µg/L	10	7/13/02 12:52:00 PM
Trichloroethene	BRL	50		µg/L	10	7/13/02 12:52:00 PM
Vinyl chloride	BRL	20		µg/L	10	7/13/02 12:52:00 PM
Surr: 4-Bromofluorobenzene	106	71.8-143		%REC	10	7/13/02 12:52:00 PM
Surr: Dibromofluoromethane	94.0	80.3-123		%REC	10	7/13/02 12:52:00 PM
Surr: Toluene-d8	94.7	70.1-142		%REC	10	7/13/02 12:52:00 PM

Qualifiers: BRL - Below Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Rec'd CRA

SEP 19 2002

18283-01
TAL



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

September 12, 2002

David Brytowski
Conestoga, Rovers, & Associates, Inc.
1351 Oakbrook Drive
Suite 150
Norcross, GA 30093
TEL: (770) 441-0027
FAX (770) 441-2050

RE: Birdsong

Order No.: 0209120

Dear David Brytowski:

Analytical Environmental Servs, Inc. received 1 sample on 9/6/02 1:48:00 PM for the analyses presented in the following report.

No problems were encountered during analyses. Additionally, all results for the associated quality control samples were within EPA and/or AES established limits except where noted in the project Case Narrative.

NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water effective 07/01/02-06/30/03.

AIHA Certification number 505 for analysis of Air, Paint Chips, Soil, Dust Wipes effective until 03/01/03.

These results relate only to the items tested.

This report shall not be reproduced except in full and with the permission of the laboratory.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Jason Holloway
Project Manager

MW-10
1st time

CRA
CONESTOGA-ROVERS & ASSOCIATES, INC.
1351 Oakbrook Drive Suite 150
Norcross, GA 30093 404-441-0027

SHIPPED TO (Laboratory Name):

AES

REFERENCE NUMBER:

18283-01

PROJECT NAME:

Birdsong Peanut

CHAIN OF CUSTODY RECORD

SAMPLER'S
SIGNATURE:

David Brytowski

PRINTED
NAME:

David Brytowski

SEQ.
NO.

DATE

TIME

SAMPLE NUMBER

SAMPLE
TYPE

NO. OF
CONTAINERS

PARAMETERS

REMARKS

9/4/02

20:05

GW-090402

water

2

X

Standard TAT

Select VOCs only

↓

PCE TCE
Cis-1,2 dichloroethene
trans-1,2 dichloroethene
and vinyl chloride

TOTAL NUMBER OF CONTAINERS

RELINQUISHED BY:

①

David Brytowski

DATE:

9/6/02

TIME:

13:48

RECEIVED BY:

②

Amel Azizic

DATE:

9/6/02

TIME:

1:47

RELINQUISHED BY:

②

DATE:

TIME:

RECEIVED BY:

③

DATE:

TIME:

RELINQUISHED BY:

③

DATE:

TIME:

RECEIVED BY:

④

DATE:

TIME:

METHOD OF SHIPMENT:

AIR BILL NUMBER:

White - Fully Executed Copy
Yellow - Receiving Laboratory Copy
Pink - Sampler Copy
Goldenrod - Chemist Copy

SAMPLE TEAM:

RECEIVED FOR LABORATORY BY:

DATE: TIME:

3326

Analytical Environmental Services, Inc.

Sample Receipt Checklist

Client CDA

Date and Time 9/6/02 13:47

Work Order Number 0209120

Received by AG

Checklist completed by A. G. P. A. 9/6/02
Signature Date

Reviewed by JH 9/6/02
Initials Date

Carrier name: FedEx ☐ UPS ☐ Courier ☐ Client ☒ US Mail ☐ Other ☐

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Was TAT marked on the COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Proceed with Standard TAT as per project history?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Applicable <input checked="" type="checkbox"/>
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Cooler #1 <u>h²l mlt²</u> Cooler #2 <input type="checkbox"/>	Cooler #3 <input type="checkbox"/>	Cooler #4 <input type="checkbox"/>	Cooler #5 <input type="checkbox"/> Cooler #6 <input type="checkbox"/>
Water - VOA vials have zero headspace?	No VOA vials submitted <input type="checkbox"/>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Applicable <input type="checkbox"/>
Adjusted? <input type="checkbox"/>	Checked by <input type="checkbox"/>		

Any No and/or NA (not applicable) response must be detailed in the comments section below:

Client contacted ☐ Date contacted: ☐ Person contacted ☐

Contacted by: ☐ Regarding ☐

Comments:

Corrective Action

Analytical Environmental Servs, Inc.

Date: 12-Sep-02

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0209120
Project: Birdsong
Lab ID: 0209120-001A

Client Sample ID: GW-090402
Tag Number:
Collection Date: 9/4/02 8:05:00 PM
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		SW8260B		Analyst: AD		
cis-1,2-Dichloroethene	BRL	5.0		µg/L	1	9/7/02 9:27:00 PM
Tetrachloroethene	130	50		µg/L	10	9/9/02 2:27:00 PM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	1	9/7/02 9:27:00 PM
Trichloroethene	BRL	5.0		µg/L	1	9/7/02 9:27:00 PM
Vinyl chloride	BRL	2.0		µg/L	1	9/7/02 9:27:00 PM
Surr: 4-Bromofluorobenzene	101	71.8-143		%REC	10	9/9/02 2:27:00 PM
Surr: 4-Bromofluorobenzene	102	71.8-143		%REC	1	9/7/02 9:27:00 PM
Surr: Dibromofluoromethane	98.2	80.3-123		%REC	10	9/9/02 2:27:00 PM
Surr: Dibromofluoromethane	95.8	80.3-123		%REC	1	9/7/02 9:27:00 PM
Surr: Toluene-d8	96.8	70.1-142		%REC	10	9/9/02 2:27:00 PM
Surr: Toluene-d8	97.2	70.1-142		%REC	1	9/7/02 9:27:00 PM

Qualifiers: BRL - Below Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

18283-01
-7/46



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

November 06, 2002

Rec'd CRA

NOV 12 2002

Thomas Lawrence
Conestoga, Rovers, & Associates, Inc.
1351 Oakbrook Drive
Suite 150
Norcross, GA 30093
TEL: (770) 441-0027
FAX (770) 441-2050

RE: Birdsong

Order No.: 0210828

Dear Thomas Lawrence:

Analytical Environmental Servs, Inc. received 5 samples on 10/31/02 1:05:00 PM for the analyses presented in the following report.

No problems were encountered during analyses. Additionally, all results for the associated quality control samples were within EPA and/or AES established limits except where noted in the project Case Narrative.

NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water effective 07/01/02-06/30/03.

AIHA Certification number 505 for analysis of Air, Paint Chips, Soil, Dust Wipes effective until 03/01/03.

These results relate only to the items tested.

This report shall not be reproduced except in full and with the permission of the laboratory.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Jason Holloway
Project Manager

CRA
CONESTOGA-ROVERS & ASSOCIATES, INC.
1351 Oakbrook Drive Suite 150
Norcross, GA 30093 404-441-0027

AES

REFERENCE NUMBER:

18283-01

PROJECT NAME:

Birdsong

CHAIN OF CUSTODY RECORD

SAMPLER'S SIGNATURE: David Branstetter

PRINTED NAME: David Brytowski

[illegible]

PARAMETERS

REMARKS

[illegible]

TOTAL NUMBER OF CONTAINERS

10

RELINQUISHED BY: Doni Buntane

DATE: 10/31/02
TIME: 13:02

RECEIVED BY: Amel HADZIC 10/31/02 1:05

DATE:
TIME:

RELINQUISHED BY:
②

DATE:
TIME:

RECEIVED BY:
③

DATE:
TIME:

RELINQUISHED BY:
③

DATE:
TIME:

RECEIVED BY:
④

DATE:
TIME:

METHOD OF SHIPMENT:

AIR BILL NUMBER:

White	- Fully Executed Copy
Yellow	- Receiving Laboratory Copy
Pink	- Sampler Copy
Goldenrod	- Chemist Copy

SAMPLE TEAM:

RECEIVED FOR LABORATORY BY:

DATE: _____ TIME: _____

3437

Analytical Environmental Services, Inc.

Sample Receipt Checklist

Client CRA

Date and Time 10/31/02 1:05

Work Order Number 0210828

Received by Amel Haddic

Checklist completed by Amel Haddic 10/31/02
Signature Date

Reviewed by JA 10/31/02
Initials Date

Carrier name: FedEx ☐ UPS ☐ Courier ☐ Client ☒ US Mail ☐ Other ☐

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Was TAT marked on the COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Proceed with Standard TAT as per project history?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Applicable <input checked="" type="checkbox"/>
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Cooler #1 <u>4.1°C</u> Cooler #2 <u>4.1°C</u> Cooler #3 <u>4.1°C</u> Cooler #4 <u>4.1°C</u> Cooler #5 <u>4.1°C</u> Cooler #6 <u>4.1°C</u>			
Water - VOA vials have zero headspace?	No VOA vials submitted <input type="checkbox"/>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Applicable <input type="checkbox"/>
Adjusted? <input type="checkbox"/>	Checked by <input type="checkbox"/>		

Any No and/or NA (not applicable) response must be detailed in the comments section below:

Client contacted ☐ Date contacted: ☐ Person contacted ☐

Contacted by: ☐ Regarding ☐

Comments:

Corrective Action

Analytical Environmental Servs, Inc.

Date: 06-Nov-02

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0210828
Project: Birdsong
Lab ID: 0210828-001A

Client Sample ID: GW-102902-DJB-001
Tag Number:
Collection Date: 10/29/02
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		SW8260B				Analyst: JTC
cis-1,2-Dichloroethene	BRL	50		µg/L	10	11/1/02 7:06:00 PM
Tetrachloroethene	BRL	50		µg/L	10	11/1/02 7:06:00 PM
trans-1,2-Dichloroethene	BRL	50		µg/L	10	11/1/02 7:06:00 PM
Trichloroethene	BRL	50		µg/L	10	11/1/02 7:06:00 PM
Vinyl chloride	BRL	20		µg/L	10	11/1/02 7:06:00 PM
Surr: 4-Bromofluorobenzene	93.1	71.8-143		%REC	10	11/1/02 7:06:00 PM
Surr: Dibromofluoromethane	90.6	80.3-123		%REC	10	11/1/02 7:06:00 PM
Surr: Toluene-d8	90.7	70.1-142		%REC	10	11/1/02 7:06:00 PM

Qualifiers: BRL - Below Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Analytical Environmental Servs, Inc.

Date: 06-Nov-02

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0210828
Project: Birdsong
Lab ID: 0210828-002A

Client Sample ID: GW-102902-DJB-002
Tag Number:
Collection Date: 10/29/02
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		SW8260B		Analyst: JTC		
cis-1,2-Dichloroethene	BRL	5.0		µg/L	1	11/1/02 5:01:00 PM
Tetrachloroethene	9.1	5.0		µg/L	1	11/1/02 5:01:00 PM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	1	11/1/02 5:01:00 PM
Trichloroethene	BRL	5.0		µg/L	1	11/1/02 5:01:00 PM
Vinyl chloride	BRL	2.0		µg/L	1	11/1/02 5:01:00 PM
Surr: 4-Bromofluorobenzene	95.0	71.8-143		%REC	1	11/1/02 5:01:00 PM
Surr: Dibromofluoromethane	87.4	80.3-123		%REC	1	11/1/02 5:01:00 PM
Surr: Toluene-d8	90.7	70.1-142		%REC	1	11/1/02 5:01:00 PM

Qualifiers: BRL - Below Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Analytical Environmental Servs, Inc.

Date: 06-Nov-02

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0210828
Project: Birdsong
Lab ID: 0210828-003A

Client Sample ID: GW-102902-DJB-003
Tag Number:
Collection Date: 10/29/02
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		SW8260B		Analyst: JTC		
cis-1,2-Dichloroethene	BRL	5.0		µg/L	1	11/1/02 5:32:00 PM
Tetrachloroethene	6.1	5.0		µg/L	1	11/1/02 5:32:00 PM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	1	11/1/02 5:32:00 PM
Trichloroethene	BRL	5.0		µg/L	1	11/1/02 5:32:00 PM
Vinyl chloride	BRL	2.0		µg/L	1	11/1/02 5:32:00 PM
Surr: 4-Bromofluorobenzene	94.8	71.8-143		%REC	1	11/1/02 5:32:00 PM
Surr: Dibromofluoromethane	89.1	80.3-123		%REC	1	11/1/02 5:32:00 PM
Surr: Toluene-d8	90.9	70.1-142		%REC	1	11/1/02 5:32:00 PM

Qualifiers: BRL - Below Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Analytical Environmental Servs, Inc.

Date: 06-Nov-02

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0210828
Project: Birdsong
Lab ID: 0210828-004A

Client Sample ID: GW-102902-DJB-004
Tag Number:
Collection Date: 10/29/02
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		SW8260B				Analyst: JTC
cis-1,2-Dichloroethene	BRL	50		µg/L	10	11/1/02 6:03:00 PM
Tetrachloroethene	BRL	50		µg/L	10	11/1/02 6:03:00 PM
trans-1,2-Dichloroethene	BRL	50		µg/L	10	11/1/02 6:03:00 PM
Trichloroethene	BRL	50		µg/L	10	11/1/02 6:03:00 PM
Vinyl chloride	BRL	20		µg/L	10	11/1/02 6:03:00 PM
Surr: 4-Bromofluorobenzene	95.5	71.8-143		%REC	10	11/1/02 6:03:00 PM
Surr: Dibromofluoromethane	89.8	80.3-123		%REC	10	11/1/02 6:03:00 PM
Surr: Toluene-d8	91.1	70.1-142		%REC	10	11/1/02 6:03:00 PM

Qualifiers:

BRL - Below Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Analytical Environmental Servs, Inc.

Date: 06-Nov-02

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0210828
Project: Birdsong
Lab ID: 0210828-005A

Client Sample ID: GW-102902-DJB-005
Tag Number:
Collection Date: 10/29/02
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		SW8260B		Analyst: JTC		
cis-1,2-Dichloroethene	BRL	50		µg/L	10	11/1/02 6:35:00 PM
Tetrachloroethene	BRL	50		µg/L	10	11/1/02 6:35:00 PM
trans-1,2-Dichloroethene	BRL	50		µg/L	10	11/1/02 6:35:00 PM
Trichloroethene	BRL	50		µg/L	10	11/1/02 6:35:00 PM
Vinyl chloride	BRL	20		µg/L	10	11/1/02 6:35:00 PM
Surr: 4-Bromofluorobenzene	94.3	71.8-143		%REC	10	11/1/02 6:35:00 PM
Surr: Dibromofluoromethane	91.1	80.3-123		%REC	10	11/1/02 6:35:00 PM
Surr: Toluene-d8	90.6	70.1-142		%REC	10	11/1/02 6:35:00 PM

Qualifiers: BRL - Below Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range



AES

February 19, 2003

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

18283-01
TMC

RECEIVED

FEB 25 2003

CRA - ATLANTA

David Brytowski
Conestoga, Rovers, & Associates, Inc.
1351 Oakbrook Drive
Suite 150
Norcross, GA 30093

TEL: (770) 441-0027

FAX (770) 441-2050

RE: Birdsong

Order No.: 0302333

Dear David Brytowski:

Analytical Environmental Servs, Inc. received 5 samples on 2/13/2003 10:15:00 AM for the analyses presented in the following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative. AES' certifications are as follows:

-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water, effective 07/01/02-06/30/03.

-AIHA Certification number 505 for analysis of Air, Paint Chips, Soil and Dust Wipes, effective until 03/01/03.

These results relate only to the items tested. This report may only be reproduced in full and contains 11 total pages (including cover letter).

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Jason Holloway

Project Manager

CRA CONESTOGA-ROVERS & ASSOCIATES, INC. 1351 Oakbrook Drive Suite 150 Norcross, GA 30093 404-441-0027						SHIPPED TO (Laboratory Name): AES																							
						CHAIN OF CUSTODY RECORD						REFERENCE NUMBER: 18283-01						PROJECT NAME: Birdsong Peanut											
SAMPLER'S SIGNATURE: David Bryant						PRINTED NAME: _____						NO. OF CONTAINERS	PARAMETERS										REMARKS						
SEQ. NO.	DATE	TIME	SAMPLE NUMBER			SAMPLE TYPE	<div style="display: flex; justify-content: space-between;"> Select VOC <div style="width: 100%; border-bottom: 1px solid black; height: 20px;"></div> </div>																						
	2/11/03	15:25	GW-021103 DJB 001			water	3														Select VOC = PCE, TCE Cis-1,2 dichloroeth trans-1,2 dichloroeth and vinyl chloride Standard TAT								
		12:45					3																						
		14:00					3																						
		14:30					3																						
	2/11/03	14:55	GW-021103 DJB 005			water	3																						
TOTAL NUMBER OF CONTAINERS						15																							
RELINQUISHED BY: ① David Bryant						DATE: 2/13/03		RECEIVED BY: ② Paul Harris						DATE: 2/13/03															
						TIME: 10:25								TIME: 10:15															
RELINQUISHED BY: ② _____						DATE: _____		RECEIVED BY: ③ _____						DATE: _____															
						TIME: _____								TIME: _____															
RELINQUISHED BY: ③ _____						DATE: _____		RECEIVED BY: ④ _____						DATE: _____															
						TIME: _____								TIME: _____															
METHOD OF SHIPMENT: _____															AIR BILL NUMBER: _____														
White - Fully Executed Copy Yellow - Receiving Laboratory Copy Pink - Sampler Copy Goldenrod - Chemist Copy															SAMPLE TEAM: _____					RECEIVED FOR LABORATORY BY: _____									
																				DATE: _____ TIME: _____									

Analytical Environmental Services, Inc.

Sample Receipt Checklist

Client CRA

Date and Time 2/13/03 / 10:15

Work Order Number 0302333

Received by ANNE HADNICK

Checklist completed by Andria Hadnick 2/13/03
Signature Date

Reviewed by AOG 2/13/03
Initials Date

Carrier name: FedEx ☐ UPS ☐ Courier ☐ Client ☒ US Mail ☐ Other ☐

Shipping container/cooler in good condition? Yes ☒ No ☐ Not Present ☐
Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☒
Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒
Chain of custody present? Yes ☒ No ☐
Chain of custody signed when relinquished and received? Yes ☒ No ☐
Chain of custody agrees with sample labels? Yes ☒ No ☐
Samples in proper container/bottle? Yes ☒ No ☐
Sample containers intact? Yes ☒ No ☐
Sufficient sample volume for indicated test? Yes ☒ No ☐
All samples received within holding time? Yes ☒ No ☐
Was TAT marked on the COC? Yes ☒ No ☐
Proceed with Standard TAT as per project history? Yes ☐ No ☐ Not Applicable ☒
Container/Temp Blank temperature in compliance? Yes ☒ No ☐
Cooler #1 4' on ice Cooler #2 ☐ Cooler #3 ☐ Cooler #4 ☐ Cooler #5 ☐ Cooler #6 ☐
Water - VOA vials have zero headspace? No VOA vials submitted ☐ Yes ☒ No ☐
Water - pH acceptable upon receipt? Yes ☒ No ☐ Not Applicable ☐
Adjusted? ☐ Checked by ☐

Any No and/or NA (not applicable) response must be detailed in the comments section below:

Client contacted ☐ Date contacted: ☐ Person contacted ☐

Contacted by: ☐ Regarding ☐

Comments:

Corrective Action

CLIENT: Conestoga, Rovers, & Associates, Inc.
Project: Birdsong
Lab Order: 0302333

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 4th Edition. All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives unless indicated in the case narrative.

Volatile Organic Compounds Analysis by Method 8260B:

Matrix spike recovery for 1,1-Dichloroethene, Toluene, and Trichloroethene on sample ClientSampID GW-021103DJB-001 [AES #0302333-001A] was outside control limits biased low. LCS recovery was within control limits indicating possible matrix interference.

CLIENT: Conestoga, Rovers, & Associates, Inc.

Work Order: 0302333

Project: Birdsong

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_W

Sample ID	MB-31121	SampType:	MBLK	TestCode:	8260B_W	Units:	µg/L	Prep Date:	2/13/2003	RunNo:	35321		
Client ID:		Batch ID:	31121	TestNo:	SW8260B			Analysis Date:	2/14/2003	SeqNo:	603042		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

cis-1,2-Dichloroethene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
Trichloroethene	BRL	5.0									
Vinyl chloride	BRL	5.0									
Surr: 4-Bromofluorobenzene	45.43	5.0	50	0	90.9	71.8	143	0	0		
Surr: Dibromofluoromethane	46	5.0	50	0	92	80.3	123	0	0		
Surr: Toluene-d8	47.2	5.0	50	0	94.4	70.1	142	0	0		

Sample ID	LCS-31121	SampType:	LCS	TestCode:	8260B_W	Units:	µg/L	Prep Date:	2/13/2003	RunNo:	35321			
Client ID:		Batch ID:	31121	TestNo:	SW8260B			Analysis Date:	2/14/2003	SeqNo:	603043			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Trichloroethene	56.21	5.0	50	0	112	70	125	0	0		
Surr: 4-Bromofluorobenzene	43.87	5.0	50	0	87.7	71.8	143	0	0		
Surr: Dibromofluoromethane	45.12	5.0	50	0	90.2	80.3	123	0	0		
Surr: Toluene-d8	47.24	5.0	50	0	94.5	70.1	142	0	0		

Sample ID	0302333-002AMS	SampType:	MS	TestCode:	8260B_W	Units:	µg/L	Prep Date:	2/13/2003	RunNo:	35321			
Client ID:	GW-021103DJB-002	Batch ID:	31121	TestNo:	SW8260B			Analysis Date:	2/14/2003	SeqNo:	603049			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Trichloroethene	25.22	5.0	50	0	50.4	66	128	0	0		S
Surr: 4-Bromofluorobenzene	44.34	5.0	50	0	88.7	71.8	143	0	0		
Surr: Dibromofluoromethane	43.2	5.0	50	0	86.4	80.3	123	0	0		
Surr: Toluene-d8	46.38	5.0	50	0	92.8	70.1	142	0	0		

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

BRL Below Reporting Limit
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

E Value above quantitation range
N Analyte not NELAC certified

CLIENT: Conestoga, Rovers, & Associates, Inc.
Work Order: 0302333
Project: Birdsong

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_W

Sample ID	0302333-002AMSD	SampType:	MSD	TestCode:	8260B_W	Units:	µg/L	Prep Date:	2/13/2003	RunNo:	35321
Client ID:	GW-021103DJB-002	Batch ID:	31121	TestNo:	SW8260B			Analysis Date:	2/14/2003	SeqNo:	603050
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichloroethene	24.08	5.0	50	0	48.2	66	128	25.22	4.62	30	S
Surr: 4-Bromofluorobenzene	44.71	5.0	50	0	89.4	71.8	143	44.34	0	0	
Surr: Dibromofluoromethane	43.28	5.0	50	0	86.6	80.3	123	43.2	0	0	
Surr: Toluene-d8	45.69	5.0	50	0	91.4	70.1	142	46.38	0	0	

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

BRL Below Reporting Limit
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

E Value above quantitation range
N Analyte not NELAC certified

Analytical Environmental Servs, Inc.

Date: 19-Feb-03

CLIENT: Conestoga, Rovers, & Associates, Inc.**Client Sample ID:** GW-021103DJB-001**Lab Order:** 0302333**Tag Number:****Project:** Birdsong**Collection Date:** 2/11/2003 3:25:00 PM**Lab ID:** 0302333-001A**Matrix:** AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		SW8260B		Analyst: NWH		
cis-1,2-Dichloroethene	BRL	5.0		µg/L	1	2/14/2003 3:00:00 PM
Tetrachloroethene	BRL	5.0		µg/L	1	2/14/2003 3:00:00 PM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	1	2/14/2003 3:00:00 PM
Trichloroethene	BRL	5.0		µg/L	1	2/14/2003 3:00:00 PM
Vinyl chloride	BRL	2.0		µg/L	1	2/14/2003 3:00:00 PM
Surr: 4-Bromofluorobenzene	92.6	71.8-143		%REC	1	2/14/2003 3:00:00 PM
Surr: Dibromofluoromethane	91.3	80.3-123		%REC	1	2/14/2003 3:00:00 PM
Surr: Toluene-d8	93.9	70.1-142		%REC	1	2/14/2003 3:00:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level
BRL	Below Reporting Limit
H	Holding times for preparation or analysis exceeded
N	Analyte not NELAC certified
Rpt Limit	Reporting Limit

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	NELAC analyte certification pending
S	Spike Recovery outside accepted recovery limits

Analytical Environmental Servs, Inc.

Date: 19-Feb-03

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0302333
Project: Birdsong
Lab ID: 0302333-002A

Client Sample ID: GW-021103DJB-002
Tag Number:
Collection Date: 2/11/2003 12:45:00 PM
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		SW8260B		Analyst: NWH		
cis-1,2-Dichloroethene	BRL	5.0		µg/L	1	2/14/2003 3:28:00 PM
Tetrachloroethene	120	5.0		µg/L	1	2/14/2003 3:28:00 PM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	1	2/14/2003 3:28:00 PM
Trichloroethene	BRL	5.0		µg/L	1	2/14/2003 3:28:00 PM
Vinyl chloride	BRL	2.0		µg/L	1	2/14/2003 3:28:00 PM
Surr: 4-Bromofluorobenzene	92.2	71.8-143		%REC	1	2/14/2003 3:28:00 PM
Surr: Dibromofluoromethane	91.4	80.3-123		%REC	1	2/14/2003 3:28:00 PM
Surr: Toluene-d8	93.7	70.1-142		%REC	1	2/14/2003 3:28:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level
BRL	Below Reporting Limit
H	Holding times for preparation or analysis exceeded
N	Analyte not NELAC certified
Rpt Limit	Reporting Limit

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	NELAC analyte certification pending
S	Spike Recovery outside accepted recovery limits

Analytical Environmental Servs, Inc.

Date: 19-Feb-03

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0302333
Project: Birdsong
Lab ID: 0302333-003A

Client Sample ID: GW-021103DJB-003
Tag Number:
Collection Date: 2/11/2003 2:00:00 PM
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		SW8260B		Analyst: NWH		
cis-1,2-Dichloroethene	BRL	5.0		µg/L	1	2/14/2003 4:53:00 PM
Tetrachloroethene	BRL	5.0		µg/L	1	2/14/2003 4:53:00 PM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	1	2/14/2003 4:53:00 PM
Trichloroethene	BRL	5.0		µg/L	1	2/14/2003 4:53:00 PM
Vinyl chloride	BRL	2.0		µg/L	1	2/14/2003 4:53:00 PM
Surr: 4-Bromofluorobenzene	92.0	71.8-143		%REC	1	2/14/2003 4:53:00 PM
Surr: Dibromofluoromethane	89.3	80.3-123		%REC	1	2/14/2003 4:53:00 PM
Surr: Toluene-d8	92.0	70.1-142		%REC	1	2/14/2003 4:53:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level
BRL	Below Reporting Limit
H	Holding times for preparation or analysis exceeded
N	Analyte not NELAC certified
Rpt Limit	Reporting Limit

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	NELAC analyte certification pending
S	Spike Recovery outside accepted recovery limits

Analytical Environmental Servs, Inc.

Date: 19-Feb-03

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0302333
Project: Birdsong
Lab ID: 0302333-004A

Client Sample ID: GW-021103DJB-004
Tag Number:
Collection Date: 2/11/2003 2:30:00 PM
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		SW8260B		Analyst: NWH		
cis-1,2-Dichloroethene	BRL	5.0		µg/L	1	2/14/2003 5:21:00 PM
Tetrachloroethene	BRL	5.0		µg/L	1	2/14/2003 5:21:00 PM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	1	2/14/2003 5:21:00 PM
Trichloroethene	BRL	5.0		µg/L	1	2/14/2003 5:21:00 PM
Vinyl chloride	BRL	2.0		µg/L	1	2/14/2003 5:21:00 PM
Surr: 4-Bromofluorobenzene	88.5	71.8-143		%REC	1	2/14/2003 5:21:00 PM
Surr: Dibromofluoromethane	90.7	80.3-123		%REC	1	2/14/2003 5:21:00 PM
Surr: Toluene-d8	92.7	70.1-142		%REC	1	2/14/2003 5:21:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level
BRL	Below Reporting Limit
H	Holding times for preparation or analysis exceeded
N	Analyte not NELAC certified
Rpt Limit	Reporting Limit

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	NELAC analyte certification pending
S	Spike Recovery outside accepted recovery limits

Analytical Environmental Servs, Inc.

Date: 19-Feb-03

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0302333
Project: Birdsong
Lab ID: 0302333-005A

Client Sample ID: GW-021103DJB-005
Tag Number:
Collection Date: 2/11/2003 2:55:00 PM
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		SW8260B		Analyst: NWH		
cis-1,2-Dichloroethene	BRL	5.0		µg/L	1	2/17/2003 5:21:00 PM
Tetrachloroethene	8.9	5.0		µg/L	1	2/17/2003 5:21:00 PM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	1	2/17/2003 5:21:00 PM
Trichloroethene	BRL	5.0		µg/L	1	2/17/2003 5:21:00 PM
Vinyl chloride	BRL	2.0		µg/L	1	2/17/2003 5:21:00 PM
Surr: 4-Bromofluorobenzene	99.6	71.8-143		%REC	1	2/17/2003 5:21:00 PM
Surr: Dibromofluoromethane	95.8	80.3-123		%REC	1	2/17/2003 5:21:00 PM
Surr: Toluene-d8	93.4	70.1-142		%REC	1	2/17/2003 5:21:00 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
N Analyte not NELAC certified
Rpt Limit Reporting Limit

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P NELAC analyte certification pending
S Spike Recovery outside accepted recovery limits



AES

October 06, 2003

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

18283-01
JBL

RECEIVED

OCT 10 2003

CRA - ATLANTA

David Brytowski
Conestoga, Rovers, & Associates, Inc.
1351 Oakbrook Drive
Suite 150
Norcross, GA 30093
TEL: (770) 441-0027
FAX (770) 441-2050

RE: Birdsong Peanut

Order No.: 0310024

Dear David Brytowski:

Analytical Environmental Servs, Inc. received 6 samples on 10/1/2003 11:15:00 AM for the analyses presented in the following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative. AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water, effective 07/02/03-06/30/04.
- AIHA Certification number 505 for analysis of Air, Paint Chips, Soil and Dust Wipes, effective until 10/01/03.

These results relate only to the items tested. This report may only be reproduced in full and contains 11 total pages (including cover letter).

If you have any questions regarding these test results, please feel free to call.

Sincerely,


Jason Holloway
Project Manager

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client CRA

Work Order Number 0310024

Checklist completed by W. H. Welsby 10/01/03
Signature Date

Carrier name: FedEx ☐ UPS ☐ Courier ☐ Client ☒ US Mail ☐ Other ☐

Shipping container/cooler in good condition? Yes ☒ No ☐ Not Present ☐

Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☒

Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒

Container/Temp Blank temperature in compliance? Yes ☒ No ☐

Cooler #1 4-5°C Cooler #2 ☐ Cooler #3 ☐ Cooler #4 ☐ Cooler #5 ☐ Cooler #6 ☐

Chain of custody present? Yes ☒ No ☐

Chain of custody signed when relinquished and received? Yes ☒ No ☐

Chain of custody agrees with sample labels? Yes ☒ No ☐

Samples in proper container/bottle? Yes ☒ No ☐

Sample containers intact? Yes ☒ No ☐

Sufficient sample volume for indicated test? Yes ☒ No ☐

All samples received within holding time? Yes ☒ No ☐

Was TAT marked on the COC? Yes ☒ No ☐

Proceed with Standard TAT as per project history? Yes ☐ No ☐ Not Applicable ☒

Water - VOA vials have zero headspace? No VOA vials submitted ☐ Yes ☒ No ☐

Water - pH acceptable upon receipt? Yes ☒ No ☐ Not Applicable ☐

Adjusted? ☐ Checked by ☐

See Case Narrative for resolution of the Non-Conformance.

Analytical Environmental Servs, Inc.

Date: 06-Oct-03

CLIENT: Conestoga, Rovers, & Associates, Inc.
Project: Birdsong Peanut
Lab Order: 0310024

CASE NARRATIVE

Sample/Cooler Receipt Non-Conformance:

A Trip Blank was provided but is not listed on the COC. Per client and project history, this sample will be placed on hold until notified by the client that it's analysis is required.

Analyte change request:

Per client request on 10/1/03, report 1,1-Dichloroethane instead of trans-1,2-Dichloroethene.

Analytical Environmental Servs, Inc.

Date: 06-Oct-03

CLIENT: Conestoga, Rovers, & Associates, Inc.
 Lab Order: 0310024
 Project: Birdsong Peanut
 Lab ID: 0310024-001A

Client Sample ID: GW-093003DJB-001
 Tag Number:
 Collection Date: 9/30/2003 3:45:00 PM
 Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B		Analyst: AD		
1,1-Dichloroethane	BRL	5.0		µg/L	1	10/2/2003 12:29:00 PM
cis-1,2-Dichloroethene	BRL	5.0		µg/L	1	10/2/2003 12:29:00 PM
Tetrachloroethene	430	50		µg/L	10	10/3/2003 5:11:00 PM
Trichloroethene	BRL	5.0		µg/L	1	10/2/2003 12:29:00 PM
Vinyl chloride	BRL	2.0		µg/L	1	10/2/2003 12:29:00 PM
Surr: 4-Bromofluorobenzene	89.6	71.8-143		%REC	1	10/2/2003 12:29:00 PM
Surr: 4-Bromofluorobenzene	86.7	71.8-143		%REC	10	10/3/2003 5:11:00 PM
Surr: Dibromofluoromethane	105	80.3-123		%REC	1	10/2/2003 12:29:00 PM
Surr: Dibromofluoromethane	106	80.3-123		%REC	10	10/3/2003 5:11:00 PM
Surr: Toluene-d8	95.6	70.1-142		%REC	1	10/2/2003 12:29:00 PM
Surr: Toluene-d8	90.7	70.1-142		%REC	10	10/3/2003 5:11:00 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
 BRL Below Reporting Limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 Rpt Limit Reporting Limit

B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P NELAC analyte certification pending
 S Spike Recovery outside accepted recovery limits

Analytical Environmental Servs, Inc.

Date: 06-Oct-03

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0310024
Project: Birdsong Peanut
Lab ID: 0310024-002A

Client Sample ID: GW-093003DJB-002
Tag Number:
Collection Date: 9/30/2003 4:00:00 PM
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
TCL VOLATILE ORGANICS						Analyst: AD
1,1-Dichloroethane	BRL	5.0		µg/L	1	10/2/2003 1:01:00 PM
cis-1,2-Dichloroethene	BRL	5.0		µg/L	1	10/2/2003 1:01:00 PM
Tetrachloroethene	8.0	5.0		µg/L	1	10/2/2003 1:01:00 PM
Trichloroethene	BRL	5.0		µg/L	1	10/2/2003 1:01:00 PM
Vinyl chloride	BRL	2.0		µg/L	1	10/2/2003 1:01:00 PM
Surr: 4-Bromofluorobenzene	86.7	71.8-143		%REC	1	10/2/2003 1:01:00 PM
Surr: Dibromofluoromethane	106	80.3-123		%REC	1	10/2/2003 1:01:00 PM
Surr: Toluene-d8	92.8	70.1-142		%REC	1	10/2/2003 1:01:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level
BRL	Below Reporting Limit
H	Holding times for preparation or analysis exceeded
N	Analyte not NELAC certified
Rpt Limit	Reporting Limit

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	NELAC analyte certification pending
S	Spike Recovery outside accepted recovery limits

Analytical Environmental Servs, Inc.

Date: 06-Oct-03

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0310024
Project: Birdsong Peanut
Lab ID: 0310024-003A

Client Sample ID: GW-093003DJB-003
Tag Number:
Collection Date: 9/30/2003 5:20:00 PM
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
TCL VOLATILE ORGANICS						Analyst: AD
1,1-Dichloroethane	BRL	5.0		µg/L	1	10/2/2003 1:33:00 PM
cis-1,2-Dichloroethene	BRL	5.0		µg/L	1	10/2/2003 1:33:00 PM
Tetrachloroethene	BRL	5.0		µg/L	1	10/2/2003 1:33:00 PM
Trichloroethene	BRL	5.0		µg/L	1	10/2/2003 1:33:00 PM
Vinyl chloride	BRL	2.0		µg/L	1	10/2/2003 1:33:00 PM
Surr: 4-Bromofluorobenzene	88.6	71.8-143		%REC	1	10/2/2003 1:33:00 PM
Surr: Dibromofluoromethane	103	80.3-123		%REC	1	10/2/2003 1:33:00 PM
Surr: Toluene-d8	90.3	70.1-142		%REC	1	10/2/2003 1:33:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level
BRL	Below Reporting Limit
H	Holding times for preparation or analysis exceeded
N	Analyte not NELAC certified
Rpt Limit	Reporting Limit

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	NELAC analyte certification pending
S	Spike Recovery outside accepted recovery limits

Analytical Environmental Servs, Inc.

Date: 06-Oct-03

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0310024
Project: Birdsong Peanut
Lab ID: 0310024-004A

Client Sample ID: GW-093003DJB-004
Tag Number:
Collection Date: 9/30/2003 6:20:00 PM
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
TCL VOLATILE ORGANICS						Analyst: AD
1,1-Dichloroethane	BRL	5.0		µg/L	1	10/2/2003 2:05:00 PM
cis-1,2-Dichloroethene	BRL	5.0		µg/L	1	10/2/2003 2:05:00 PM
Tetrachloroethene	BRL	5.0		µg/L	1	10/2/2003 2:05:00 PM
Trichloroethene	BRL	5.0		µg/L	1	10/2/2003 2:05:00 PM
Vinyl chloride	BRL	2.0		µg/L	1	10/2/2003 2:05:00 PM
Surr: 4-Bromofluorobenzene	89.8	71.8-143		%REC	1	10/2/2003 2:05:00 PM
Surr: Dibromofluoromethane	105	80.3-123		%REC	1	10/2/2003 2:05:00 PM
Surr: Toluene-d8	91.9	70.1-142		%REC	1	10/2/2003 2:05:00 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	N	Analyte not NELAC certified	P	NELAC analyte certification pending
	Rpt Limit	Reporting Limit	S	Spike Recovery outside accepted recovery limits

Analytical Environmental Servs, Inc.

Date: 06-Oct-03

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0310024
Project: Birdsong Peanut
Lab ID: 0310024-005A

Client Sample ID: GW-093003DJB-006
Tag Number:
Collection Date: 9/30/2003 6:55:00 PM
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
TCL VOLATILE ORGANICS			SW8260B			Analyst: AD
1,1-Dichloroethane	BRL	5.0		µg/L	1	10/2/2003 2:40:00 PM
cis-1,2-Dichloroethene	BRL	5.0		µg/L	1	10/2/2003 2:40:00 PM
Tetrachloroethene	20	5.0		µg/L	1	10/2/2003 2:40:00 PM
Trichloroethene	BRL	5.0		µg/L	1	10/2/2003 2:40:00 PM
Vinyl chloride	BRL	2.0		µg/L	1	10/2/2003 2:40:00 PM
Surr: 4-Bromofluorobenzene	88.9	71.8-143		%REC	1	10/2/2003 2:40:00 PM
Surr: Dibromofluoromethane	103	80.3-123		%REC	1	10/2/2003 2:40:00 PM
Surr: Toluene-d8	90.9	70.1-142		%REC	1	10/2/2003 2:40:00 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	N	Analyte not NELAC certified	P	NELAC analyte certification pending
	Rpt Limit	Reporting Limit	S	Spike Recovery outside accepted recovery limits

CLIENT: Conestoga, Rovers, & Associates, Inc.

Work Order: 0310024

Project: Birdsong Peanut

ANALYTICAL QC SUMMARY REPORT

BatchID: 38536

Sample ID 0309914-001AMS	SampType: MS	TestCode: 8260_TCL4.2	Units: µg/L	Prep Date: 9/30/2003	RunNo: 43321						
Client ID:	Batch ID: 38536	TestNo: SW8260B		Analysis Date: 10/1/2003	SeqNo: 792907						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichloroethene	49.56	5.0	50	0	99.1	66	128	0	0		
Surr: 4-Bromofluorobenzene	54.46	0	50	0	109	71.8	143	0	0		
Surr: Dibromofluoromethane	61.24	0	50	0	122	80.3	123	0	0		
Surr: Toluene-d8	55.05	0	50	0	110	70.1	142	0	0		

Sample ID 0309914-001AMSD	SampType: MSD	TestCode: 8260_TCL4.2	Units: µg/L	Prep Date: 9/30/2003	RunNo: 43321						
Client ID:	Batch ID: 38536	TestNo: SW8260B		Analysis Date: 10/1/2003	SeqNo: 792908						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichloroethene	46.11	5.0	50	0	92.2	66	128	49.56	7.21	30	
Surr: 4-Bromofluorobenzene	56.54	0	50	0	113	71.8	143	54.46	0	0	
Surr: Dibromofluoromethane	53.27	0	50	0	107	80.3	123	61.24	0	0	
Surr: Toluene-d8	56.17	0	50	0	112	70.1	142	55.05	0	0	

Sample ID	MB-38536	SampType:	MBLK	TestCode:	8260B_W	Units:	µg/L	Prep Date:	9/30/2003	RunNo:	43270			
Client ID:		Batch ID:	38536	TestNo:	SW8260B			Analysis Date:	9/30/2003	SeqNo:	792132			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane		BRL		5.0										
cis-1,2-Dichloroethene		BRL		5.0										
Tetrachloroethene		BRL		5.0										
Trichloroethene		BRL		5.0										
Vinyl chloride		BRL		5.0										
Surr: 4-Bromofluorobenzene		32.55		5.0	30	0		108	71.8	143	0	0		
Surr: Dibromofluoromethane		31.85		5.0	30	0		106	80.3	123	0	0		
Surr: Toluene-d8		33.54		5.0	30	0		112	70.1	142	0	0		

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

BRL Below Reporting Limit
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

E Value above quantitation range
N Analyte not NELAC certified

CLIENT: Conestoga, Rovers, & Associates, Inc.
Work Order: 0310024
Project: Birdsong Peanut

ANALYTICAL QC SUMMARY REPORT

BatchID: 38536

Sample ID	MB-38536	SampType:	MBLK	TestCode:	8260B_W	Units:	µg/L	Prep Date:	9/30/2003	RunNo:	43321	
Client ID:		Batch ID:	38536	TestNo:	SW8260B			Analysis Date:	10/1/2003	SeqNo:	792901	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane		BRL	5.0									
cis-1,2-Dichloroethene		BRL	5.0									
Tetrachloroethene		BRL	5.0									
Trichloroethene		BRL	5.0									
Vinyl chloride		BRL	5.0									
Surr: 4-Bromofluorobenzene		55.99	5.0	50	0	112	71.8	143	0	0		
Surr: Dibromofluoromethane		60.7	5.0	50	0	121	80.3	123	0	0		
Surr: Toluene-d8		54.35	5.0	50	0	109	70.1	142	0	0		

Sample ID	LCS-38536	SampType:	LCS	TestCode:	8260B_W	Units:	µg/L	Prep Date:	9/30/2003	RunNo:	43270	
Client ID:		Batch ID:	38536	TestNo:	SW8260B			Analysis Date:	9/30/2003	SeqNo:	794933	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichloroethene		23.32	5.0	25	0	93.3	70	125	0	0		
Surr: 4-Bromofluorobenzene		36.42	5.0	30	0	121	71.8	143	0	0		
Surr: Dibromofluoromethane		35.14	5.0	30	0	117	80.3	123	0	0		
Surr: Toluene-d8		35.12	5.0	30	0	117	70.1	142	0	0		

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		



AES

November 13, 2003

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

Thomas Lawrence
Conestoga, Rovers, & Associates, Inc.
1351 Oakbrook Drive
Suite 150
Norcross, GA 30093

TEL: (770) 441-0027

FAX (770) 441-2050

RE: Birdsong Peanut

Dear Thomas Lawrence:

RECEIVED

NOV 10 2003

CRA - ATLANTA

Order No.: 0311263

Analytical Environmental Servs, Inc. received 7 samples on 11/10/2003 10:00:00 AM for the analyses presented in the following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative. AES' certifications are as follows:

-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water, effective 07/02/03-06/30/04.

-AIHA Certification number 505 for analysis of Air, Paint Chips, Soil and Dust Wipes, effective until 10/01/03.

These results relate only to the items tested. This report may only be reproduced in full and contains 14 total pages (including cover letter).

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Jason Holloway

Project Manager Supervisor

1007(FORMS) — DEC 6, 93 — REV.D — (AF-01)

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client CRA Work Order Number 0311263

Checklist completed by Nyan Ogburn Signature Date 11/10/03

Carrier name: FedEx ☐ UPS ☐ Courier ☐ Client ☒ US Mail ☐ Other ☐

Shipping container/cooler in good condition? Yes ☒ No ☐ Not Present ☐

Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☒

Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒

Container/Temp Blank temperature in compliance? Yes ☒ No ☐

Cooler #1 3.9c Cooler #2 ☐ Cooler #3 ☐ Cooler #4 ☐ Cooler #5 ☐ Cooler #6 ☐

Chain of custody present? Yes ☒ No ☐

Chain of custody signed when relinquished and received? Yes ☒ No ☐

Chain of custody agrees with sample labels? Yes ☐ No ☒

Samples in proper container/bottle? Yes ☒ No ☐

Sample containers intact? Yes ☒ No ☐

Sufficient sample volume for indicated test? Yes ☒ No ☐

All samples received within holding time? Yes ☒ No ☐

Was TAT marked on the COC? Yes ☒ No ☐

Proceed with Standard TAT as per project history? Yes ☐ No ☐ Not Applicable ☒

Water - VOA vials have zero headspace? No VOA vials submitted ☐ Yes ☒ No ☐

Water - pH acceptable upon receipt? Yes ☒ No ☐ Not Applicable ☐

Adjusted? ☐ Checked by ☐

See Case Narrative for resolution of the Non-Conformance.

Analytical Environmental Servs, Inc.**Date:** 13-Nov-03**CLIENT:** Conestoga, Rovers, & Associates, Inc.**Project:** Birdsong Peanut**Lab Order:** 0311263**CASE NARRATIVE**

Sample Receipt Non-Conformance:

A Trip Blank was provided but is not listed on the COC. Per client and project history, this sample will be placed on hold until notified by the client that it's analysis is required.

Analytical Environmental Servs, Inc.

Date: 13-Nov-03

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0311263
Project: Birdsong Peanut
Lab ID: 0311263-001A

Client Sample ID: GW-110703-TL-001
Tag Number:
Collection Date: 11/7/2003
Matrix: GROUNDWATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
TCL VOLATILE ORGANICS						Analyst: AD
1,1-Dichloroethane	BRL	5.0		µg/L	1	11/11/2003 4:29:00 AM
cis-1,2-Dichloroethene	BRL	5.0		µg/L	1	11/11/2003 4:29:00 AM
Tetrachloroethene	BRL	5.0		µg/L	1	11/11/2003 4:29:00 AM
Trichloroethene	BRL	5.0		µg/L	1	11/11/2003 4:29:00 AM
Vinyl chloride	BRL	2.0		µg/L	1	11/11/2003 4:29:00 AM
Surr: 4-Bromofluorobenzene	103	71.8-143		%REC	1	11/11/2003 4:29:00 AM
Surr: Dibromofluoromethane	101	80.3-123		%REC	1	11/11/2003 4:29:00 AM
Surr: Toluene-d8	95.9	70.1-142		%REC	1	11/11/2003 4:29:00 AM

Qualifiers: * Value exceeds Maximum Contaminant Level
BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
N Analyte not NELAC certified
Rpt Limit Reporting Limit

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P NELAC analyte certification pending
S Spike Recovery outside accepted recovery limits

Analytical Environmental Servs, Inc.

Date: 13-Nov-03

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0311263
Project: Birdsong Peanut
Lab ID: 0311263-002A

Client Sample ID: GW-110703-TL-002
Tag Number:
Collection Date: 11/7/2003
Matrix: GROUNDWATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
TCL VOLATILE ORGANICS						Analyst: AD
1,1-Dichloroethane	BRL	5.0		µg/L	1	11/11/2003 5:33:00 AM
cis-1,2-Dichloroethene	BRL	5.0		µg/L	1	11/11/2003 5:33:00 AM
Tetrachloroethene	29	5.0		µg/L	1	11/11/2003 5:33:00 AM
Trichloroethene	BRL	5.0		µg/L	1	11/11/2003 5:33:00 AM
Vinyl chloride	BRL	2.0		µg/L	1	11/11/2003 5:33:00 AM
Surr: 4-Bromofluorobenzene	101	71.8-143		%REC	1	11/11/2003 5:33:00 AM
Surr: Dibromofluoromethane	101	80.3-123		%REC	1	11/11/2003 5:33:00 AM
Surr: Toluene-d8	97.0	70.1-142		%REC	1	11/11/2003 5:33:00 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level
BRL	Below Reporting Limit
H	Holding times for preparation or analysis exceeded
N	Analyte not NELAC certified
Rpt Limit	Reporting Limit

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	NELAC analyte certification pending
S	Spike Recovery outside accepted recovery limits

Analytical Environmental Servs, Inc.

Date: 13-Nov-03

CLIENT: Conestoga, Rovers, & Associates, Inc.

Client Sample ID: GW-110703-TL-003

Lab Order: 0311263

Tag Number:

Project: Birdsong Peanut

Collection Date: 11/7/2003

Lab ID: 0311263-003A

Matrix: GROUNDWATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B				Analyst: AD
1,1-Dichloroethane	BRL	5.0		µg/L	1	11/11/2003 6:05:00 AM
cis-1,2-Dichloroethene	BRL	5.0		µg/L	1	11/11/2003 6:05:00 AM
Tetrachloroethene	BRL	5.0		µg/L	1	11/11/2003 6:05:00 AM
Trichloroethene	BRL	5.0		µg/L	1	11/11/2003 6:05:00 AM
Vinyl chloride	BRL	2.0		µg/L	1	11/11/2003 6:05:00 AM
Surr: 4-Bromofluorobenzene	103	71.8-143		%REC	1	11/11/2003 6:05:00 AM
Surr: Dibromofluoromethane	100	80.3-123		%REC	1	11/11/2003 6:05:00 AM
Surr: Toluene-d8	92.4	70.1-142		%REC	1	11/11/2003 6:05:00 AM

Qualifiers: * Value exceeds Maximum Contaminant Level
BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
N Analyte not NELAC certified
Rpt Limit Reporting Limit

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P NELAC analyte certification pending
S Spike Recovery outside accepted recovery limits

Analytical Environmental Servs, Inc.

Date: 13-Nov-03

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0311263
Project: Birdsong Peanut
Lab ID: 0311263-004A

Client Sample ID: GW-110703-TL-004
Tag Number:
Collection Date: 11/7/2003
Matrix: GROUNDWATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
TCL VOLATILE ORGANICS						Analyst: AD
1,1-Dichloroethane	BRL	5.0		µg/L	1	11/11/2003 3:26:00 AM
cis-1,2-Dichloroethene	BRL	5.0		µg/L	1	11/11/2003 3:26:00 AM
Tetrachloroethene	180	5.0		µg/L	1	11/11/2003 3:26:00 AM
Trichloroethene	BRL	5.0		µg/L	1	11/11/2003 3:26:00 AM
Vinyl chloride	BRL	2.0		µg/L	1	11/11/2003 3:26:00 AM
Surr: 4-Bromofluorobenzene	102	71.8-143		%REC	1	11/11/2003 3:26:00 AM
Surr: Dibromofluoromethane	98.7	80.3-123		%REC	1	11/11/2003 3:26:00 AM
Surr: Toluene-d8	95.9	70.1-142		%REC	1	11/11/2003 3:26:00 AM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	N	Analyte not NELAC certified	P	NELAC analyte certification pending
	Rpt Limit	Reporting Limit	S	Spike Recovery outside accepted recovery limits

Analytical Environmental Servs, Inc.

Date: 13-Nov-03

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0311263
Project: Birdsong Peanut
Lab ID: 0311263-005A

Client Sample ID: GW-110703-TL-005
Tag Number:
Collection Date: 11/7/2003
Matrix: GROUNDWATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B		Analyst: AD		
1,1-Dichloroethane	BRL	5.0		µg/L	1	11/11/2003 5:01:00 AM
cis-1,2-Dichloroethene	BRL	5.0		µg/L	1	11/11/2003 5:01:00 AM
Tetrachloroethene	5.5	5.0		µg/L	1	11/11/2003 5:01:00 AM
Trichloroethene	BRL	5.0		µg/L	1	11/11/2003 5:01:00 AM
Vinyl chloride	BRL	2.0		µg/L	1	11/11/2003 5:01:00 AM
Surr: 4-Bromofluorobenzene	101	71.8-143		%REC	1	11/11/2003 5:01:00 AM
Surr: Dibromofluoromethane	103	80.3-123		%REC	1	11/11/2003 5:01:00 AM
Surr: Toluene-d8	96.8	70.1-142		%REC	1	11/11/2003 5:01:00 AM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	N	Analyte not NELAC certified	P	NELAC analyte certification pending
	Rpt Limit	Reporting Limit	S	Spike Recovery outside accepted recovery limits

Analytical Environmental Servs, Inc.

Date: 13-Nov-03

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0311263
Project: Birdsong Peanut
Lab ID: 0311263-006A

Client Sample ID: GW-110703-TL-006
Tag Number:
Collection Date: 11/7/2003
Matrix: GROUNDWATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
TCL VOLATILE ORGANICS			SW8260B			Analyst: AD
1,1-Dichloroethane	BRL	5.0		µg/L	1	11/11/2003 3:58:00 AM
cis-1,2-Dichloroethene	BRL	5.0		µg/L	1	11/11/2003 3:58:00 AM
Tetrachloroethene	BRL	5.0		µg/L	1	11/11/2003 3:58:00 AM
Trichloroethene	BRL	5.0		µg/L	1	11/11/2003 3:58:00 AM
Vinyl chloride	BRL	2.0		µg/L	1	11/11/2003 3:58:00 AM
Surr: 4-Bromofluorobenzene	102	71.8-143		%REC	1	11/11/2003 3:58:00 AM
Surr: Dibromofluoromethane	101	80.3-123		%REC	1	11/11/2003 3:58:00 AM
Surr: Toluene-d8	95.1	70.1-142		%REC	1	11/11/2003 3:58:00 AM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	N	Analyte not NELAC certified	P	NELAC analyte certification pending
	Rpt Limit	Reporting Limit	S	Spike Recovery outside accepted recovery limits

CLIENT: Conestoga, Rovers, & Associates, Inc.

Work Order: 0311263

Project: Birdsong Peanut

ANALYTICAL QC SUMMARY REPORT

BatchID: 39764

Sample ID	MB-39764	SampType:	MBLK	TestCode:	8260B_W	Units:	µg/L	Prep Date:	11/10/2003	RunNo:	44681
Client ID:		Batch ID:	39764	TestNo:	SW8260B			Analysis Date:	11/8/2003	SeqNo:	823292
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	BRL	5.0									
cis-1,2-Dichloroethene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Trichloroethene	BRL	5.0									
Vinyl chloride	BRL	5.0									
Surr: 4-Bromofluorobenzene	48.3	5.0	50	0	96.6	71.8	143	0	0		
Surr: Dibromofluoromethane	47.38	5.0	50	0	94.8	80.3	123	0	0		
Surr: Toluene-d8	46.25	5.0	50	0	92.5	70.1	142	0	0		

Sample ID	MB-39764	SampType:	MBLK	TestCode:	8260B_W	Units:	µg/L	Prep Date:	11/10/2003	RunNo:	44696	
Client ID:		Batch ID:	39764	TestNo:	SW8260B			Analysis Date:	11/10/2003	SeqNo:	823518	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane		BRL	5.0									
cis-1,2-Dichloroethene		BRL	5.0									
Tetrachloroethene		BRL	5.0									
Trichloroethene		BRL	5.0									
Vinyl chloride		BRL	5.0									
Surr: 4-Bromofluorobenzene		53.49	5.0	50	0	107	71.8	143	0	0		
Surr: Dibromofluoromethane		47.74	5.0	50	0	95.5	80.3	123	0	0		
Surr: Toluene-d8		48.85	5.0	50	0	97.7	70.1	142	0	0		

Sample ID	LCS-39764	SampType:	LCS	TestCode:	8260B_W	Units:	µg/L	Prep Date:	11/10/2003	RunNo:	44681			
Client ID:		Batch ID:	39764	TestNo:	SW8260B			Analysis Date:	11/8/2003	SeqNo:	823293			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichloroethene		48.35		5.0	50	0		96.7	70	125	0	0		
Surr: 4-Bromofluorobenzene		49.82		5.0	50	0		99.6	71.8	143	0	0		
Surr: Dibromofluoromethane		47.39		5.0	50	0		94.8	80.3	123	0	0		

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

BRL Below Reporting Limit
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

E Value above quantitation range
N Analyte not NELAC certified

CLIENT: Conestoga, Rovers, & Associates, Inc.
Work Order: 0311263
Project: Birdsong Peanut

ANALYTICAL QC SUMMARY REPORT

BatchID: 39764

Sample ID	LCS-39764	SampType:	LCS	TestCode:	8260B_W	Units:	µg/L	Prep Date:	11/10/2003	RunNo:	44681			
Client ID:		Batch ID:	39764	TestNo:	SW8260B			Analysis Date:	11/8/2003	SeqNo:	823293			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Toluene-d8		46.65		5.0	50	0		93.3	70.1	142	0	0		

Sample ID	LCS-39764	SampType:	LCS	TestCode:	8260B_W	Units:	µg/L	Prep Date:	11/10/2003	RunNo:	44696			
Client ID:		Batch ID:	39764	TestNo:	SW8260B			Analysis Date:	11/10/2003	SeqNo:	823519			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichloroethene		52.37		5.0	50	0		105	70	125	0	0		
Surr: 4-Bromofluorobenzene		54.46		5.0	50	0		109	71.8	143	0	0		
Surr: Dibromofluoromethane		44.94		5.0	50	0		89.9	80.3	123	0	0		
Surr: Toluene-d8		47.81		5.0	50	0		95.6	70.1	142	0	0		

Sample ID	0311226-001AMS	SampType: MS	TestCode: 8260B_W	Units: µg/L	Prep Date: 11/10/2003	RunNo: 44681					
Client ID:		Batch ID: 39764	TestNo: SW8260B		Analysis Date: 11/8/2003	SeqNo: 823302					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichloroethene	50.29	5.0	50	0	101	66	128	0	0		
Surr: 4-Bromofluorobenzene	50.27	5.0	50	0	101	71.8	143	0	0		
Surr: Dibromofluoromethane	46.88	5.0	50	0	93.8	80.3	123	0	0		
Surr: Toluene-d8	45.98	5.0	50	0	92	70.1	142	0	0		

Sample ID	0311226-001AMSD	SampType: MSD	TestCode: 8260B_W	Units: µg/L	Prep Date: 11/10/2003	RunNo: 44681					
Client ID:		Batch ID: 39764	TestNo: SW8260B		Analysis Date: 11/8/2003	SeqNo: 823303					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichloroethene	49.66	5.0	50	0	99.3	66	128	50.29	1.26	30	
Surr: 4-Bromofluorobenzene	51.49	5.0	50	0	103	71.8	143	50.27	0	0	
Surr: Dibromofluoromethane	47.08	5.0	50	0	94.2	80.3	123	46.88	0	0	
Surr: Toluene-d8	48.18	5.0	50	0	96.4	70.1	142	45.98	0	0	

Qualifiers: B Analyte detected in the associated Method Blank BRL Below Reporting Limit E Value above quantitation range
H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits N Analyte not NELAC certified
R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

CLIENT: Conestoga, Rovers, & Associates, Inc.
Work Order: 0311263
Project: Birdsong Peanut

ANALYTICAL QC SUMMARY REPORT

BatchID: 39780

Sample ID	0311264-005AMS	SampType:	MS	TestCode:	8260_TCL4.2	Units:	µg/L	Prep Date:	11/10/2003	RunNo:	44711
Client ID:		Batch ID:	39780	TestNo:	SW8260B			Analysis Date:	11/11/2003	SeqNo:	824431
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichloroethene	54.17	5.0	50	0	108	66	128	0	0		
Surr: 4-Bromofluorobenzene	50.24	0	50	0	100	71.8	143	0	0		
Surr: Dibromofluoromethane	48.04	0	50	0	96.1	80.3	123	0	0		
Surr: Toluene-d8	46.9	0	50	0	93.8	70.1	142	0	0		

Sample ID	0311264-005AMS	SampType:	MSD	TestCode:	8260_TCL4.2	Units:	µg/L	Prep Date:	11/10/2003	RunNo:	44711
Client ID:		Batch ID:	39780	TestNo:	SW8260B			Analysis Date:	11/11/2003	SeqNo:	824432
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichloroethene	50.68	5.0	50	0	101	66	128	54.17	6.66	30	
Surr: 4-Bromofluorobenzene	49.44	0	50	0	98.9	71.8	143	50.24	0	0	
Surr: Dibromofluoromethane	47.95	0	50	0	95.9	80.3	123	48.04	0	0	
Surr: Toluene-d8	46.78	0	50	0	93.6	70.1	142	46.9	0	0	

Sample ID	MB-39780	SampType:	MBLK	TestCode:	8260B_W	Units:	µg/L	Prep Date:	11/10/2003	RunNo:	44711
Client ID:		Batch ID:	39780	TestNo:	SW8260B			Analysis Date:	11/10/2003	SeqNo:	824154
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	BRL	5.0									
cis-1,2-Dichloroethene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Trichloroethene	BRL	5.0									
Vinyl chloride	BRL	5.0									
Surr: 4-Bromofluorobenzene	53.33	5.0	50	0	107	71.8	143	0	0		
Surr: Dibromofluoromethane	49.55	5.0	50	0	99.1	80.3	123	0	0		
Surr: Toluene-d8	48.63	5.0	50	0	97.3	70.1	142	0	0		

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

BRL Below Reporting Limit
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

E Value above quantitation range
N Analyte not NELAC certified

CLIENT: Conestoga, Rovers, & Associates, Inc.
Work Order: 0311263
Project: Birdsong Peanut

ANALYTICAL QC SUMMARY REPORT

BatchID: 39780

Sample ID	LCS-39780	SampType:	LCS	TestCode:	8260B_W	Units:	µg/L	Prep Date:	11/10/2003	RunNo:	44711			
Client ID:		Batch ID:	39780	TestNo:	SW8260B			Analysis Date:	11/11/2003	SeqNo:	824155			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichloroethene		50.57		5.0	50	0		101	70	125	0	0		
Surr: 4-Bromofluorobenzene		52.91		5.0	50	0		106	71.8	143	0	0		
Surr: Dibromofluoromethane		48.5		5.0	50	0		97	80.3	123	0	0		
Surr: Toluene-d8		48.1		5.0	50	0		96.2	70.1	142	0	0		

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

BRL Below Reporting Limit
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

E Value above quantitation range
N Analyte not NELAC certified



AES

August 24, 2005

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

Thomas Lawrence
Conestoga, Rovers, & Associates, Inc.
1412 Oakbrook Dr
Suite 180
Norcross, GA 30093

TEL: (770) 441-0027
FAX (770) 441-2050

RE: Birdsong Peanut

Dear Thomas Lawrence:



1828301
TAL

Order No.: 0508A78

Analytical Environmental Services, Inc. received 6 samples on 8/19/2005 5:25:00 PM for the analyses presented in the following report.

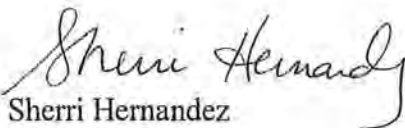
No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative. AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water, effective 06/01/05-06/30/06.
- AIHA Certification number 505 for analysis of Industrial Hygiene samples (Organics, Inorganics), Paint Chips, Soil and Dust Wipes, effective until 02/01/07.

These results relate only to the items tested. This report may only be reproduced in full and contains 19 total pages (including cover letter).

If you have any questions regarding these test results, please feel free to call.

Sincerely,



Sherri Hernandez
Project Manager

0508A78

1001 (D) APR 28/97(NF) REV. 0 (F-15)

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Conestoga - Rivers & Assoc.

Work Order Number 0508178

Checklist completed by Marcus D. Robinson 8-19-05
Signature Date

Carrier name: FedEx ☐ UPS ☐ Courier ☐ Client ☒ US Mail ☐ Other ☐

Shipping container/cooler in good condition? Yes ☒ No ☐ Not Present ☐

Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☒

Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒

Container/Temp Blank temperature in compliance? ($4^{\circ}\text{C} \pm 2$)* Yes ☒ No ☐

Cooler #1 444 Cooler #2 ☐ Cooler #3 ☐ Cooler #4 ☐ Cooler #5 ☐ Cooler #6 ☐

Chain of custody present? Yes ☒ No ☐

Chain of custody signed when relinquished and received? Yes ☒ No ☐

Chain of custody agrees with sample labels? Yes ☒ No ☐

Samples in proper container/bottle? Yes ☒ No ☐

Sample containers intact? Yes ☒ No ☐

Sufficient sample volume for indicated test? Yes ☒ No ☐

All samples received within holding time? Yes ☒ No ☐

Was TAT marked on the COC? Yes ☒ No ☐

Proceed with Standard TAT as per project history? Yes ☐ No ☐ Not Applicable ☒

Water - VOA vials have zero headspace? No VOA vials submitted ☐ Yes ☒ No ☐

Water - pH acceptable upon receipt? Yes ☒ No ☐ Not Applicable ☐

Adjusted? ☐ Checked by ☐

Sample Condition: Good ☒ Other(Explain) ☐

(For diffusive samples or AIHA lead) Is a known blank included? Yes ☐ No ☒

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Analytical Environmental Services, Inc.

Date: 24-Aug-05

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0508A78
Project: Birdsong Peanut
Lab ID: 0508A78-001A

Client Sample ID: GW-081905 SAG 007
Tag Number:
Collection Date: 8/19/2005
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	BatchID	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B		(SW5030B)	Analyst: TMP		
1,1,1-Trichloroethane	BRL	5.0		µg/L	61310	1	8/22/2005 12:00:00 PI
1,1,2,2-Tetrachloroethane	BRL	5.0		µg/L	61310	1	8/22/2005 12:00:00 PI
1,1,2-Trichloroethane	BRL	5.0		µg/L	61310	1	8/22/2005 12:00:00 PI
1,1-Dichloroethane	BRL	5.0		µg/L	61310	1	8/22/2005 12:00:00 PI
1,1-Dichloroethene	BRL	5.0		µg/L	61310	1	8/22/2005 12:00:00 PI
1,2,4-Trichlorobenzene	BRL	5.0		µg/L	61310	1	8/22/2005 12:00:00 PI
1,2-Dibromo-3-chloropropane	BRL	5.0		µg/L	61310	1	8/22/2005 12:00:00 PI
1,2-Dibromoethane	BRL	5.0		µg/L	61310	1	8/22/2005 12:00:00 PI
1,2-Dichlorobenzene	BRL	5.0		µg/L	61310	1	8/22/2005 12:00:00 PI
1,2-Dichloroethane	BRL	5.0		µg/L	61310	1	8/22/2005 12:00:00 PI
1,2-Dichloropropane	BRL	5.0		µg/L	61310	1	8/22/2005 12:00:00 PI
1,3-Dichlorobenzene	BRL	5.0		µg/L	61310	1	8/22/2005 12:00:00 PI
1,4-Dichlorobenzene	BRL	5.0		µg/L	61310	1	8/22/2005 12:00:00 PI
2-Butanone	BRL	50		µg/L	61310	1	8/22/2005 12:00:00 PI
2-Hexanone	BRL	10		µg/L	61310	1	8/22/2005 12:00:00 PI
4-Methyl-2-pentanone	BRL	10		µg/L	61310	1	8/22/2005 12:00:00 PI
Acetone	BRL	50		µg/L	61310	1	8/22/2005 12:00:00 PI
Benzene	BRL	5.0		µg/L	61310	1	8/22/2005 12:00:00 PI
Bromodichloromethane	BRL	5.0		µg/L	61310	1	8/22/2005 12:00:00 PI
Bromoform	BRL	5.0		µg/L	61310	1	8/22/2005 12:00:00 PI
Bromomethane	BRL	5.0		µg/L	61310	1	8/22/2005 12:00:00 PI
Carbon disulfide	BRL	5.0		µg/L	61310	1	8/22/2005 12:00:00 PI
Carbon tetrachloride	BRL	5.0		µg/L	61310	1	8/22/2005 12:00:00 PI
Chlorobenzene	BRL	5.0		µg/L	61310	1	8/22/2005 12:00:00 PI
Chloroethane	BRL	10		µg/L	61310	1	8/22/2005 12:00:00 PI
Chloroform	BRL	5.0		µg/L	61310	1	8/22/2005 12:00:00 PI
Chloromethane	BRL	10		µg/L	61310	1	8/22/2005 12:00:00 PI
cis-1,2-Dichloroethene	BRL	5.0		µg/L	61310	1	8/22/2005 12:00:00 PI
cis-1,3-Dichloropropene	BRL	5.0		µg/L	61310	1	8/22/2005 12:00:00 PI
Cyclohexane	BRL	5.0		µg/L	61310	1	8/22/2005 12:00:00 PI
Dibromochloromethane	BRL	5.0		µg/L	61310	1	8/22/2005 12:00:00 PI
Dichlorodifluoromethane	BRL	10		µg/L	61310	1	8/22/2005 12:00:00 PI
Ethylbenzene	BRL	5.0		µg/L	61310	1	8/22/2005 12:00:00 PI
Freon-113	BRL	10		µg/L	61310	1	8/22/2005 12:00:00 PI
Isopropylbenzene	BRL	5.0		µg/L	61310	1	8/22/2005 12:00:00 PI
m,p-Xylene	BRL	10		µg/L	61310	1	8/22/2005 12:00:00 PI
Methyl acetate	BRL	5.0		µg/L	61310	1	8/22/2005 12:00:00 PI
Methyl tert-butyl ether	BRL	5.0		µg/L	61310	1	8/22/2005 12:00:00 PI
Methylcyclohexane	BRL	5.0		µg/L	61310	1	8/22/2005 12:00:00 PI
Methylene chloride	BRL	5.0		µg/L	61310	1	8/22/2005 12:00:00 PI

Qualifiers: * Value exceeds Maximum Contaminant Level
BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
N Analyte not NELAC certified
Rpt Limit Reporting Limit

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P NELAC analyte certification pending
S Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: 24-Aug-05

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0508A78
Project: Birdsong Peanut
Lab ID: 0508A78-001A

Client Sample ID: GW-081905 SAG 007
Tag Number:
Collection Date: 8/19/2005
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	BatchID	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B			(SW5030B)		Analyst: TMP
o-Xylene	BRL	5.0		µg/L	61310	1	8/22/2005 12:00:00 PI
Styrene	BRL	5.0		µg/L	61310	1	8/22/2005 12:00:00 PI
Tetrachloroethene	BRL	5.0		µg/L	61310	1	8/22/2005 12:00:00 PI
Toluene	BRL	5.0		µg/L	61310	1	8/22/2005 12:00:00 PI
trans-1,2-Dichloroethene	BRL	5.0		µg/L	61310	1	8/22/2005 12:00:00 PI
trans-1,3-Dichloropropene	BRL	5.0		µg/L	61310	1	8/22/2005 12:00:00 PI
Trichloroethene	BRL	5.0		µg/L	61310	1	8/22/2005 12:00:00 PI
Trichlorofluoromethane	BRL	5.0		µg/L	61310	1	8/22/2005 12:00:00 PI
Vinyl chloride	BRL	2.0		µg/L	61310	1	8/22/2005 12:00:00 PI
Surr: 4-Bromofluorobenzene	93.8	66.7-128		%REC	61310	1	8/22/2005 12:00:00 PI
Surr: Dibromofluoromethane	98.9	72.1-121		%REC	61310	1	8/22/2005 12:00:00 PI
Surr: Toluene-d8	109	75.2-121		%REC	61310	1	8/22/2005 12:00:00 PI

Qualifiers:

*	Value exceeds Maximum Contaminant Level
BRL	Below Reporting Limit
H	Holding times for preparation or analysis exceeded
N	Analyte not NELAC certified
Rpt Limit	Reporting Limit

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	NELAC analyte certification pending
S	Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: 24-Aug-05

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0508A78
Project: Birdsong Peanut
Lab ID: 0508A78-002A

Client Sample ID: GW-081905 SAG-008
Tag Number:
Collection Date: 8/19/2005
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	BatchID	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B			(SW5030B)		Analyst: TMP
1,1,1-Trichloroethane	BRL	5.0		µg/L	61310	1	8/22/2005 10:14:00 AI
1,1,2,2-Tetrachloroethane	BRL	5.0		µg/L	61310	1	8/22/2005 10:14:00 AI
1,1,2-Trichloroethane	BRL	5.0		µg/L	61310	1	8/22/2005 10:14:00 AI
1,1-Dichloroethane	BRL	5.0		µg/L	61310	1	8/22/2005 10:14:00 AI
1,1-Dichloroethene	BRL	5.0		µg/L	61310	1	8/22/2005 10:14:00 AI
1,2,4-Trichlorobenzene	BRL	5.0		µg/L	61310	1	8/22/2005 10:14:00 AI
1,2-Dibromo-3-chloropropane	BRL	5.0		µg/L	61310	1	8/22/2005 10:14:00 AI
1,2-Dibromoethane	BRL	5.0		µg/L	61310	1	8/22/2005 10:14:00 AI
1,2-Dichlorobenzene	BRL	5.0		µg/L	61310	1	8/22/2005 10:14:00 AI
1,2-Dichloroethane	BRL	5.0		µg/L	61310	1	8/22/2005 10:14:00 AI
1,2-Dichloropropane	BRL	5.0		µg/L	61310	1	8/22/2005 10:14:00 AI
1,3-Dichlorobenzene	BRL	5.0		µg/L	61310	1	8/22/2005 10:14:00 AI
1,4-Dichlorobenzene	BRL	5.0		µg/L	61310	1	8/22/2005 10:14:00 AI
2-Butanone	BRL	50		µg/L	61310	1	8/22/2005 10:14:00 AI
2-Hexanone	BRL	10		µg/L	61310	1	8/22/2005 10:14:00 AI
4-Methyl-2-pentanone	BRL	10		µg/L	61310	1	8/22/2005 10:14:00 AI
Acetone	BRL	50		µg/L	61310	1	8/22/2005 10:14:00 AI
Benzene	BRL	5.0		µg/L	61310	1	8/22/2005 10:14:00 AI
Bromodichloromethane	BRL	5.0		µg/L	61310	1	8/22/2005 10:14:00 AI
Bromoform	BRL	5.0		µg/L	61310	1	8/22/2005 10:14:00 AI
Bromomethane	BRL	5.0		µg/L	61310	1	8/22/2005 10:14:00 AI
Carbon disulfide	BRL	5.0		µg/L	61310	1	8/22/2005 10:14:00 AI
Carbon tetrachloride	BRL	5.0		µg/L	61310	1	8/22/2005 10:14:00 AI
Chlorobenzene	BRL	5.0		µg/L	61310	1	8/22/2005 10:14:00 AI
Chloroethane	BRL	10		µg/L	61310	1	8/22/2005 10:14:00 AI
Chloroform	BRL	5.0		µg/L	61310	1	8/22/2005 10:14:00 AI
Chloromethane	BRL	10		µg/L	61310	1	8/22/2005 10:14:00 AI
cis-1,2-Dichloroethene	BRL	5.0		µg/L	61310	1	8/22/2005 10:14:00 AI
cis-1,3-Dichloropropene	BRL	5.0		µg/L	61310	1	8/22/2005 10:14:00 AI
Cyclohexane	BRL	5.0		µg/L	61310	1	8/22/2005 10:14:00 AI
Dibromochloromethane	BRL	5.0		µg/L	61310	1	8/22/2005 10:14:00 AI
Dichlorodifluoromethane	BRL	10		µg/L	61310	1	8/22/2005 10:14:00 AI
Ethylbenzene	BRL	5.0		µg/L	61310	1	8/22/2005 10:14:00 AI
Freon-113	BRL	10		µg/L	61310	1	8/22/2005 10:14:00 AI
Isopropylbenzene	BRL	5.0		µg/L	61310	1	8/22/2005 10:14:00 AI
m,p-Xylene	BRL	10		µg/L	61310	1	8/22/2005 10:14:00 AI
Methyl acetate	BRL	5.0		µg/L	61310	1	8/22/2005 10:14:00 AI
Methyl tert-butyl ether	BRL	5.0		µg/L	61310	1	8/22/2005 10:14:00 AI
Methylcyclohexane	BRL	5.0		µg/L	61310	1	8/22/2005 10:14:00 AI
Methylene chloride	BRL	5.0		µg/L	61310	1	8/22/2005 10:14:00 AI

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	N	Analyte not NELAC certified	P	NELAC analyte certification pending
	Rpt Limit	Reporting Limit	S	Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: 24-Aug-05

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0508A78
Project: Birdsong Peanut
Lab ID: 0508A78-002A

Client Sample ID: GW-081905 SAG-008
Tag Number:
Collection Date: 8/19/2005
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	BatchID	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B			(SW5030B)		Analyst: TMP
o-Xylene	BRL	5.0		µg/L	61310	1	8/22/2005 10:14:00 AI
Styrene	BRL	5.0		µg/L	61310	1	8/22/2005 10:14:00 AI
Tetrachloroethene	11	5.0		µg/L	61310	1	8/22/2005 10:14:00 AI
Toluene	BRL	5.0		µg/L	61310	1	8/22/2005 10:14:00 AI
trans-1,2-Dichloroethene	BRL	5.0		µg/L	61310	1	8/22/2005 10:14:00 AI
trans-1,3-Dichloropropene	BRL	5.0		µg/L	61310	1	8/22/2005 10:14:00 AI
Trichloroethene	BRL	5.0		µg/L	61310	1	8/22/2005 10:14:00 AI
Trichlorofluoromethane	BRL	5.0		µg/L	61310	1	8/22/2005 10:14:00 AI
Vinyl chloride	BRL	2.0		µg/L	61310	1	8/22/2005 10:14:00 AI
Surr: 4-Bromofluorobenzene	96.6	66.7-128		%REC	61310	1	8/22/2005 10:14:00 AI
Surr: Dibromofluoromethane	103	72.1-121		%REC	61310	1	8/22/2005 10:14:00 AI
Surr: Toluene-d8	106	75.2-121		%REC	61310	1	8/22/2005 10:14:00 AI

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- BRL Below Reporting Limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- Rpt Limit Reporting Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P NELAC analyte certification pending
- S Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: 24-Aug-05

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0508A78
Project: Birdsong Peanut
Lab ID: 0508A78-003A

Client Sample ID: GW-081905 SAG-009
Tag Number:
Collection Date: 8/19/2005
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	BatchID	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B		(SW5030B)	Analyst: TMP		
1,1,1-Trichloroethane	BRL	5.0		µg/L	61310	1	8/22/2005 12:53:00 PI
1,1,2,2-Tetrachloroethane	BRL	5.0		µg/L	61310	1	8/22/2005 12:53:00 PI
1,1,2-Trichloroethane	BRL	5.0		µg/L	61310	1	8/22/2005 12:53:00 PI
1,1-Dichloroethane	BRL	5.0		µg/L	61310	1	8/22/2005 12:53:00 PI
1,1-Dichloroethene	BRL	5.0		µg/L	61310	1	8/22/2005 12:53:00 PI
1,2,4-Trichlorobenzene	BRL	5.0		µg/L	61310	1	8/22/2005 12:53:00 PI
1,2-Dibromo-3-chloropropane	BRL	5.0		µg/L	61310	1	8/22/2005 12:53:00 PI
1,2-Dibromoethane	BRL	5.0		µg/L	61310	1	8/22/2005 12:53:00 PI
1,2-Dichlorobenzene	BRL	5.0		µg/L	61310	1	8/22/2005 12:53:00 PI
1,2-Dichloroethane	BRL	5.0		µg/L	61310	1	8/22/2005 12:53:00 PI
1,2-Dichloropropane	BRL	5.0		µg/L	61310	1	8/22/2005 12:53:00 PI
1,3-Dichlorobenzene	BRL	5.0		µg/L	61310	1	8/22/2005 12:53:00 PI
1,4-Dichlorobenzene	BRL	5.0		µg/L	61310	1	8/22/2005 12:53:00 PI
2-Butanone	BRL	50		µg/L	61310	1	8/22/2005 12:53:00 PI
2-Hexanone	BRL	10		µg/L	61310	1	8/22/2005 12:53:00 PI
4-Methyl-2-pentanone	BRL	10		µg/L	61310	1	8/22/2005 12:53:00 PI
Acetone	BRL	50		µg/L	61310	1	8/22/2005 12:53:00 PI
Benzene	BRL	5.0		µg/L	61310	1	8/22/2005 12:53:00 PI
Bromodichloromethane	BRL	5.0		µg/L	61310	1	8/22/2005 12:53:00 PI
Bromoform	BRL	5.0		µg/L	61310	1	8/22/2005 12:53:00 PI
Bromomethane	BRL	5.0		µg/L	61310	1	8/22/2005 12:53:00 PI
Carbon disulfide	BRL	5.0		µg/L	61310	1	8/22/2005 12:53:00 PI
Carbon tetrachloride	BRL	5.0		µg/L	61310	1	8/22/2005 12:53:00 PI
Chlorobenzene	BRL	5.0		µg/L	61310	1	8/22/2005 12:53:00 PI
Chloroethane	BRL	10		µg/L	61310	1	8/22/2005 12:53:00 PI
Chloroform	BRL	5.0		µg/L	61310	1	8/22/2005 12:53:00 PI
Chloromethane	BRL	10		µg/L	61310	1	8/22/2005 12:53:00 PI
cis-1,2-Dichloroethene	BRL	5.0		µg/L	61310	1	8/22/2005 12:53:00 PI
cis-1,3-Dichloropropene	BRL	5.0		µg/L	61310	1	8/22/2005 12:53:00 PI
Cyclohexane	BRL	5.0		µg/L	61310	1	8/22/2005 12:53:00 PI
Dibromochloromethane	BRL	5.0		µg/L	61310	1	8/22/2005 12:53:00 PI
Dichlorodifluoromethane	BRL	10		µg/L	61310	1	8/22/2005 12:53:00 PI
Ethylbenzene	BRL	5.0		µg/L	61310	1	8/22/2005 12:53:00 PI
Freon-113	BRL	10		µg/L	61310	1	8/22/2005 12:53:00 PI
Isopropylbenzene	BRL	5.0		µg/L	61310	1	8/22/2005 12:53:00 PI
m,p-Xylene	BRL	10		µg/L	61310	1	8/22/2005 12:53:00 PI
Methyl acetate	BRL	5.0		µg/L	61310	1	8/22/2005 12:53:00 PI
Methyl tert-butyl ether	BRL	5.0		µg/L	61310	1	8/22/2005 12:53:00 PI
Methylcyclohexane	BRL	5.0		µg/L	61310	1	8/22/2005 12:53:00 PI
Methylene chloride	BRL	5.0		µg/L	61310	1	8/22/2005 12:53:00 PI

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	N	Analyte not NELAC certified	P	NELAC analyte certification pending
	Rpt Limit	Reporting Limit	S	Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: 24-Aug-05

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0508A78
Project: Birdsong Peanut
Lab ID: 0508A78-003A

Client Sample ID: GW-081905 SAG-009
Tag Number:
Collection Date: 8/19/2005
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	BatchID	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B		(SW5030B)			Analyst: TMP
o-Xylene	BRL	5.0		µg/L	61310	1	8/22/2005 12:53:00 PI
Styrene	BRL	5.0		µg/L	61310	1	8/22/2005 12:53:00 PI
Tetrachloroethene	BRL	5.0		µg/L	61310	1	8/22/2005 12:53:00 PI
Toluene	BRL	5.0		µg/L	61310	1	8/22/2005 12:53:00 PI
trans-1,2-Dichloroethene	BRL	5.0		µg/L	61310	1	8/22/2005 12:53:00 PI
trans-1,3-Dichloropropene	BRL	5.0		µg/L	61310	1	8/22/2005 12:53:00 PI
Trichloroethene	BRL	5.0		µg/L	61310	1	8/22/2005 12:53:00 PI
Trichlorofluoromethane	BRL	5.0		µg/L	61310	1	8/22/2005 12:53:00 PI
Vinyl chloride	BRL	2.0		µg/L	61310	1	8/22/2005 12:53:00 PI
Surr: 4-Bromofluorobenzene	93.3	66.7-128		%REC	61310	1	8/22/2005 12:53:00 PI
Surr: Dibromofluoromethane	101	72.1-121		%REC	61310	1	8/22/2005 12:53:00 PI
Surr: Toluene-d8	109	75.2-121		%REC	61310	1	8/22/2005 12:53:00 PI

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	N	Analyte not NELAC certified	P	NELAC analyte certification pending
	Rpt Limit	Reporting Limit	S	Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: 24-Aug-05

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0508A78
Project: Birdsong Peanut
Lab ID: 0508A78-004A

Client Sample ID: GW-081905 DJB-011
Tag Number:
Collection Date: 8/19/2005
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	BatchID	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B		(SW5030B)	Analyst: TMP		
1,1,1-Trichloroethane	BRL	5.0		µg/L	61310	1	8/22/2005 3:59:00 PM
1,1,2,2-Tetrachloroethane	BRL	5.0		µg/L	61310	1	8/22/2005 3:59:00 PM
1,1,2-Trichloroethane	BRL	5.0		µg/L	61310	1	8/22/2005 3:59:00 PM
1,1-Dichloroethane	BRL	5.0		µg/L	61310	1	8/22/2005 3:59:00 PM
1,1-Dichloroethene	BRL	5.0		µg/L	61310	1	8/22/2005 3:59:00 PM
1,2,4-Trichlorobenzene	BRL	5.0		µg/L	61310	1	8/22/2005 3:59:00 PM
1,2-Dibromo-3-chloropropane	BRL	5.0		µg/L	61310	1	8/22/2005 3:59:00 PM
1,2-Dibromoethane	BRL	5.0		µg/L	61310	1	8/22/2005 3:59:00 PM
1,2-Dichlorobenzene	BRL	5.0		µg/L	61310	1	8/22/2005 3:59:00 PM
1,2-Dichloroethane	BRL	5.0		µg/L	61310	1	8/22/2005 3:59:00 PM
1,2-Dichloropropane	BRL	5.0		µg/L	61310	1	8/22/2005 3:59:00 PM
1,3-Dichlorobenzene	BRL	5.0		µg/L	61310	1	8/22/2005 3:59:00 PM
1,4-Dichlorobenzene	BRL	5.0		µg/L	61310	1	8/22/2005 3:59:00 PM
2-Butanone	BRL	50		µg/L	61310	1	8/22/2005 3:59:00 PM
2-Hexanone	BRL	10		µg/L	61310	1	8/22/2005 3:59:00 PM
4-Methyl-2-pentanone	BRL	10		µg/L	61310	1	8/22/2005 3:59:00 PM
Acetone	BRL	50		µg/L	61310	1	8/22/2005 3:59:00 PM
Benzene	BRL	5.0		µg/L	61310	1	8/22/2005 3:59:00 PM
Bromodichloromethane	BRL	5.0		µg/L	61310	1	8/22/2005 3:59:00 PM
Bromoform	BRL	5.0		µg/L	61310	1	8/22/2005 3:59:00 PM
Bromomethane	BRL	5.0		µg/L	61310	1	8/22/2005 3:59:00 PM
Carbon disulfide	BRL	5.0		µg/L	61310	1	8/22/2005 3:59:00 PM
Carbon tetrachloride	BRL	5.0		µg/L	61310	1	8/22/2005 3:59:00 PM
Chlorobenzene	BRL	5.0		µg/L	61310	1	8/22/2005 3:59:00 PM
Chloroethane	BRL	10		µg/L	61310	1	8/22/2005 3:59:00 PM
Chloroform	BRL	5.0		µg/L	61310	1	8/22/2005 3:59:00 PM
Chloromethane	BRL	10		µg/L	61310	1	8/22/2005 3:59:00 PM
cis-1,2-Dichloroethene	BRL	5.0		µg/L	61310	1	8/22/2005 3:59:00 PM
cis-1,3-Dichloropropene	BRL	5.0		µg/L	61310	1	8/22/2005 3:59:00 PM
Cyclohexane	BRL	5.0		µg/L	61310	1	8/22/2005 3:59:00 PM
Dibromochloromethane	BRL	5.0		µg/L	61310	1	8/22/2005 3:59:00 PM
Dichlorodifluoromethane	BRL	10		µg/L	61310	1	8/22/2005 3:59:00 PM
Ethylbenzene	BRL	5.0		µg/L	61310	1	8/22/2005 3:59:00 PM
Freon-113	BRL	10		µg/L	61310	1	8/22/2005 3:59:00 PM
Isopropylbenzene	BRL	5.0		µg/L	61310	1	8/22/2005 3:59:00 PM
m,p-Xylene	BRL	10		µg/L	61310	1	8/22/2005 3:59:00 PM
Methyl acetate	BRL	5.0		µg/L	61310	1	8/22/2005 3:59:00 PM
Methyl tert-butyl ether	BRL	5.0		µg/L	61310	1	8/22/2005 3:59:00 PM
Methylcyclohexane	BRL	5.0		µg/L	61310	1	8/22/2005 3:59:00 PM
Methylene chloride	BRL	5.0		µg/L	61310	1	8/22/2005 3:59:00 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	N	Analyte not NELAC certified	P	NELAC analyte certification pending
	Rpt Limit	Reporting Limit	S	Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: 24-Aug-05

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0508A78
Project: Birdsong Peanut
Lab ID: 0508A78-004A

Client Sample ID: GW-081905 DJB-011
Tag Number:
Collection Date: 8/19/2005
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	BatchID	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B			(SW5030B)		Analyst: TMP
o-Xylene	BRL	5.0		µg/L	61310	1	8/22/2005 3:59:00 PM
Styrene	BRL	5.0		µg/L	61310	1	8/22/2005 3:59:00 PM
Tetrachloroethene	BRL	5.0		µg/L	61310	1	8/22/2005 3:59:00 PM
Toluene	6.3	5.0		µg/L	61310	1	8/22/2005 3:59:00 PM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	61310	1	8/22/2005 3:59:00 PM
trans-1,3-Dichloropropene	BRL	5.0		µg/L	61310	1	8/22/2005 3:59:00 PM
Trichloroethene	BRL	5.0		µg/L	61310	1	8/22/2005 3:59:00 PM
Trichlorofluoromethane	BRL	5.0		µg/L	61310	1	8/22/2005 3:59:00 PM
Vinyl chloride	BRL	2.0		µg/L	61310	1	8/22/2005 3:59:00 PM
Surr: 4-Bromofluorobenzene	93.4	66.7-128		%REC	61310	1	8/22/2005 3:59:00 PM
Surr: Dibromofluoromethane	105	72.1-121		%REC	61310	1	8/22/2005 3:59:00 PM
Surr: Toluene-d8	109	75.2-121		%REC	61310	1	8/22/2005 3:59:00 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	N	Analyte not NELAC certified	P	NELAC analyte certification pending
	Rpt Limit	Reporting Limit	S	Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: 24-Aug-05

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0508A78
Project: Birdsong Peanut
Lab ID: 0508A78-005A

Client Sample ID: GW-081905 DJB-012
Tag Number:
Collection Date: 8/19/2005
Matrix: AQUEOUS

Analyses	Result	Limit Qual	Units	BatchID	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B		(SW5030B)		Analyst: TMP
1,1,1-Trichloroethane	BRL	5.0	µg/L	61310	1	8/22/2005 4:26:00 PM
1,1,2,2-Tetrachloroethane	BRL	5.0	µg/L	61310	1	8/22/2005 4:26:00 PM
1,1,2-Trichloroethane	BRL	5.0	µg/L	61310	1	8/22/2005 4:26:00 PM
1,1-Dichloroethane	BRL	5.0	µg/L	61310	1	8/22/2005 4:26:00 PM
1,1-Dichloroethene	BRL	5.0	µg/L	61310	1	8/22/2005 4:26:00 PM
1,2,4-Trichlorobenzene	BRL	5.0	µg/L	61310	1	8/22/2005 4:26:00 PM
1,2-Dibromo-3-chloropropane	BRL	5.0	µg/L	61310	1	8/22/2005 4:26:00 PM
1,2-Dibromoethane	BRL	5.0	µg/L	61310	1	8/22/2005 4:26:00 PM
1,2-Dichlorobenzene	BRL	5.0	µg/L	61310	1	8/22/2005 4:26:00 PM
1,2-Dichloroethane	BRL	5.0	µg/L	61310	1	8/22/2005 4:26:00 PM
1,2-Dichloropropane	BRL	5.0	µg/L	61310	1	8/22/2005 4:26:00 PM
1,3-Dichlorobenzene	BRL	5.0	µg/L	61310	1	8/22/2005 4:26:00 PM
1,4-Dichlorobenzene	BRL	5.0	µg/L	61310	1	8/22/2005 4:26:00 PM
2-Butanone	BRL	50	µg/L	61310	1	8/22/2005 4:26:00 PM
2-Hexanone	BRL	10	µg/L	61310	1	8/22/2005 4:26:00 PM
4-Methyl-2-pentanone	BRL	10	µg/L	61310	1	8/22/2005 4:26:00 PM
Acetone	BRL	50	µg/L	61310	1	8/22/2005 4:26:00 PM
Benzene	BRL	5.0	µg/L	61310	1	8/22/2005 4:26:00 PM
Bromodichloromethane	BRL	5.0	µg/L	61310	1	8/22/2005 4:26:00 PM
Bromoform	BRL	5.0	µg/L	61310	1	8/22/2005 4:26:00 PM
Bromomethane	BRL	5.0	µg/L	61310	1	8/22/2005 4:26:00 PM
Carbon disulfide	BRL	5.0	µg/L	61310	1	8/22/2005 4:26:00 PM
Carbon tetrachloride	BRL	5.0	µg/L	61310	1	8/22/2005 4:26:00 PM
Chlorobenzene	BRL	5.0	µg/L	61310	1	8/22/2005 4:26:00 PM
Chloroethane	BRL	10	µg/L	61310	1	8/22/2005 4:26:00 PM
Chloroform	BRL	5.0	µg/L	61310	1	8/22/2005 4:26:00 PM
Chloromethane	BRL	10	µg/L	61310	1	8/22/2005 4:26:00 PM
cis-1,2-Dichloroethene	BRL	5.0	µg/L	61310	1	8/22/2005 4:26:00 PM
cis-1,3-Dichloropropene	BRL	5.0	µg/L	61310	1	8/22/2005 4:26:00 PM
Cyclohexane	BRL	5.0	µg/L	61310	1	8/22/2005 4:26:00 PM
Dibromochloromethane	BRL	5.0	µg/L	61310	1	8/22/2005 4:26:00 PM
Dichlorodifluoromethane	BRL	10	µg/L	61310	1	8/22/2005 4:26:00 PM
Ethylbenzene	BRL	5.0	µg/L	61310	1	8/22/2005 4:26:00 PM
Freon-113	BRL	10	µg/L	61310	1	8/22/2005 4:26:00 PM
Isopropylbenzene	BRL	5.0	µg/L	61310	1	8/22/2005 4:26:00 PM
m,p-Xylene	BRL	10	µg/L	61310	1	8/22/2005 4:26:00 PM
Methyl acetate	BRL	5.0	µg/L	61310	1	8/22/2005 4:26:00 PM
Methyl tert-butyl ether	BRL	5.0	µg/L	61310	1	8/22/2005 4:26:00 PM
Methylcyclohexane	BRL	5.0	µg/L	61310	1	8/22/2005 4:26:00 PM
Methylene chloride	BRL	5.0	µg/L	61310	1	8/22/2005 4:26:00 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	N	Analyte not NELAC certified	P	NELAC analyte certification pending
	Rpt Limit	Reporting Limit	S	Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: 24-Aug-05

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0508A78
Project: Birdsong Peanut
Lab ID: 0508A78-005A

Client Sample ID: GW-081905 DJB-012
Tag Number:
Collection Date: 8/19/2005
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	BatchID	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B			(SW5030B)		Analyst: TMP
o-Xylene	BRL	5.0		µg/L	61310	1	8/22/2005 4:26:00 PM
Styrene	BRL	5.0		µg/L	61310	1	8/22/2005 4:26:00 PM
Tetrachloroethene	BRL	5.0		µg/L	61310	1	8/22/2005 4:26:00 PM
Toluene	5.2	5.0		µg/L	61310	1	8/22/2005 4:26:00 PM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	61310	1	8/22/2005 4:26:00 PM
trans-1,3-Dichloropropene	BRL	5.0		µg/L	61310	1	8/22/2005 4:26:00 PM
Trichloroethene	BRL	5.0		µg/L	61310	1	8/22/2005 4:26:00 PM
Trichlorofluoromethane	BRL	5.0		µg/L	61310	1	8/22/2005 4:26:00 PM
Vinyl chloride	BRL	2.0		µg/L	61310	1	8/22/2005 4:26:00 PM
Surr: 4-Bromofluorobenzene	94.3	66.7-128		%REC	61310	1	8/22/2005 4:26:00 PM
Surr: Dibromofluoromethane	106	72.1-121		%REC	61310	1	8/22/2005 4:26:00 PM
Surr: Toluene-d8	110	75.2-121		%REC	61310	1	8/22/2005 4:26:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level
BRL	Below Reporting Limit
H	Holding times for preparation or analysis exceeded
N	Analyte not NELAC certified
Rpt Limit	Reporting Limit

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	NELAC analyte certification pending
S	Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: 24-Aug-05

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0508A78
Project: Birdsong Peanut
Lab ID: 0508A78-006A

Client Sample ID: GW-081905 DJB-013
Tag Number:
Collection Date: 8/19/2005
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	BatchID	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B		(SW5030B)	Analyst: TMP		
1,1,1-Trichloroethane	BRL	5.0		µg/L	61310	1	8/22/2005 4:53:00 PM
1,1,2,2-Tetrachloroethane	BRL	5.0		µg/L	61310	1	8/22/2005 4:53:00 PM
1,1,2-Trichloroethane	BRL	5.0		µg/L	61310	1	8/22/2005 4:53:00 PM
1,1-Dichloroethane	BRL	5.0		µg/L	61310	1	8/22/2005 4:53:00 PM
1,1-Dichloroethene	BRL	5.0		µg/L	61310	1	8/22/2005 4:53:00 PM
1,2,4-Trichlorobenzene	BRL	5.0		µg/L	61310	1	8/22/2005 4:53:00 PM
1,2-Dibromo-3-chloropropane	BRL	5.0		µg/L	61310	1	8/22/2005 4:53:00 PM
1,2-Dibromoethane	BRL	5.0		µg/L	61310	1	8/22/2005 4:53:00 PM
1,2-Dichlorobenzene	BRL	5.0		µg/L	61310	1	8/22/2005 4:53:00 PM
1,2-Dichloroethane	BRL	5.0		µg/L	61310	1	8/22/2005 4:53:00 PM
1,2-Dichloropropane	BRL	5.0		µg/L	61310	1	8/22/2005 4:53:00 PM
1,3-Dichlorobenzene	BRL	5.0		µg/L	61310	1	8/22/2005 4:53:00 PM
1,4-Dichlorobenzene	BRL	5.0		µg/L	61310	1	8/22/2005 4:53:00 PM
2-Butanone	BRL	50		µg/L	61310	1	8/22/2005 4:53:00 PM
2-Hexanone	BRL	10		µg/L	61310	1	8/22/2005 4:53:00 PM
4-Methyl-2-pentanone	BRL	10		µg/L	61310	1	8/22/2005 4:53:00 PM
Acetone	BRL	50		µg/L	61310	1	8/22/2005 4:53:00 PM
Benzene	BRL	5.0		µg/L	61310	1	8/22/2005 4:53:00 PM
Bromodichloromethane	BRL	5.0		µg/L	61310	1	8/22/2005 4:53:00 PM
Bromoform	BRL	5.0		µg/L	61310	1	8/22/2005 4:53:00 PM
Bromomethane	BRL	5.0		µg/L	61310	1	8/22/2005 4:53:00 PM
Carbon disulfide	BRL	5.0		µg/L	61310	1	8/22/2005 4:53:00 PM
Carbon tetrachloride	BRL	5.0		µg/L	61310	1	8/22/2005 4:53:00 PM
Chlorobenzene	BRL	5.0		µg/L	61310	1	8/22/2005 4:53:00 PM
Chloroethane	BRL	10		µg/L	61310	1	8/22/2005 4:53:00 PM
Chloroform	BRL	5.0		µg/L	61310	1	8/22/2005 4:53:00 PM
Chloromethane	BRL	10		µg/L	61310	1	8/22/2005 4:53:00 PM
cis-1,2-Dichloroethene	BRL	5.0		µg/L	61310	1	8/22/2005 4:53:00 PM
cis-1,3-Dichloropropene	BRL	5.0		µg/L	61310	1	8/22/2005 4:53:00 PM
Cyclohexane	BRL	5.0		µg/L	61310	1	8/22/2005 4:53:00 PM
Dibromochloromethane	BRL	5.0		µg/L	61310	1	8/22/2005 4:53:00 PM
Dichlorodifluoromethane	BRL	10		µg/L	61310	1	8/22/2005 4:53:00 PM
Ethylbenzene	BRL	5.0		µg/L	61310	1	8/22/2005 4:53:00 PM
Freon-113	BRL	10		µg/L	61310	1	8/22/2005 4:53:00 PM
Isopropylbenzene	BRL	5.0		µg/L	61310	1	8/22/2005 4:53:00 PM
m,p-Xylene	BRL	10		µg/L	61310	1	8/22/2005 4:53:00 PM
Methyl acetate	BRL	5.0		µg/L	61310	1	8/22/2005 4:53:00 PM
Methyl tert-butyl ether	BRL	5.0		µg/L	61310	1	8/22/2005 4:53:00 PM
Methylcyclohexane	BRL	5.0		µg/L	61310	1	8/22/2005 4:53:00 PM
Methylene chloride	BRL	5.0		µg/L	61310	1	8/22/2005 4:53:00 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
N Analyte not NELAC certified
Rpt Limit Reporting Limit

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P NELAC analyte certification pending
S Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: 24-Aug-05

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0508A78
Project: Birdsong Peanut
Lab ID: 0508A78-006A

Client Sample ID: GW-081905 DJB-013
Tag Number:
Collection Date: 8/19/2005
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	BatchID	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B			(SW5030B)		Analyst: TMP
o-Xylene	BRL	5.0		µg/L	61310	1	8/22/2005 4:53:00 PM
Styrene	BRL	5.0		µg/L	61310	1	8/22/2005 4:53:00 PM
Tetrachloroethene	BRL	5.0		µg/L	61310	1	8/22/2005 4:53:00 PM
Toluene	14	5.0		µg/L	61310	1	8/22/2005 4:53:00 PM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	61310	1	8/22/2005 4:53:00 PM
trans-1,3-Dichloropropene	BRL	5.0		µg/L	61310	1	8/22/2005 4:53:00 PM
Trichloroethene	BRL	5.0		µg/L	61310	1	8/22/2005 4:53:00 PM
Trichlorofluoromethane	BRL	5.0		µg/L	61310	1	8/22/2005 4:53:00 PM
Vinyl chloride	BRL	2.0		µg/L	61310	1	8/22/2005 4:53:00 PM
Surr: 4-Bromofluorobenzene	93.0	66.7-128		%REC	61310	1	8/22/2005 4:53:00 PM
Surr: Dibromofluoromethane	101	72.1-121		%REC	61310	1	8/22/2005 4:53:00 PM
Surr: Toluene-d8	110	75.2-121		%REC	61310	1	8/22/2005 4:53:00 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	N	Analyte not NELAC certified	P	NELAC analyte certification pending
	Rpt Limit	Reporting Limit	S	Spike Recovery outside accepted recovery limits

CLIENT: Conestoga, Rovers, & Associates, Inc.
 Work Order: 0508A78
 Project: Birdsong Peanut

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_TCL4.2_W

Sample ID	MB-61310	SampType:	MBLK	TestCode:	8260_TCL4.2	Units:	µg/L	Prep Date:	8/22/2005	RunNo:	70522	
Client ID:		Batch ID:	61310	TestNo:	SW8260B			Analysis Date:	8/22/2005	SeqNo:	1390266	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane		BRL	5.0									
1,1,2,2-Tetrachloroethane		BRL	5.0									
1,1,2-Trichloroethane		BRL	5.0									
1,1-Dichloroethane		BRL	5.0									
1,1-Dichloroethene		BRL	5.0									
1,2,4-Trichlorobenzene		BRL	5.0									
1,2-Dibromo-3-chloropropane		BRL	5.0									
1,2-Dibromoethane		BRL	5.0									
1,2-Dichlorobenzene		BRL	5.0									
1,2-Dichloroethane		BRL	5.0									
1,2-Dichloropropane		BRL	5.0									
1,3-Dichlorobenzene		BRL	5.0									
1,4-Dichlorobenzene		BRL	5.0									
2-Butanone		BRL	50									
2-Hexanone		BRL	10									
4-Methyl-2-pentanone		BRL	10									
Acetone		BRL	50									
Benzene		BRL	5.0									
Bromodichloromethane		BRL	5.0									
Bromoform		BRL	5.0									
Bromomethane		BRL	5.0									
Carbon disulfide		BRL	5.0									
Carbon tetrachloride		BRL	5.0									
Chlorobenzene		BRL	5.0									
Chloroethane		BRL	10									
Chloroform		BRL	5.0									
Chloromethane		BRL	10									
cis-1,2-Dichloroethene		BRL	5.0									
cis-1,3-Dichloropropene		BRL	5.0									

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Conestoga, Rovers, & Associates, Inc.
Work Order: 0508A78
Project: Birdsong Peanut

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_TCL4.2_W

Sample ID	MB-61310	SampType:	MBLK		TestCode:	8260_TCL4.2		Units:	µg/L		Prep Date:	8/22/2005		RunNo:	70522	
Client ID:		Batch ID:	61310		TestNo:	SW8260B					Analysis Date:	8/22/2005		SeqNo:	1390266	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val		%RPD	RPDLimit	Qual			
Cyclohexane		BRL	5.0													
Dibromochloromethane		BRL	5.0													
Dichlorodifluoromethane		BRL	10													
Ethylbenzene		BRL	5.0													
Freon-113		BRL	10													
Isopropylbenzene		BRL	5.0													
m,p-Xylene		BRL	10													
Methyl acetate		BRL	5.0													
Methyl tert-butyl ether		BRL	5.0													
Methylcyclohexane		BRL	5.0													
Methylene chloride		BRL	5.0													
o-Xylene		BRL	5.0													
Styrene		BRL	5.0													
Tetrachloroethene		BRL	5.0													
Toluene		BRL	5.0													
trans-1,2-Dichloroethene		BRL	5.0													
trans-1,3-Dichloropropene		BRL	5.0													
Trichloroethene		BRL	5.0													
Trichlorofluoromethane		BRL	5.0													
Vinyl chloride		BRL	2.0													
Surr: 4-Bromofluorobenzene		50.51	0	50	0	101	66.7	128	0		0					
Surr: Dibromofluoromethane		57.83	0	50	0	116	72.1	121	0		0					
Surr: Toluene-d8		55.34	0	50	0	111	75.2	121	0		0					

Sample ID	LCS-61310	SampType:	LCS	TestCode:	8260_TCL4.2	Units:	µg/L	Prep Date:	8/22/2005	RunNo:	70522			
Client ID:		Batch ID:	61310	TestNo:	SW8260B			Analysis Date:	8/22/2005	SeqNo:	1390267			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene		60.6		5.0	50	0		121	63	157	0	0		
Benzene		54.98		5.0	50	0		110	74.9	126	0	0		

Qualifiers: B Analyte detected in the associated Method Blank BRL Below Reporting Limit E Value above quantitation range
H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits N Analyte not NELAC certified
R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

CLIENT: Conestoga, Rovers, & Associates, Inc.
 Work Order: 0508A78
 Project: Birdsong Peanut

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_TCL4.2_W

Sample ID	LCS-61310	SampType:	LCS	TestCode:	8260_TCL4.2	Units:	µg/L	Prep Date:	8/22/2005	RunNo:	70522	
Client ID:		Batch ID:	61310	TestNo:	SW8260B			Analysis Date:	8/22/2005	SeqNo:	1390267	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene		53.75	5.0	50	0	108	81.5	123	0	0		
Toluene		56.56	5.0	50	0	113	81.3	125	0	0		
Trichloroethene		56.29	5.0	50	0	113	70.4	134	0	0		
Surr: 4-Bromofluorobenzene		49.6	0	50	0	99.2	66.7	128	0	0		
Surr: Dibromofluoromethane		52.52	0	50	0	105	72.1	121	0	0		
Surr: Toluene-d8		53.57	0	50	0	107	75.2	121	0	0		

Sample ID 0508A87-008AMS	SampType: MS	TestCode: 8260_TCL4.2	Units: µg/L	Prep Date: 8/22/2005	RunNo: 70522						
Client ID:	Batch ID: 61310	TestNo: SW8260B		Analysis Date: 8/22/2005	SeqNo: 1391243						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	54.74	5.0	50	0	109	60.9	157	0	0		
Benzene	51.72	5.0	50	0	103	69.7	128	0	0		
Chlorobenzene	51.06	5.0	50	0	102	80.7	123	0	0		
Toluene	54.41	5.0	50	0	109	76.2	128	0	0		
Trichloroethene	52.06	5.0	50	0	104	70.6	133	0	0		
Surr: 4-Bromofluorobenzene	46.76	0	50	0	93.5	66.7	128	0	0		
Surr: Dibromofluoromethane	51.28	0	50	0	103	72.1	121	0	0		
Surr: Toluene-d8	53.46	0	50	0	107	75.2	121	0	0		

Sample ID 0508A87-008AMSD	SampType: MSD	TestCode: 8260_TCL4.2	Units: µg/L	Prep Date: 8/22/2005	RunNo: 70522						
Client ID:	Batch ID: 61310	TestNo: SW8260B		Analysis Date: 8/22/2005	SeqNo: 1391244						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	57.23	5.0	50	0	114	60.9	157	54.74	4.45	15.8	
Benzene	52.84	5.0	50	0	106	69.7	128	51.72	2.14	10	
Chlorobenzene	49.71	5.0	50	0	99.4	80.7	123	51.06	2.68	10	
Toluene	51.76	5.0	50	0	104	76.2	128	54.41	4.99	10	
Trichloroethene	53.07	5.0	50	0	106	70.6	133	52.06	1.92	11	
Surr: 4-Bromofluorobenzene	46.14	0	50	0	92.3	66.7	128	46.76	0	0	

Qualifiers: B Analyte detected in the associated Method Blank BRL Below Reporting Limit E Value above quantitation range
 H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits N Analyte not NELAC certified
 R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

CLIENT: Conestoga, Rovers, & Associates, Inc.
Work Order: 0508A78
Project: Birdsong Peanut

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_TCL4.2_W

Sample ID 0508A87-008AMSD	SampType: MSD	TestCode: 8260_TCL4.2	Units: µg/L	Prep Date: 8/22/2005	RunNo: 70522						
Client ID:	Batch ID: 61310	TestNo: SW8260B		Analysis Date: 8/22/2005	SeqNo: 1391244						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	54.79	0	50	0	110	72.1	121	51.28	0	0	
Surr: Toluene-d8	52.27	0	50	0	105	75.2	121	53.46	0	0	

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

BRL Below Reporting Limit
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

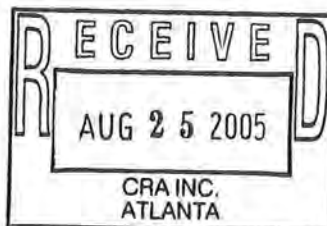
E Value above quantitation range
N Analyte not NELAC certified



AES

August 19, 2005

ANALYTICAL ENVIRONMENTAL SERVICES, INC.



18283-01
THL

Thomas Lawrence
Conestoga, Rovers, & Associates, Inc.
1412 Oakbrook Dr
Suite 180
Norcross, GA 30093

TEL: (770) 441-0027
FAX (770) 441-2050

RE: Birdsong Peanut

Order No.: 0508748

Dear Thomas Lawrence:

Analytical Environmental Services, Inc. received 17 samples on 8/13/2005 11:36:00 AM for the analyses presented in the following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative. AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water, effective 06/01/05-06/30/06.
- AIHA Certification number 505 for analysis of Industrial Hygiene samples (Organics, Inorganics), Paint Chips, Soil and Dust Wipes, effective until 02/01/07.

These results relate only to the items tested. This report may only be reproduced in full and contains 50 total pages (including cover letter).

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Sherri Hernandez
Project Manager

CRA
CONESTOGA-ROVERS & ASSOCIATES, INC.
100 Oakbrook Drive Suite 100
Norcross, GA 30093 404-441-0027

SHIPPED TO (Laboratory Name):

AES

0508748

CHAIN OF CUSTODY RECORD

REFERENCE NUMBER:

18283-01

PROJECT NAME:

Birdsong Peanut

SAMPLER'S
SIGNATURE:

David Brytowski

PRINTED
NAME:

David Brytowski

SEQ. NO.	DATE	TIME	SAMPLE NUMBER	SAMPLE TYPE	NO. OF CONTAINERS	PARAMETERS	REMARKS
	8/9/05	9:55	S-080905 DJB-001	Soil	3	X	Standard TAT
			002		3	X	
	8/10/05	8:50	S-081005 DJB 003		3	X	
	8/10/05	8:56	004		3	X	
	8/10/05	10:25	005		3	X	
	8/10/05	10:35	006	Soil	3	X	
	8/10/05	13:05	007		3	X	
	8/10/05	13:15	008		3	X	
	8/10/05	14:00	009		3	X	
	8/10/05	15:30	S-081005 DJB 010		3	X	
	8/12/05	15:40	S-081205 DJB 011	Soil	3	X	
	8/10/05	9:30	GW-081005 DJB 001	water	2	X	
	8/10/05	11:35	002		2	X	
	8/10/05	13:30	003		2	X	
	8/10/05	14:10	GW-081005 DJB 004	water	2	X	

TOTAL NUMBER OF CONTAINERS

RELINQUISHED BY:

①

David Brytowski

DATE: 8/13/05

TIME: 11:36

RECEIVED BY:

②

Hann Erden

DATE: 8/13/05

TIME: 11:36

RELINQUISHED BY:

②

DATE:

TIME:

RECEIVED BY:

③

DATE:

TIME:

RELINQUISHED BY:

③

DATE:

TIME:

RECEIVED BY:

④

DATE:

TIME:

METHOD OF SHIPMENT:

AIR BILL NUMBER:

White - Fully Executed Copy
Yellow - Receiving Laboratory Copy
Pink - Sampler Copy
Goldenrod - Chemist Copy

SAMPLE TEAM:

RECEIVED FOR LABORATORY BY:

DATE: _____ TIME: _____

3714

CRA CONESTOGA-ROVERS & ASSOCIATES, INC. 1351 Oakbrook Drive Norcross, GA 30093		SHIPPED TO (Laboratory Name): AES		0508748	
Suite 150 404-441-0027		REFERENCE NUMBER: 18283-01		PROJECT NAME: Birdsong Peanut	
CHAIN OF CUSTODY RECORD					
SAMPLER'S SIGNATURE: D. Brytowski		PRINTED NAME: David Brytowski		REMARKS	
SEQ. NO.	DATE	TIME	SAMPLE NUMBER	SAMPLE TYPE	NO. OF CONTAINERS
	8-11-05	14:50	GW-081105 DJB 005	Water	2
	8/12/05	16:00	GW-081205 DJB 006	Water	2
TOTAL NUMBER OF CONTAINERS					36
RELINQUISHED BY: D. Brytowski					DATE: 8/12/05
①					TIME: 11:36
RELINQUISHED BY:					DATE:
②					TIME:
RELINQUISHED BY:					DATE:
③					TIME:
METHOD OF SHIPMENT:					AIR BILL NUMBER:
White - Fully Executed Copy					RECEIVED FOR LABORATORY BY:
Yellow - Receiving Laboratory Copy					
Pink - Sampler Copy					
Goldenrod - Chemist Copy					
SAMPLE TEAM:					DATE: TIME:
					3962

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client CRA

Work Order Number 0508748

Checklist completed by Hamm-Grden Date 8/13/05
Signature Date

Carrier name: FedEx ☐ UPS ☐ Courier ☐ Client ☒ US Mail ☐ Other ☐

Shipping container/cooler in good condition? Yes ☒ No ☐ Not Present ☐

Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☒

Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒

Container/Temp Blank temperature in compliance? ($4^{\circ}\text{C} \pm 2$)* Yes ☒ No ☐

Cooler #1 5.0°C Cooler #2 ☐ Cooler #3 ☐ Cooler #4 ☐ Cooler #5 ☐ Cooler #6 ☐

Chain of custody present? Yes ☒ No ☐

Chain of custody signed when relinquished and received? Yes ☒ No ☐

Chain of custody agrees with sample labels? Yes ☒ No ☒ 8/22/05

Samples in proper container/bottle? Yes ☒ No ☐

Sample containers intact? Yes ☒ No ☐

Sufficient sample volume for indicated test? Yes ☒ No ☐

All samples received within holding time? Yes ☒ No ☐

Was TAT marked on the COC? Yes ☒ No ☐

Proceed with Standard TAT as per project history? Yes ☐ No ☐ Not Applicable ☒

Water - VOA vials have zero headspace? No VOA vials submitted ☐ Yes ☒ No ☐

Water - pH acceptable upon receipt? Yes ☒ No ☐ Not Applicable ☐

Adjusted? ☐ Checked by ☐

Sample Condition: Good ☒ Other(Explain) ☐

(For diffusive samples or AIHA lead) Is a known blank included? Yes ☐ No ☒

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

CLIENT: Conestoga, Rovers, & Associates, Inc.
Project: Birdsong Peanut
Lab Order: 0508748

CASE NARRATIVE

Sample/Cooler Receipt Non-Conformance:

S-081005 DJB-002 is submitted but not listed on the COC. 8/19/05 Per Steven Grace, proceed with VOC analysis on this sample. The collection date/time was taken from the containers: 8/10/05, 10:00 a.m.

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 4th Edition. All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives unless indicated in the case narrative.

Volatile Organic Compounds Analysis by Method 8260B:

Percent recovery for the surrogate spiking compound Dibromofluoromethane on samples 0508748-007A and -011A was outside control limits biased high due to suspected matrix interference. All other surrogate recoveries were within control limits.

Analytical Environmental Services, Inc.

Date: 22-Aug-05

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0508748
Project: Birdsong Peanut
Lab ID: 0508748-001A

Client Sample ID: S-080905 DJB- 001
Tag Number:
Collection Date: 8/9/2005 9:55:00 AM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	BatchID	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B		(SW5035)	Analyst: NWH		
1,1,1-Trichloroethane	BRL	2.9		µg/Kg	61182	1	8/17/2005 3:42:00 PM
1,1,2,2-Tetrachloroethane	BRL	2.9		µg/Kg	61182	1	8/17/2005 3:42:00 PM
1,1,2-Trichloroethane	BRL	2.9		µg/Kg	61182	1	8/17/2005 3:42:00 PM
1,1-Dichloroethane	BRL	2.9		µg/Kg	61182	1	8/17/2005 3:42:00 PM
1,1-Dichloroethene	BRL	2.9		µg/Kg	61182	1	8/17/2005 3:42:00 PM
1,2,4-Trichlorobenzene	BRL	2.9		µg/Kg	61182	1	8/17/2005 3:42:00 PM
1,2-Dibromo-3-chloropropane	BRL	2.9		µg/Kg	61182	1	8/17/2005 3:42:00 PM
1,2-Dibromoethane	BRL	2.9		µg/Kg	61182	1	8/17/2005 3:42:00 PM
1,2-Dichlorobenzene	BRL	2.9		µg/Kg	61182	1	8/17/2005 3:42:00 PM
1,2-Dichloroethane	BRL	2.9		µg/Kg	61182	1	8/17/2005 3:42:00 PM
1,2-Dichloropropane	BRL	2.9		µg/Kg	61182	1	8/17/2005 3:42:00 PM
1,3-Dichlorobenzene	BRL	2.9		µg/Kg	61182	1	8/17/2005 3:42:00 PM
1,4-Dichlorobenzene	BRL	2.9		µg/Kg	61182	1	8/17/2005 3:42:00 PM
2-Butanone	BRL	29		µg/Kg	61182	1	8/17/2005 3:42:00 PM
2-Hexanone	BRL	5.9		µg/Kg	61182	1	8/17/2005 3:42:00 PM
4-Methyl-2-pentanone	BRL	5.9		µg/Kg	61182	1	8/17/2005 3:42:00 PM
Acetone	BRL	59		µg/Kg	61182	1	8/17/2005 3:42:00 PM
Benzene	BRL	2.9		µg/Kg	61182	1	8/17/2005 3:42:00 PM
Bromodichloromethane	BRL	2.9		µg/Kg	61182	1	8/17/2005 3:42:00 PM
Bromoform	BRL	2.9		µg/Kg	61182	1	8/17/2005 3:42:00 PM
Bromomethane	BRL	2.9		µg/Kg	61182	1	8/17/2005 3:42:00 PM
Carbon disulfide	BRL	5.9		µg/Kg	61182	1	8/17/2005 3:42:00 PM
Carbon tetrachloride	BRL	2.9		µg/Kg	61182	1	8/17/2005 3:42:00 PM
Chlorobenzene	BRL	2.9		µg/Kg	61182	1	8/17/2005 3:42:00 PM
Chloroethane	BRL	5.9		µg/Kg	61182	1	8/17/2005 3:42:00 PM
Chloroform	BRL	2.9		µg/Kg	61182	1	8/17/2005 3:42:00 PM
Chloromethane	BRL	5.9		µg/Kg	61182	1	8/17/2005 3:42:00 PM
cis-1,2-Dichloroethene	BRL	2.9		µg/Kg	61182	1	8/17/2005 3:42:00 PM
cis-1,3-Dichloropropene	BRL	2.9		µg/Kg	61182	1	8/17/2005 3:42:00 PM
Cyclohexane	BRL	2.9		µg/Kg	61182	1	8/17/2005 3:42:00 PM
Dibromochloromethane	BRL	2.9		µg/Kg	61182	1	8/17/2005 3:42:00 PM
Dichlorodifluoromethane	BRL	5.9		µg/Kg	61182	1	8/17/2005 3:42:00 PM
Ethylbenzene	BRL	2.9		µg/Kg	61182	1	8/17/2005 3:42:00 PM
Freon-113	BRL	5.9		µg/Kg	61182	1	8/17/2005 3:42:00 PM
Isopropylbenzene	BRL	2.9		µg/Kg	61182	1	8/17/2005 3:42:00 PM
m,p-Xylene	BRL	5.9		µg/Kg	61182	1	8/17/2005 3:42:00 PM
Methyl acetate	BRL	2.9		µg/Kg	61182	1	8/17/2005 3:42:00 PM
Methyl tert-butyl ether	BRL	2.9		µg/Kg	61182	1	8/17/2005 3:42:00 PM
Methylcyclohexane	BRL	2.9		µg/Kg	61182	1	8/17/2005 3:42:00 PM
Methylene chloride	BRL	2.9		µg/Kg	61182	1	8/17/2005 3:42:00 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	N	Analyte not NELAC certified	P	NELAC analyte certification pending
	Rpt Limit	Reporting Limit	S	Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: 22-Aug-05

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0508748
Project: Birdsong Peanut
Lab ID: 0508748-001A

Client Sample ID: S-080905 DJB- 001
Tag Number:
Collection Date: 8/9/2005 9:55:00 AM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	BatchID	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B			(SW5035)		Analyst: NWH
o-Xylene	BRL	2.9		µg/Kg	61182	1	8/17/2005 3:42:00 PM
Styrene	BRL	2.9		µg/Kg	61182	1	8/17/2005 3:42:00 PM
Tetrachloroethene	3.2	2.9		µg/Kg	61182	1	8/17/2005 3:42:00 PM
Toluene	BRL	2.9		µg/Kg	61182	1	8/17/2005 3:42:00 PM
trans-1,2-Dichloroethene	BRL	2.9		µg/Kg	61182	1	8/17/2005 3:42:00 PM
trans-1,3-Dichloropropene	BRL	2.9		µg/Kg	61182	1	8/17/2005 3:42:00 PM
Trichloroethene	BRL	2.9		µg/Kg	61182	1	8/17/2005 3:42:00 PM
Trichlorofluoromethane	BRL	2.9		µg/Kg	61182	1	8/17/2005 3:42:00 PM
Vinyl chloride	BRL	5.9		µg/Kg	61182	1	8/17/2005 3:42:00 PM
Surr: 4-Bromofluorobenzene	111	66.9-120		%REC	61182	1	8/17/2005 3:42:00 PM
Surr: Dibromofluoromethane	131	70.4-133		%REC	61182	1	8/17/2005 3:42:00 PM
Surr: Toluene-d8	120	71.5-140		%REC	61182	1	8/17/2005 3:42:00 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	N	Analyte not NELAC certified	P	NELAC analyte certification pending
	Rpt Limit	Reporting Limit	S	Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: 23-Aug-05

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0508748
Project: Birdsong Peanut
Lab ID: 0508748-002A

Client Sample ID: S-081005 DJB- 002
Tag Number:
Collection Date: 8/10/2005 10:00:00 AM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	BatchID	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B		(SW5035)			Analyst: NWH
1,1,1-Trichloroethane	BRL	3.0		µg/Kg	61135	1	8/17/2005 4:11:00 PM
1,1,2,2-Tetrachloroethane	BRL	3.0		µg/Kg	61135	1	8/17/2005 4:11:00 PM
1,1,2-Trichloroethane	BRL	3.0		µg/Kg	61135	1	8/17/2005 4:11:00 PM
1,1-Dichloroethane	BRL	3.0		µg/Kg	61135	1	8/17/2005 4:11:00 PM
1,1-Dichloroethene	BRL	3.0		µg/Kg	61135	1	8/17/2005 4:11:00 PM
1,2,4-Trichlorobenzene	BRL	3.0		µg/Kg	61135	1	8/17/2005 4:11:00 PM
1,2-Dibromo-3-chloropropane	BRL	3.0		µg/Kg	61135	1	8/17/2005 4:11:00 PM
1,2-Dibromoethane	BRL	3.0		µg/Kg	61135	1	8/17/2005 4:11:00 PM
1,2-Dichlorobenzene	BRL	3.0		µg/Kg	61135	1	8/17/2005 4:11:00 PM
1,2-Dichloroethane	BRL	3.0		µg/Kg	61135	1	8/17/2005 4:11:00 PM
1,2-Dichloropropane	BRL	3.0		µg/Kg	61135	1	8/17/2005 4:11:00 PM
1,3-Dichlorobenzene	BRL	3.0		µg/Kg	61135	1	8/17/2005 4:11:00 PM
1,4-Dichlorobenzene	BRL	3.0		µg/Kg	61135	1	8/17/2005 4:11:00 PM
2-Butanone	BRL	30		µg/Kg	61135	1	8/17/2005 4:11:00 PM
2-Hexanone	BRL	6.0		µg/Kg	61135	1	8/17/2005 4:11:00 PM
4-Methyl-2-pentanone	BRL	6.0		µg/Kg	61135	1	8/17/2005 4:11:00 PM
Acetone	BRL	60		µg/Kg	61135	1	8/17/2005 4:11:00 PM
Benzene	BRL	3.0		µg/Kg	61135	1	8/17/2005 4:11:00 PM
Bromodichloromethane	BRL	3.0		µg/Kg	61135	1	8/17/2005 4:11:00 PM
Bromoform	BRL	3.0		µg/Kg	61135	1	8/17/2005 4:11:00 PM
Bromomethane	BRL	3.0		µg/Kg	61135	1	8/17/2005 4:11:00 PM
Carbon disulfide	BRL	6.0		µg/Kg	61135	1	8/17/2005 4:11:00 PM
Carbon tetrachloride	BRL	3.0		µg/Kg	61135	1	8/17/2005 4:11:00 PM
Chlorobenzene	BRL	3.0		µg/Kg	61135	1	8/17/2005 4:11:00 PM
Chloroethane	BRL	6.0		µg/Kg	61135	1	8/17/2005 4:11:00 PM
Chloroform	BRL	3.0		µg/Kg	61135	1	8/17/2005 4:11:00 PM
Chloromethane	BRL	6.0		µg/Kg	61135	1	8/17/2005 4:11:00 PM
cis-1,2-Dichloroethene	BRL	3.0		µg/Kg	61135	1	8/17/2005 4:11:00 PM
cis-1,3-Dichloropropene	BRL	3.0		µg/Kg	61135	1	8/17/2005 4:11:00 PM
Cyclohexane	BRL	3.0		µg/Kg	61135	1	8/17/2005 4:11:00 PM
Dibromochloromethane	BRL	3.0		µg/Kg	61135	1	8/17/2005 4:11:00 PM
Dichlorodifluoromethane	BRL	6.0		µg/Kg	61135	1	8/17/2005 4:11:00 PM
Ethylbenzene	BRL	3.0		µg/Kg	61135	1	8/17/2005 4:11:00 PM
Freon-113	BRL	6.0		µg/Kg	61135	1	8/17/2005 4:11:00 PM
Isopropylbenzene	BRL	3.0		µg/Kg	61135	1	8/17/2005 4:11:00 PM
m,p-Xylene	BRL	6.0		µg/Kg	61135	1	8/17/2005 4:11:00 PM
Methyl acetate	BRL	3.0		µg/Kg	61135	1	8/17/2005 4:11:00 PM
Methyl tert-butyl ether	BRL	3.0		µg/Kg	61135	1	8/17/2005 4:11:00 PM
Methylcyclohexane	BRL	3.0		µg/Kg	61135	1	8/17/2005 4:11:00 PM
Methylene chloride	BRL	3.0		µg/Kg	61135	1	8/17/2005 4:11:00 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
 BRL Below Reporting Limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 Rpt Limit Reporting Limit

B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P NELAC analyte certification pending
 S Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: 23-Aug-05

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0508748
Project: Birdsong Peanut
Lab ID: 0508748-002A

Client Sample ID: S-081005 DJB- 002
Tag Number:
Collection Date: 8/10/2005 10:00:00 AM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	BatchID	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B		(SW5035)			Analyst: NWH
o-Xylene	BRL	3.0		µg/Kg	61135	1	8/17/2005 4:11:00 PM
Styrene	BRL	3.0		µg/Kg	61135	1	8/17/2005 4:11:00 PM
Tetrachloroethene	29	3.0		µg/Kg	61135	1	8/17/2005 4:11:00 PM
Toluene	BRL	3.0		µg/Kg	61135	1	8/17/2005 4:11:00 PM
trans-1,2-Dichloroethene	BRL	3.0		µg/Kg	61135	1	8/17/2005 4:11:00 PM
trans-1,3-Dichloropropene	BRL	3.0		µg/Kg	61135	1	8/17/2005 4:11:00 PM
Trichloroethene	BRL	3.0		µg/Kg	61135	1	8/17/2005 4:11:00 PM
Trichlorofluoromethane	BRL	3.0		µg/Kg	61135	1	8/17/2005 4:11:00 PM
Vinyl chloride	BRL	6.0		µg/Kg	61135	1	8/17/2005 4:11:00 PM
Surr: 4-Bromofluorobenzene	108	66.9-120		%REC	61135	1	8/17/2005 4:11:00 PM
Surr: Dibromofluoromethane	132	70.4-133		%REC	61135	1	8/17/2005 4:11:00 PM
Surr: Toluene-d8	121	71.5-140		%REC	61135	1	8/17/2005 4:11:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level
BRL	Below Reporting Limit
H	Holding times for preparation or analysis exceeded
N	Analyte not NELAC certified
Rpt Limit	Reporting Limit

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	NELAC analyte certification pending
S	Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: 22-Aug-05

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0508748
Project: Birdsong Peanut
Lab ID: 0508748-003A

Client Sample ID: S-081005 DJB- 003
Tag Number:
Collection Date: 8/10/2005 8:50:00 AM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	BatchID	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B		(SW5035)			Analyst: NWH
1,1,1-Trichloroethane	BRL	3.6		µg/Kg	61182	1	8/17/2005 4:39:00 PM
1,1,2,2-Tetrachloroethane	BRL	3.6		µg/Kg	61182	1	8/17/2005 4:39:00 PM
1,1,2-Trichloroethane	BRL	3.6		µg/Kg	61182	1	8/17/2005 4:39:00 PM
1,1-Dichloroethane	BRL	3.6		µg/Kg	61182	1	8/17/2005 4:39:00 PM
1,1-Dichloroethene	BRL	3.6		µg/Kg	61182	1	8/17/2005 4:39:00 PM
1,2,4-Trichlorobenzene	BRL	3.6		µg/Kg	61182	1	8/17/2005 4:39:00 PM
1,2-Dibromo-3-chloropropane	BRL	3.6		µg/Kg	61182	1	8/17/2005 4:39:00 PM
1,2-Dibromoethane	BRL	3.6		µg/Kg	61182	1	8/17/2005 4:39:00 PM
1,2-Dichlorobenzene	BRL	3.6		µg/Kg	61182	1	8/17/2005 4:39:00 PM
1,2-Dichloroethane	BRL	3.6		µg/Kg	61182	1	8/17/2005 4:39:00 PM
1,2-Dichloropropane	BRL	3.6		µg/Kg	61182	1	8/17/2005 4:39:00 PM
1,3-Dichlorobenzene	BRL	3.6		µg/Kg	61182	1	8/17/2005 4:39:00 PM
1,4-Dichlorobenzene	BRL	3.6		µg/Kg	61182	1	8/17/2005 4:39:00 PM
2-Butanone	BRL	36		µg/Kg	61182	1	8/17/2005 4:39:00 PM
2-Hexanone	BRL	7.2		µg/Kg	61182	1	8/17/2005 4:39:00 PM
4-Methyl-2-pentanone	BRL	7.2		µg/Kg	61182	1	8/17/2005 4:39:00 PM
Acetone	BRL	72		µg/Kg	61182	1	8/17/2005 4:39:00 PM
Benzene	BRL	3.6		µg/Kg	61182	1	8/17/2005 4:39:00 PM
Bromodichloromethane	BRL	3.6		µg/Kg	61182	1	8/17/2005 4:39:00 PM
Bromoform	BRL	3.6		µg/Kg	61182	1	8/17/2005 4:39:00 PM
Bromomethane	BRL	3.6		µg/Kg	61182	1	8/17/2005 4:39:00 PM
Carbon disulfide	BRL	7.2		µg/Kg	61182	1	8/17/2005 4:39:00 PM
Carbon tetrachloride	BRL	3.6		µg/Kg	61182	1	8/17/2005 4:39:00 PM
Chlorobenzene	BRL	3.6		µg/Kg	61182	1	8/17/2005 4:39:00 PM
Chloroethane	BRL	7.2		µg/Kg	61182	1	8/17/2005 4:39:00 PM
Chloroform	BRL	3.6		µg/Kg	61182	1	8/17/2005 4:39:00 PM
Chloromethane	BRL	7.2		µg/Kg	61182	1	8/17/2005 4:39:00 PM
cis-1,2-Dichloroethene	BRL	3.6		µg/Kg	61182	1	8/17/2005 4:39:00 PM
cis-1,3-Dichloropropene	BRL	3.6		µg/Kg	61182	1	8/17/2005 4:39:00 PM
Cyclohexane	BRL	3.6		µg/Kg	61182	1	8/17/2005 4:39:00 PM
Dibromochloromethane	BRL	3.6		µg/Kg	61182	1	8/17/2005 4:39:00 PM
Dichlorodifluoromethane	BRL	7.2		µg/Kg	61182	1	8/17/2005 4:39:00 PM
Ethylbenzene	BRL	3.6		µg/Kg	61182	1	8/17/2005 4:39:00 PM
Freon-113	BRL	7.2		µg/Kg	61182	1	8/17/2005 4:39:00 PM
Isopropylbenzene	BRL	3.6		µg/Kg	61182	1	8/17/2005 4:39:00 PM
m,p-Xylene	BRL	7.2		µg/Kg	61182	1	8/17/2005 4:39:00 PM
Methyl acetate	BRL	3.6		µg/Kg	61182	1	8/17/2005 4:39:00 PM
Methyl tert-butyl ether	BRL	3.6		µg/Kg	61182	1	8/17/2005 4:39:00 PM
Methylcyclohexane	BRL	3.6		µg/Kg	61182	1	8/17/2005 4:39:00 PM
Methylene chloride	BRL	3.6		µg/Kg	61182	1	8/17/2005 4:39:00 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	N	Analyte not NELAC certified	P	NELAC analyte certification pending
	Rpt Limit	Reporting Limit	S	Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: 22-Aug-05

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0508748
Project: Birdsong Peanut
Lab ID: 0508748-003A

Client Sample ID: S-081005 DJB- 003
Tag Number:
Collection Date: 8/10/2005 8:50:00 AM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	BatchID	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B		(SW5035)			Analyst: NWH
o-Xylene	BRL	3.6		µg/Kg	61182	1	8/17/2005 4:39:00 PM
Styrene	BRL	3.6		µg/Kg	61182	1	8/17/2005 4:39:00 PM
Tetrachloroethene	4.7	3.6		µg/Kg	61182	1	8/17/2005 4:39:00 PM
Toluene	BRL	3.6		µg/Kg	61182	1	8/17/2005 4:39:00 PM
trans-1,2-Dichloroethene	BRL	3.6		µg/Kg	61182	1	8/17/2005 4:39:00 PM
trans-1,3-Dichloropropene	BRL	3.6		µg/Kg	61182	1	8/17/2005 4:39:00 PM
Trichloroethene	BRL	3.6		µg/Kg	61182	1	8/17/2005 4:39:00 PM
Trichlorofluoromethane	BRL	3.6		µg/Kg	61182	1	8/17/2005 4:39:00 PM
Vinyl chloride	BRL	7.2		µg/Kg	61182	1	8/17/2005 4:39:00 PM
Surr: 4-Bromofluorobenzene	111	66.9-120		%REC	61182	1	8/17/2005 4:39:00 PM
Surr: Dibromofluoromethane	132	70.4-133		%REC	61182	1	8/17/2005 4:39:00 PM
Surr: Toluene-d8	122	71.5-140		%REC	61182	1	8/17/2005 4:39:00 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	N	Analyte not NELAC certified	P	NELAC analyte certification pending
	Rpt Limit	Reporting Limit	S	Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: 22-Aug-05

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0508748
Project: Birdsong Peanut
Lab ID: 0508748-004A

Client Sample ID: S-081005 DJB- 004
Tag Number:
Collection Date: 8/10/2005 8:56:00 AM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	BatchID	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B		(SW5035)			Analyst: NWH
1,1,1-Trichloroethane	BRL	3.6		µg/Kg	61182	1	8/17/2005 5:08:00 PM
1,1,2,2-Tetrachloroethane	BRL	3.6		µg/Kg	61182	1	8/17/2005 5:08:00 PM
1,1,2-Trichloroethane	BRL	3.6		µg/Kg	61182	1	8/17/2005 5:08:00 PM
1,1-Dichloroethane	BRL	3.6		µg/Kg	61182	1	8/17/2005 5:08:00 PM
1,1-Dichloroethene	BRL	3.6		µg/Kg	61182	1	8/17/2005 5:08:00 PM
1,2,4-Trichlorobenzene	BRL	3.6		µg/Kg	61182	1	8/17/2005 5:08:00 PM
1,2-Dibromo-3-chloropropane	BRL	3.6		µg/Kg	61182	1	8/17/2005 5:08:00 PM
1,2-Dibromoethane	BRL	3.6		µg/Kg	61182	1	8/17/2005 5:08:00 PM
1,2-Dichlorobenzene	BRL	3.6		µg/Kg	61182	1	8/17/2005 5:08:00 PM
1,2-Dichloroethane	BRL	3.6		µg/Kg	61182	1	8/17/2005 5:08:00 PM
1,2-Dichloropropane	BRL	3.6		µg/Kg	61182	1	8/17/2005 5:08:00 PM
1,3-Dichlorobenzene	BRL	3.6		µg/Kg	61182	1	8/17/2005 5:08:00 PM
1,4-Dichlorobenzene	BRL	3.6		µg/Kg	61182	1	8/17/2005 5:08:00 PM
2-Butanone	BRL	36		µg/Kg	61182	1	8/17/2005 5:08:00 PM
2-Hexanone	BRL	7.3		µg/Kg	61182	1	8/17/2005 5:08:00 PM
4-Methyl-2-pentanone	BRL	7.3		µg/Kg	61182	1	8/17/2005 5:08:00 PM
Acetone	BRL	73		µg/Kg	61182	1	8/17/2005 5:08:00 PM
Benzene	BRL	3.6		µg/Kg	61182	1	8/17/2005 5:08:00 PM
Bromodichloromethane	BRL	3.6		µg/Kg	61182	1	8/17/2005 5:08:00 PM
Bromoform	BRL	3.6		µg/Kg	61182	1	8/17/2005 5:08:00 PM
Bromomethane	BRL	3.6		µg/Kg	61182	1	8/17/2005 5:08:00 PM
Carbon disulfide	BRL	7.3		µg/Kg	61182	1	8/17/2005 5:08:00 PM
Carbon tetrachloride	BRL	3.6		µg/Kg	61182	1	8/17/2005 5:08:00 PM
Chlorobenzene	BRL	3.6		µg/Kg	61182	1	8/17/2005 5:08:00 PM
Chloroethane	BRL	7.3		µg/Kg	61182	1	8/17/2005 5:08:00 PM
Chloroform	BRL	3.6		µg/Kg	61182	1	8/17/2005 5:08:00 PM
Chloromethane	BRL	7.3		µg/Kg	61182	1	8/17/2005 5:08:00 PM
cis-1,2-Dichloroethene	BRL	3.6		µg/Kg	61182	1	8/17/2005 5:08:00 PM
cis-1,3-Dichloropropene	BRL	3.6		µg/Kg	61182	1	8/17/2005 5:08:00 PM
Cyclohexane	BRL	3.6		µg/Kg	61182	1	8/17/2005 5:08:00 PM
Dibromochloromethane	BRL	3.6		µg/Kg	61182	1	8/17/2005 5:08:00 PM
Dichlorodifluoromethane	BRL	7.3		µg/Kg	61182	1	8/17/2005 5:08:00 PM
Ethylbenzene	BRL	3.6		µg/Kg	61182	1	8/17/2005 5:08:00 PM
Freon-113	BRL	7.3		µg/Kg	61182	1	8/17/2005 5:08:00 PM
Isopropylbenzene	BRL	3.6		µg/Kg	61182	1	8/17/2005 5:08:00 PM
m,p-Xylene	BRL	7.3		µg/Kg	61182	1	8/17/2005 5:08:00 PM
Methyl acetate	BRL	3.6		µg/Kg	61182	1	8/17/2005 5:08:00 PM
Methyl tert-butyl ether	BRL	3.6		µg/Kg	61182	1	8/17/2005 5:08:00 PM
Methylcyclohexane	BRL	3.6		µg/Kg	61182	1	8/17/2005 5:08:00 PM
Methylene chloride	BRL	3.6		µg/Kg	61182	1	8/17/2005 5:08:00 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	N	Analyte not NELAC certified	P	NELAC analyte certification pending
	Rpt Limit	Reporting Limit	S	Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: 22-Aug-05

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0508748
Project: Birdsong Peanut
Lab ID: 0508748-004A

Client Sample ID: S-081005 DJB- 004
Tag Number:
Collection Date: 8/10/2005 8:56:00 AM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	BatchID	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B		(SW5035)			Analyst: NWH
o-Xylene	BRL	3.6		µg/Kg	61182	1	8/17/2005 5:08:00 PM
Styrene	BRL	3.6		µg/Kg	61182	1	8/17/2005 5:08:00 PM
Tetrachloroethene	11	3.6		µg/Kg	61182	1	8/17/2005 5:08:00 PM
Toluene	BRL	3.6		µg/Kg	61182	1	8/17/2005 5:08:00 PM
trans-1,2-Dichloroethene	BRL	3.6		µg/Kg	61182	1	8/17/2005 5:08:00 PM
trans-1,3-Dichloropropene	BRL	3.6		µg/Kg	61182	1	8/17/2005 5:08:00 PM
Trichloroethene	BRL	3.6		µg/Kg	61182	1	8/17/2005 5:08:00 PM
Trichlorofluoromethane	BRL	3.6		µg/Kg	61182	1	8/17/2005 5:08:00 PM
Vinyl chloride	BRL	7.3		µg/Kg	61182	1	8/17/2005 5:08:00 PM
Surr: 4-Bromofluorobenzene	109	66.9-120		%REC	61182	1	8/17/2005 5:08:00 PM
Surr: Dibromofluoromethane	131	70.4-133		%REC	61182	1	8/17/2005 5:08:00 PM
Surr: Toluene-d8	123	71.5-140		%REC	61182	1	8/17/2005 5:08:00 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
N Analyte not NELAC certified
Rpt Limit Reporting Limit

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P NELAC analyte certification pending
S Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: 22-Aug-05

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0508748
Project: Birdsong Peanut
Lab ID: 0508748-005A

Client Sample ID: S-081005 DJB- 005
Tag Number:
Collection Date: 8/10/2005 10:25:00 AM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	BatchID	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B		(SW5035)			Analyst: NWH
1,1,1-Trichloroethane	BRL	3.4		µg/Kg	61182	1	8/17/2005 5:36:00 PM
1,1,2,2-Tetrachloroethane	BRL	3.4		µg/Kg	61182	1	8/17/2005 5:36:00 PM
1,1,2-Trichloroethane	BRL	3.4		µg/Kg	61182	1	8/17/2005 5:36:00 PM
1,1-Dichloroethane	BRL	3.4		µg/Kg	61182	1	8/17/2005 5:36:00 PM
1,1-Dichloroethene	BRL	3.4		µg/Kg	61182	1	8/17/2005 5:36:00 PM
1,2,4-Trichlorobenzene	BRL	3.4		µg/Kg	61182	1	8/17/2005 5:36:00 PM
1,2-Dibromo-3-chloropropane	BRL	3.4		µg/Kg	61182	1	8/17/2005 5:36:00 PM
1,2-Dibromoethane	BRL	3.4		µg/Kg	61182	1	8/17/2005 5:36:00 PM
1,2-Dichlorobenzene	BRL	3.4		µg/Kg	61182	1	8/17/2005 5:36:00 PM
1,2-Dichloroethane	BRL	3.4		µg/Kg	61182	1	8/17/2005 5:36:00 PM
1,2-Dichloropropane	BRL	3.4		µg/Kg	61182	1	8/17/2005 5:36:00 PM
1,3-Dichlorobenzene	BRL	3.4		µg/Kg	61182	1	8/17/2005 5:36:00 PM
1,4-Dichlorobenzene	BRL	3.4		µg/Kg	61182	1	8/17/2005 5:36:00 PM
2-Butanone	BRL	34		µg/Kg	61182	1	8/17/2005 5:36:00 PM
2-Hexanone	BRL	6.7		µg/Kg	61182	1	8/17/2005 5:36:00 PM
4-Methyl-2-pentanone	BRL	6.7		µg/Kg	61182	1	8/17/2005 5:36:00 PM
Acetone	BRL	67		µg/Kg	61182	1	8/17/2005 5:36:00 PM
Benzene	BRL	3.4		µg/Kg	61182	1	8/17/2005 5:36:00 PM
Bromodichloromethane	BRL	3.4		µg/Kg	61182	1	8/17/2005 5:36:00 PM
Bromoform	BRL	3.4		µg/Kg	61182	1	8/17/2005 5:36:00 PM
Bromomethane	BRL	3.4		µg/Kg	61182	1	8/17/2005 5:36:00 PM
Carbon disulfide	BRL	6.7		µg/Kg	61182	1	8/17/2005 5:36:00 PM
Carbon tetrachloride	BRL	3.4		µg/Kg	61182	1	8/17/2005 5:36:00 PM
Chlorobenzene	BRL	3.4		µg/Kg	61182	1	8/17/2005 5:36:00 PM
Chloroethane	BRL	6.7		µg/Kg	61182	1	8/17/2005 5:36:00 PM
Chloroform	BRL	3.4		µg/Kg	61182	1	8/17/2005 5:36:00 PM
Chloromethane	BRL	6.7		µg/Kg	61182	1	8/17/2005 5:36:00 PM
cis-1,2-Dichloroethene	BRL	3.4		µg/Kg	61182	1	8/17/2005 5:36:00 PM
cis-1,3-Dichloropropene	BRL	3.4		µg/Kg	61182	1	8/17/2005 5:36:00 PM
Cyclohexane	BRL	3.4		µg/Kg	61182	1	8/17/2005 5:36:00 PM
Dibromochloromethane	BRL	3.4		µg/Kg	61182	1	8/17/2005 5:36:00 PM
Dichlorodifluoromethane	BRL	6.7		µg/Kg	61182	1	8/17/2005 5:36:00 PM
Ethylbenzene	BRL	3.4		µg/Kg	61182	1	8/17/2005 5:36:00 PM
Freon-113	BRL	6.7		µg/Kg	61182	1	8/17/2005 5:36:00 PM
Isopropylbenzene	BRL	3.4		µg/Kg	61182	1	8/17/2005 5:36:00 PM
m,p-Xylene	BRL	6.7		µg/Kg	61182	1	8/17/2005 5:36:00 PM
Methyl acetate	BRL	3.4		µg/Kg	61182	1	8/17/2005 5:36:00 PM
Methyl tert-butyl ether	BRL	3.4		µg/Kg	61182	1	8/17/2005 5:36:00 PM
Methylcyclohexane	BRL	3.4		µg/Kg	61182	1	8/17/2005 5:36:00 PM
Methylene chloride	BRL	3.4		µg/Kg	61182	1	8/17/2005 5:36:00 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	N	Analyte not NELAC certified	P	NELAC analyte certification pending
	Rpt Limit	Reporting Limit	S	Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: 22-Aug-05

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0508748
Project: Birdsong Peanut
Lab ID: 0508748-005A

Client Sample ID: S-081005 DJB- 005
Tag Number:
Collection Date: 8/10/2005 10:25:00 AM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	BatchID	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B		(SW5035)			Analyst: NWH
o-Xylene	BRL	3.4		µg/Kg	61182	1	8/17/2005 5:36:00 PM
Styrene	BRL	3.4		µg/Kg	61182	1	8/17/2005 5:36:00 PM
Tetrachloroethene	6.4	3.4		µg/Kg	61182	1	8/17/2005 5:36:00 PM
Toluene	BRL	3.4		µg/Kg	61182	1	8/17/2005 5:36:00 PM
trans-1,2-Dichloroethene	BRL	3.4		µg/Kg	61182	1	8/17/2005 5:36:00 PM
trans-1,3-Dichloropropene	BRL	3.4		µg/Kg	61182	1	8/17/2005 5:36:00 PM
Trichloroethene	BRL	3.4		µg/Kg	61182	1	8/17/2005 5:36:00 PM
Trichlorofluoromethane	BRL	3.4		µg/Kg	61182	1	8/17/2005 5:36:00 PM
Vinyl chloride	BRL	6.7		µg/Kg	61182	1	8/17/2005 5:36:00 PM
Surr: 4-Bromofluorobenzene	105	66.9-120		%REC	61182	1	8/17/2005 5:36:00 PM
Surr: Dibromofluoromethane	128	70.4-133		%REC	61182	1	8/17/2005 5:36:00 PM
Surr: Toluene-d8	122	71.5-140		%REC	61182	1	8/17/2005 5:36:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level
BRL	Below Reporting Limit
H	Holding times for preparation or analysis exceeded
N	Analyte not NELAC certified
Rpt Limit	Reporting Limit

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	NELAC analyte certification pending
S	Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: 22-Aug-05

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0508748
Project: Birdsong Peanut
Lab ID: 0508748-006A

Client Sample ID: S-081005 DJB- 006
Tag Number:
Collection Date: 8/10/2005 10:35:00 AM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	BatchID	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B		(SW5035)			Analyst: NWH
1,1,1-Trichloroethane	BRL	3.2		µg/Kg	61182	1	8/17/2005 7:00:00 PM
1,1,2,2-Tetrachloroethane	BRL	3.2		µg/Kg	61182	1	8/17/2005 7:00:00 PM
1,1,2-Trichloroethane	BRL	3.2		µg/Kg	61182	1	8/17/2005 7:00:00 PM
1,1-Dichloroethane	BRL	3.2		µg/Kg	61182	1	8/17/2005 7:00:00 PM
1,1-Dichloroethene	BRL	3.2		µg/Kg	61182	1	8/17/2005 7:00:00 PM
1,2,4-Trichlorobenzene	BRL	3.2		µg/Kg	61182	1	8/17/2005 7:00:00 PM
1,2-Dibromo-3-chloropropane	BRL	3.2		µg/Kg	61182	1	8/17/2005 7:00:00 PM
1,2-Dibromoethane	BRL	3.2		µg/Kg	61182	1	8/17/2005 7:00:00 PM
1,2-Dichlorobenzene	BRL	3.2		µg/Kg	61182	1	8/17/2005 7:00:00 PM
1,2-Dichloroethane	BRL	3.2		µg/Kg	61182	1	8/17/2005 7:00:00 PM
1,2-Dichloropropane	BRL	3.2		µg/Kg	61182	1	8/17/2005 7:00:00 PM
1,3-Dichlorobenzene	BRL	3.2		µg/Kg	61182	1	8/17/2005 7:00:00 PM
1,4-Dichlorobenzene	BRL	3.2		µg/Kg	61182	1	8/17/2005 7:00:00 PM
2-Butanone	BRL	32		µg/Kg	61182	1	8/17/2005 7:00:00 PM
2-Hexanone	BRL	6.3		µg/Kg	61182	1	8/17/2005 7:00:00 PM
4-Methyl-2-pentanone	BRL	6.3		µg/Kg	61182	1	8/17/2005 7:00:00 PM
Acetone	BRL	63		µg/Kg	61182	1	8/17/2005 7:00:00 PM
Benzene	BRL	3.2		µg/Kg	61182	1	8/17/2005 7:00:00 PM
Bromodichloromethane	BRL	3.2		µg/Kg	61182	1	8/17/2005 7:00:00 PM
Bromoform	BRL	3.2		µg/Kg	61182	1	8/17/2005 7:00:00 PM
Bromomethane	BRL	3.2		µg/Kg	61182	1	8/17/2005 7:00:00 PM
Carbon disulfide	BRL	6.3		µg/Kg	61182	1	8/17/2005 7:00:00 PM
Carbon tetrachloride	BRL	3.2		µg/Kg	61182	1	8/17/2005 7:00:00 PM
Chlorobenzene	BRL	3.2		µg/Kg	61182	1	8/17/2005 7:00:00 PM
Chloroethane	BRL	6.3		µg/Kg	61182	1	8/17/2005 7:00:00 PM
Chloroform	BRL	3.2		µg/Kg	61182	1	8/17/2005 7:00:00 PM
Chloromethane	BRL	6.3		µg/Kg	61182	1	8/17/2005 7:00:00 PM
cis-1,2-Dichloroethene	BRL	3.2		µg/Kg	61182	1	8/17/2005 7:00:00 PM
cis-1,3-Dichloropropene	BRL	3.2		µg/Kg	61182	1	8/17/2005 7:00:00 PM
Cyclohexane	BRL	3.2		µg/Kg	61182	1	8/17/2005 7:00:00 PM
Dibromochloromethane	BRL	3.2		µg/Kg	61182	1	8/17/2005 7:00:00 PM
Dichlorodifluoromethane	BRL	6.3		µg/Kg	61182	1	8/17/2005 7:00:00 PM
Ethylbenzene	BRL	3.2		µg/Kg	61182	1	8/17/2005 7:00:00 PM
Freon-113	BRL	6.3		µg/Kg	61182	1	8/17/2005 7:00:00 PM
Isopropylbenzene	BRL	3.2		µg/Kg	61182	1	8/17/2005 7:00:00 PM
m,p-Xylene	BRL	6.3		µg/Kg	61182	1	8/17/2005 7:00:00 PM
Methyl acetate	BRL	3.2		µg/Kg	61182	1	8/17/2005 7:00:00 PM
Methyl tert-butyl ether	BRL	3.2		µg/Kg	61182	1	8/17/2005 7:00:00 PM
Methylcyclohexane	BRL	3.2		µg/Kg	61182	1	8/17/2005 7:00:00 PM
Methylene chloride	BRL	3.2		µg/Kg	61182	1	8/17/2005 7:00:00 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	N	Analyte not NELAC certified	P	NELAC analyte certification pending
	Rpt Limit	Reporting Limit	S	Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: 22-Aug-05

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0508748
Project: Birdsong Peanut
Lab ID: 0508748-006A

Client Sample ID: S-081005 DJB- 006
Tag Number:
Collection Date: 8/10/2005 10:35:00 AM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	BatchID	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B		(SW5035)			Analyst: NWH
o-Xylene	BRL	3.2		µg/Kg	61182	1	8/17/2005 7:00:00 PM
Styrene	BRL	3.2		µg/Kg	61182	1	8/17/2005 7:00:00 PM
Tetrachloroethene	4.8	3.2		µg/Kg	61182	1	8/17/2005 7:00:00 PM
Toluene	BRL	3.2		µg/Kg	61182	1	8/17/2005 7:00:00 PM
trans-1,2-Dichloroethene	BRL	3.2		µg/Kg	61182	1	8/17/2005 7:00:00 PM
trans-1,3-Dichloropropene	BRL	3.2		µg/Kg	61182	1	8/17/2005 7:00:00 PM
Trichloroethene	BRL	3.2		µg/Kg	61182	1	8/17/2005 7:00:00 PM
Trichlorofluoromethane	BRL	3.2		µg/Kg	61182	1	8/17/2005 7:00:00 PM
Vinyl chloride	BRL	6.3		µg/Kg	61182	1	8/17/2005 7:00:00 PM
Surr: 4-Bromofluorobenzene	107	66.9-120		%REC	61182	1	8/17/2005 7:00:00 PM
Surr: Dibromofluoromethane	130	70.4-133		%REC	61182	1	8/17/2005 7:00:00 PM
Surr: Toluene-d8	123	71.5-140		%REC	61182	1	8/17/2005 7:00:00 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
N Analyte not NELAC certified
Rpt Limit Reporting Limit

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P NELAC analyte certification pending
S Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: 22-Aug-05

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0508748
Project: Birdsong Peanut
Lab ID: 0508748-007A

Client Sample ID: S-081005 DJB- 007
Tag Number:
Collection Date: 8/10/2005 1:05:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	BatchID	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B		(SW5035)			Analyst: NWH
1,1,1-Trichloroethane	BRL	3.3		µg/Kg	61182	1	8/17/2005 7:28:00 PM
1,1,2,2-Tetrachloroethane	BRL	3.3		µg/Kg	61182	1	8/17/2005 7:28:00 PM
1,1,2-Trichloroethane	BRL	3.3		µg/Kg	61182	1	8/17/2005 7:28:00 PM
1,1-Dichloroethane	BRL	3.3		µg/Kg	61182	1	8/17/2005 7:28:00 PM
1,1-Dichloroethene	BRL	3.3		µg/Kg	61182	1	8/17/2005 7:28:00 PM
1,2,4-Trichlorobenzene	BRL	3.3		µg/Kg	61182	1	8/17/2005 7:28:00 PM
1,2-Dibromo-3-chloropropane	BRL	3.3		µg/Kg	61182	1	8/17/2005 7:28:00 PM
1,2-Dibromoethane	BRL	3.3		µg/Kg	61182	1	8/17/2005 7:28:00 PM
1,2-Dichlorobenzene	BRL	3.3		µg/Kg	61182	1	8/17/2005 7:28:00 PM
1,2-Dichloroethane	BRL	3.3		µg/Kg	61182	1	8/17/2005 7:28:00 PM
1,2-Dichloropropane	BRL	3.3		µg/Kg	61182	1	8/17/2005 7:28:00 PM
1,3-Dichlorobenzene	BRL	3.3		µg/Kg	61182	1	8/17/2005 7:28:00 PM
1,4-Dichlorobenzene	BRL	3.3		µg/Kg	61182	1	8/17/2005 7:28:00 PM
2-Butanone	BRL	33		µg/Kg	61182	1	8/17/2005 7:28:00 PM
2-Hexanone	BRL	6.6		µg/Kg	61182	1	8/17/2005 7:28:00 PM
4-Methyl-2-pentanone	BRL	6.6		µg/Kg	61182	1	8/17/2005 7:28:00 PM
Acetone	BRL	66		µg/Kg	61182	1	8/17/2005 7:28:00 PM
Benzene	BRL	3.3		µg/Kg	61182	1	8/17/2005 7:28:00 PM
Bromodichloromethane	BRL	3.3		µg/Kg	61182	1	8/17/2005 7:28:00 PM
Bromoform	BRL	3.3		µg/Kg	61182	1	8/17/2005 7:28:00 PM
Bromomethane	BRL	3.3		µg/Kg	61182	1	8/17/2005 7:28:00 PM
Carbon disulfide	BRL	6.6		µg/Kg	61182	1	8/17/2005 7:28:00 PM
Carbon tetrachloride	BRL	3.3		µg/Kg	61182	1	8/17/2005 7:28:00 PM
Chlorobenzene	BRL	3.3		µg/Kg	61182	1	8/17/2005 7:28:00 PM
Chloroethane	BRL	6.6		µg/Kg	61182	1	8/17/2005 7:28:00 PM
Chloroform	BRL	3.3		µg/Kg	61182	1	8/17/2005 7:28:00 PM
Chloromethane	BRL	6.6		µg/Kg	61182	1	8/17/2005 7:28:00 PM
cis-1,2-Dichloroethene	BRL	3.3		µg/Kg	61182	1	8/17/2005 7:28:00 PM
cis-1,3-Dichloropropene	BRL	3.3		µg/Kg	61182	1	8/17/2005 7:28:00 PM
Cyclohexane	BRL	3.3		µg/Kg	61182	1	8/17/2005 7:28:00 PM
Dibromochloromethane	BRL	3.3		µg/Kg	61182	1	8/17/2005 7:28:00 PM
Dichlorodifluoromethane	BRL	6.6		µg/Kg	61182	1	8/17/2005 7:28:00 PM
Ethylbenzene	BRL	3.3		µg/Kg	61182	1	8/17/2005 7:28:00 PM
Freon-113	BRL	6.6		µg/Kg	61182	1	8/17/2005 7:28:00 PM
Isopropylbenzene	BRL	3.3		µg/Kg	61182	1	8/17/2005 7:28:00 PM
m,p-Xylene	BRL	6.6		µg/Kg	61182	1	8/17/2005 7:28:00 PM
Methyl acetate	BRL	3.3		µg/Kg	61182	1	8/17/2005 7:28:00 PM
Methyl tert-butyl ether	BRL	3.3		µg/Kg	61182	1	8/17/2005 7:28:00 PM
Methylcyclohexane	BRL	3.3		µg/Kg	61182	1	8/17/2005 7:28:00 PM
Methylene chloride	BRL	3.3		µg/Kg	61182	1	8/17/2005 7:28:00 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	N	Analyte not NELAC certified	P	NELAC analyte certification pending
	Rpt Limit	Reporting Limit	S	Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: 22-Aug-05

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0508748
Project: Birdsong Peanut
Lab ID: 0508748-007A

Client Sample ID: S-081005 DJB- 007
Tag Number:
Collection Date: 8/10/2005 1:05:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	BatchID	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B		(SW5035)			Analyst: NWH
o-Xylene	BRL	3.3		µg/Kg	61182	1	8/17/2005 7:28:00 PM
Styrene	BRL	3.3		µg/Kg	61182	1	8/17/2005 7:28:00 PM
Tetrachloroethene	10	3.3		µg/Kg	61182	1	8/17/2005 7:28:00 PM
Toluene	BRL	3.3		µg/Kg	61182	1	8/17/2005 7:28:00 PM
trans-1,2-Dichloroethene	BRL	3.3		µg/Kg	61182	1	8/17/2005 7:28:00 PM
trans-1,3-Dichloropropene	BRL	3.3		µg/Kg	61182	1	8/17/2005 7:28:00 PM
Trichloroethene	BRL	3.3		µg/Kg	61182	1	8/17/2005 7:28:00 PM
Trichlorofluoromethane	BRL	3.3		µg/Kg	61182	1	8/17/2005 7:28:00 PM
Vinyl chloride	BRL	6.6		µg/Kg	61182	1	8/17/2005 7:28:00 PM
Surr: 4-Bromofluorobenzene	109	66.9-120		%REC	61182	1	8/17/2005 7:28:00 PM
Surr: Dibromofluoromethane	135	70.4-133	S	%REC	61182	1	8/17/2005 7:28:00 PM
Surr: Toluene-d8	125	71.5-140		%REC	61182	1	8/17/2005 7:28:00 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
N Analyte not NELAC certified
Rpt Limit Reporting Limit

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P NELAC analyte certification pending
S Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: 22-Aug-05

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0508748
Project: Birdsong Peanut
Lab ID: 0508748-008A

Client Sample ID: S-081005 DJB- 008
Tag Number:
Collection Date: 8/10/2005 1:15:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	BatchID	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B		(SW5035)			Analyst: NWH
1,1,1-Trichloroethane	BRL	2.9		µg/Kg	61182	1	8/17/2005 7:55:00 PM
1,1,2,2-Tetrachloroethane	BRL	2.9		µg/Kg	61182	1	8/17/2005 7:55:00 PM
1,1,2-Trichloroethane	BRL	2.9		µg/Kg	61182	1	8/17/2005 7:55:00 PM
1,1-Dichloroethane	BRL	2.9		µg/Kg	61182	1	8/17/2005 7:55:00 PM
1,1-Dichloroethene	BRL	2.9		µg/Kg	61182	1	8/17/2005 7:55:00 PM
1,2,4-Trichlorobenzene	BRL	2.9		µg/Kg	61182	1	8/17/2005 7:55:00 PM
1,2-Dibromo-3-chloropropane	BRL	2.9		µg/Kg	61182	1	8/17/2005 7:55:00 PM
1,2-Dibromoethane	BRL	2.9		µg/Kg	61182	1	8/17/2005 7:55:00 PM
1,2-Dichlorobenzene	BRL	2.9		µg/Kg	61182	1	8/17/2005 7:55:00 PM
1,2-Dichloroethane	BRL	2.9		µg/Kg	61182	1	8/17/2005 7:55:00 PM
1,2-Dichloropropane	BRL	2.9		µg/Kg	61182	1	8/17/2005 7:55:00 PM
1,3-Dichlorobenzene	BRL	2.9		µg/Kg	61182	1	8/17/2005 7:55:00 PM
1,4-Dichlorobenzene	BRL	2.9		µg/Kg	61182	1	8/17/2005 7:55:00 PM
2-Butanone	BRL	29		µg/Kg	61182	1	8/17/2005 7:55:00 PM
2-Hexanone	BRL	5.9		µg/Kg	61182	1	8/17/2005 7:55:00 PM
4-Methyl-2-pentanone	BRL	5.9		µg/Kg	61182	1	8/17/2005 7:55:00 PM
Acetone	BRL	59		µg/Kg	61182	1	8/17/2005 7:55:00 PM
Benzene	BRL	2.9		µg/Kg	61182	1	8/17/2005 7:55:00 PM
Bromodichloromethane	BRL	2.9		µg/Kg	61182	1	8/17/2005 7:55:00 PM
Bromoform	BRL	2.9		µg/Kg	61182	1	8/17/2005 7:55:00 PM
Bromomethane	BRL	2.9		µg/Kg	61182	1	8/17/2005 7:55:00 PM
Carbon disulfide	BRL	5.9		µg/Kg	61182	1	8/17/2005 7:55:00 PM
Carbon tetrachloride	BRL	2.9		µg/Kg	61182	1	8/17/2005 7:55:00 PM
Chlorobenzene	BRL	2.9		µg/Kg	61182	1	8/17/2005 7:55:00 PM
Chloroethane	BRL	5.9		µg/Kg	61182	1	8/17/2005 7:55:00 PM
Chloroform	BRL	2.9		µg/Kg	61182	1	8/17/2005 7:55:00 PM
Chloromethane	BRL	5.9		µg/Kg	61182	1	8/17/2005 7:55:00 PM
cis-1,2-Dichloroethene	BRL	2.9		µg/Kg	61182	1	8/17/2005 7:55:00 PM
cis-1,3-Dichloropropene	BRL	2.9		µg/Kg	61182	1	8/17/2005 7:55:00 PM
Cyclohexane	BRL	2.9		µg/Kg	61182	1	8/17/2005 7:55:00 PM
Dibromochloromethane	BRL	2.9		µg/Kg	61182	1	8/17/2005 7:55:00 PM
Dichlorodifluoromethane	BRL	5.9		µg/Kg	61182	1	8/17/2005 7:55:00 PM
Ethylbenzene	BRL	2.9		µg/Kg	61182	1	8/17/2005 7:55:00 PM
Freon-113	BRL	5.9		µg/Kg	61182	1	8/17/2005 7:55:00 PM
Isopropylbenzene	BRL	2.9		µg/Kg	61182	1	8/17/2005 7:55:00 PM
m,p-Xylene	BRL	5.9		µg/Kg	61182	1	8/17/2005 7:55:00 PM
Methyl acetate	BRL	2.9		µg/Kg	61182	1	8/17/2005 7:55:00 PM
Methyl tert-butyl ether	BRL	2.9		µg/Kg	61182	1	8/17/2005 7:55:00 PM
Methylcyclohexane	BRL	2.9		µg/Kg	61182	1	8/17/2005 7:55:00 PM
Methylene chloride	BRL	2.9		µg/Kg	61182	1	8/17/2005 7:55:00 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	N	Analyte not NELAC certified	P	NELAC analyte certification pending
	Rpt Limit	Reporting Limit	S	Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: 22-Aug-05

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0508748
Project: Birdsong Peanut
Lab ID: 0508748-008A

Client Sample ID: S-081005 DJB- 008
Tag Number:
Collection Date: 8/10/2005 1:15:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	BatchID	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B		(SW5035)			Analyst: NWH
o-Xylene	BRL	2.9		µg/Kg	61182	1	8/17/2005 7:55:00 PM
Styrene	BRL	2.9		µg/Kg	61182	1	8/17/2005 7:55:00 PM
Tetrachloroethene	13	2.9		µg/Kg	61182	1	8/17/2005 7:55:00 PM
Toluene	BRL	2.9		µg/Kg	61182	1	8/17/2005 7:55:00 PM
trans-1,2-Dichloroethene	BRL	2.9		µg/Kg	61182	1	8/17/2005 7:55:00 PM
trans-1,3-Dichloropropene	BRL	2.9		µg/Kg	61182	1	8/17/2005 7:55:00 PM
Trichloroethene	BRL	2.9		µg/Kg	61182	1	8/17/2005 7:55:00 PM
Trichlorofluoromethane	BRL	2.9		µg/Kg	61182	1	8/17/2005 7:55:00 PM
Vinyl chloride	BRL	5.9		µg/Kg	61182	1	8/17/2005 7:55:00 PM
Surr: 4-Bromofluorobenzene	106	66.9-120		%REC	61182	1	8/17/2005 7:55:00 PM
Surr: Dibromofluoromethane	131	70.4-133		%REC	61182	1	8/17/2005 7:55:00 PM
Surr: Toluene-d8	121	71.5-140		%REC	61182	1	8/17/2005 7:55:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level
BRL	Below Reporting Limit
H	Holding times for preparation or analysis exceeded
N	Analyte not NELAC certified
Rpt Limit	Reporting Limit

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	NELAC analyte certification pending
S	Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: 22-Aug-05

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0508748
Project: Birdsong Peanut
Lab ID: 0508748-009A

Client Sample ID: S-081005 DJB- 009
Tag Number:
Collection Date: 8/10/2005 2:00:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	BatchID	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B		(SW5035)			Analyst: NWH
1,1,1-Trichloroethane	BRL	3.6		µg/Kg	61182	1	8/17/2005 8:23:00 PM
1,1,2,2-Tetrachloroethane	BRL	3.6		µg/Kg	61182	1	8/17/2005 8:23:00 PM
1,1,2-Trichloroethane	BRL	3.6		µg/Kg	61182	1	8/17/2005 8:23:00 PM
1,1-Dichloroethane	BRL	3.6		µg/Kg	61182	1	8/17/2005 8:23:00 PM
1,1-Dichloroethene	BRL	3.6		µg/Kg	61182	1	8/17/2005 8:23:00 PM
1,2,4-Trichlorobenzene	BRL	3.6		µg/Kg	61182	1	8/17/2005 8:23:00 PM
1,2-Dibromo-3-chloropropane	BRL	3.6		µg/Kg	61182	1	8/17/2005 8:23:00 PM
1,2-Dibromoethane	BRL	3.6		µg/Kg	61182	1	8/17/2005 8:23:00 PM
1,2-Dichlorobenzene	BRL	3.6		µg/Kg	61182	1	8/17/2005 8:23:00 PM
1,2-Dichloroethane	BRL	3.6		µg/Kg	61182	1	8/17/2005 8:23:00 PM
1,2-Dichloropropane	BRL	3.6		µg/Kg	61182	1	8/17/2005 8:23:00 PM
1,3-Dichlorobenzene	BRL	3.6		µg/Kg	61182	1	8/17/2005 8:23:00 PM
1,4-Dichlorobenzene	BRL	3.6		µg/Kg	61182	1	8/17/2005 8:23:00 PM
2-Butanone	BRL	36		µg/Kg	61182	1	8/17/2005 8:23:00 PM
2-Hexanone	BRL	7.2		µg/Kg	61182	1	8/17/2005 8:23:00 PM
4-Methyl-2-pentanone	BRL	7.2		µg/Kg	61182	1	8/17/2005 8:23:00 PM
Acetone	BRL	72		µg/Kg	61182	1	8/17/2005 8:23:00 PM
Benzene	BRL	3.6		µg/Kg	61182	1	8/17/2005 8:23:00 PM
Bromodichloromethane	BRL	3.6		µg/Kg	61182	1	8/17/2005 8:23:00 PM
Bromoform	BRL	3.6		µg/Kg	61182	1	8/17/2005 8:23:00 PM
Bromomethane	BRL	3.6		µg/Kg	61182	1	8/17/2005 8:23:00 PM
Carbon disulfide	BRL	7.2		µg/Kg	61182	1	8/17/2005 8:23:00 PM
Carbon tetrachloride	BRL	3.6		µg/Kg	61182	1	8/17/2005 8:23:00 PM
Chlorobenzene	BRL	3.6		µg/Kg	61182	1	8/17/2005 8:23:00 PM
Chloroethane	BRL	7.2		µg/Kg	61182	1	8/17/2005 8:23:00 PM
Chloroform	BRL	3.6		µg/Kg	61182	1	8/17/2005 8:23:00 PM
Chloromethane	BRL	7.2		µg/Kg	61182	1	8/17/2005 8:23:00 PM
cis-1,2-Dichloroethene	BRL	3.6		µg/Kg	61182	1	8/17/2005 8:23:00 PM
cis-1,3-Dichloropropene	BRL	3.6		µg/Kg	61182	1	8/17/2005 8:23:00 PM
Cyclohexane	BRL	3.6		µg/Kg	61182	1	8/17/2005 8:23:00 PM
Dibromochloromethane	BRL	3.6		µg/Kg	61182	1	8/17/2005 8:23:00 PM
Dichlorodifluoromethane	BRL	7.2		µg/Kg	61182	1	8/17/2005 8:23:00 PM
Ethylbenzene	BRL	3.6		µg/Kg	61182	1	8/17/2005 8:23:00 PM
Freon-113	BRL	7.2		µg/Kg	61182	1	8/17/2005 8:23:00 PM
Isopropylbenzene	BRL	3.6		µg/Kg	61182	1	8/17/2005 8:23:00 PM
m,p-Xylene	BRL	7.2		µg/Kg	61182	1	8/17/2005 8:23:00 PM
Methyl acetate	BRL	3.6		µg/Kg	61182	1	8/17/2005 8:23:00 PM
Methyl tert-butyl ether	BRL	3.6		µg/Kg	61182	1	8/17/2005 8:23:00 PM
Methylcyclohexane	BRL	3.6		µg/Kg	61182	1	8/17/2005 8:23:00 PM
Methylene chloride	BRL	3.6		µg/Kg	61182	1	8/17/2005 8:23:00 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	N	Analyte not NELAC certified	P	NELAC analyte certification pending
	Rpt Limit	Reporting Limit	S	Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: 22-Aug-05

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0508748
Project: Birdsong Peanut
Lab ID: 0508748-009A

Client Sample ID: S-081005 DJB- 009
Tag Number:
Collection Date: 8/10/2005 2:00:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	BatchID	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B			(SW5035)		Analyst: NWH
o-Xylene	BRL	3.6		µg/Kg	61182	1	8/17/2005 8:23:00 PM
Styrene	BRL	3.6		µg/Kg	61182	1	8/17/2005 8:23:00 PM
Tetrachloroethene	BRL	3.6		µg/Kg	61182	1	8/17/2005 8:23:00 PM
Toluene	BRL	3.6		µg/Kg	61182	1	8/17/2005 8:23:00 PM
trans-1,2-Dichloroethene	BRL	3.6		µg/Kg	61182	1	8/17/2005 8:23:00 PM
trans-1,3-Dichloropropene	BRL	3.6		µg/Kg	61182	1	8/17/2005 8:23:00 PM
Trichloroethene	BRL	3.6		µg/Kg	61182	1	8/17/2005 8:23:00 PM
Trichlorofluoromethane	BRL	3.6		µg/Kg	61182	1	8/17/2005 8:23:00 PM
Vinyl chloride	BRL	7.2		µg/Kg	61182	1	8/17/2005 8:23:00 PM
Surr: 4-Bromofluorobenzene	107	66.9-120		%REC	61182	1	8/17/2005 8:23:00 PM
Surr: Dibromofluoromethane	129	70.4-133		%REC	61182	1	8/17/2005 8:23:00 PM
Surr: Toluene-d8	120	71.5-140		%REC	61182	1	8/17/2005 8:23:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level
BRL	Below Reporting Limit
H	Holding times for preparation or analysis exceeded
N	Analyte not NELAC certified
Rpt Limit	Reporting Limit

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	NELAC analyte certification pending
S	Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: 22-Aug-05

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0508748
Project: Birdsong Peanut
Lab ID: 0508748-010A

Client Sample ID: S-081005 DJB- 010
Tag Number:
Collection Date: 8/10/2005 3:30:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	BatchID	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B		(SW5035)	Analyst: NWH		
1,1,1-Trichloroethane	BRL	3.1		µg/Kg	61182	1	8/17/2005 8:51:00 PM
1,1,2,2-Tetrachloroethane	BRL	3.1		µg/Kg	61182	1	8/17/2005 8:51:00 PM
1,1,2-Trichloroethane	BRL	3.1		µg/Kg	61182	1	8/17/2005 8:51:00 PM
1,1-Dichloroethane	BRL	3.1		µg/Kg	61182	1	8/17/2005 8:51:00 PM
1,1-Dichloroethene	BRL	3.1		µg/Kg	61182	1	8/17/2005 8:51:00 PM
1,2,4-Trichlorobenzene	BRL	3.1		µg/Kg	61182	1	8/17/2005 8:51:00 PM
1,2-Dibromo-3-chloropropane	BRL	3.1		µg/Kg	61182	1	8/17/2005 8:51:00 PM
1,2-Dibromoethane	BRL	3.1		µg/Kg	61182	1	8/17/2005 8:51:00 PM
1,2-Dichlorobenzene	BRL	3.1		µg/Kg	61182	1	8/17/2005 8:51:00 PM
1,2-Dichloroethane	BRL	3.1		µg/Kg	61182	1	8/17/2005 8:51:00 PM
1,2-Dichloropropane	BRL	3.1		µg/Kg	61182	1	8/17/2005 8:51:00 PM
1,3-Dichlorobenzene	BRL	3.1		µg/Kg	61182	1	8/17/2005 8:51:00 PM
1,4-Dichlorobenzene	BRL	3.1		µg/Kg	61182	1	8/17/2005 8:51:00 PM
2-Butanone	BRL	31		µg/Kg	61182	1	8/17/2005 8:51:00 PM
2-Hexanone	BRL	6.3		µg/Kg	61182	1	8/17/2005 8:51:00 PM
4-Methyl-2-pentanone	BRL	6.3		µg/Kg	61182	1	8/17/2005 8:51:00 PM
Acetone	BRL	63		µg/Kg	61182	1	8/17/2005 8:51:00 PM
Benzene	BRL	3.1		µg/Kg	61182	1	8/17/2005 8:51:00 PM
Bromodichloromethane	BRL	3.1		µg/Kg	61182	1	8/17/2005 8:51:00 PM
Bromoform	BRL	3.1		µg/Kg	61182	1	8/17/2005 8:51:00 PM
Bromomethane	BRL	3.1		µg/Kg	61182	1	8/17/2005 8:51:00 PM
Carbon disulfide	BRL	6.3		µg/Kg	61182	1	8/17/2005 8:51:00 PM
Carbon tetrachloride	BRL	3.1		µg/Kg	61182	1	8/17/2005 8:51:00 PM
Chlorobenzene	BRL	3.1		µg/Kg	61182	1	8/17/2005 8:51:00 PM
Chloroethane	BRL	6.3		µg/Kg	61182	1	8/17/2005 8:51:00 PM
Chloroform	BRL	3.1		µg/Kg	61182	1	8/17/2005 8:51:00 PM
Chloromethane	BRL	6.3		µg/Kg	61182	1	8/17/2005 8:51:00 PM
cis-1,2-Dichloroethene	BRL	3.1		µg/Kg	61182	1	8/17/2005 8:51:00 PM
cis-1,3-Dichloropropene	BRL	3.1		µg/Kg	61182	1	8/17/2005 8:51:00 PM
Cyclohexane	BRL	3.1		µg/Kg	61182	1	8/17/2005 8:51:00 PM
Dibromochloromethane	BRL	3.1		µg/Kg	61182	1	8/17/2005 8:51:00 PM
Dichlorodifluoromethane	BRL	6.3		µg/Kg	61182	1	8/17/2005 8:51:00 PM
Ethylbenzene	BRL	3.1		µg/Kg	61182	1	8/17/2005 8:51:00 PM
Freon-113	BRL	6.3		µg/Kg	61182	1	8/17/2005 8:51:00 PM
Isopropylbenzene	BRL	3.1		µg/Kg	61182	1	8/17/2005 8:51:00 PM
m,p-Xylene	BRL	6.3		µg/Kg	61182	1	8/17/2005 8:51:00 PM
Methyl acetate	BRL	3.1		µg/Kg	61182	1	8/17/2005 8:51:00 PM
Methyl tert-butyl ether	BRL	3.1		µg/Kg	61182	1	8/17/2005 8:51:00 PM
Methylcyclohexane	BRL	3.1		µg/Kg	61182	1	8/17/2005 8:51:00 PM
Methylene chloride	BRL	3.1		µg/Kg	61182	1	8/17/2005 8:51:00 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	N	Analyte not NELAC certified	P	NELAC analyte certification pending
	Rpt Limit	Reporting Limit	S	Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: 22-Aug-05

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0508748
Project: Birdsong Peanut
Lab ID: 0508748-010A

Client Sample ID: S-081005 DJB- 010
Tag Number:
Collection Date: 8/10/2005 3:30:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	BatchID	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B			(SW5035)		Analyst: NWH
o-Xylene	BRL	3.1		µg/Kg	61182	1	8/17/2005 8:51:00 PM
Styrene	BRL	3.1		µg/Kg	61182	1	8/17/2005 8:51:00 PM
Tetrachloroethene	BRL	3.1		µg/Kg	61182	1	8/17/2005 8:51:00 PM
Toluene	BRL	3.1		µg/Kg	61182	1	8/17/2005 8:51:00 PM
trans-1,2-Dichloroethene	BRL	3.1		µg/Kg	61182	1	8/17/2005 8:51:00 PM
trans-1,3-Dichloropropene	BRL	3.1		µg/Kg	61182	1	8/17/2005 8:51:00 PM
Trichloroethene	BRL	3.1		µg/Kg	61182	1	8/17/2005 8:51:00 PM
Trichlorofluoromethane	BRL	3.1		µg/Kg	61182	1	8/17/2005 8:51:00 PM
Vinyl chloride	BRL	6.3		µg/Kg	61182	1	8/17/2005 8:51:00 PM
Surr: 4-Bromofluorobenzene	108	66.9-120		%REC	61182	1	8/17/2005 8:51:00 PM
Surr: Dibromofluoromethane	133	70.4-133		%REC	61182	1	8/17/2005 8:51:00 PM
Surr: Toluene-d8	124	71.5-140		%REC	61182	1	8/17/2005 8:51:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level
BRL	Below Reporting Limit
H	Holding times for preparation or analysis exceeded
N	Analyte not NELAC certified
Rpt Limit	Reporting Limit

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	NELAC analyte certification pending
S	Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: 22-Aug-05

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0508748
Project: Birdsong Peanut
Lab ID: 0508748-011A

Client Sample ID: S-081205 DJB- 011
Tag Number:
Collection Date: 8/12/2005 3:40:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	BatchID	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B		(SW5035)			Analyst: NWH
1,1,1-Trichloroethane	BRL	2.5		µg/Kg	61182	1	8/17/2005 9:19:00 PM
1,1,1,2-Tetrachloroethane	BRL	2.5		µg/Kg	61182	1	8/17/2005 9:19:00 PM
1,1,2-Trichloroethane	BRL	2.5		µg/Kg	61182	1	8/17/2005 9:19:00 PM
1,1-Dichloroethane	BRL	2.5		µg/Kg	61182	1	8/17/2005 9:19:00 PM
1,1-Dichloroethene	BRL	2.5		µg/Kg	61182	1	8/17/2005 9:19:00 PM
1,2,4-Trichlorobenzene	BRL	2.5		µg/Kg	61182	1	8/17/2005 9:19:00 PM
1,2-Dibromo-3-chloropropane	BRL	2.5		µg/Kg	61182	1	8/17/2005 9:19:00 PM
1,2-Dibromoethane	BRL	2.5		µg/Kg	61182	1	8/17/2005 9:19:00 PM
1,2-Dichlorobenzene	BRL	2.5		µg/Kg	61182	1	8/17/2005 9:19:00 PM
1,2-Dichloroethane	BRL	2.5		µg/Kg	61182	1	8/17/2005 9:19:00 PM
1,2-Dichloropropane	BRL	2.5		µg/Kg	61182	1	8/17/2005 9:19:00 PM
1,3-Dichlorobenzene	BRL	2.5		µg/Kg	61182	1	8/17/2005 9:19:00 PM
1,4-Dichlorobenzene	BRL	2.5		µg/Kg	61182	1	8/17/2005 9:19:00 PM
2-Butanone	BRL	25		µg/Kg	61182	1	8/17/2005 9:19:00 PM
2-Hexanone	BRL	5.1		µg/Kg	61182	1	8/17/2005 9:19:00 PM
4-Methyl-2-pentanone	BRL	5.1		µg/Kg	61182	1	8/17/2005 9:19:00 PM
Acetone	BRL	51		µg/Kg	61182	1	8/17/2005 9:19:00 PM
Benzene	BRL	2.5		µg/Kg	61182	1	8/17/2005 9:19:00 PM
Bromodichloromethane	BRL	2.5		µg/Kg	61182	1	8/17/2005 9:19:00 PM
Bromoform	BRL	2.5		µg/Kg	61182	1	8/17/2005 9:19:00 PM
Bromomethane	BRL	2.5		µg/Kg	61182	1	8/17/2005 9:19:00 PM
Carbon disulfide	BRL	5.1		µg/Kg	61182	1	8/17/2005 9:19:00 PM
Carbon tetrachloride	BRL	2.5		µg/Kg	61182	1	8/17/2005 9:19:00 PM
Chlorobenzene	BRL	2.5		µg/Kg	61182	1	8/17/2005 9:19:00 PM
Chloroethane	BRL	5.1		µg/Kg	61182	1	8/17/2005 9:19:00 PM
Chloroform	BRL	2.5		µg/Kg	61182	1	8/17/2005 9:19:00 PM
Chloromethane	BRL	5.1		µg/Kg	61182	1	8/17/2005 9:19:00 PM
cis-1,2-Dichloroethene	BRL	2.5		µg/Kg	61182	1	8/17/2005 9:19:00 PM
cis-1,3-Dichloropropene	BRL	2.5		µg/Kg	61182	1	8/17/2005 9:19:00 PM
Cyclohexane	BRL	2.5		µg/Kg	61182	1	8/17/2005 9:19:00 PM
Dibromochloromethane	BRL	2.5		µg/Kg	61182	1	8/17/2005 9:19:00 PM
Dichlorodifluoromethane	BRL	5.1		µg/Kg	61182	1	8/17/2005 9:19:00 PM
Ethylbenzene	BRL	2.5		µg/Kg	61182	1	8/17/2005 9:19:00 PM
Freon-113	BRL	5.1		µg/Kg	61182	1	8/17/2005 9:19:00 PM
Isopropylbenzene	BRL	2.5		µg/Kg	61182	1	8/17/2005 9:19:00 PM
m,p-Xylene	BRL	5.1		µg/Kg	61182	1	8/17/2005 9:19:00 PM
Methyl acetate	BRL	2.5		µg/Kg	61182	1	8/17/2005 9:19:00 PM
Methyl tert-butyl ether	BRL	2.5		µg/Kg	61182	1	8/17/2005 9:19:00 PM
Methylcyclohexane	BRL	2.5		µg/Kg	61182	1	8/17/2005 9:19:00 PM
Methylene chloride	BRL	2.5		µg/Kg	61182	1	8/17/2005 9:19:00 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
 BRL Below Reporting Limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 Rpt Limit Reporting Limit

B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P NELAC analyte certification pending
 S Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: 22-Aug-05

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0508748
Project: Birdsong Peanut
Lab ID: 0508748-011A

Client Sample ID: S-081205 DJB- 011
Tag Number:
Collection Date: 8/12/2005 3:40:00 PM
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	BatchID	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B		(SW5035)			Analyst: NWH
o-Xylene	BRL	2.5		µg/Kg	61182	1	8/17/2005 9:19:00 PM
Styrene	BRL	2.5		µg/Kg	61182	1	8/17/2005 9:19:00 PM
Tetrachloroethene	8.0	2.5		µg/Kg	61182	1	8/17/2005 9:19:00 PM
Toluene	BRL	2.5		µg/Kg	61182	1	8/17/2005 9:19:00 PM
trans-1,2-Dichloroethene	BRL	2.5		µg/Kg	61182	1	8/17/2005 9:19:00 PM
trans-1,3-Dichloropropene	BRL	2.5		µg/Kg	61182	1	8/17/2005 9:19:00 PM
Trichloroethene	BRL	2.5		µg/Kg	61182	1	8/17/2005 9:19:00 PM
Trichlorofluoromethane	BRL	2.5		µg/Kg	61182	1	8/17/2005 9:19:00 PM
Vinyl chloride	BRL	5.1		µg/Kg	61182	1	8/17/2005 9:19:00 PM
Surr: 4-Bromofluorobenzene	104	66.9-120		%REC	61182	1	8/17/2005 9:19:00 PM
Surr: Dibromofluoromethane	137	70.4-133	S	%REC	61182	1	8/17/2005 9:19:00 PM
Surr: Toluene-d8	121	71.5-140		%REC	61182	1	8/17/2005 9:19:00 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- BRL Below Reporting Limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- Rpt Limit Reporting Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P NELAC analyte certification pending
- S Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: 22-Aug-05

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0508748
Project: Birdsong Peanut
Lab ID: 0508748-012A

Client Sample ID: GW-081005 DJB 001
Tag Number:
Collection Date: 8/10/2005 9:30:00 AM
Matrix: GROUNDWATER

Analyses	Result	Limit	Qual	Units	BatchID	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B			(SW5030B)		Analyst: MRT
1,1,1-Trichloroethane	BRL	5.0		µg/L	61057	1	8/15/2005 12:44:00 PI
1,1,2,2-Tetrachloroethane	BRL	5.0		µg/L	61057	1	8/15/2005 12:44:00 PI
1,1,2-Trichloroethane	BRL	5.0		µg/L	61057	1	8/15/2005 12:44:00 PI
1,1-Dichloroethane	BRL	5.0		µg/L	61057	1	8/15/2005 12:44:00 PI
1,1-Dichloroethene	BRL	5.0		µg/L	61057	1	8/15/2005 12:44:00 PI
1,2,4-Trichlorobenzene	BRL	5.0		µg/L	61057	1	8/15/2005 12:44:00 PI
1,2-Dibromo-3-chloropropane	BRL	5.0		µg/L	61057	1	8/15/2005 12:44:00 PI
1,2-Dibromoethane	BRL	5.0		µg/L	61057	1	8/15/2005 12:44:00 PI
1,2-Dichlorobenzene	BRL	5.0		µg/L	61057	1	8/15/2005 12:44:00 PI
1,2-Dichloroethane	BRL	5.0		µg/L	61057	1	8/15/2005 12:44:00 PI
1,2-Dichloropropane	BRL	5.0		µg/L	61057	1	8/15/2005 12:44:00 PI
1,3-Dichlorobenzene	BRL	5.0		µg/L	61057	1	8/15/2005 12:44:00 PI
1,4-Dichlorobenzene	BRL	5.0		µg/L	61057	1	8/15/2005 12:44:00 PI
2-Butanone	BRL	50		µg/L	61057	1	8/15/2005 12:44:00 PI
2-Hexanone	BRL	10		µg/L	61057	1	8/15/2005 12:44:00 PI
4-Methyl-2-pentanone	BRL	10		µg/L	61057	1	8/15/2005 12:44:00 PI
Acetone	BRL	50		µg/L	61057	1	8/15/2005 12:44:00 PI
Benzene	BRL	5.0		µg/L	61057	1	8/15/2005 12:44:00 PI
Bromodichloromethane	BRL	5.0		µg/L	61057	1	8/15/2005 12:44:00 PI
Bromoform	BRL	5.0		µg/L	61057	1	8/15/2005 12:44:00 PI
Bromomethane	BRL	5.0		µg/L	61057	1	8/15/2005 12:44:00 PI
Carbon disulfide	BRL	5.0		µg/L	61057	1	8/15/2005 12:44:00 PI
Carbon tetrachloride	BRL	5.0		µg/L	61057	1	8/15/2005 12:44:00 PI
Chlorobenzene	BRL	5.0		µg/L	61057	1	8/15/2005 12:44:00 PI
Chloroethane	BRL	10		µg/L	61057	1	8/15/2005 12:44:00 PI
Chloroform	BRL	5.0		µg/L	61057	1	8/15/2005 12:44:00 PI
Chloromethane	BRL	10		µg/L	61057	1	8/15/2005 12:44:00 PI
cis-1,2-Dichloroethene	BRL	5.0		µg/L	61057	1	8/15/2005 12:44:00 PI
cis-1,3-Dichloropropene	BRL	5.0		µg/L	61057	1	8/15/2005 12:44:00 PI
Cyclohexane	BRL	5.0		µg/L	61057	1	8/15/2005 12:44:00 PI
Dibromochloromethane	BRL	5.0		µg/L	61057	1	8/15/2005 12:44:00 PI
Dichlorodifluoromethane	BRL	10		µg/L	61057	1	8/15/2005 12:44:00 PI
Ethylbenzene	BRL	5.0		µg/L	61057	1	8/15/2005 12:44:00 PI
Freon-113	BRL	10		µg/L	61057	1	8/15/2005 12:44:00 PI
Isopropylbenzene	BRL	5.0		µg/L	61057	1	8/15/2005 12:44:00 PI
m,p-Xylene	BRL	10		µg/L	61057	1	8/15/2005 12:44:00 PI
Methyl acetate	BRL	5.0		µg/L	61057	1	8/15/2005 12:44:00 PI
Methyl tert-butyl ether	BRL	5.0		µg/L	61057	1	8/15/2005 12:44:00 PI
Methylcyclohexane	BRL	5.0		µg/L	61057	1	8/15/2005 12:44:00 PI
Methylene chloride	BRL	5.0		µg/L	61057	1	8/15/2005 12:44:00 PI

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- BRL Below Reporting Limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- Rpt Limit Reporting Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P NELAC analyte certification pending
- S Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: 22-Aug-05

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0508748
Project: Birdsong Peanut
Lab ID: 0508748-012A

Client Sample ID: GW-081005 DJB 001
Tag Number:
Collection Date: 8/10/2005 9:30:00 AM
Matrix: GROUNDWATER

Analyses	Result	Limit	Qual	Units	BatchID	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B			(SW5030B)		Analyst: MRT
o-Xylene	BRL	5.0		µg/L	61057	1	8/15/2005 12:44:00 PI
Styrene	BRL	5.0		µg/L	61057	1	8/15/2005 12:44:00 PI
Tetrachloroethene	18	5.0		µg/L	61057	1	8/15/2005 12:44:00 PI
Toluene	BRL	5.0		µg/L	61057	1	8/15/2005 12:44:00 PI
trans-1,2-Dichloroethene	BRL	5.0		µg/L	61057	1	8/15/2005 12:44:00 PI
trans-1,3-Dichloropropene	BRL	5.0		µg/L	61057	1	8/15/2005 12:44:00 PI
Trichloroethene	BRL	5.0		µg/L	61057	1	8/15/2005 12:44:00 PI
Trichlorofluoromethane	BRL	5.0		µg/L	61057	1	8/15/2005 12:44:00 PI
Vinyl chloride	BRL	2.0		µg/L	61057	1	8/15/2005 12:44:00 PI
Surr: 4-Bromofluorobenzene	75.6	66.7-128		%REC	61057	1	8/15/2005 12:44:00 PI
Surr: Dibromofluoromethane	107	72.1-121		%REC	61057	1	8/15/2005 12:44:00 PI
Surr: Toluene-d8	92.3	75.2-121		%REC	61057	1	8/15/2005 12:44:00 PI

Qualifiers:

*	Value exceeds Maximum Contaminant Level
BRL	Below Reporting Limit
H	Holding times for preparation or analysis exceeded
N	Analyte not NELAC certified
Rpt Limit	Reporting Limit

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	NELAC analyte certification pending
S	Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: 22-Aug-05

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0508748
Project: Birdsong Peanut
Lab ID: 0508748-013A

Client Sample ID: GW-081005 DJB 002
Tag Number:
Collection Date: 8/10/2005 11:35:00 AM
Matrix: GROUNDWATER

Analyses	Result	Limit Qual	Units	BatchID	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B		(SW5030B)		Analyst: MRT
1,1,1-Trichloroethane	BRL	5.0	µg/L	61057	1	8/15/2005 6:07:00 PM
1,1,2,2-Tetrachloroethane	BRL	5.0	µg/L	61057	1	8/15/2005 6:07:00 PM
1,1,2-Trichloroethane	BRL	5.0	µg/L	61057	1	8/15/2005 6:07:00 PM
1,1-Dichloroethane	BRL	5.0	µg/L	61057	1	8/15/2005 6:07:00 PM
1,1-Dichloroethene	BRL	5.0	µg/L	61057	1	8/15/2005 6:07:00 PM
1,2,4-Trichlorobenzene	BRL	5.0	µg/L	61057	1	8/15/2005 6:07:00 PM
1,2-Dibromo-3-chloropropane	BRL	5.0	µg/L	61057	1	8/15/2005 6:07:00 PM
1,2-Dibromoethane	BRL	5.0	µg/L	61057	1	8/15/2005 6:07:00 PM
1,2-Dichlorobenzene	BRL	5.0	µg/L	61057	1	8/15/2005 6:07:00 PM
1,2-Dichloroethane	BRL	5.0	µg/L	61057	1	8/15/2005 6:07:00 PM
1,2-Dichloropropane	BRL	5.0	µg/L	61057	1	8/15/2005 6:07:00 PM
1,3-Dichlorobenzene	BRL	5.0	µg/L	61057	1	8/15/2005 6:07:00 PM
1,4-Dichlorobenzene	BRL	5.0	µg/L	61057	1	8/15/2005 6:07:00 PM
2-Butanone	BRL	50	µg/L	61057	1	8/15/2005 6:07:00 PM
2-Hexanone	BRL	10	µg/L	61057	1	8/15/2005 6:07:00 PM
4-Methyl-2-pentanone	BRL	10	µg/L	61057	1	8/15/2005 6:07:00 PM
Acetone	BRL	50	µg/L	61057	1	8/15/2005 6:07:00 PM
Benzene	BRL	5.0	µg/L	61057	1	8/15/2005 6:07:00 PM
Bromodichloromethane	BRL	5.0	µg/L	61057	1	8/15/2005 6:07:00 PM
Bromoform	BRL	5.0	µg/L	61057	1	8/15/2005 6:07:00 PM
Bromomethane	BRL	5.0	µg/L	61057	1	8/15/2005 6:07:00 PM
Carbon disulfide	BRL	5.0	µg/L	61057	1	8/15/2005 6:07:00 PM
Carbon tetrachloride	BRL	5.0	µg/L	61057	1	8/15/2005 6:07:00 PM
Chlorobenzene	BRL	5.0	µg/L	61057	1	8/15/2005 6:07:00 PM
Chloroethane	BRL	10	µg/L	61057	1	8/15/2005 6:07:00 PM
Chloroform	BRL	5.0	µg/L	61057	1	8/15/2005 6:07:00 PM
Chloromethane	BRL	10	µg/L	61057	1	8/15/2005 6:07:00 PM
cis-1,2-Dichloroethene	BRL	5.0	µg/L	61057	1	8/15/2005 6:07:00 PM
cis-1,3-Dichloropropene	BRL	5.0	µg/L	61057	1	8/15/2005 6:07:00 PM
Cyclohexane	BRL	5.0	µg/L	61057	1	8/15/2005 6:07:00 PM
Dibromochloromethane	BRL	5.0	µg/L	61057	1	8/15/2005 6:07:00 PM
Dichlorodifluoromethane	BRL	10	µg/L	61057	1	8/15/2005 6:07:00 PM
Ethylbenzene	BRL	5.0	µg/L	61057	1	8/15/2005 6:07:00 PM
Freon-113	BRL	10	µg/L	61057	1	8/15/2005 6:07:00 PM
Isopropylbenzene	BRL	5.0	µg/L	61057	1	8/15/2005 6:07:00 PM
m,p-Xylene	BRL	10	µg/L	61057	1	8/15/2005 6:07:00 PM
Methyl acetate	BRL	5.0	µg/L	61057	1	8/15/2005 6:07:00 PM
Methyl tert-butyl ether	BRL	5.0	µg/L	61057	1	8/15/2005 6:07:00 PM
Methylcyclohexane	BRL	5.0	µg/L	61057	1	8/15/2005 6:07:00 PM
Methylene chloride	BRL	5.0	µg/L	61057	1	8/15/2005 6:07:00 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	N	Analyte not NELAC certified	P	NELAC analyte certification pending
	Rpt Limit	Reporting Limit	S	Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: 22-Aug-05

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0508748
Project: Birdsong Peanut
Lab ID: 0508748-013A

Client Sample ID: GW-081005 DJB 002
Tag Number:
Collection Date: 8/10/2005 11:35:00 AM
Matrix: GROUNDWATER

Analyses	Result	Limit	Qual	Units	BatchID	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B			(SW5030B)		Analyst: MRT
o-Xylene	BRL	5.0		µg/L	61057	1	8/15/2005 6:07:00 PM
Styrene	BRL	5.0		µg/L	61057	1	8/15/2005 6:07:00 PM
Tetrachloroethene	70	5.0		µg/L	61057	1	8/15/2005 6:07:00 PM
Toluene	BRL	5.0		µg/L	61057	1	8/15/2005 6:07:00 PM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	61057	1	8/15/2005 6:07:00 PM
trans-1,3-Dichloropropene	BRL	5.0		µg/L	61057	1	8/15/2005 6:07:00 PM
Trichloroethene	BRL	5.0		µg/L	61057	1	8/15/2005 6:07:00 PM
Trichlorofluoromethane	BRL	5.0		µg/L	61057	1	8/15/2005 6:07:00 PM
Vinyl chloride	BRL	2.0		µg/L	61057	1	8/15/2005 6:07:00 PM
Surr: 4-Bromofluorobenzene	76.7	66.7-128		%REC	61057	1	8/15/2005 6:07:00 PM
Surr: Dibromofluoromethane	107	72.1-121		%REC	61057	1	8/15/2005 6:07:00 PM
Surr: Toluene-d8	93.6	75.2-121		%REC	61057	1	8/15/2005 6:07:00 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	N	Analyte not NELAC certified	P	NELAC analyte certification pending
	Rpt Limit	Reporting Limit	S	Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: 22-Aug-05

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0508748
Project: Birdsong Peanut
Lab ID: 0508748-014A

Client Sample ID: GW-081005 DJB 003
Tag Number:
Collection Date: 8/10/2005 1:30:00 PM
Matrix: GROUNDWATER

Analyses	Result	Limit	Qual	Units	BatchID	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B		(SW5030B)	Analyst: MRT		
1,1,1-Trichloroethane	BRL	5.0		µg/L	61057	1	8/15/2005 7:26:00 PM
1,1,2,2-Tetrachloroethane	BRL	5.0		µg/L	61057	1	8/15/2005 7:26:00 PM
1,1,2-Trichloroethane	BRL	5.0		µg/L	61057	1	8/15/2005 7:26:00 PM
1,1-Dichloroethane	BRL	5.0		µg/L	61057	1	8/15/2005 7:26:00 PM
1,1-Dichloroethene	BRL	5.0		µg/L	61057	1	8/15/2005 7:26:00 PM
1,2,4-Trichlorobenzene	BRL	5.0		µg/L	61057	1	8/15/2005 7:26:00 PM
1,2-Dibromo-3-chloropropane	BRL	5.0		µg/L	61057	1	8/15/2005 7:26:00 PM
1,2-Dibromoethane	BRL	5.0		µg/L	61057	1	8/15/2005 7:26:00 PM
1,2-Dichlorobenzene	BRL	5.0		µg/L	61057	1	8/15/2005 7:26:00 PM
1,2-Dichloroethane	BRL	5.0		µg/L	61057	1	8/15/2005 7:26:00 PM
1,2-Dichloropropane	BRL	5.0		µg/L	61057	1	8/15/2005 7:26:00 PM
1,3-Dichlorobenzene	BRL	5.0		µg/L	61057	1	8/15/2005 7:26:00 PM
1,4-Dichlorobenzene	BRL	5.0		µg/L	61057	1	8/15/2005 7:26:00 PM
2-Butanone	BRL	50		µg/L	61057	1	8/15/2005 7:26:00 PM
2-Hexanone	BRL	10		µg/L	61057	1	8/15/2005 7:26:00 PM
4-Methyl-2-pentanone	BRL	10		µg/L	61057	1	8/15/2005 7:26:00 PM
Acetone	BRL	50		µg/L	61057	1	8/15/2005 7:26:00 PM
Benzene	BRL	5.0		µg/L	61057	1	8/15/2005 7:26:00 PM
Bromodichloromethane	BRL	5.0		µg/L	61057	1	8/15/2005 7:26:00 PM
Bromoform	BRL	5.0		µg/L	61057	1	8/15/2005 7:26:00 PM
Bromomethane	BRL	5.0		µg/L	61057	1	8/15/2005 7:26:00 PM
Carbon disulfide	BRL	5.0		µg/L	61057	1	8/15/2005 7:26:00 PM
Carbon tetrachloride	BRL	5.0		µg/L	61057	1	8/15/2005 7:26:00 PM
Chlorobenzene	BRL	5.0		µg/L	61057	1	8/15/2005 7:26:00 PM
Chloroethane	BRL	10		µg/L	61057	1	8/15/2005 7:26:00 PM
Chloroform	BRL	5.0		µg/L	61057	1	8/15/2005 7:26:00 PM
Chloromethane	BRL	10		µg/L	61057	1	8/15/2005 7:26:00 PM
cis-1,2-Dichloroethene	BRL	5.0		µg/L	61057	1	8/15/2005 7:26:00 PM
cis-1,3-Dichloropropene	BRL	5.0		µg/L	61057	1	8/15/2005 7:26:00 PM
Cyclohexane	BRL	5.0		µg/L	61057	1	8/15/2005 7:26:00 PM
Dibromochloromethane	BRL	5.0		µg/L	61057	1	8/15/2005 7:26:00 PM
Dichlorodifluoromethane	BRL	10		µg/L	61057	1	8/15/2005 7:26:00 PM
Ethylbenzene	BRL	5.0		µg/L	61057	1	8/15/2005 7:26:00 PM
Freon-113	BRL	10		µg/L	61057	1	8/15/2005 7:26:00 PM
Isopropylbenzene	BRL	5.0		µg/L	61057	1	8/15/2005 7:26:00 PM
m,p-Xylene	BRL	10		µg/L	61057	1	8/15/2005 7:26:00 PM
Methyl acetate	BRL	5.0		µg/L	61057	1	8/15/2005 7:26:00 PM
Methyl tert-butyl ether	BRL	5.0		µg/L	61057	1	8/15/2005 7:26:00 PM
Methylcyclohexane	BRL	5.0		µg/L	61057	1	8/15/2005 7:26:00 PM
Methylene chloride	BRL	5.0		µg/L	61057	1	8/15/2005 7:26:00 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	N	Analyte not NELAC certified	P	NELAC analyte certification pending
	Rpt Limit	Reporting Limit	S	Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: 22-Aug-05

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0508748
Project: Birdsong Peanut
Lab ID: 0508748-014A

Client Sample ID: GW-081005 DJB 003
Tag Number:
Collection Date: 8/10/2005 1:30:00 PM
Matrix: GROUNDWATER

Analyses	Result	Limit	Qual	Units	BatchID	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B			(SW5030B)		Analyst: MRT
o-Xylene	BRL	5.0		µg/L	61057	1	8/15/2005 7:26:00 PM
Styrene	BRL	5.0		µg/L	61057	1	8/15/2005 7:26:00 PM
Tetrachloroethene	24	5.0		µg/L	61057	1	8/15/2005 7:26:00 PM
Toluene	5.1	5.0		µg/L	61057	1	8/15/2005 7:26:00 PM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	61057	1	8/15/2005 7:26:00 PM
trans-1,3-Dichloropropene	BRL	5.0		µg/L	61057	1	8/15/2005 7:26:00 PM
Trichloroethene	BRL	5.0		µg/L	61057	1	8/15/2005 7:26:00 PM
Trichlorofluoromethane	BRL	5.0		µg/L	61057	1	8/15/2005 7:26:00 PM
Vinyl chloride	BRL	2.0		µg/L	61057	1	8/15/2005 7:26:00 PM
Surr: 4-Bromofluorobenzene	76.9	66.7-128		%REC	61057	1	8/15/2005 7:26:00 PM
Surr: Dibromofluoromethane	108	72.1-121		%REC	61057	1	8/15/2005 7:26:00 PM
Surr: Toluene-d8	93.2	75.2-121		%REC	61057	1	8/15/2005 7:26:00 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	N	Analyte not NELAC certified	P	NELAC analyte certification pending
	Rpt Limit	Reporting Limit	S	Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: 22-Aug-05

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0508748
Project: Birdsong Peanut
Lab ID: 0508748-015A

Client Sample ID: GW-081005 DJB 004
Tag Number:
Collection Date: 8/10/2005 2:10:00 PM
Matrix: GROUNDWATER

Analyses	Result	Limit	Qual	Units	BatchID	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B		(SW5030B)		Analyst: MRT	
1,1,1-Trichloroethane	BRL	5.0		µg/L	61057	1	8/15/2005 7:00:00 PM
1,1,2,2-Tetrachloroethane	BRL	5.0		µg/L	61057	1	8/15/2005 7:00:00 PM
1,1,2-Trichloroethane	BRL	5.0		µg/L	61057	1	8/15/2005 7:00:00 PM
1,1-Dichloroethane	BRL	5.0		µg/L	61057	1	8/15/2005 7:00:00 PM
1,1-Dichloroethene	BRL	5.0		µg/L	61057	1	8/15/2005 7:00:00 PM
1,2,4-Trichlorobenzene	BRL	5.0		µg/L	61057	1	8/15/2005 7:00:00 PM
1,2-Dibromo-3-chloropropane	BRL	5.0		µg/L	61057	1	8/15/2005 7:00:00 PM
1,2-Dibromoethane	BRL	5.0		µg/L	61057	1	8/15/2005 7:00:00 PM
1,2-Dichlorobenzene	BRL	5.0		µg/L	61057	1	8/15/2005 7:00:00 PM
1,2-Dichloroethane	BRL	5.0		µg/L	61057	1	8/15/2005 7:00:00 PM
1,2-Dichloropropane	BRL	5.0		µg/L	61057	1	8/15/2005 7:00:00 PM
1,3-Dichlorobenzene	BRL	5.0		µg/L	61057	1	8/15/2005 7:00:00 PM
1,4-Dichlorobenzene	BRL	5.0		µg/L	61057	1	8/15/2005 7:00:00 PM
2-Butanone	BRL	50		µg/L	61057	1	8/15/2005 7:00:00 PM
2-Hexanone	BRL	10		µg/L	61057	1	8/15/2005 7:00:00 PM
4-Methyl-2-pentanone	BRL	10		µg/L	61057	1	8/15/2005 7:00:00 PM
Acetone	BRL	50		µg/L	61057	1	8/15/2005 7:00:00 PM
Benzene	BRL	5.0		µg/L	61057	1	8/15/2005 7:00:00 PM
Bromodichloromethane	BRL	5.0		µg/L	61057	1	8/15/2005 7:00:00 PM
Bromoform	BRL	5.0		µg/L	61057	1	8/15/2005 7:00:00 PM
Bromomethane	BRL	5.0		µg/L	61057	1	8/15/2005 7:00:00 PM
Carbon disulfide	BRL	5.0		µg/L	61057	1	8/15/2005 7:00:00 PM
Carbon tetrachloride	BRL	5.0		µg/L	61057	1	8/15/2005 7:00:00 PM
Chlorobenzene	BRL	5.0		µg/L	61057	1	8/15/2005 7:00:00 PM
Chloroethane	BRL	10		µg/L	61057	1	8/15/2005 7:00:00 PM
Chloroform	BRL	5.0		µg/L	61057	1	8/15/2005 7:00:00 PM
Chloromethane	BRL	10		µg/L	61057	1	8/15/2005 7:00:00 PM
cis-1,2-Dichloroethene	BRL	5.0		µg/L	61057	1	8/15/2005 7:00:00 PM
cis-1,3-Dichloropropene	BRL	5.0		µg/L	61057	1	8/15/2005 7:00:00 PM
Cyclohexane	BRL	5.0		µg/L	61057	1	8/15/2005 7:00:00 PM
Dibromochloromethane	BRL	5.0		µg/L	61057	1	8/15/2005 7:00:00 PM
Dichlorodifluoromethane	BRL	10		µg/L	61057	1	8/15/2005 7:00:00 PM
Ethylbenzene	BRL	5.0		µg/L	61057	1	8/15/2005 7:00:00 PM
Freon-113	BRL	10		µg/L	61057	1	8/15/2005 7:00:00 PM
Isopropylbenzene	BRL	5.0		µg/L	61057	1	8/15/2005 7:00:00 PM
m,p-Xylene	BRL	10		µg/L	61057	1	8/15/2005 7:00:00 PM
Methyl acetate	BRL	5.0		µg/L	61057	1	8/15/2005 7:00:00 PM
Methyl tert-butyl ether	5.9	5.0		µg/L	61057	1	8/15/2005 7:00:00 PM
Methylcyclohexane	BRL	5.0		µg/L	61057	1	8/15/2005 7:00:00 PM
Methylene chloride	BRL	5.0		µg/L	61057	1	8/15/2005 7:00:00 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	N	Analyte not NELAC certified	P	NELAC analyte certification pending
	Rpt Limit	Reporting Limit	S	Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: 22-Aug-05

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0508748
Project: Birdsong Peanut
Lab ID: 0508748-015A

Client Sample ID: GW-081005 DJB 004
Tag Number:
Collection Date: 8/10/2005 2:10:00 PM
Matrix: GROUNDWATER

Analyses	Result	Limit	Qual	Units	BatchID	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B			(SW5030B)		Analyst: MRT
o-Xylene	BRL	5.0		µg/L	61057	1	8/15/2005 7:00:00 PM
Styrene	BRL	5.0		µg/L	61057	1	8/15/2005 7:00:00 PM
Tetrachloroethene	BRL	5.0		µg/L	61057	1	8/15/2005 7:00:00 PM
Toluene	BRL	5.0		µg/L	61057	1	8/15/2005 7:00:00 PM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	61057	1	8/15/2005 7:00:00 PM
trans-1,3-Dichloropropene	BRL	5.0		µg/L	61057	1	8/15/2005 7:00:00 PM
Trichloroethene	BRL	5.0		µg/L	61057	1	8/15/2005 7:00:00 PM
Trichlorofluoromethane	BRL	5.0		µg/L	61057	1	8/15/2005 7:00:00 PM
Vinyl chloride	BRL	2.0		µg/L	61057	1	8/15/2005 7:00:00 PM
Surr: 4-Bromofluorobenzene	74.3	66.7-128		%REC	61057	1	8/15/2005 7:00:00 PM
Surr: Dibromofluoromethane	105	72.1-121		%REC	61057	1	8/15/2005 7:00:00 PM
Surr: Toluene-d8	91.0	75.2-121		%REC	61057	1	8/15/2005 7:00:00 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
N Analyte not NELAC certified
Rpt Limit Reporting Limit

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P NELAC analyte certification pending
S Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: 22-Aug-05

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0508748
Project: Birdsong Peanut
Lab ID: 0508748-016A

Client Sample ID: GW-081105 DJB 005
Tag Number:
Collection Date: 8/11/2005 2:50:00 PM
Matrix: GROUNDWATER

Analyses	Result	Limit	Qual	Units	BatchID	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B		(SW5030B)		Analyst: MRT	
1,1,1-Trichloroethane	BRL	5.0		µg/L	61057	1	8/15/2005 1:12:00 PM
1,1,2,2-Tetrachloroethane	BRL	5.0		µg/L	61057	1	8/15/2005 1:12:00 PM
1,1,2-Trichloroethane	BRL	5.0		µg/L	61057	1	8/15/2005 1:12:00 PM
1,1-Dichloroethane	BRL	5.0		µg/L	61057	1	8/15/2005 1:12:00 PM
1,1-Dichloroethene	BRL	5.0		µg/L	61057	1	8/15/2005 1:12:00 PM
1,2,4-Trichlorobenzene	BRL	5.0		µg/L	61057	1	8/15/2005 1:12:00 PM
1,2-Dibromo-3-chloropropane	BRL	5.0		µg/L	61057	1	8/15/2005 1:12:00 PM
1,2-Dibromoethane	BRL	5.0		µg/L	61057	1	8/15/2005 1:12:00 PM
1,2-Dichlorobenzene	BRL	5.0		µg/L	61057	1	8/15/2005 1:12:00 PM
1,2-Dichloroethane	BRL	5.0		µg/L	61057	1	8/15/2005 1:12:00 PM
1,2-Dichloropropane	BRL	5.0		µg/L	61057	1	8/15/2005 1:12:00 PM
1,3-Dichlorobenzene	BRL	5.0		µg/L	61057	1	8/15/2005 1:12:00 PM
1,4-Dichlorobenzene	BRL	5.0		µg/L	61057	1	8/15/2005 1:12:00 PM
2-Butanone	BRL	50		µg/L	61057	1	8/15/2005 1:12:00 PM
2-Hexanone	BRL	10		µg/L	61057	1	8/15/2005 1:12:00 PM
4-Methyl-2-pentanone	BRL	10		µg/L	61057	1	8/15/2005 1:12:00 PM
Acetone	BRL	50		µg/L	61057	1	8/15/2005 1:12:00 PM
Benzene	BRL	5.0		µg/L	61057	1	8/15/2005 1:12:00 PM
Bromodichloromethane	BRL	5.0		µg/L	61057	1	8/15/2005 1:12:00 PM
Bromoform	BRL	5.0		µg/L	61057	1	8/15/2005 1:12:00 PM
Bromomethane	BRL	5.0		µg/L	61057	1	8/15/2005 1:12:00 PM
Carbon disulfide	BRL	5.0		µg/L	61057	1	8/15/2005 1:12:00 PM
Carbon tetrachloride	BRL	5.0		µg/L	61057	1	8/15/2005 1:12:00 PM
Chlorobenzene	BRL	5.0		µg/L	61057	1	8/15/2005 1:12:00 PM
Chloroethane	BRL	10		µg/L	61057	1	8/15/2005 1:12:00 PM
Chloroform	BRL	5.0		µg/L	61057	1	8/15/2005 1:12:00 PM
Chloromethane	BRL	10		µg/L	61057	1	8/15/2005 1:12:00 PM
cis-1,2-Dichloroethene	BRL	5.0		µg/L	61057	1	8/15/2005 1:12:00 PM
cis-1,3-Dichloropropene	BRL	5.0		µg/L	61057	1	8/15/2005 1:12:00 PM
Cyclohexane	BRL	5.0		µg/L	61057	1	8/15/2005 1:12:00 PM
Dibromochloromethane	BRL	5.0		µg/L	61057	1	8/15/2005 1:12:00 PM
Dichlorodifluoromethane	BRL	10		µg/L	61057	1	8/15/2005 1:12:00 PM
Ethylbenzene	BRL	5.0		µg/L	61057	1	8/15/2005 1:12:00 PM
Freon-113	BRL	10		µg/L	61057	1	8/15/2005 1:12:00 PM
Isopropylbenzene	BRL	5.0		µg/L	61057	1	8/15/2005 1:12:00 PM
m,p-Xylene	BRL	10		µg/L	61057	1	8/15/2005 1:12:00 PM
Methyl acetate	BRL	5.0		µg/L	61057	1	8/15/2005 1:12:00 PM
Methyl tert-butyl ether	BRL	5.0		µg/L	61057	1	8/15/2005 1:12:00 PM
Methylcyclohexane	BRL	5.0		µg/L	61057	1	8/15/2005 1:12:00 PM
Methylene chloride	BRL	5.0		µg/L	61057	1	8/15/2005 1:12:00 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	N	Analyte not NELAC certified	P	NELAC analyte certification pending
	Rpt Limit	Reporting Limit	S	Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: 22-Aug-05

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0508748
Project: Birdsong Peanut
Lab ID: 0508748-016A

Client Sample ID: GW-081105 DJB 005
Tag Number:
Collection Date: 8/11/2005 2:50:00 PM
Matrix: GROUNDWATER

Analyses	Result	Limit	Qual	Units	BatchID	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B			(SW5030B)		Analyst: MRT
o-Xylene	BRL	5.0		µg/L	61057	1	8/15/2005 1:12:00 PM
Styrene	BRL	5.0		µg/L	61057	1	8/15/2005 1:12:00 PM
Tetrachloroethene	BRL	5.0		µg/L	61057	1	8/15/2005 1:12:00 PM
Toluene	BRL	5.0		µg/L	61057	1	8/15/2005 1:12:00 PM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	61057	1	8/15/2005 1:12:00 PM
trans-1,3-Dichloropropene	BRL	5.0		µg/L	61057	1	8/15/2005 1:12:00 PM
Trichloroethene	BRL	5.0		µg/L	61057	1	8/15/2005 1:12:00 PM
Trichlorofluoromethane	BRL	5.0		µg/L	61057	1	8/15/2005 1:12:00 PM
Vinyl chloride	BRL	2.0		µg/L	61057	1	8/15/2005 1:12:00 PM
Surr: 4-Bromofluorobenzene	77.4	66.7-128		%REC	61057	1	8/15/2005 1:12:00 PM
Surr: Dibromofluoromethane	109	72.1-121		%REC	61057	1	8/15/2005 1:12:00 PM
Surr: Toluene-d8	91.7	75.2-121		%REC	61057	1	8/15/2005 1:12:00 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
N Analyte not NELAC certified
Rpt Limit Reporting Limit

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P NELAC analyte certification pending
S Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: 22-Aug-05

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0508748
Project: Birdsong Peanut
Lab ID: 0508748-017A

Client Sample ID: GW-081205 DJB 006
Tag Number:
Collection Date: 8/12/2005 4:00:00 PM
Matrix: GROUNDWATER

Analyses	Result	Limit Qual	Units	BatchID	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B		(SW5030B)		Analyst: MRT
1,1,1-Trichloroethane	BRL	5.0	µg/L	61057	1	8/15/2005 6:34:00 PM
1,1,2,2-Tetrachloroethane	BRL	5.0	µg/L	61057	1	8/15/2005 6:34:00 PM
1,1,2-Trichloroethane	BRL	5.0	µg/L	61057	1	8/15/2005 6:34:00 PM
1,1-Dichloroethane	BRL	5.0	µg/L	61057	1	8/15/2005 6:34:00 PM
1,1-Dichloroethene	BRL	5.0	µg/L	61057	1	8/15/2005 6:34:00 PM
1,2,4-Trichlorobenzene	BRL	5.0	µg/L	61057	1	8/15/2005 6:34:00 PM
1,2-Dibromo-3-chloropropane	BRL	5.0	µg/L	61057	1	8/15/2005 6:34:00 PM
1,2-Dibromoethane	BRL	5.0	µg/L	61057	1	8/15/2005 6:34:00 PM
1,2-Dichlorobenzene	BRL	5.0	µg/L	61057	1	8/15/2005 6:34:00 PM
1,2-Dichloroethane	BRL	5.0	µg/L	61057	1	8/15/2005 6:34:00 PM
1,2-Dichloropropane	BRL	5.0	µg/L	61057	1	8/15/2005 6:34:00 PM
1,3-Dichlorobenzene	BRL	5.0	µg/L	61057	1	8/15/2005 6:34:00 PM
1,4-Dichlorobenzene	BRL	5.0	µg/L	61057	1	8/15/2005 6:34:00 PM
2-Butanone	BRL	50	µg/L	61057	1	8/15/2005 6:34:00 PM
2-Hexanone	BRL	10	µg/L	61057	1	8/15/2005 6:34:00 PM
4-Methyl-2-pentanone	BRL	10	µg/L	61057	1	8/15/2005 6:34:00 PM
Acetone	BRL	50	µg/L	61057	1	8/15/2005 6:34:00 PM
Benzene	BRL	5.0	µg/L	61057	1	8/15/2005 6:34:00 PM
Bromodichloromethane	BRL	5.0	µg/L	61057	1	8/15/2005 6:34:00 PM
Bromoform	BRL	5.0	µg/L	61057	1	8/15/2005 6:34:00 PM
Bromomethane	BRL	5.0	µg/L	61057	1	8/15/2005 6:34:00 PM
Carbon disulfide	BRL	5.0	µg/L	61057	1	8/15/2005 6:34:00 PM
Carbon tetrachloride	BRL	5.0	µg/L	61057	1	8/15/2005 6:34:00 PM
Chlorobenzene	BRL	5.0	µg/L	61057	1	8/15/2005 6:34:00 PM
Chloroethane	BRL	10	µg/L	61057	1	8/15/2005 6:34:00 PM
Chloroform	BRL	5.0	µg/L	61057	1	8/15/2005 6:34:00 PM
Chloromethane	BRL	10	µg/L	61057	1	8/15/2005 6:34:00 PM
cis-1,2-Dichloroethene	BRL	5.0	µg/L	61057	1	8/15/2005 6:34:00 PM
cis-1,3-Dichloropropene	BRL	5.0	µg/L	61057	1	8/15/2005 6:34:00 PM
Cyclohexane	BRL	5.0	µg/L	61057	1	8/15/2005 6:34:00 PM
Dibromochloromethane	BRL	5.0	µg/L	61057	1	8/15/2005 6:34:00 PM
Dichlorodifluoromethane	BRL	10	µg/L	61057	1	8/15/2005 6:34:00 PM
Ethylbenzene	BRL	5.0	µg/L	61057	1	8/15/2005 6:34:00 PM
Freon-113	BRL	10	µg/L	61057	1	8/15/2005 6:34:00 PM
Isopropylbenzene	BRL	5.0	µg/L	61057	1	8/15/2005 6:34:00 PM
m,p-Xylene	BRL	10	µg/L	61057	1	8/15/2005 6:34:00 PM
Methyl acetate	BRL	5.0	µg/L	61057	1	8/15/2005 6:34:00 PM
Methyl tert-butyl ether	BRL	5.0	µg/L	61057	1	8/15/2005 6:34:00 PM
Methylcyclohexane	BRL	5.0	µg/L	61057	1	8/15/2005 6:34:00 PM
Methylene chloride	BRL	5.0	µg/L	61057	1	8/15/2005 6:34:00 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	N	Analyte not NELAC certified	P	NELAC analyte certification pending
	Rpt Limit	Reporting Limit	S	Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: 22-Aug-05

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0508748
Project: Birdsong Peanut
Lab ID: 0508748-017A

Client Sample ID: GW-081205 DJB 006
Tag Number:
Collection Date: 8/12/2005 4:00:00 PM
Matrix: GROUNDWATER

Analyses	Result	Limit	Qual	Units	BatchID	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B			(SW5030B)		Analyst: MRT
o-Xylene	BRL	5.0		µg/L	61057	1	8/15/2005 6:34:00 PM
Styrene	BRL	5.0		µg/L	61057	1	8/15/2005 6:34:00 PM
Tetrachloroethene	BRL	5.0		µg/L	61057	1	8/15/2005 6:34:00 PM
Toluene	BRL	5.0		µg/L	61057	1	8/15/2005 6:34:00 PM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	61057	1	8/15/2005 6:34:00 PM
trans-1,3-Dichloropropene	BRL	5.0		µg/L	61057	1	8/15/2005 6:34:00 PM
Trichloroethene	BRL	5.0		µg/L	61057	1	8/15/2005 6:34:00 PM
Trichlorofluoromethane	BRL	5.0		µg/L	61057	1	8/15/2005 6:34:00 PM
Vinyl chloride	BRL	2.0		µg/L	61057	1	8/15/2005 6:34:00 PM
Surr: 4-Bromofluorobenzene	76.9	66.7-128		%REC	61057	1	8/15/2005 6:34:00 PM
Surr: Dibromofluoromethane	109	72.1-121		%REC	61057	1	8/15/2005 6:34:00 PM
Surr: Toluene-d8	93.5	75.2-121		%REC	61057	1	8/15/2005 6:34:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level
BRL	Below Reporting Limit
H	Holding times for preparation or analysis exceeded
N	Analyte not NELAC certified
Rpt Limit	Reporting Limit

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	NELAC analyte certification pending
S	Spike Recovery outside accepted recovery limits

CLIENT: Conestoga, Rovers, & Associates, Inc.

Work Order: 0508748

Project: Birdsong Peanut

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_TCL4.2_S

Sample ID: MB-61135	SampType: MBLK	TestCode: 8260_TCL4.2	Units: µg/Kg	Prep Date: 8/16/2005	RunNo: 70278						
Client ID:	Batch ID: 61135	TestNo: SW8260B		Analysis Date: 8/16/2005	SeqNo: 1385259						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	100									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	10									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

BRL Below Reporting Limit
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

E Value above quantitation range
N Analyte not NELAC certified

CLIENT: Conestoga, Rovers, & Associates, Inc.
Work Order: 0508748
Project: Birdsong Peanut

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_TCL4.2_S

Sample ID: MB-61135	SampType: MBLK	TestCode: 8260_TCL4.2	Units: µg/Kg	Prep Date: 8/16/2005	RunNo: 70278						
Client ID:	Batch ID: 61135	TestNo: SW8260B		Analysis Date: 8/16/2005	SeqNo: 1385259						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	10									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	10									
Surr: 4-Bromofluorobenzene	51.46	0	50	0	103	66.9	120	0	0		
Surr: Dibromofluoromethane	61.09	0	50	0	122	70.4	133	0	0		
Surr: Toluene-d8	59.08	0	50	0	118	71.5	140	0	0		

Sample ID: MB-61182	SampType: MBLK	TestCode: 8260_TCL4.2	Units: µg/Kg	Prep Date: 8/17/2005	RunNo: 70353						
Client ID:	Batch ID: 61182	TestNo: SW8260B		Analysis Date: 8/17/2005	SeqNo: 1386944						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Conestoga, Rovers, & Associates, Inc.
Work Order: 0508748
Project: Birdsong Peanut

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_TCL4.2_S

Sample ID: MB-61182	SampType: MBLK	TestCode: 8260_TCL4.2	Units: µg/Kg	Prep Date: 8/17/2005	RunNo: 70353						
Client ID:	Batch ID: 61182	TestNo: SW8260B		Analysis Date: 8/17/2005	SeqNo: 1386944						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	100									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	10									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Conestoga, Rovers, & Associates, Inc.
Work Order: 0508748
Project: Birdsong Peanut

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_TCL4.2_S

Sample ID: MB-61182	SampType: MBLK	TestCode: 8260_TCL4.2	Units: µg/Kg	Prep Date: 8/17/2005	RunNo: 70353						
Client ID:	Batch ID: 61182	TestNo: SW8260B		Analysis Date: 8/17/2005	SeqNo: 1386944						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	10									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	10									
Surr: 4-Bromofluorobenzene	52.93	0	50	0	106	66.9	120	0	0		
Surr: Dibromofluoromethane	62.76	0	50	0	126	70.4	133	0	0		
Surr: Toluene-d8	59.84	0	50	0	120	71.5	140	0	0		

Sample ID: MB-61182	SampType: MBLK	TestCode: 8260_TCL4.2	Units: µg/Kg	Prep Date: 8/17/2005	RunNo: 70392						
Client ID:	Batch ID: 61182	TestNo: SW8260B		Analysis Date: 8/18/2005	SeqNo: 1387506						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Conestoga, Rovers, & Associates, Inc.
Work Order: 0508748
Project: Birdsong Peanut

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_TCL4.2_S

Sample ID: MB-61182	SampType: MBLK	TestCode: 8260_TCL4.2	Units: µg/Kg	Prep Date: 8/17/2005	RunNo: 70392						
Client ID:	Batch ID: 61182	TestNo: SW8260B		Analysis Date: 8/18/2005	SeqNo: 1387506						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	100									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	10									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	10									
Methyl acetate	BRL	5.0									

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Conestoga, Rovers, & Associates, Inc.
Work Order: 0508748
Project: Birdsong Peanut

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_TCL4.2_S

Sample ID: MB-61182	SampType: MBLK	TestCode: 8260_TCL4.2	Units: µg/Kg	Prep Date: 8/17/2005	RunNo: 70392						
Client ID:	Batch ID: 61182	TestNo: SW8260B		Analysis Date: 8/18/2005	SeqNo: 1387506						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	10									
Surr: 4-Bromofluorobenzene	53.23	0	50	0	106	66.9	120	0	0		
Surr: Dibromofluoromethane	62.22	0	50	0	124	70.4	133	0	0		
Surr: Toluene-d8	60.3	0	50	0	121	71.5	140	0	0		

Sample ID: LCS-61135	SampType: LCS	TestCode: 8260_TCL4.2	Units: µg/Kg	Prep Date: 8/16/2005	RunNo: 70278						
Client ID:	Batch ID: 61135	TestNo: SW8260B		Analysis Date: 8/16/2005	SeqNo: 1385260						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	52.94	5.0	50	0	106	71.1	162	0	0		
Benzene	43.8	5.0	50	0	87.6	72.6	131	0	0		
Chlorobenzene	45.27	5.0	50	0	90.5	67	131	0	0		
Toluene	48.51	5.0	50	0	97	63.2	138	0	0		
Trichloroethene	52.22	5.0	50	0	104	69	138	0	0		
Surr: 4-Bromofluorobenzene	52.05	0	50	0	104	66.9	120	0	0		
Surr: Dibromofluoromethane	59.55	0	50	0	119	70.4	133	0	0		
Surr: Toluene-d8	58.1	0	50	0	116	71.5	140	0	0		

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Conestoga, Rovers, & Associates, Inc.
 Work Order: 0508748
 Project: Birdsong Peanut

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_TCL4.2_S

Sample ID: LCS-61182	SampType: LCS	TestCode: 8260_TCL4.2	Units: µg/Kg	Prep Date: 8/17/2005	RunNo: 70353						
Client ID:	Batch ID: 61182	TestNo: SW8260B		Analysis Date: 8/17/2005	SeqNo: 1386948						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	55.95	5.0	50	0	112	71.1	162	0	0		
Benzene	44.79	5.0	50	0	89.6	72.6	131	0	0		
Chlorobenzene	45.75	5.0	50	0	91.5	67	131	0	0		
Toluene	48.93	5.0	50	0	97.9	63.2	138	0	0		
Trichloroethene	51.52	5.0	50	0	103	69	138	0	0		
Surr: 4-Bromofluorobenzene	51.83	0	50	0	104	66.9	120	0	0		
Surr: Dibromofluoromethane	60.96	0	50	0	122	70.4	133	0	0		
Surr: Toluene-d8	57.13	0	50	0	114	71.5	140	0	0		

Sample ID: 0508746-008AMS	SampType: MS	TestCode: 8260_TCL4.2	Units: µg/Kg	Prep Date: 8/16/2005	RunNo: 70278						
Client ID:	Batch ID: 61135	TestNo: SW8260B		Analysis Date: 8/16/2005	SeqNo: 1385271						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	50.78	5.0	50	0	102	57.4	164	0	0		
Benzene	43.07	5.0	50	0	86.1	61.3	133	0	0		
Chlorobenzene	43.96	5.0	50	0	87.9	53.2	136	0	0		
Toluene	46.79	5.0	50	0	93.6	45.3	144	0	0		
Trichloroethene	51.01	5.0	50	0	102	56.3	140	0	0		
Surr: 4-Bromofluorobenzene	54.76	0	50	0	110	66.9	120	0	0		
Surr: Dibromofluoromethane	60.62	0	50	0	121	70.4	133	0	0		
Surr: Toluene-d8	58.01	0	50	0	116	71.5	140	0	0		

Sample ID: 0508748-010AMS	SampType: MS	TestCode: 8260_TCL4.2	Units: µg/Kg	Prep Date: 8/17/2005	RunNo: 70353						
Client ID: S-081005 DJB- 010	Batch ID: 61182	TestNo: SW8260B		Analysis Date: 8/17/2005	SeqNo: 1386968						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	52.15	5.0	50	0	104	57.4	164	0	0		
Benzene	41.87	5.0	50	0	83.7	61.3	133	0	0		
Chlorobenzene	41.97	5.0	50	0	83.9	53.2	136	0	0		
Toluene	45.53	5.0	50	0	91.1	45.3	144	0	0		

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Conestoga, Rovers, & Associates, Inc.
Work Order: 0508748
Project: Birdsong Peanut

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_TCL4.2_S

Sample ID: 0508748-010AMS	SampType: MS	TestCode: 8260_TCL4.2	Units: µg/Kg	Prep Date: 8/17/2005	RunNo: 70353						
Client ID: S-081005 DJB- 010	Batch ID: 61182	TestNo: SW8260B		Analysis Date: 8/17/2005	SeqNo: 1386968						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichloroethene	48.1	5.0	50	0	96.2	56.3	140	0	0		
Surr: 4-Bromofluorobenzene	53.59	0	50	0	107	66.9	120	0	0		
Surr: Dibromofluoromethane	60.06	0	50	0	120	70.4	133	0	0		
Surr: Toluene-d8	59.98	0	50	0	120	71.5	140	0	0		

Sample ID: 0508746-008AMSD	SampType: MSD	TestCode: 8260_TCL4.2	Units: µg/Kg	Prep Date: 8/16/2005	RunNo: 70278						
Client ID:	Batch ID: 61135	TestNo: SW8260B		Analysis Date: 8/16/2005	SeqNo: 1385273						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	48.68	5.0	50	0	97.4	57.4	164	50.78	4.22	25	
Benzene	39.95	5.0	50	0	79.9	61.3	133	43.07	7.52	21.6	
Chlorobenzene	40.61	5.0	50	0	81.2	53.2	136	43.96	7.92	20.8	
Toluene	43.53	5.0	50	0	87.1	45.3	144	46.79	7.22	22.9	
Trichloroethene	46.49	5.0	50	0	93	56.3	140	51.01	9.27	23.6	
Surr: 4-Bromofluorobenzene	53.84	0	50	0	108	66.9	120	54.76	0	0	
Surr: Dibromofluoromethane	62.23	0	50	0	124	70.4	133	60.62	0	0	
Surr: Toluene-d8	58.53	0	50	0	117	71.5	140	58.01	0	0	

Sample ID: 0508748-010AMSD	SampType: MSD	TestCode: 8260_TCL4.2	Units: µg/Kg	Prep Date: 8/17/2005	RunNo: 70353						
Client ID: S-081005 DJB- 010	Batch ID: 61182	TestNo: SW8260B		Analysis Date: 8/17/2005	SeqNo: 1386969						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	56.69	5.0	50	0	113	57.4	164	52.15	8.34	25	
Benzene	45.77	5.0	50	0	91.5	61.3	133	41.87	8.90	21.6	
Chlorobenzene	44.29	5.0	50	0	88.6	53.2	136	41.97	5.38	20.8	
Toluene	49.8	5.0	50	0	99.6	45.3	144	45.53	8.96	22.9	
Trichloroethene	51.84	5.0	50	0	104	56.3	140	48.1	7.48	23.6	
Surr: 4-Bromofluorobenzene	51.2	0	50	0	102	66.9	120	53.59	0	0	
Surr: Dibromofluoromethane	62.48	0	50	0	125	70.4	133	60.06	0	0	
Surr: Toluene-d8	60.43	0	50	0	121	71.5	140	59.98	0	0	

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Conestoga, Rovers, & Associates, Inc.
Work Order: 0508748
Project: Birdsong Peanut

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_TCL4.2_W

Sample ID: MB-61057	SampType: MBLK	TestCode: 8260_TCL4.2	Units: µg/L	Prep Date: 8/15/2005	RunNo: 70181						
Client ID:	Batch ID: 61057	TestNo: SW8260B		Analysis Date: 8/15/2005	SeqNo: 1383590						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Conestoga, Rovers, & Associates, Inc.
Work Order: 0508748
Project: Birdsong Peanut

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_TCL4.2_W

Sample ID: MB-61057	SampType: MBLK	TestCode: 8260_TCL4.2	Units: µg/L	Prep Date: 8/15/2005	RunNo: 70181						
Client ID:	Batch ID: 61057	TestNo: SW8260B		Analysis Date: 8/15/2005	SeqNo: 1383590						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	10									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	38.48	0	50	0	77	66.7	128	0	0		
Surr: Dibromofluoromethane	52.28	0	50	0	105	72.1	121	0	0		
Surr: Toluene-d8	44.86	0	50	0	89.7	75.2	121	0	0		

Sample ID: LCS-61057	SampType: LCS	TestCode: 8260_TCL4.2	Units: µg/L	Prep Date: 8/15/2005	RunNo: 70181						
Client ID:	Batch ID: 61057	TestNo: SW8260B		Analysis Date: 8/15/2005	SeqNo: 1383656						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	60.83	5.0	50	0	122	63	157	0	0		
Benzene	48.9	5.0	50	0	97.8	74.9	126	0	0		
Chlorobenzene	47.18	5.0	50	0	94.4	81.5	123	0	0		
Toluene	47.81	5.0	50	0	95.6	81.3	125	0	0		

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Conestoga, Rovers, & Associates, Inc.
 Work Order: 0508748
 Project: Birdsong Peanut

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_TCL4.2_W

Sample ID: LCS-61057	SampType: LCS	TestCode: 8260_TCL4.2	Units: µg/L	Prep Date: 8/15/2005	RunNo: 70181						
Client ID:	Batch ID: 61057	TestNo: SW8260B		Analysis Date: 8/15/2005	SeqNo: 1383656						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichloroethene	45.08	5.0	50	0	90.2	70.4	134	0	0		
Surr: 4-Bromofluorobenzene	37.87	0	50	0	75.7	66.7	128	0	0		
Surr: Dibromofluoromethane	50.13	0	50	0	100	72.1	121	0	0		
Surr: Toluene-d8	44.39	0	50	0	88.8	75.2	121	0	0		

Sample ID: 0508748-012AMS	SampType: MS	TestCode: 8260_TCL4.2	Units: µg/L	Prep Date: 8/15/2005	RunNo: 70181						
Client ID: GW-081005 DJB 001	Batch ID: 61057	TestNo: SW8260B		Analysis Date: 8/15/2005	SeqNo: 1383602						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	66.06	5.0	50	0	132	60.9	157	0	0		
Benzene	53.72	5.0	50	0	107	69.7	128	0	0		
Chlorobenzene	52.1	5.0	50	0	104	80.7	123	0	0		
Toluene	53.57	5.0	50	1.96	103	76.2	128	0	0		
Trichloroethene	49.49	5.0	50	0	99	70.6	133	0	0		
Surr: 4-Bromofluorobenzene	38.94	0	50	0	77.9	66.7	128	0	0		
Surr: Dibromofluoromethane	51.78	0	50	0	104	72.1	121	0	0		
Surr: Toluene-d8	44.97	0	50	0	89.9	75.2	121	0	0		

Sample ID: 0508748-012AMSD	SampType: MSD	TestCode: 8260_TCL4.2	Units: µg/L	Prep Date: 8/15/2005	RunNo: 70181						
Client ID: GW-081005 DJB 001	Batch ID: 61057	TestNo: SW8260B		Analysis Date: 8/15/2005	SeqNo: 1383603						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	60.84	5.0	50	0	122	60.9	157	66.06	8.23	15.8	
Benzene	51.56	5.0	50	0	103	69.7	128	53.72	4.10	10	
Chlorobenzene	49.73	5.0	50	0	99.5	80.7	123	52.1	4.65	10	
Toluene	50.18	5.0	50	1.96	96.4	76.2	128	53.57	6.53	10	
Trichloroethene	46.09	5.0	50	0	92.2	70.6	133	49.49	7.11	11	
Surr: 4-Bromofluorobenzene	37.83	0	50	0	75.7	66.7	128	38.94	0	0	
Surr: Dibromofluoromethane	50.24	0	50	0	100	72.1	121	51.78	0	0	
Surr: Toluene-d8	45.07	0	50	0	90.1	75.2	121	44.97	0	0	

Qualifiers: B Analyte detected in the associated Method Blank BRL Below Reporting Limit E Value above quantitation range
 H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits N Analyte not NELAC certified
 R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits



AES

June 22, 2005

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

RECEIVED

JUN 27 2005

CRA - ATLANTA

18283-01
719L

Thomas Lawrence
Conestoga, Rovers, & Associates, Inc.
1412 Oakbrook Dr
Suite 180
Norcross, GA 30093

TEL: (770) 441-0027

FAX (770) 441-2050

RE: Birdsong Peanut

Order No.: 0506778

Dear Thomas Lawrence:

Analytical Environmental Services, Inc. received 6 samples on 6/16/2005 11:30:00 AM for the analyses presented in the following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative. AES' certifications are as follows:

-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water, effective 06/01/04-06/30/05.

-AIHA Certification number 505 for analysis of Industrial Hygiene samples (Organics, Inorganics), Paint Chips, Soil and Dust Wipes, effective until 02/01/07.

These results relate only to the items tested. This report may only be reproduced in full and contains 13 total pages (including cover letter).

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Sherri Hernandez

Project Manager

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client CRA

Work Order Number 0506778

Checklist completed by Brent Ammons 6/16/05
Signature Date

Carrier name: FedEx ☐ UPS ☐ Courier ☐ Client ☒ US Mail ☐ Other ☐

Shipping container/cooler in good condition? Yes ☒ No ☐ Not Present ☐

Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☒

Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒

Container/Temp Blank temperature in compliance? ($4^{\circ}\text{C} \pm 2$)* Yes ☒ No ☐

Cooler #1 2.2°C Cooler #2 ☐ Cooler #3 ☐ Cooler #4 ☐ Cooler #5 ☐ Cooler #6 ☐

Chain of custody present? Yes ☒ No ☐

Chain of custody signed when relinquished and received? Yes ☒ No ☐

Chain of custody agrees with sample labels? Yes ☒ No ☐

Samples in proper container/bottle? Yes ☒ No ☐

Sample containers intact? Yes ☒ No ☐

Sufficient sample volume for indicated test? Yes ☒ No ☐

All samples received within holding time? Yes ☒ No ☐

Was TAT marked on the COC? Yes ☒ No ☐

Proceed with Standard TAT as per project history? Yes ☐ No ☐ Not Applicable ☒

Water - VOA vials have zero headspace? No VOA vials submitted ☐ Yes ☒ No ☐

Water - pH acceptable upon receipt? Yes ☒ No ☐ Not Applicable ☐

Adjusted? ☐ Checked by ☐

Sample Condition: Good ☒ Other(Explain) ☐

(For diffusive samples or AIHA lead) Is a known blank included? Yes ☐ No ☒

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Analytical Environmental Services, Inc.

Date: 22-Jun-05

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0506778
Project: Birdsong Peanut
Lab ID: 0506778-001A

Client Sample ID: GW-061505 SAG-001
Tag Number:
Collection Date: 6/15/2005 3:20:00 PM
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	BatchID	DF	Date Analyzed
TCL VOLATILE ORGANICS							
		SW8260B					Analyst: AD
cis-1,2-Dichloroethene	BRL	5.0		µg/L	59029	1	6/21/2005 7:36:00 PM
Tetrachloroethene	13	5.0		µg/L	59029	1	6/21/2005 7:36:00 PM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	59029	1	6/21/2005 7:36:00 PM
Trichloroethene	BRL	5.0		µg/L	59029	1	6/21/2005 7:36:00 PM
Vinyl chloride	BRL	2.0		µg/L	59029	1	6/21/2005 7:36:00 PM
Surr: 4-Bromofluorobenzene	70.3	66.7-128		%REC	59029	1	6/21/2005 7:36:00 PM
Surr: Dibromofluoromethane	92.4	72.1-121		%REC	59029	1	6/21/2005 7:36:00 PM
Surr: Toluene-d8	94.6	75.2-121		%REC	59029	1	6/21/2005 7:36:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level
BRL	Below Reporting Limit
H	Holding times for preparation or analysis exceeded
N	Analyte not NELAC certified
Rpt Limit	Reporting Limit

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	NELAC analyte certification pending
S	Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: 22-Jun-05

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0506778
Project: Birdsong Peanut
Lab ID: 0506778-002A

Client Sample ID: GW-061505 SAG-002
Tag Number:
Collection Date: 6/15/2005 3:30:00 PM
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	BatchID	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B		(SW5030B)		Analyst: AD	
cis-1,2-Dichloroethene	BRL	5.0		µg/L	59029	1	6/21/2005 8:03:00 PM
Tetrachloroethene	180	50		µg/L	59029	10	6/22/2005 12:07:00 PM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	59029	1	6/21/2005 8:03:00 PM
Trichloroethene	BRL	5.0		µg/L	59029	1	6/21/2005 8:03:00 PM
Vinyl chloride	BRL	2.0		µg/L	59029	1	6/21/2005 8:03:00 PM
Surr: 4-Bromofluorobenzene	82.0	66.7-128		%REC	59029	10	6/22/2005 12:07:00 PM
Surr: 4-Bromofluorobenzene	69.2	66.7-128		%REC	59029	1	6/21/2005 8:03:00 PM
Surr: Dibromofluoromethane	97.8	72.1-121		%REC	59029	10	6/22/2005 12:07:00 PM
Surr: Dibromofluoromethane	91.3	72.1-121		%REC	59029	1	6/21/2005 8:03:00 PM
Surr: Toluene-d8	90.2	75.2-121		%REC	59029	10	6/22/2005 12:07:00 PM
Surr: Toluene-d8	95.3	75.2-121		%REC	59029	1	6/21/2005 8:03:00 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
 BRL Below Reporting Limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 Rpt Limit Reporting Limit

B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P NELAC analyte certification pending
 S Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: 22-Jun-05

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0506778
Project: Birdsong Peanut
Lab ID: 0506778-003A

Client Sample ID: GW-061505 SAG-003
Tag Number:
Collection Date: 6/15/2005 3:40:00 PM
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	BatchID	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B			(SW5030B)		Analyst: AD
cis-1,2-Dichloroethene	BRL	5.0		µg/L	59029	1	6/21/2005 5:47:00 PM
Tetrachloroethene	BRL	5.0		µg/L	59029	1	6/21/2005 5:47:00 PM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	59029	1	6/21/2005 5:47:00 PM
Trichloroethene	BRL	5.0		µg/L	59029	1	6/21/2005 5:47:00 PM
Vinyl chloride	BRL	2.0		µg/L	59029	1	6/21/2005 5:47:00 PM
Surr: 4-Bromofluorobenzene	75.1	66.7-128		%REC	59029	1	6/21/2005 5:47:00 PM
Surr: Dibromofluoromethane	92.5	72.1-121		%REC	59029	1	6/21/2005 5:47:00 PM
Surr: Toluene-d8	80.9	75.2-121		%REC	59029	1	6/21/2005 5:47:00 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
N Analyte not NELAC certified
Rpt Limit Reporting Limit

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P NELAC analyte certification pending
S Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: 22-Jun-05

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0506778
Project: Birdsong Peanut
Lab ID: 0506778-004A

Client Sample ID: GW-061505 SAG-004
Tag Number:
Collection Date: 6/15/2005 5:10:00 PM
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	BatchID	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B			(SW5030B)		Analyst: AD
cis-1,2-Dichloroethene	BRL	5.0		µg/L	59029	1	6/21/2005 6:14:00 PM
Tetrachloroethene	BRL	5.0		µg/L	59029	1	6/21/2005 6:14:00 PM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	59029	1	6/21/2005 6:14:00 PM
Trichloroethene	BRL	5.0		µg/L	59029	1	6/21/2005 6:14:00 PM
Vinyl chloride	BRL	2.0		µg/L	59029	1	6/21/2005 6:14:00 PM
Surr: 4-Bromofluorobenzene	72.1	66.7-128		%REC	59029	1	6/21/2005 6:14:00 PM
Surr: Dibromofluoromethane	90.7	72.1-121		%REC	59029	1	6/21/2005 6:14:00 PM
Surr: Toluene-d8	92.3	75.2-121		%REC	59029	1	6/21/2005 6:14:00 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	N	Analyte not NELAC certified	P	NELAC analyte certification pending
	Rpt Limit	Reporting Limit	S	Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: 22-Jun-05

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0506778
Project: Birdsong Peanut
Lab ID: 0506778-005A

Client Sample ID: GW-061505 SAG-005
Tag Number:
Collection Date: 6/15/2005 5:00:00 PM
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	BatchID	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B			(SW5030B)		Analyst: AD
cis-1,2-Dichloroethene	BRL	5.0		µg/L	59083	1	6/21/2005 7:08:00 PM
Tetrachloroethene	53	5.0		µg/L	59083	1	6/21/2005 7:08:00 PM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	59083	1	6/21/2005 7:08:00 PM
Trichloroethene	BRL	5.0		µg/L	59083	1	6/21/2005 7:08:00 PM
Vinyl chloride	BRL	2.0		µg/L	59083	1	6/21/2005 7:08:00 PM
Surr: 4-Bromofluorobenzene	68.9	66.7-128		%REC	59083	1	6/21/2005 7:08:00 PM
Surr: Dibromofluoromethane	89.5	72.1-121		%REC	59083	1	6/21/2005 7:08:00 PM
Surr: Toluene-d8	95.9	75.2-121		%REC	59083	1	6/21/2005 7:08:00 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
N Analyte not NELAC certified
Rpt Limit Reporting Limit

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P NELAC analyte certification pending
S Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: 22-Jun-05

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0506778
Project: Birdsong Peanut
Lab ID: 0506778-006A

Client Sample ID: GW-061505 SAG-006
Tag Number:
Collection Date: 6/15/2005 6:15:00 PM
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	BatchID	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B			(SW5030B)		Analyst: AD
cis-1,2-Dichloroethene	BRL	5.0		µg/L	59083	1	6/21/2005 6:41:00 PM
Tetrachloroethene	BRL	5.0		µg/L	59083	1	6/21/2005 6:41:00 PM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	59083	1	6/21/2005 6:41:00 PM
Trichloroethene	BRL	5.0		µg/L	59083	1	6/21/2005 6:41:00 PM
Vinyl chloride	BRL	2.0		µg/L	59083	1	6/21/2005 6:41:00 PM
Surr: 4-Bromofluorobenzene	70.4	66.7-128		%REC	59083	1	6/21/2005 6:41:00 PM
Surr: Dibromofluoromethane	91.5	72.1-121		%REC	59083	1	6/21/2005 6:41:00 PM
Surr: Toluene-d8	92.1	75.2-121		%REC	59083	1	6/21/2005 6:41:00 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- BRL Below Reporting Limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- Rpt Limit Reporting Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P NELAC analyte certification pending
- S Spike Recovery outside accepted recovery limits

CLIENT: Conestoga, Rovers, & Associates, Inc.

Work Order: 0506778

Project: Birdsong Peanut

ANALYTICAL QC SUMMARY REPORT

BatchID: 59029

Sample ID MB-59029	SampType: MBLK	TestCode: 8260_TCL4.2	Units: µg/L	Prep Date: 6/20/2005	RunNo: 67359						
Client ID:	Batch ID: 59029	TestNo: SW8260B		Analysis Date: 6/20/2005	SeqNo: 1325195						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
cis-1,2-Dichloroethene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
Trichloroethene	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	38.93	0	50	0	77.9	66.7	128	0	0		
Surr: Dibromofluoromethane	51.85	0	50	0	104	72.1	121	0	0		
Surr: Toluene-d8	47.44	0	50	0	94.9	75.2	121	0	0		

Sample ID MB-59029	SampType: MBLK	TestCode: 8260_TCL4.2	Units: µg/L	Prep Date: 6/20/2005	RunNo: 67475						
Client ID:	Batch ID: 59029	TestNo: SW8260B		Analysis Date: 6/22/2005	SeqNo: 1328216						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
cis-1,2-Dichloroethene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
Trichloroethene	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	41.65	0	50	0	83.3	66.7	128	0	0		
Surr: Dibromofluoromethane	45.11	0	50	0	90.2	72.1	121	0	0		
Surr: Toluene-d8	44.19	0	50	0	88.4	75.2	121	0	0		

Sample ID	LCS-59029	SampType: LCS	TestCode: 8260_TCL4.2	Units: µg/L	Prep Date: 6/20/2005	RunNo: 67359					
Client ID:		Batch ID: 59029	TestNo: SW8260B		Analysis Date: 6/20/2005	SeqNo: 1325196					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichloroethene	52.83	5.0	50	0	106	70.4	134	0	0		
Surr: 4-Bromofluorobenzene	39.36	0	50	0	78.7	66.7	128	0	0		
Surr: Dibromofluoromethane	49.6	0	50	0	99.2	72.1	121	0	0		

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

BRL Below Reporting Limit
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

E Value above quantitation range
N Analyte not NELAC certified

CLIENT: Conestoga, Rovers, & Associates, Inc.
Work Order: 0506778
Project: Birdsong Peanut

ANALYTICAL QC SUMMARY REPORT

BatchID: 59029

Sample ID	LCS-59029	SampType:	LCS	TestCode:	8260_TCL4.2	Units:	µg/L	Prep Date:	6/20/2005	RunNo:	67359			
Client ID:		Batch ID:	59029	TestNo:	SW8260B			Analysis Date:	6/20/2005	SeqNo:	1325196			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr:	Toluene-d8	46.45		0	50	0		92.9	75.2	121	0	0		

Sample ID	0506774-001AMS	SampType: MS	TestCode: 8260_TCL4.2	Units: µg/L	Prep Date: 6/20/2005	RunNo: 67359					
Client ID:		Batch ID: 59029	TestNo: SW8260B		Analysis Date: 6/20/2005	SeqNo: 1326152					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichloroethene	51.69	5.0	50	0	103	70.6	133	0	0		
Surr: 4-Bromofluorobenzene	38.22	0	50	0	76.4	66.7	128	0	0		
Surr: Dibromofluoromethane	48.81	0	50	0	97.6	72.1	121	0	0		
Surr: Toluene-d8	46.7	0	50	0	93.4	75.2	121	0	0		

Sample ID	0506774-001AMSD	SampType: MSD	TestCode: 8260_TCL4.2	Units: µg/L	Prep Date: 6/20/2005	RunNo: 67359					
Client ID:		Batch ID: 59029	TestNo: SW8260B		Analysis Date: 6/20/2005	SeqNo: 1326155					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichloroethene	52.27	5.0	50	0	105	70.6	133	51.69	1.12	11	
Surr: 4-Bromofluorobenzene	38.54	0	50	0	77.1	66.7	128	38.22	0	0	
Surr: Dibromofluoromethane	48.58	0	50	0	97.2	72.1	121	48.81	0	0	
Surr: Toluene-d8	47.22	0	50	0	94.4	75.2	121	46.7	0	0	

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

BRL Below Reporting Limit
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

E Value above quantitation range
N Analyte not NELAC certified

CLIENT: Conestoga, Rovers, & Associates, Inc.
Work Order: 0506778
Project: Birdsong Peanut

ANALYTICAL QC SUMMARY REPORT

BatchID: 59083

Sample ID MB-59083		SampType: MBLK	TestCode: 8260_TCL4.2 Units: µg/L			Prep Date: 6/21/2005			RunNo: 67462		
Client ID:		Batch ID: 59083	TestNo: SW8260B			Analysis Date: 6/21/2005			SeqNo: 1327771		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
cis-1,2-Dichloroethene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
Trichloroethene	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	37.97	0	50	0	75.9	66.7	128	0	0		
Surr: Dibromofluoromethane	48.94	0	50	0	97.9	72.1	121	0	0		
Surr: Toluene-d8	47.24	0	50	0	94.5	75.2	121	0	0		

Sample ID LCS-59083		SampType: LCS	TestCode: 8260_TCL4.2 Units: µg/L			Prep Date: 6/21/2005			RunNo: 67462		
Client ID:		Batch ID: 59083	TestNo: SW8260B			Analysis Date: 6/21/2005			SeqNo: 1327772		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichloroethene	53.83	5.0	50	0	108	70.4	134	0	0		
Surr: 4-Bromofluorobenzene	39.03	0	50	0	78.1	66.7	128	0	0		
Surr: Dibromofluoromethane	47.69	0	50	0	95.4	72.1	121	0	0		
Surr: Toluene-d8	46.54	0	50	0	93.1	75.2	121	0	0		

Sample ID 0506840-004AMS		SampType: MS	TestCode: 8260_TCL4.2 Units: µg/L			Prep Date: 6/21/2005			RunNo: 67462		
Client ID:		Batch ID: 59083	TestNo: SW8260B			Analysis Date: 6/21/2005			SeqNo: 1327795		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichloroethene	52.69	5.0	50	0	105	70.6	133	0	0		
Surr: 4-Bromofluorobenzene	39.72	0	50	0	79.4	66.7	128	0	0		
Surr: Dibromofluoromethane	45.9	0	50	0	91.8	72.1	121	0	0		
Surr: Toluene-d8	46.19	0	50	0	92.4	75.2	121	0	0		

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Conestoga, Rovers, & Associates, Inc.
Work Order: 0506778
Project: Birdsong Peanut

ANALYTICAL QC SUMMARY REPORT

BatchID: 59083

Sample ID	0506840-004AMSD	SampType: MSD	TestCode: 8260_TCL4.2	Units: µg/L	Prep Date: 6/21/2005	RunNo: 67462					
Client ID:		Batch ID: 59083	TestNo: SW8260B		Analysis Date: 6/21/2005	SeqNo: 1327796					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichloroethene	51.33	5.0	50	0	103	70.6	133	52.69	2.61	11	
Surr: 4-Bromofluorobenzene	38.8	0	50	0	77.6	66.7	128	39.72	0	0	
Surr: Dibromofluoromethane	44.93	0	50	0	89.9	72.1	121	45.9	0	0	
Surr: Toluene-d8	46.01	0	50	0	92	75.2	121	46.19	0	0	

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

BRL Below Reporting Limit
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

E Value above quantitation range
N Analyte not NELAC certified

APPENDIX D

HYDRAULIC GRADIENT CALCULATIONS

This spreadsheet is the one used in the paper, "A Spreadsheet Method For Estimating Hydraulic Gradient With Heads From Multiple Wells" submitted to Ground Water, March, 2002. To use the program, enter the coordinates for the well locations in the columns labeled x and y (part of the [X] matrix), and the water levels in the z column. The matrices are automatically updated and the gradient magnitude and direction are calculated in cell H32 and H33.

[illegible][illegible]

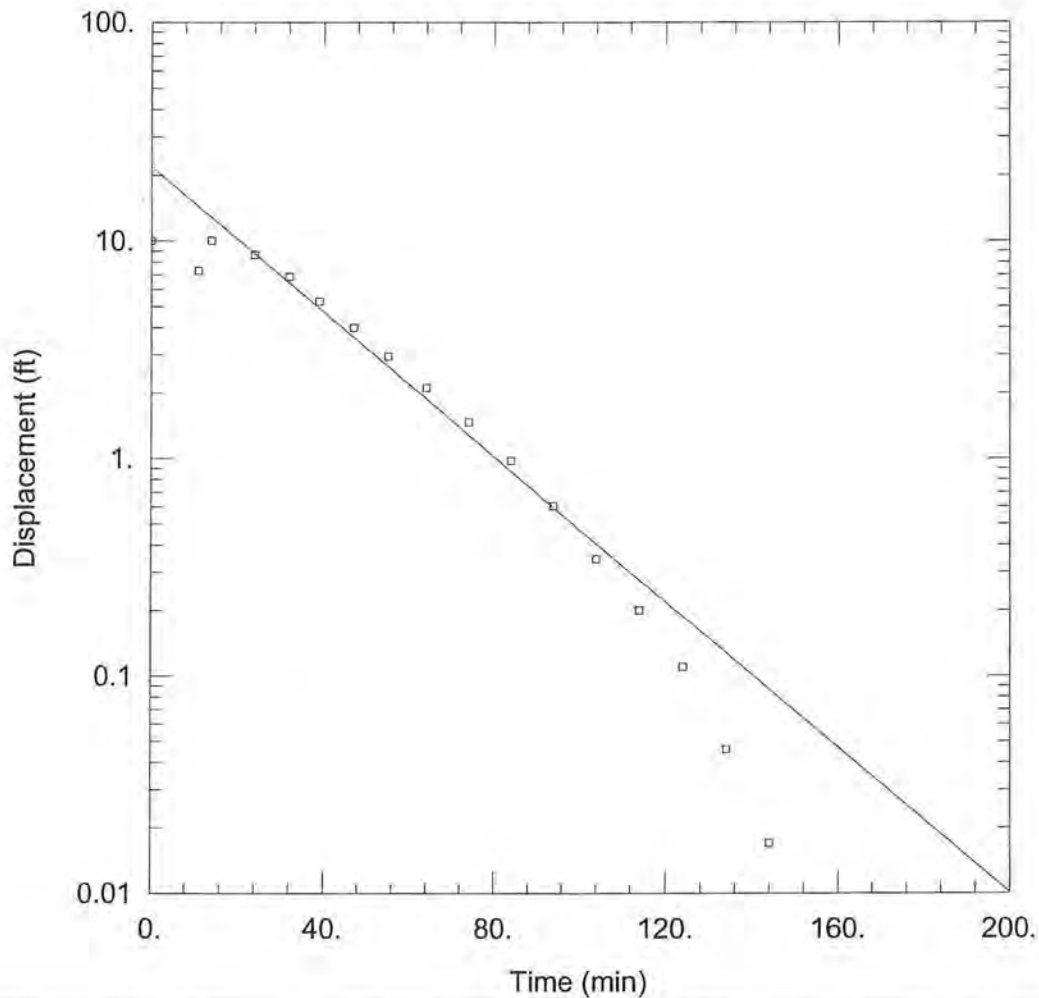
This spreadsheet is the one used in the paper, "A Spreadsheet Method For Estimating Hydraulic Gradient With Heads From Multiple Wells" submitted to Ground Water, March, 2002. To use the program, enter the coordinates for the well locations in the columns labeled x and y (part of the [X] matrix), and the water levels in the z column. The matrices are automatically updated and the gradient magnitude and direction are calculated in cell H32 and H33.

[illegible][illegible]

Visual assessment of Direction	
x	y
0	0
10	0

APPENDIX E

WELL TEST ANALYSES



WELL TEST ANALYSIS

Data Set:

Date: 11/12/03

Time: 14:17:57

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: FFM/Birdsong

Project: 18283-01

Location: Colquitt, Georgia

Test Well: MW-8

AQUIFER DATA

Saturated Thickness: 20. ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-8)

Initial Displacement: 10. ft

Static Water Column Height: 20. ft

Total Well Penetration Depth: 20. ft

Screen Length: 5. ft

Casing Radius: 0.083 ft

Wellbore Radius: 0.25 ft

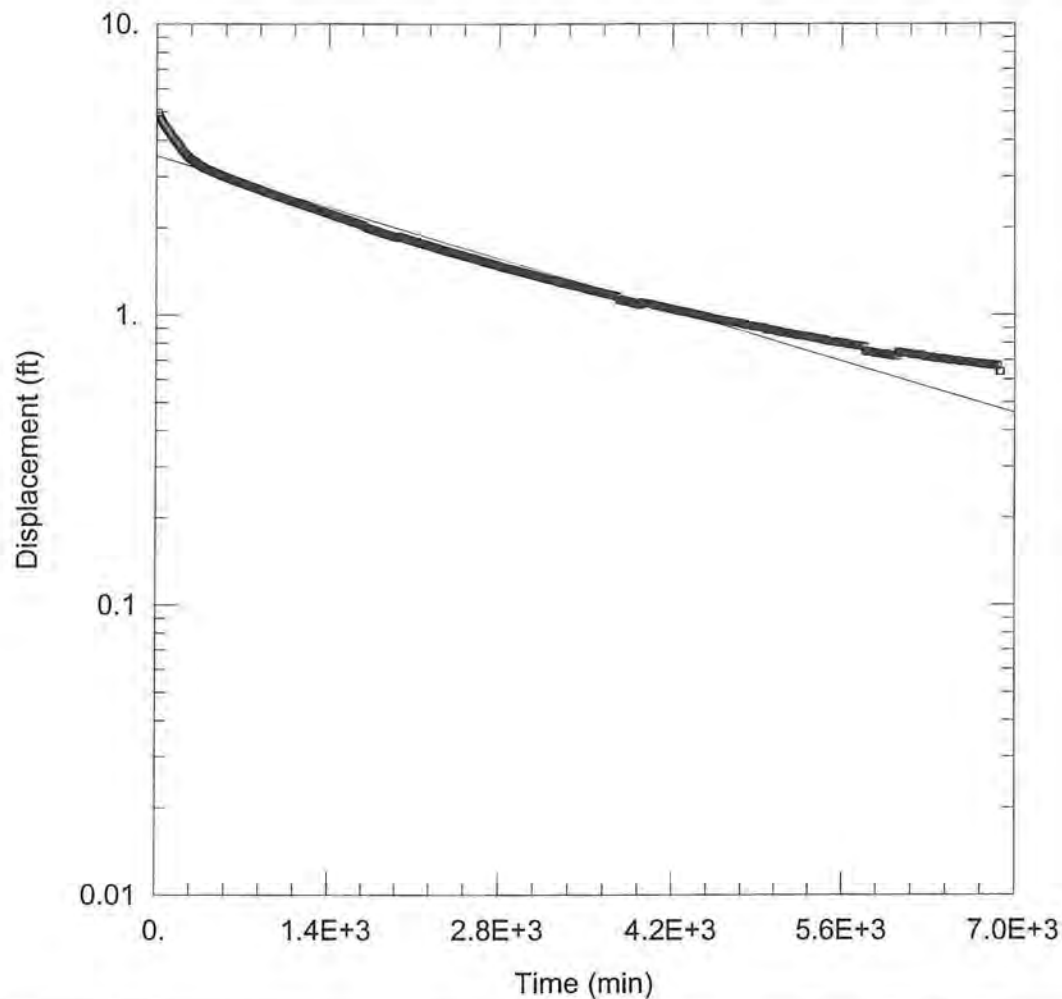
SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 4.027E-5 cm/sec

y0 = 22.06 ft



WELL TEST ANALYSIS

Data Set:

Date: 11/12/03

Time: 14:31:11

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Birdsong/FFM

Project: 18283-01

Location: Colquitt, Georgia

Test Well: MW-9

AQUIFER DATA

Saturated Thickness: 20. ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-9)

Initial Displacement: 12. ft

Static Water Column Height: 20. ft

Total Well Penetration Depth: 20. ft

Screen Length: 5. ft

Casing Radius: 0.083 ft

Wellbore Radius: 0.25 ft

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 3.052E-7 cm/sec

y0 = 3.542 ft

APPENDIX O

2007 CRA PRELIMINARY STATUS REPORT OF FULL SCALE INJECTION PROGRAM



**CONESTOGA-ROVERS
& ASSOCIATES**

*File
EDF Man*
1412 Oakbrook Drive, Suite #180, Norcross, GA 30093
Telephone: 770-441-0027 Facsimile: 770-441-2050
www.CRAworld.com

February 21, 2007

Reference No. 18283-02

Les Oakes, Esq.
King & Spalding
1180 Peachtree Street, NE
Atlanta, Georgia 30309-3521

Dear Mr. Oakes:

Re: Preliminary Status Report of Full Scale Injection Program
Birdsong Peanut (former Farmer's Feed and Milling Company), HSI 10710
Colquitt, Georgia

Conestoga-Rovers & Associates (CRA) prepared this status report to provide preliminary results of the full-scale injection work that was conducted from November 8 through November 19, 2006 at the above referenced Site. The injection work included 60 injection points in the area identified and in accordance with the August 2006 Corrective Action Plan for the Site. At your request, a supplemental groundwater-sampling event was completed in December 2006. A select group of monitoring wells was sampled for chlorinated volatile organic compounds (select VOCs) to determine the initial effectiveness of the November injection work.

The groundwater-sampling event indicates that one monitoring well remained marginally above the target risk reduction standard of 5 µg/L for tetrachloroethene (PCE) (MW-6 with 10 µg/L PCE). PCE was not detected in any of the remaining groundwater samples that were collected in December 2006, and no other and PCE degradation products were detected. However, a marginally detectable and suspect concentration of methylene chloride (5.6 µg/L) was reported for the groundwater sample collected from monitoring well MW-10. The detection of methylene chloride appears to be an isolated anomaly or a laboratory artifact.

SITE STATUS

In November 2006, 60 boreholes were advanced and injected with a potassium permanganate solution at maximum depths ranging from 40 to 50 feet below grade. The injection points were located in a grid pattern covering a 220 X 60-foot area (i.e.: treatment area) that encapsulated the PCE groundwater plume. The treatment area was injected with 19,000 gallons of the 4.5 percent potassium permanganate solution. A summary of the treatment application for each location is provided in Table 1, which includes the volume of the solution at the various depths injected for each location. Figure 1 illustrates the approximate location of each injection point in relation to the Site.

On December 19 and 20, 2006, the preliminary groundwater sampling event was performed to determine the immediate impact of the full-scale injection work. A total of 10 monitoring wells were sampled to monitor the area within and adjacent to the treatment area. The results of this

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sampling event, along with the previous analytical results, are provided in Table 2. Figure 2 illustrates the location of the monitoring wells sampled in December. These initial results are favorable, with only one detection of PCE above the applicable Type 1/3 risk reduction standard (RRS) of 5 µg/L. The December 2006 results indicate that PCE was not detected in groundwater samples collected from monitoring wells where PCE had been previously detected during the previous sampling (MW-10, MW-11, MW-13 and MW-16). The single detection of PCE was from groundwater collected from monitoring well MW-6 at a concentration of 10 µg/L; the previous sampling event detected PCE at 53 µg/L for MW-6.

As previously reported, potassium permanganate has a distinct purple color when present in groundwater. Field notes indicate that the presence of potassium permanganate in monitoring wells located within the treatment area in December 2006 was present in all monitoring wells with the exception of MW-6, MW-13 and MW-16. Of the well locations with no purple color, MW-6 is the only location where PCE was detected in December 2006. Conclusions based on the observation of a purple color are limited, other than it does not appear that active oxidation occurred at the time of sampling.

PROJECT SCHEDULE

Given the 1-month interval between injection and confirmation sampling, the slightly inconsistent colorimetric results and early analytical results should not be used as conclusive data. Sampling to be conducted in March 2007 will better characterize the true nature of residual groundwater contamination at the Site. Further work may be limited to monitoring only, if no rebound in contaminant concentrations is observed.

Table 5 of the Corrective Action Plan (CAP) provides the detailed schedule for continued monitoring and reporting. It is proposed that quarterly confirmation sampling begins in March 2007 and continues for the first year, followed by semi-annual monitoring as described below. The results will be compared to the supplemental December 2006 analytical data for further determination as to the effectiveness of the full-scale injection work that was completed in November 2006. Reporting requirements in the CAP require that EPD receive a detailed status report within 45 days of a scheduled monitoring event. Further assessment as to the effectiveness of the CAP will be addressed in the status reports prepared for EPD.

In accordance with the CAP, after "clean" has been established as demonstrated by two successive semi-annual performance monitoring events, two subsequent semiannual sampling events for confirmation that the Site remains in compliance with RRS will be required (or four successive semi-annual sampling events are required to demonstrate completion). Following two years of RRS compliance, a final CSR documenting that the Site is in compliance with RRS will be submitted and the monitoring wells will be properly closed.



**CONESTOGA-ROVERS
& ASSOCIATES**

February 21, 2007

3

Reference No. 18283-02

Please contact us if you have any questions at (770) 441-0027.

Yours truly,

CONESTOGA-ROVERS & ASSOCIATES

Mike Reinhardt

MR/20

cc: Donna Balon, Man Group USA, Inc.
Robert Norman, Jones Cork & Miller

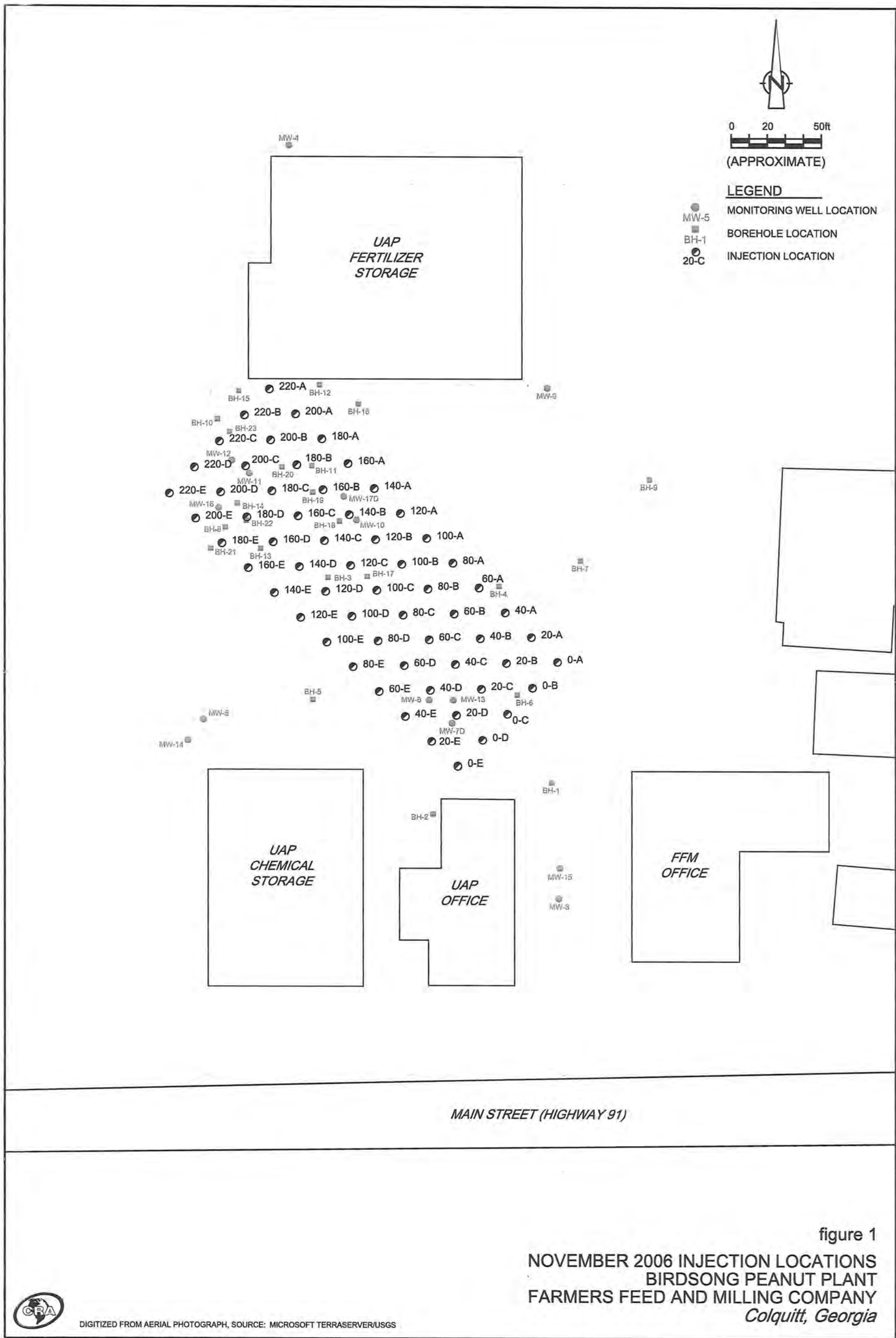


figure 1
 NOVEMBER 2006 INJECTION LOCATIONS
 BIRDSONG PEANUT PLANT
 FARMERS FEED AND MILLING COMPANY
 Colquitt, Georgia



DIGITIZED FROM AERIAL PHOTOGRAPH, SOURCE: MICROSOFT TERRASERVER/USGS

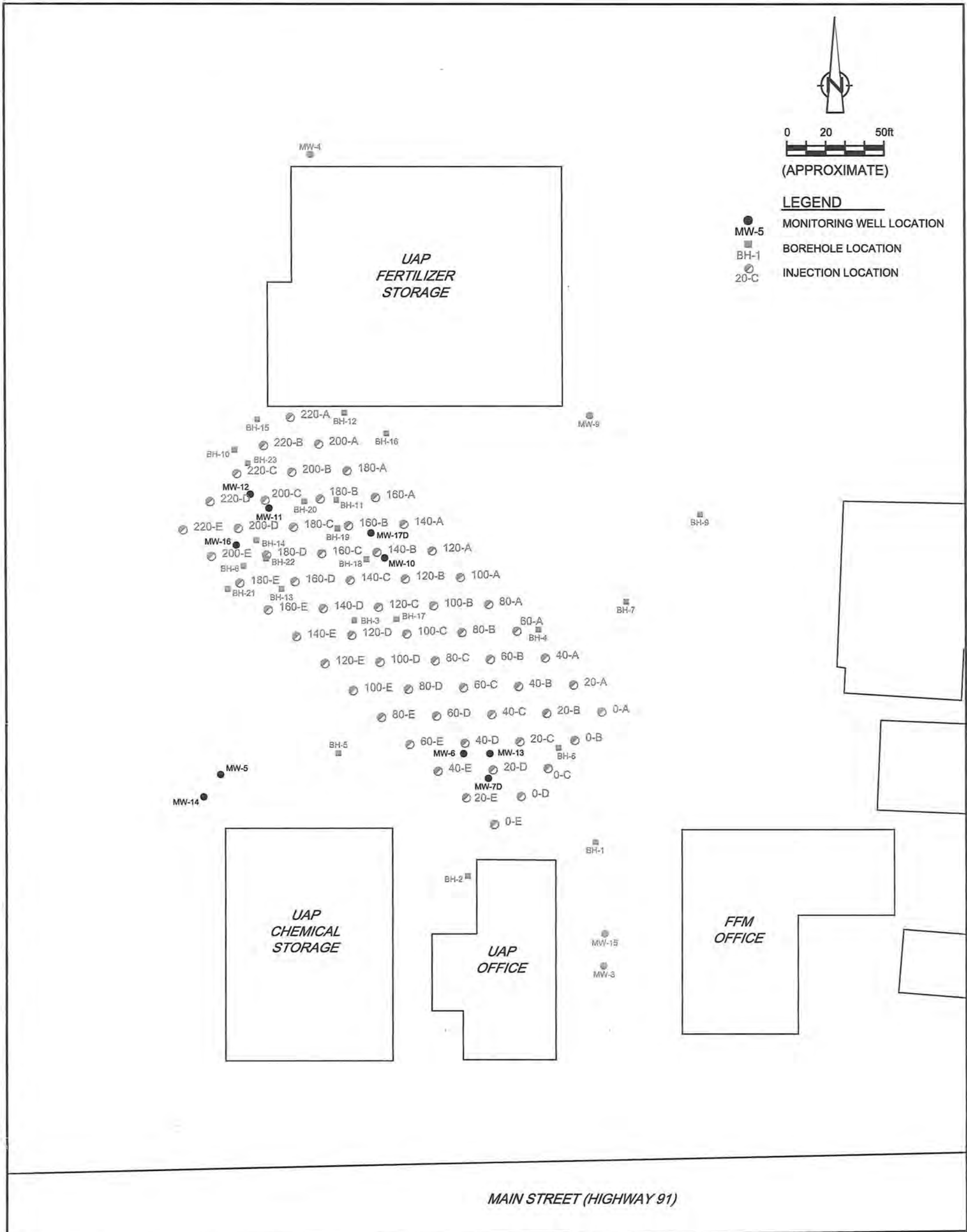


figure 2

DECEMBER 2006 GROUNDWATER SAMPLE LOCATIONS
 BIRDSONG PEANUT PLANT
 FARMERS FEED AND MILLING COMPANY
 Colquitt, Georgia



DIGITIZED FROM AERIAL PHOTOGRAPH, SOURCE: MICROSOFT TERRASERVER/USGS

TABLE 1
SUMMARY OF FULL SCALE INJECTION
FARMER'S FEED AND MILLING, COLQUITT, GEORGIA

Injection Point	Date	Start Time	End Time	Depth Interval (ft.)	Pressure (psi)	Amount Injected (gal.)	Concentration (buckets permanganate - gallons H ₂ O)	Comments
20-C	11/8/2006	13:30	14:00	50	120	37.5	3.75 - 412.5	
				46	120	37.5		
				42	120	37.5		
				38	120	37.5		
				34	120	37.5		
				30	100	37.5		
		14:20	14:57	26	100	37.5		
				22	100	37.5		
				18	100	37.5		
				14	100	37.5		
				10	100	37.5		
				50	120	37.5		
0-C	11/9/2006	15:10	15:25	46	120	37.5	3.75 - 412.5	
				42	120	37.5		
				38	120	37.5		
				34	120	37.5		
				30	100	37.5		
				26	100	37.5		
		15:49	16:30	22	100	37.5		
				18	100	37.5		
				14	100	37.5		
				10	100	37.5		
				50	120	37.5		
				46	120	37.5		
20-D	11/9/2006	12:47	13:15	42	120	37.5	3.75 - 412.5	
				38	120	37.5		
				34	120	37.5		
				30	100	37.5		
				26	100	37.5		
				22	100	37.5		
		13:30	14:15	18	100	37.5		
				14	60	37.5		
				10	60	37.5		
				50	120	37.5		
				46	120	37.5		
				42	120	37.5		
40-D	11/9/2006	7:50	8:16	38	120	37.5	3.75 - 412.5	
				34	100	37.5		
				30	100	37.5		
				26	80	37.5		
				22	60	37.5		
				18	40	37.5		
		8:38	9:33	14	20	37.5		
				10	20	37.5		
				50	120	37.5		
				46	120	37.5		
				42	120	37.5		
				38	120	37.5		
0-B	11/10/2006	8:32	9:00	34	100	37.5	3.75 - 412.5	
				30	80	37.5		
				26	80	37.5		
				22	80	37.5		
				18	80	37.5		
				14	60	37.5		
		9:08	9:37	10	60/40	37.5		
				50	120	37.5		
				46	120	37.5		
				42	120	37.5		
				38	120	37.5		
				34	100	37.5		
20-E	11/10/2006	17:02	17:20	30	120	37.5	2.75 - 300	
				26	120	37.5		
				22	120	37.5		
				18	120	37.5		
		17:33	18:00	14	120	37.5		
				10	120	37.5		
				50	120	37.5		
				46	120	37.5		
40-E	11/10/2006	14:42	14:59	42	120	37.5	2.75 - 300	
				38	120	37.5		
				34	80	37.5		
				30	80	37.5		
		15:16	15:49	26	80	37.5		
				22	80	37.5		
				50	120	37.5		
				46	120	37.5		

TABLE 1
SUMMARY OF FULL SCALE INJECTION
FARMER'S FEED AND MILLING, COLQUITT, GEORGIA

Injection Point	Date	Start Time	End Time	Depth Interval (ft.)	Pressure (psi)	Amount Injected (gal.)	Concentration (buckets permanganate - gallons H ₂ O)	Comments
20-B	11/10/2006	11:20	11:42	50	80	37.5	2.75 - 300	
				46	80	37.5		
				42	80	37.5		
				38	80	37.5		
		11:56	12:20	34	120/100	37.5		
				30	80	37.5		
				26	80	37.5		
				22	60	37.5		
160-A	11/11/2006	16:20	16:34	50	120	37.5	2.75 - 300	
				46	120	37.5		
				42	120	37.5		
				38	120	37.5		
		16:42	16:58	34	100	37.5		
				30	100	37.5		
				26	100	37.5		
				22	80	37.5		
140-E	11/11/2006	14:20	14:34	50	120	37.5	2.75 - 300	
				46	120	37.5		
				42	120	37.5		
				38	120	37.5		
		14:50	15:11	34	100	37.5		
				30	100	37.5		
				26	80	37.5		
				22	60	37.5		
120-C	11/11/2006	9:04	9:23	50	120	37.5	2.75 - 300	
				46	120	37.5		
				42	120	37.5		
				38	120	37.5		
		9:40	10:10	34	80	37.5		
				30	80	37.5		
				26	60	37.5		
				22	60	37.5		
100-E	11/12/2006	9:39	9:54	50	120	37.5	2.75 - 300	
				46	120	37.5		
				42	120	37.5		
				38	120	37.5		
		10:10	10:40	34	120	37.5		
				30	120	37.5		
				26	80	37.5		
				22	80	37.5		
120-A	11/12/2006	14:27	14:41	50	120	37.5	2.75 - 300	
				46	120	37.5		
				42	120	37.5		
				38	120	37.5		
		14:51	15:05	34	120	37.5		
				30	120	37.5		
				26	100	37.5		
				22	80	37.5		
100-C	11/12/2006	15:46	16:00	50	120	37.5	2.75 - 300	
				46	120	37.5		
				42	120	37.5		
				38	120	37.5		
		16:00	16:30	34	120	37.5		
				30	120	37.5		
				26	80	37.5		
				22	60	37.5		
100-C	11/12/2006	15:46	16:00	50	120	37.5	2.75 - 300	
				46	120	37.5		
				42	120	37.5		
				38	120	37.5		
		16:00	16:30	34	120	37.5		
				30	120	37.5		
				26	80	37.5		
				22	60	37.5		
140-C	11/13/2006	16:23	17:00	40	120	37.5	2.75 - 300	
				36	120	37.5		
				32	120	37.5		
				28	120	37.5		
				24	120	37.5		
				20	120	37.5		
				16	120	37.5		
				12	120	37.5		

TABLE 1
SUMMARY OF FULL SCALE INJECTION
FARMER'S FEED AND MILLING, COLQUITT, GEORGIA

Injection Point	Date	Start Time	End Time	Depth Interval (ft.)	Pressure (psi)	Amount Injected (gal.)	Concentration (buckets permanganate - gallons H ₂ O)	Comments
180-E	11/13/2006	15:09	15:45	50	120	37.5	2.75 - 300	
				46	120	37.5		
				42	120	37.5		
				38	120	37.5		
				34	120	37.5		
				30	120	37.5		
				26	120	37.5		
				22	120	37.5		
160-E	11/13/2006	13:38	14:20	50	120	37.5	2.75 - 300	
				46	120	37.5		
				42	120	37.5		
				38	120	37.5		
				34	120	37.5		
				30	120	37.5		
				26	120	37.5		
				22	120	37.5		
120-D	11/13/2006	10:02	10:40	50	120	37.5	2.75 - 300	
				46	120	37.5		
				42	120	37.5		
				38	120	37.5		
				34	120	37.5		
				30	120	37.5		
				26	120	37.5		
				22	50	37.5		
160-D	11/13/2006	11:11	11:46	50	120	37.5	2.75 - 300	
				46	120	37.5		
				42	120	37.5		
				38	120	37.5		
				34	120	37.5		
				30	120	37.5		
				26	120	37.5		
				22	100	37.5		
140-D	11/13/2006	8:58	9:31	50	120	37.5	2.75 - 300	
				46	120	37.5		
				42	120	37.5		
				38	120	37.5		
				34	120	37.5		
				30	120	37.5		
				26	120	37.5		
				22	120	37.5		
160-C	11/14/2006	10:43	11:30	40	120	37.5	2.75 - 300	
				36	120	37.5		
				32	120	37.5		
				28	120	37.5		
				24	120	37.5		
				20	120	37.5		
				16	50	37.5		
				12	50	37.5		
220-E	11/14/2006	16:25	17:01	50	120	37.5	2.75 - 300	
				46	120	37.5		
				42	120	37.5		
				38	120	37.5		
				34	120	37.5		
				30	120	37.5		
				26	120	37.5		
				22	120	37.5		
200-E	11/14/2006	17:31	18:15	50	120	37.5	2.75 - 300	
				46	120	37.5		
				42	120	37.5		
				38	120	37.5		
				34	120	37.5		
				30	120	37.5		
				26	120	37.5		
				22	120	37.5		
220-D	11/14/2006	14:40	14:59	40	120	37.5	2.75 - 300	
				36	120	37.5		
				32	120	37.5		
				28	120	37.5		
				24	120	37.5		
				20	120	37.5		
				16	120	37.5		
				12	120	37.5		

TABLE 1
SUMMARY OF FULL SCALE INJECTION
FARMER'S FEED AND MILLING, COLQUITT, GEORGIA

Injection Point	Date	Start Time	End Time	Depth Interval (ft.)	Pressure (psi)	Amount Injected (gal.)	Concentration (buckets permanganate - gallons H ₂ O)	Comments
220-C	11/14/2006	15:24	16:10	40	120	37.5	2.75 - 300	
				36	120	37.5		
				32	120	37.5		
				28	120	37.5		
				24	120	37.5		
				20	120	37.5		
				16	120	37.5		
				12	50	37.5		
180-D	11/14/2006	8:10	9:05	40	120	37.5	2.75 - 300	
				36	120	37.5		
				32	120	37.5		
				28	120	37.5		
				24	120	37.5		
				20	120	37.5		
				16	120	37.5		
				12	60	37.5		
200-D	11/14/2006	9:35	-	40	120	37.5	2.75 - 300	
				36	120	37.5		
				32	120	37.5		
				28	120	37.5		
				24	120	37.5		
				20	120	37.5		
				16	30	37.5		
				12	30	37.5		No end time recorded. Notes indicate date of 10-18-06 by the 12' interval.
140-A	11/15/2006	11:15	11:50	50	120	37.5	2.75 - 300	
				46	120	37.5		
				42	120	37.5		
				38	120	37.5		
				34	120	37.5		
				30	120	37.5		
				26	120	37.5		
				22	60	37.5		
140-B	11/15/2006	13:47	14:47	40	120	37.5	2.75 - 300	
				36	120	37.5		
				32	120	37.5		
				28	120	37.5		
				24	120	37.5		
				20	120	37.5		
				16	120	37.5		
				12	60	37.5		
200-A	11/15/2006	9:57	10:50	50	120	37.5	2.75 - 300	
				46	120	37.5		
				42	120	37.5		
				38	120	37.5		
				34	120	37.5		
				30	120	37.5		
				26	120	37.5		
				22	120	37.5		
180-A	11/15/2006	8:53	9:35	50	120	37.5	2.75 - 300	
				46	120	37.5		
				42	120	37.5		
				38	120	37.5		
				34	120	37.5		
				30	120	37.5		
				26	100	37.5		
				22	50	37.5		
80-B	11/16/2006	9:27	10:00	50	120	37.5	2.75 - 300	
				46	120	37.5		
				42	120	37.5		
				38	120	37.5		
				34	120	37.5		
				30	120	37.5		
				26	120	37.5		
				22	120	37.5		
40-C	11/16/2006	13:48	14:22	50	120	37.5	2.75 - 300	
				46	120	37.5		
				42	120	37.5		
				38	120	37.5		
				34	120	37.5		
				30	120	37.5		
				26	120	37.5		
				22	60	37.5		

TABLE 1
SUMMARY OF FULL SCALE INJECTION
FARMER'S FEED AND MILLING, COLQUITT, GEORGIA

Injection Point	Date	Start Time	End Time	Depth Interval (ft.)	Pressure (psi)	Amount Injected (gal.)	Concentration (buckets permanganate - gallons H ₂ O)	Comments
100-B	11/16/2006	8:20	8:50	50	120	37.5	2.75 - 300	
				46	120	37.5		
				42	120	37.5		
				38	120	37.5		
				34	120	37.5		
				30	120	37.5		
				26	80	37.5		
				22	80	37.5		
60-B	11/16/2006	10:55	11:27	18	120	125	2.75 - 300	
				14	120	125		
				10	80	50		
80-A	11/16/2006	17:15	17:50	50	120	37.5	2.75 - 300	
				46	120	37.5		
				42	120	37.5		
				38	120	37.5		
				34	120	37.5		
				30	120	37.5		
				26	120	37.5		
				22	60	37.5		
100-A	11/16/2006	15:55	16:15	50	120	37.5	2.75 - 300	
				46	120	37.5		
				42	120	37.5		
				38	120	37.5		
				34	120	37.5		
				30	120	37.5		
				26	120	37.5		
				22	60	37.5		
40-B	11/16/2006	16:46	15:05	18	120	125	2.75 - 300	
				14	120	125		
				10	100	50		
80-C	11/17/2006	9:27	10:29	50	120	37.5	2.75 - 300	
				46	120	37.5		
				42	120	37.5		
				38	120	37.5		
				34	120	37.5		
				30	120	37.5		
				26	120	37.5		
				22	100	37.5		Cleaned out 2nd tank that was being used.
60-C	11/17/2006	8:01	8:30	50	120	37.5	2.75 - 300	
				46	120	37.5		
				42	120	37.5		
				38	120	37.5		
				34	120	37.5		
				30	120	37.5		
				26	120	37.5		
				22	80	37.5		
60-A	11/17/2006	11:01	11:30	50	120	37.5	2.75 - 300	
				46	120	37.5		
				42	120	37.5		
				38	120	37.5		
				34	120	37.5		
				30	120	37.5		
				26	120	37.5		
				22	80	37.5		
120-B	11/17/2006	15:38	16:13	50	120	37.5	2.75 - 300	
				46	120	37.5		
				42	120	37.5		
				38	120	37.5		
				34	120	37.5		
				30	120	37.5		
				26	120	37.5		
				22	60	37.5		
40-A	11/17/2006	13:10	13:40	18	120	125	2.75 - 300	
				14	120	125		
				10	80	50		
100-D	11/17/2006	14:34	14:58	50	120	37.5	2.75 - 300	
				46	120	37.5		
				42	120	37.5		
				38	120	37.5		
				34	120	37.5		
				30	120	37.5		
				26	120	37.5		
				22	120	37.5		

TABLE 1
SUMMARY OF FULL SCALE INJECTION
FARMER'S FEED AND MILLING, COLQUITT, GEORGIA

Injection Point	Date	Start Time	End Time	Depth Interval (ft.)	Pressure (psi)	Amount Injected (gal.)	Concentration (buckets permanganate - gallons H ₂ O)	Comments
180-C	11/17/2006	16:40	17:10	40	120	37.5	2.75 - 300	
				36	120	37.5		
				32	120	37.5		
				28	120	37.5		
				24	120	37.5		
				20	120	37.5		
				16	120	37.5		
				12	80	37.5		
220-B	11/18/2006	8:48	9:15	50	120	37.5	2.75 - 300	
				46	120	37.5		
				42	120	37.5		
				38	120	37.5		
				34	120	37.5		
				30	120	37.5		
				26	120	37.5		
				22	80	37.5		
220-A	11/18/2006	9:47	10:16	33	120	100	2.75 - 300	
				28	120	100		
				23	120/60	100		
200-C	11/18/2006	10:52	11:36	40	120	37.5	2.75 - 300	
				36	120	37.5		
				32	120	37.5		
				28	120	37.5		
				24	120	37.5		
				20	120	37.5		
				16	120	37.5		
				12	80	37.5		
160-B	11/18/2006	13:07	13:45	40	120	37.5	2.75 - 300	
				36	120	37.5		
				32	120	37.5		
				28	120	37.5		
				24	120	37.5		
				20	120	37.5		
				16	120	37.5		
				12	80	37.5		
180-B	11/18/2006	7:42	8:19	40	120	37.5	2.75 - 300	
				36	120	37.5		
				32	120	37.5		
				28	120	37.5		
				24	120	37.5		
				20	120	37.5		
				16	120	37.5		
				12	80	37.5		
60-E	11/18/2006	16:59	17:34	50	120	37.5	2.75 - 300	
				46	120	37.5		
				42	120	37.5		
				38	120	37.5		
				34	120	37.5		
				30	120	37.5		
				26	120	37.5		
				22	60	37.5		
80-E	11/18/2006	15:59	16:33	50	120	37.5	2.75 - 300	
				46	120	37.5		
				42	120	37.5		
				38	120	37.5		
				34	120	37.5		
				30	120	37.5		
				26	120	37.5		
				22	60	37.5		
200-B	11/18/2006	14:42	15:19	50	120	37.5	2.75 - 300	
				46	120	37.5		
				42	120	37.5		
				38	120	37.5		
				34	120	37.5		
				30	120	37.5		
				26	120	37.5		
				22	60	37.5		
80-D	11/19/2006	7:44	8:21	50	80	37.5	2.75 - 300	
				46	80	37.5		
				42	80	37.5		
				38	80	37.5		
				34	80	37.5		
				30	80	37.5		
				26	80	37.5		
				22	80	37.5		

TABLE 1
SUMMARY OF FULL SCALE INJECTION
FARMER'S FEED AND MILLING, COLQUITT, GEORGIA

Injection Point	Date	Start Time	End Time	Depth Interval (ft.)	Pressure (psi)	Amount Injected (gal.)	Concentration (buckets permanganate - gallons H ₂ O)	Comments
R-2 (0-E)	11/19/2006	8:46	9:19	50	80	37.5	2.75 - 300	
				46	80	37.5		
				42	80	37.5		
				38	120	37.5		
				34	120	37.5		
				30	120	37.5		
				26	120	37.5		
				22	120	37.5		
R-1 (0-D)	11/19/2006	9:39	10:14	50	120	37.5	2.75 - 300	
				46	120	37.5		
				42	120	37.5		
				38	120	37.5		
				34	120	37.5		
				30	120	37.5		
				26	120	37.5		
				22	80	37.5		
60-D	11:59	12:35	14:58	50	120	37.5	2.75 - 300	
				46	120	37.5		
				42	120	37.5		
				38	120	37.5		
				34	120	37.5		
				30	120	37.5		
				26	120	37.5		
				22	120	37.5		
20-A	11/19/2006	13:00	13:35	50	120	37.5	2.75 - 300	
				46	120	37.5		
				42	120	37.5		
				38	120	37.5		
				34	120	37.5		
				30	120	37.5		
				26	120	37.5		
				22	80	37.5		
R-3 (0-A)	11/19/2006	14:07	14:40	50	120	37.5	2.75 - 300	
				46	120	37.5		
				42	120	37.5		
				38	120	37.5		
				34	120	37.5		
				30	120	37.5		
				26	120	37.5		
				22	60	37.5		

TABLE 2
COMPARISON OF GROUNDWATER ANALYTICAL RESULTS
FARMER'S FEED AND MILLING, COLQUIT, GEORGIA

Sample Location	Sample Date	DCA (ug/L) CAS#75343	DCE (ug/L) CAS#75354	TCE (ug/L) CAS#79016	PCE (ug/L) CAS#127184	VC (ug/L) CAS#75014	Toluene (ug/L) CAS#108883
MW-4	8/2/2001	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
	8/19/2005	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	14
MW-5	8/2/2001	ND (5)	ND (5)	ND (5)	8.8	ND (5)	NA
Post Pilot Injection 1	7/9/2002	ND (5)	ND (5)	ND (5)	8	ND (5)	NA
Post Pilot Injection 2	10/29/2002	ND (5)	ND (5)	ND (5)	9.1	ND (5)	NA
	2/11/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
Post Pilot Injection 3	9/30/2003	ND (5)	ND (5)	ND (5)	8	ND (5)	NA
	11/7/2003	ND (5)	ND (5)	ND (5)	5.5	ND (5)	NA
	4/14/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
Post Pilot Injection 4	6/23/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
	10/20/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
	6/15/2005	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
Post Full Scale Injection	12/20/2006	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
MW-6	8/2/2001	ND (5)	ND (5)	ND (5)	23	ND (5)	NA
Post Pilot Injection 1	7/9/2002	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
Post Pilot Injection 2	10/29/2002	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
	2/11/2003	ND (5)	ND (5)	ND (5)	8.9	ND (5)	NA
Post Pilot Injection 3	9/30/2003	ND (5)	ND (5)	ND (5)	20	ND (5)	NA
	11/7/2003	ND (5)	ND (5)	ND (5)	29	ND (5)	NA
	4/14/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
Post Pilot Injection 4	6/23/2004	ND (5)	ND (5)	ND (5)	20	ND (5)	NA
	10/20/2004	ND (5)	ND (5)	ND (5)	25	ND (5)	NA
	6/15/2005	ND (5)	ND (5)	ND (5)	33	ND (5)	NA
Post Full Scale Injection	12/20/2006	ND (5)	ND (5)	ND (5)	10	ND (5)	NA
MW-7D	8/2/2001	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
Post Pilot Injection 1	7/9/2002	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
Post Pilot Injection 2	10/29/2002	ND (5)	ND (5)	ND (5)	6.1	ND (5)	NA
	2/11/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
Post Pilot Injection 3	9/30/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
	11/7/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
	4/14/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
Post Pilot Injection 4	6/23/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
	10/20/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
	6/15/2005	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
Post Full Scale Injection	12/20/2006	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
MW-8	8/2/2001	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
MW-9	8/2/2001	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
	11/7/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA

TABLE 2
COMPARISON OF GROUNDWATER ANALYTICAL RESULTS
FARMER'S FEED AND MILLING, COLQUITT, GEORGIA

Sample Location	Sample Date	DCA (ug/L) CAS#75343	DCE (ug/L) CAS#75354	TCE (ug/L) CAS#79016	PCE (ug/L) CAS#127184	VC (ug/L) CAS#75014	Toluene (ug/L) CAS#108883
MW-10	9/4/2002	ND (5)	ND (5)	ND (5)	130	ND (5)	NA
	10/29/2002	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
	2/11/2003	ND (5)	ND (5)	ND (5)	120	ND (5)	NA
Post Pilot Injection 3	9/30/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
	11/7/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
	4/14/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
Post Pilot Injection 4	6/23/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
	10/20/2004	ND (5)	ND (5)	ND (5)	8.6	ND (5)	NA
	6/15/2005	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
Post Full Scale Injection	12/19/2006	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
MW-11							
Post Pilot Injection 3	9/30/2003	ND (5)	ND (5)	ND (5)	430	ND (5)	NA
	11/7/2003	ND (5)	ND (5)	ND (5)	180	ND (5)	NA
	4/14/2004	ND (5)	ND (5)	ND (5)	460	ND (5)	NA
Post Pilot Injection 4	6/23/2004	ND (5)	ND (5)	ND (5)	41	ND (5)	NA
	10/20/2004	ND (5)	ND (5)	ND (5)	37	ND (5)	NA
	6/15/2005	ND (5)	ND (5)	ND (5)	180	ND (5)	NA
Post Full Scale Injection	12/19/2006	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
MW-12							
Post Pilot Injection 4	6/23/2004	ND (5)	ND (5)	ND (5)	19	ND (5)	NA
	10/20/2004	ND (5)	ND (5)	ND (5)	17	ND (5)	NA
	6/15/2005	ND (5)	ND (5)	ND (5)	13	ND (5)	NA
Post Full Scale Injection	12/19/2006	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
MW-13	8/19/2005	ND (5)	ND (5)	ND (5)	11	ND (5)	ND (5)
Post Full Scale Injection	12/20/2006	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
MW-14	8/19/2005	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Post Full Scale Injection	12/20/2006	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
MW-15	8/19/2005	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
MW-16	8/19/2005	ND (5)	ND (5)	ND (5)	6.3	ND (5)	6.3
Post Full Scale Injection	12/19/2006	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
MW-17D	8/19/2005	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	5.2
Post Full Scale Injection	12/19/2006	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
Type 1/3 RRS		4,000	7	5	5	2	1,000

Notes:

DCA = 1,1-dichloroethane

DCE = 1,1-dichloroethene (total)

TCE = trichloroethene

PCE = tetrachloroethene

VC = vinyl chloride

ND = Not Detected @ (Reported Detection Limit)

Type 1/3 RRS = Groundwater Criteria (Appendix III Table 1)

MW-10 12/19/06 sample had a suspect detection of methylene chloride (5.6 ug/L).

APPENDIX P

2007 CRA GROUNDWATER SAMPLING SUMMARY



**CONESTOGA-ROVERS
& ASSOCIATES**

*Edman /
Hill Birdsong Peanut*
1412 Oakbrook Drive, Suite 180, Norcross, Georgia 30093
Telephone: 770-441-0027 Facsimile: 770-441-2050
www.CRAworld.com

May 10, 2007

Reference No. 18283-02

Ms. Alexandra Cleary
Georgia Department of Natural Resources
Unit Coordinator
Hazardous Sites Response Program
2 Martin Luther King, Jr. Drive, SE, Suite 1462 East
Atlanta, Georgia 30334-9000

Dear Ms. Cleary:

Re: Groundwater Sampling Summary
Birdsong Peanut (former Farmer's Feed and Milling Company), HSI 10710
Colquitt, Georgia

Conestoga-Rovers & Associates (CRA) is submitting this report of the results of samples collected at Birdsong Peanut following the full-scale injection of potassium permanganate work at the above referenced Site. In summary, the enclosed results indicate that no chlorinated VOCs were detected in the groundwater beneath the Site.

Potassium permanganate was injected in accordance with the Corrective Action Plan (CAP) in November 2006. On December 19 and 20, 2006, a preliminary groundwater sampling event was performed to determine the immediate impact of the full-scale injection work. A total of 10 monitoring wells were sampled to monitor the area within and adjacent to the treatment area. These initial results were favorable, with only one detection of PCE above the applicable Type 1/3 Risk Reduction Standard (RRS) of 5 µg/L. The December 2006 results indicate that PCE was not detected in groundwater samples collected from monitoring wells where PCE had been detected during the previous sampling (MW-10, MW-11, MW-13 and MW-16). The single detection of PCE was from groundwater collected from monitoring well MW-6 at a concentration of 10 µg/L; the previous sampling event detected PCE at 53 µg/L for MW-6.

On April 10, 2007, a groundwater-sampling event was performed to evaluate the performance of the full-scale injection work. A total of 7 monitoring wells, including the wells that previously shown the presence of PCE, were sampled in accordance with the CAP. Results of the April 2007 groundwater-sampling event indicate the injection has eliminated the previously persistent, part per billion concentrations of PCE observed in the monitoring wells. Results show that the full-scale injection effectively removed the residual chlorinated VOCs from groundwater beneath the Site. Table 1 also provides a comparison of the recent analytical results with results dating back to 2001. Results for select ions as determined by the CAP are provided in Table 2. The laboratory reports and sample key are provided as Attachment A.

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**CONESTOGA-ROVERS
& ASSOCIATES**

May 10, 2007

2

Reference No. 18283-02

We trust that this interim report provides you with useful information concerning this Site. Please contact us if you have any questions at (770) 441-0027. Based upon these results, Birdsong Peanut appears to be appropriate for removal from the HSI.

Yours truly,

CONESTOGA-ROVERS & ASSOCIATES

Mike Reinhardt

mr/10

cc: Donna Balon, Man Group USA, Inc.
Les Oakes, King & Spalding
Robert Norman, Jones Cork & Miller

TABLE 1

COMPARISON OF GROUNDWATER ANALYTICAL RESULTS
 BIRDSONG PEANUT
 FARMER'S FEED AND MILLING
 COLQUITT, GEORGIA

Sample Location	Sample Date	DCA (ug/L) CAS#75343	DCE (ug/L) CAS#75354	TCE (ug/L) CAS#79016	PCE (ug/L) CAS#127184	VC (ug/L) CAS#75014	Toluene (ug/L) CAS#108883
MW-4	8/2/2001	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
	8/19/2005	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	14
MW-5	8/2/2001	ND (5)	ND (5)	ND (5)	8.8	ND (2)	NA
Post Pilot Injection 1	7/9/2002	ND (5)	ND (5)	ND (5)	8	ND (2)	NA
Post Pilot Injection 2	10/29/2002	ND (5)	ND (5)	ND (5)	9.1	ND (2)	NA
Post Pilot Injection 3	2/11/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	9/30/2003	ND (5)	ND (5)	ND (5)	8	ND (2)	NA
	11/7/2003	ND (5)	ND (5)	ND (5)	5.5	ND (2)	NA
Post Pilot Injection 4	4/14/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	6/23/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	10/20/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
Post Full Scale Injection	6/15/2005	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	12/20/2006	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	4/10/2007	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
MW-6	8/2/2001	ND (5)	ND (5)	ND (5)	23	ND (2)	NA
Post Pilot Injection 1	7/9/2002	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
Post Pilot Injection 2	10/29/2002	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
Post Pilot Injection 3	2/11/2003	ND (5)	ND (5)	ND (5)	8.9	ND (2)	NA
	9/30/2003	ND (5)	ND (5)	ND (5)	20	ND (2)	NA
	11/7/2003	ND (5)	ND (5)	ND (5)	29	ND (2)	NA
Post Pilot Injection 4	4/14/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	6/23/2004	ND (5)	ND (5)	ND (5)	20	ND (2)	NA
	10/20/2004	ND (5)	ND (5)	ND (5)	25	ND (2)	NA
Post Full Scale Injection	6/15/2005	ND (5)	ND (5)	ND (5)	53	ND (2)	NA
	12/20/2006	ND (5)	ND (5)	ND (5)	10	ND (2)	NA
	4/10/2007	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
MW-7D	8/2/2001	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
Post Pilot Injection 1	7/9/2002	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
Post Pilot Injection 2	10/29/2002	ND (5)	ND (5)	ND (5)	6.1	ND (2)	NA
Post Pilot Injection 3	2/11/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	9/30/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	11/7/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
Post Pilot Injection 4	4/14/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	6/23/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	10/20/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
Post Full Scale Injection	6/15/2005	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	12/20/2006	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	4/10/2007	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
MW-8	8/2/2001	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
MW-9	8/2/2001	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	11/7/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA

TABLE 1

COMPARISON OF GROUNDWATER ANALYTICAL RESULTS
 BIRDSONG PEANUT
 FARMER'S FEED AND MILLING
 COLQUITT, GEORGIA

Sample Location	Sample Date	DCA (ug/L) CAS#75343	DCE (ug/L) CAS#75354	TCE (ug/L) CAS#79016	PCE (ug/L) CAS#127184	VC (ug/L) CAS#75014	Toluene (ug/L) CAS#108883
MW-10	9/4/2002	ND (5)	ND (5)	ND (5)	140	ND (2)	NA
	10/29/2002	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	2/11/2003	ND (5)	ND (5)	ND (5)	120	ND (2)	NA
Post Pilot Injection 3	9/30/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	11/7/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	4/14/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
Post Pilot Injection 4	6/23/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	10/20/2004	ND (5)	ND (5)	ND (5)	8.6	ND (2)	NA
	6/15/2005	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
Post Full Scale Injection	12/19/2006	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	4/10/2007	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
MW-11							
Post Pilot Injection 3	9/30/2003	ND (5)	ND (5)	ND (5)	430	ND (2)	NA
	11/7/2003	ND (5)	ND (5)	ND (5)	180	ND (2)	NA
	4/14/2004	ND (5)	ND (5)	ND (5)	460	ND (2)	NA
Post Pilot Injection 4	6/23/2004	ND (5)	ND (5)	ND (5)	41	ND (2)	NA
	10/20/2004	ND (5)	ND (5)	ND (5)	57	ND (2)	NA
	6/15/2005	ND (5)	ND (5)	ND (5)	180	ND (2)	NA
Post Full Scale Injection	12/19/2006	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	4/10/2007	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
MW-12							
Post Pilot Injection 4	6/23/2004	ND (5)	ND (5)	ND (5)	19	ND (2)	NA
	10/20/2004	ND (5)	ND (5)	ND (5)	17	ND (2)	NA
	6/15/2005	ND (5)	ND (5)	ND (5)	13	ND (2)	NA
Post Full Scale Injection	12/19/2006	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	4/10/2007	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
MW-13	8/19/2005	ND (5)	ND (5)	ND (5)	11	ND (2)	ND (5)
Post Full Scale Injection	12/20/2006	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	4/10/2007	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
MW-14	8/19/2005	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	ND (5)
Post Full Scale Injection	12/20/2006	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
MW-15	8/19/2005	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	ND (5)
MW-16	8/19/2005	ND (5)	ND (5)	ND (5)	6.3	ND (2)	6.3
Post Full Scale Injection	12/19/2006	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	4/10/2007	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
MW-17D	8/19/2005	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	5.2
Post Full Scale Injection	12/19/2006	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
Type 1/3 RRS		1,000	7	5	5	2	1,000

Notes:

DCA = 1,1-dichloroethane

DCE = 1,1-dichloroethene (total)

TCE = trichloroethene

PCE = tetrachloroethene

VC = vinyl chloride

ND = Not Detected @ (Reported Detection Limit)

Type 1/3 RRS = Groundwater Criteria (Appendix III Table 1)

MW-10 12/19/06 sample had a suspect detection of methylene chloride (5.6 ug/L).

TABLE 2

SELECT METALS AND IONS GROUNDWATER RESULTS
 BIRDSONG PEANUT
 FARMER'S FEED AND MILLING
 COLQUITT, GEORGIA

Sample Location	Sample Date	Calcium	Iron	Manganese	Potassium	Sodium	Chloride	Sulfate
MW-5	4/10/2007	89.4	0.274	0.41	6.19	23.9	6.1	44
MW-6	4/10/2007	177	0.188	68.7	89.5	9.19	160	BRL
MW-10	4/10/2007	157	1.91	323	1070	43.8	840	940
MW-11	4/10/2007	72.4	0.778	17.5	104	9.7	150	230
MW-12	4/10/2007	56.1	BRL	2.73	17.4	3.32	BRL	BRL
MW-13	4/10/2007	14.1	0.448	5.22	42.4	5.31	24	44
MW-16	4/10/2007	22.7	BRL	0.195	18.9	1.91	13	12

Notes:

BRL = Below Reporting Limit

All units are represented in mg/L

APPENDIX A

SAMPLE KEY AND LABORATORY REPORTS – APRIL 2007 AND DECEMBER 2006

SAMPLE KEY

18283-02

Birdsong Peanut, Colqitt, GA

<u>Sample Number</u>	<u>Location</u>
DATE: Dec. 19/20, 2006	
GW-121906-SAG-001	MW-11
GW-121906-SAG-002	MW-16
GW-121906-SAG-003	MW-10
GW-122006-SAG-004	MW-13
GW-122006-SAG-005	MW-14
GW-121906-DJB-101	MW-12
GW-121906-DJB-102	MW-17D
GW-122006-DJB-103	MW-7D
GW-122006-DJB-104	MW-6
GW-122006-DJB-105	MW-5

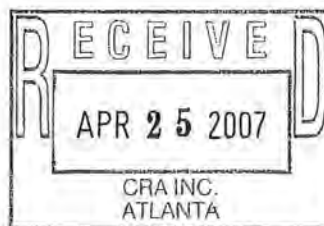
DATE: April 10, 2007

GW-041007-DJB-101	MW-6
GW-041007-DJB-102	MW-6 Duplicate
GW-041007-DJB-103	MW-13
GW-041007-DJB-104	MW-10
GW-041007-DJB-105	MW-5
GW-041007-SAG-001	MW-11
GW-041007-SAG-002	MW-12
GW-041007-SAG-003	MW-16



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

April 18, 2007



Mike Reinhardt
Conestoga, Rovers, & Associates, Inc.
1412 Oakbrook Drive
Suite 180
Norcross, GA 30093

TEL: (770) 441-0027
FAX: (770) 441-2050

RE: Birdsong Peanut

Order No.: 0704545

Dear Mike Reinhardt:

Analytical Environmental Services, Inc. received 9 samples on 4/11/2007 12:30:00 PM for the analyses presented in the following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water, effective 06/01/06-06/30/07.
- AIHA Certification ID #100671 for a Industrial Hygiene samples (Organics, Inorganics, PCM Asbestos), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 05/01/07.

These results relate only to the items tested. This report may only be reproduced in full and contains 19 total pages (including cover letter).

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Lang Reeves
Project Manager

CONESTOGA-ROVERS & ASSOCIATES <u>Norcross, GA</u>	SHIPPED TO (Laboratory Name): <div style="font-size: 1.5em; margin-top: 10px;">AES</div>	REFERENCE NUMBER: <div style="font-size: 1.2em; margin-top: 5px;">18283</div> <div style="margin-top: 5px;">Birdsong Peanut</div>
---	--	---

SAMPLER'S SIGNATURE: _____				PRINTED NAME: _____		No. of Containers	PARAMETERS SSP VOCs IONS												REMARKS
SEQ. No.	DATE	TIME	SAMPLE No.		SAMPLE TYPE														
	4/10/07	15:00	GW-041007	DJB-101	Water	4	X	X											Standard TAT
		15:30		102	Water	4	X	X											
		16:30		103		4	X	X											SSP VOCs
		17:00		104		4	X	X											See SSOW
	4/10/07	17:50	GW-041007	DJB-105		4	X	X											
	4/10/07		GW-041007	SAG-001		4	X	X											Ions = Na, K
				002		4	X	X											Ca, Mn, Fe
			GW-041007	SAG-003		4	X	X											Chloride and Sulfate
			Trip Blank			2	X	X											See SSOW

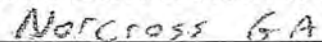
TOTAL NUMBER OF CONTAINERS	35	HEALTH/CHEMICAL HAZARDS
----------------------------	----	-------------------------

RELINQUISHED BY: ① <u>D. B. [Signature]</u>	DATE: 4/11/07 TIME: 12:30	RECEIVED BY: ① _____	DATE: _____ TIME: _____
RELINQUISHED BY: ② _____	DATE: _____ TIME: _____	RECEIVED BY: ② _____	DATE: _____ TIME: _____
RELINQUISHED BY: ③ _____	DATE: _____ TIME: _____	RECEIVED BY: ③ _____	DATE: _____ TIME: _____

METHOD OF SHIPMENT:	WAY BILL No.
---------------------	--------------

White - Fully Executed Copy Yellow - Receiving Laboratory Copy Pink - Shipper Copy Goldenrod - Sampler Copy	SAMPLE TEAM: _____ _____	RECEIVED FOR LABORATORY BY: <u>Benn [Signature]</u> NO CRA 03512 DATE: 4/11/07 TIME: 1230 <u>Clout</u>
--	--------------------------------	---

57-54



AE5

18283

Birdsong Peanut

PRINTED
NAME:HEALTH/CHEMICAL HAZARDS

1- Bth

TIME: 12:30

①

TIME:

②

TIME:

②

TIME:

③

TIME:

③

TIME:

WAY BILL No.

- Fully Executed Copy
- Receiving Laboratory Copy
- Shipper Copy
- Sampler Copy

SAMPLE TEAM:

RECEIVED FOR LABORATORY BY:

Babes with me

Nº **CRA** 03512

DATE: 4/11/07 TIME: 12312

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Conestoga

Work Order Number 0704545

Checklist completed by Rodriguez 4/4/7
Signature Date

Carrier name: FedEx ☐ UPS ☐ Courier ☐ Client ☒ US Mail ☐ Other ☐

Shipping container/cooler in good condition? Yes ☒ No ☐ Not Present ☐

Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☒

Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒

Container/Temp Blank temperature in compliance? ($4^{\circ}\text{C}\pm 2$)* Yes ☒ No ☐

Cooler #1 2.3°C Cooler #2 ☐ Cooler #3 ☐ Cooler #4 ☐ Cooler #5 ☐ Cooler #6 ☐

Chain of custody present? Yes ☒ No ☐

Chain of custody signed when relinquished and received? Yes ☒ No ☐

Chain of custody agrees with sample labels? Yes ☐ No ☒

Samples in proper container/bottle? Yes ☒ No ☐

Sample containers intact? Yes ☒ No ☐

Sufficient sample volume for indicated test? Yes ☒ No ☐

All samples received within holding time? Yes ☒ No ☐

Was TAT marked on the COC? Yes ☒ No ☐

Proceed with Standard TAT as per project history? Yes ☐ No ☐ Not Applicable ☒

Water - VOA vials have zero headspace? No VOA vials submitted Yes ☒ No ☐

Water - pH acceptable upon receipt? Yes ☒ No ☐ Not Applicable ☐

Adjusted? ☒ Checked by E/A

Sample Condition: Good ☒ Other(Explain) ☐

(For diffusive samples or AIHA lead) Is a known blank included? Yes ☐ No ☒

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

C:\Documents and Settings\Chemist\Desktop\CHECKLIST.rtf

Analytical Environmental Services, Inc.

Date: 18-Apr-07

CLIENT: Conestoga, Rovers, & Associates, Inc.
Project: Birdsong Peanut
Lab Order: 0704545

CASE NARRATIVE

The collection times for samples "GW-041007 SAG 001", "GW-041007 SAG 002" and "GW-041007 SAG 003" were taken from the sample containers for log in.

Collection times were not labeled on the containers of samples 0704545-004B, -004C, -005A, -005B and -005C. The COC was used to log in the samples.

Anions Analysis by Method 9056:

Due to sample matrix, samples 0704545-001C, -002C, -004C, -006C, and -007C required dilution during preparation and/or analysis resulting in elevated reporting limits.

Analytical Environmental Services, Inc.

Date: 18-Apr-07

CLIENT: Conestoga, Rovers, & Associates, Inc.
Project: Birdsong Peanut
Lab ID: 0704545-001

Client Sample ID: GW-041007 DJB-101
Collection Date: 4/10/2007 3:00:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
ION SCAN							
		SW9056					Analyst: CT
Chloride	160	100		mg/L		100	4/13/2007 12:46 PM
Sulfate	BRL	100		mg/L		100	4/13/2007 12:46 PM
METALS, TOTAL							
		SW6010B			(SW3010A)		Analyst: DJ
Calcium	117	1.00		mg/L	84956	10	4/12/2007 2:56 PM
Iron	0.188	0.100		mg/L	84956	1	4/12/2007 1:25 PM
Manganese	68.7	0.150		mg/L	84956	10	4/12/2007 2:56 PM
Potassium	89.5	5.00		mg/L	84956	10	4/12/2007 2:56 PM
Sodium	9.19	1.00		mg/L	84956	1	4/12/2007 1:25 PM
TCL VOLATILE ORGANICS							
		SW8260B			(SW5030B)		Analyst: CC
1,1,1-Trichloroethane	BRL	5.0		µg/L	85110	1	4/16/2007 9:30 PM
1,1,2,2-Tetrachloroethane	BRL	5.0		µg/L	85110	1	4/16/2007 9:30 PM
1,1,2-Trichloroethane	BRL	5.0		µg/L	85110	1	4/16/2007 9:30 PM
1,1-Dichloroethane	BRL	5.0		µg/L	85110	1	4/16/2007 9:30 PM
1,1-Dichloroethene	BRL	5.0		µg/L	85110	1	4/16/2007 9:30 PM
1,2,4-Trichlorobenzene	BRL	5.0		µg/L	85110	1	4/16/2007 9:30 PM
1,2-Dibromo-3-chloropropane	BRL	5.0		µg/L	85110	1	4/16/2007 9:30 PM
1,2-Dibromoethane	BRL	5.0		µg/L	85110	1	4/16/2007 9:30 PM
1,2-Dichlorobenzene	BRL	5.0		µg/L	85110	1	4/16/2007 9:30 PM
1,2-Dichloroethane	BRL	5.0		µg/L	85110	1	4/16/2007 9:30 PM
1,2-Dichloropropane	BRL	5.0		µg/L	85110	1	4/16/2007 9:30 PM
1,3-Dichlorobenzene	BRL	5.0		µg/L	85110	1	4/16/2007 9:30 PM
1,4-Dichlorobenzene	BRL	5.0		µg/L	85110	1	4/16/2007 9:30 PM
Bromodichloromethane	BRL	5.0		µg/L	85110	1	4/16/2007 9:30 PM
Carbon tetrachloride	BRL	5.0		µg/L	85110	1	4/16/2007 9:30 PM
Chloroethane	BRL	10		µg/L	85110	1	4/16/2007 9:30 PM
cis-1,2-Dichloroethene	BRL	5.0		µg/L	85110	1	4/16/2007 9:30 PM
cis-1,3-Dichloropropene	BRL	5.0		µg/L	85110	1	4/16/2007 9:30 PM
Dibromochloromethane	BRL	5.0		µg/L	85110	1	4/16/2007 9:30 PM
Dichlorodifluoromethane	BRL	10		µg/L	85110	1	4/16/2007 9:30 PM
Freon-113	BRL	10		µg/L	85110	1	4/16/2007 9:30 PM
Methylene chloride	BRL	5.0		µg/L	85110	1	4/16/2007 9:30 PM
Tetrachloroethene	BRL	5.0		µg/L	85110	1	4/16/2007 9:30 PM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	85110	1	4/16/2007 9:30 PM
trans-1,3-Dichloropropene	BRL	5.0		µg/L	85110	1	4/16/2007 9:30 PM
Trichloroethene	BRL	5.0		µg/L	85110	1	4/16/2007 9:30 PM
Vinyl chloride	BRL	2.0		µg/L	85110	1	4/16/2007 9:30 PM
Surr: 4-Bromofluorobenzene	104	63.1-120		%REC	85110	1	4/16/2007 9:30 PM
Surr: Dibromofluoromethane	109	73.8-118		%REC	85110	1	4/16/2007 9:30 PM
Surr: Toluene-d8	102	75.1-120		%REC	85110	1	4/16/2007 9:30 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
N Analyte not NELAC certified
B Analyte detected in the associated Method Blank

E Estimated (Value above quantitation range)
S Surrogate Recovery outside accepted recovery limits
Narr See Case Narrative
NC Not Confirmed

Analytical Environmental Services, Inc.

Date: 18-Apr-07

CLIENT: Conestoga, Rovers, & Associates, Inc.

Client Sample ID: GW-041007 DJB-102

Project: Birdsong Peanut

Collection Date: 4/10/2007 3:30:00 PM

Lab ID: 0704545-002

Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
ION SCAN							
		SW9056					Analyst: CT
Chloride	120	100		mg/L		100	4/13/2007 1:01 PM
Sulfate	BRL	100		mg/L		100	4/13/2007 1:01 PM
METALS, TOTAL							
		SW6010B			(SW3010A)		Analyst: DJ
Calcium	120	1.00		mg/L	84956	10	4/12/2007 3:00 PM
Iron	0.177	0.100		mg/L	84956	1	4/12/2007 1:29 PM
Manganese	70.8	0.150		mg/L	84956	10	4/12/2007 3:00 PM
Potassium	92.1	5.00		mg/L	84956	10	4/12/2007 3:00 PM
Sodium	9.00	1.00		mg/L	84956	1	4/12/2007 1:29 PM
TCL VOLATILE ORGANICS							
		SW8260B			(SW5030B)		Analyst: CC
1,1,1-Trichloroethane	BRL	5.0		µg/L	85110	1	4/16/2007 9:56 PM
1,1,2,2-Tetrachloroethane	BRL	5.0		µg/L	85110	1	4/16/2007 9:56 PM
1,1,2-Trichloroethane	BRL	5.0		µg/L	85110	1	4/16/2007 9:56 PM
1,1-Dichloroethane	BRL	5.0		µg/L	85110	1	4/16/2007 9:56 PM
1,1-Dichloroethene	BRL	5.0		µg/L	85110	1	4/16/2007 9:56 PM
1,2,4-Trichlorobenzene	BRL	5.0		µg/L	85110	1	4/16/2007 9:56 PM
1,2-Dibromo-3-chloropropane	BRL	5.0		µg/L	85110	1	4/16/2007 9:56 PM
1,2-Dibromoethane	BRL	5.0		µg/L	85110	1	4/16/2007 9:56 PM
1,2-Dichlorobenzene	BRL	5.0		µg/L	85110	1	4/16/2007 9:56 PM
1,2-Dichloroethane	BRL	5.0		µg/L	85110	1	4/16/2007 9:56 PM
1,2-Dichloropropane	BRL	5.0		µg/L	85110	1	4/16/2007 9:56 PM
1,3-Dichlorobenzene	BRL	5.0		µg/L	85110	1	4/16/2007 9:56 PM
1,4-Dichlorobenzene	BRL	5.0		µg/L	85110	1	4/16/2007 9:56 PM
Bromodichloromethane	BRL	5.0		µg/L	85110	1	4/16/2007 9:56 PM
Carbon tetrachloride	BRL	5.0		µg/L	85110	1	4/16/2007 9:56 PM
Chloroethane	BRL	10		µg/L	85110	1	4/16/2007 9:56 PM
cis-1,2-Dichloroethene	BRL	5.0		µg/L	85110	1	4/16/2007 9:56 PM
cis-1,3-Dichloropropene	BRL	5.0		µg/L	85110	1	4/16/2007 9:56 PM
Dibromochloromethane	BRL	5.0		µg/L	85110	1	4/16/2007 9:56 PM
Dichlorodifluoromethane	BRL	10		µg/L	85110	1	4/16/2007 9:56 PM
Freon-113	BRL	10		µg/L	85110	1	4/16/2007 9:56 PM
Methylene chloride	BRL	5.0		µg/L	85110	1	4/16/2007 9:56 PM
Tetrachloroethene	BRL	5.0		µg/L	85110	1	4/16/2007 9:56 PM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	85110	1	4/16/2007 9:56 PM
trans-1,3-Dichloropropene	BRL	5.0		µg/L	85110	1	4/16/2007 9:56 PM
Trichloroethene	BRL	5.0		µg/L	85110	1	4/16/2007 9:56 PM
Vinyl chloride	BRL	2.0		µg/L	85110	1	4/16/2007 9:56 PM
Surr: 4-Bromofluorobenzene	104	63.1-120		%REC	85110	1	4/16/2007 9:56 PM
Surr: Dibromofluoromethane	111	73.8-118		%REC	85110	1	4/16/2007 9:56 PM
Surr: Toluene-d8	107	75.1-120		%REC	85110	1	4/16/2007 9:56 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
N Analyte not NELAC certified
B Analyte detected in the associated Method Blank

E Estimated (Value above quantitation range)
S Surrogate Recovery outside accepted recovery limits
Narr See Case Narrative
NC Not Confirmed

Analytical Environmental Services, Inc.

Date: 18-Apr-07

CLIENT: Conestoga, Rovers, & Associates, Inc.
Project: Birdsong Peanut
Lab ID: 0704545-003

Client Sample ID: GW-041007 DJB-103
Collection Date: 4/10/2007 4:30:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
ION SCAN							
			SW9056				Analyst: CT
Chloride	24	1.0		mg/L		1	4/13/2007 1:16 PM
Sulfate	44	1.0		mg/L		1	4/13/2007 1:16 PM
METALS, TOTAL							
			SW6010B		(SW3010A)		Analyst: DJ
Calcium	14.1	0.100		mg/L	84956	1	4/12/2007 1:32 PM
Iron	0.448	0.100		mg/L	84956	1	4/12/2007 1:32 PM
Manganese	5.22	0.0150		mg/L	84956	1	4/12/2007 1:32 PM
Potassium	42.4	5.00		mg/L	84956	10	4/12/2007 3:03 PM
Sodium	5.31	1.00		mg/L	84956	1	4/12/2007 1:32 PM
TCL VOLATILE ORGANICS							
			SW8260B		(SW5030B)		Analyst: CC
1,1,1-Trichloroethane	BRL	5.0		µg/L	85110	1	4/16/2007 6:00 PM
1,1,2,2-Tetrachloroethane	BRL	5.0		µg/L	85110	1	4/16/2007 6:00 PM
1,1,2-Trichloroethane	BRL	5.0		µg/L	85110	1	4/16/2007 6:00 PM
1,1-Dichloroethane	BRL	5.0		µg/L	85110	1	4/16/2007 6:00 PM
1,1-Dichloroethene	BRL	5.0		µg/L	85110	1	4/16/2007 6:00 PM
1,2,4-Trichlorobenzene	BRL	5.0		µg/L	85110	1	4/16/2007 6:00 PM
1,2-Dibromo-3-chloropropane	BRL	5.0		µg/L	85110	1	4/16/2007 6:00 PM
1,2-Dibromoethane	BRL	5.0		µg/L	85110	1	4/16/2007 6:00 PM
1,2-Dichlorobenzene	BRL	5.0		µg/L	85110	1	4/16/2007 6:00 PM
1,2-Dichloroethane	BRL	5.0		µg/L	85110	1	4/16/2007 6:00 PM
1,2-Dichloropropane	BRL	5.0		µg/L	85110	1	4/16/2007 6:00 PM
1,3-Dichlorobenzene	BRL	5.0		µg/L	85110	1	4/16/2007 6:00 PM
1,4-Dichlorobenzene	BRL	5.0		µg/L	85110	1	4/16/2007 6:00 PM
Bromodichloromethane	BRL	5.0		µg/L	85110	1	4/16/2007 6:00 PM
Carbon tetrachloride	BRL	5.0		µg/L	85110	1	4/16/2007 6:00 PM
Chloroethane	BRL	10		µg/L	85110	1	4/16/2007 6:00 PM
cis-1,2-Dichloroethene	BRL	5.0		µg/L	85110	1	4/16/2007 6:00 PM
cis-1,3-Dichloropropene	BRL	5.0		µg/L	85110	1	4/16/2007 6:00 PM
Dibromochloromethane	BRL	5.0		µg/L	85110	1	4/16/2007 6:00 PM
Dichlorodifluoromethane	BRL	10		µg/L	85110	1	4/16/2007 6:00 PM
Freon-113	BRL	10		µg/L	85110	1	4/16/2007 6:00 PM
Methylene chloride	BRL	5.0		µg/L	85110	1	4/16/2007 6:00 PM
Tetrachloroethene	BRL	5.0		µg/L	85110	1	4/16/2007 6:00 PM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	85110	1	4/16/2007 6:00 PM
trans-1,3-Dichloropropene	BRL	5.0		µg/L	85110	1	4/16/2007 6:00 PM
Trichloroethene	BRL	5.0		µg/L	85110	1	4/16/2007 6:00 PM
Vinyl chloride	BRL	2.0		µg/L	85110	1	4/16/2007 6:00 PM
Surr: 4-Bromofluorobenzene	102	63.1-120		%REC	85110	1	4/16/2007 6:00 PM
Surr: Dibromofluoromethane	108	73.8-118		%REC	85110	1	4/16/2007 6:00 PM
Surr: Toluene-d8	106	75.1-120		%REC	85110	1	4/16/2007 6:00 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
N Analyte not NELAC certified
B Analyte detected in the associated Method Blank

E Estimated (Value above quantitation range)
S Surrogate Recovery outside accepted recovery limits
Narr See Case Narrative
NC Not Confirmed

Analytical Environmental Services, Inc.

Date: 18-Apr-07

CLIENT: Conestoga, Rovers, & Associates, Inc.
Project: Birdsong Peanut
Lab ID: 0704545-004

Client Sample ID: GW-041007 DJB-104
Collection Date: 4/10/2007 5:00:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
ION SCAN							
		SW9056					Analyst: CT
Chloride	840	100		mg/L		100	4/13/2007 1:30 PM
Sulfate	940	100		mg/L		100	4/13/2007 1:30 PM
METALS, TOTAL							
		SW6010B			(SW3010A)		Analyst: DJ
Calcium	157	1.00		mg/L	84956	10	4/12/2007 3:07 PM
Iron	1.91	0.100		mg/L	84956	1	4/12/2007 1:35 PM
Manganese	323	1.50		mg/L	84956	100	4/12/2007 3:10 PM
Potassium	1070	50.0		mg/L	84956	100	4/12/2007 3:10 PM
Sodium	43.8	1.00		mg/L	84956	1	4/12/2007 1:35 PM
TCL VOLATILE ORGANICS							
		SW8260B			(SW5030B)		Analyst: CC
1,1,1-Trichloroethane	BRL	5.0		µg/L	85110	1	4/17/2007 12:11 PM
1,1,2,2-Tetrachloroethane	BRL	5.0		µg/L	85110	1	4/17/2007 12:11 PM
1,1,2-Trichloroethane	BRL	5.0		µg/L	85110	1	4/17/2007 12:11 PM
1,1-Dichloroethane	BRL	5.0		µg/L	85110	1	4/17/2007 12:11 PM
1,1-Dichloroethene	BRL	5.0		µg/L	85110	1	4/17/2007 12:11 PM
1,2,4-Trichlorobenzene	BRL	5.0		µg/L	85110	1	4/17/2007 12:11 PM
1,2-Dibromo-3-chloropropane	BRL	5.0		µg/L	85110	1	4/17/2007 12:11 PM
1,2-Dibromoethane	BRL	5.0		µg/L	85110	1	4/17/2007 12:11 PM
1,2-Dichlorobenzene	BRL	5.0		µg/L	85110	1	4/17/2007 12:11 PM
1,2-Dichloroethane	BRL	5.0		µg/L	85110	1	4/17/2007 12:11 PM
1,2-Dichloropropane	BRL	5.0		µg/L	85110	1	4/17/2007 12:11 PM
1,3-Dichlorobenzene	BRL	5.0		µg/L	85110	1	4/17/2007 12:11 PM
1,4-Dichlorobenzene	BRL	5.0		µg/L	85110	1	4/17/2007 12:11 PM
Bromodichloromethane	BRL	5.0		µg/L	85110	1	4/17/2007 12:11 PM
Carbon tetrachloride	BRL	5.0		µg/L	85110	1	4/17/2007 12:11 PM
Chloroethane	BRL	10		µg/L	85110	1	4/17/2007 12:11 PM
cis-1,2-Dichloroethene	BRL	5.0		µg/L	85110	1	4/17/2007 12:11 PM
cis-1,3-Dichloropropene	BRL	5.0		µg/L	85110	1	4/17/2007 12:11 PM
Dibromochloromethane	BRL	5.0		µg/L	85110	1	4/17/2007 12:11 PM
Dichlorodifluoromethane	BRL	10		µg/L	85110	1	4/17/2007 12:11 PM
Freon-113	BRL	10		µg/L	85110	1	4/17/2007 12:11 PM
Methylene chloride	BRL	5.0		µg/L	85110	1	4/17/2007 12:11 PM
Tetrachloroethene	BRL	5.0		µg/L	85110	1	4/17/2007 12:11 PM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	85110	1	4/17/2007 12:11 PM
trans-1,3-Dichloropropene	BRL	5.0		µg/L	85110	1	4/17/2007 12:11 PM
Trichloroethene	BRL	5.0		µg/L	85110	1	4/17/2007 12:11 PM
Vinyl chloride	BRL	2.0		µg/L	85110	1	4/17/2007 12:11 PM
Surr: 4-Bromofluorobenzene	107	63.1-120		%REC	85110	1	4/17/2007 12:11 PM
Surr: Dibromofluoromethane	109	73.8-118		%REC	85110	1	4/17/2007 12:11 PM
Surr: Toluene-d8	104	75.1-120		%REC	85110	1	4/17/2007 12:11 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
N Analyte not NELAC certified
B Analyte detected in the associated Method Blank

E Estimated (Value above quantitation range)
S Surrogate Recovery outside accepted recovery limits
Narr See Case Narrative
NC Not Confirmed

Analytical Environmental Services, Inc.

Date: 18-Apr-07

CLIENT: Conestoga, Rovers, & Associates, Inc.
Project: Birdsong Peanut
Lab ID: 0704545-005

Client Sample ID: GW-041007 DJB-105
Collection Date: 4/10/2007 5:50:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
ION SCAN							
		SW9056					Analyst: CT
Chloride	6.1	1.0		mg/L		1	4/13/2007 1:45 PM
Sulfate	44	1.0		mg/L		1	4/13/2007 1:45 PM
METALS, TOTAL							
		SW6010B			(SW3010A)		Analyst: DJ
Calcium	89.4	1.00		mg/L	84956	10	4/12/2007 3:21 PM
Iron	0.272	0.100		mg/L	84956	1	4/12/2007 1:38 PM
Manganese	0.410	0.0150		mg/L	84956	1	4/12/2007 1:38 PM
Potassium	5.19	0.500		mg/L	84956	1	4/12/2007 1:38 PM
Sodium	23.8	1.00		mg/L	84956	1	4/12/2007 1:38 PM
TCL VOLATILE ORGANICS							
		SW8260B			(SW5030B)		Analyst: CC
1,1,1-Trichloroethane	BRL	5.0		µg/L	85110	1	4/16/2007 7:45 PM
1,1,2,2-Tetrachloroethane	BRL	5.0		µg/L	85110	1	4/16/2007 7:45 PM
1,1,2-Trichloroethane	BRL	5.0		µg/L	85110	1	4/16/2007 7:45 PM
1,1-Dichloroethane	BRL	5.0		µg/L	85110	1	4/16/2007 7:45 PM
1,1-Dichloroethene	BRL	5.0		µg/L	85110	1	4/16/2007 7:45 PM
1,2,4-Trichlorobenzene	BRL	5.0		µg/L	85110	1	4/16/2007 7:45 PM
1,2-Dibromo-3-chloropropane	BRL	5.0		µg/L	85110	1	4/16/2007 7:45 PM
1,2-Dibromoethane	BRL	5.0		µg/L	85110	1	4/16/2007 7:45 PM
1,2-Dichlorobenzene	BRL	5.0		µg/L	85110	1	4/16/2007 7:45 PM
1,2-Dichloroethane	BRL	5.0		µg/L	85110	1	4/16/2007 7:45 PM
1,2-Dichloropropane	BRL	5.0		µg/L	85110	1	4/16/2007 7:45 PM
1,3-Dichlorobenzene	BRL	5.0		µg/L	85110	1	4/16/2007 7:45 PM
1,4-Dichlorobenzene	BRL	5.0		µg/L	85110	1	4/16/2007 7:45 PM
Bromodichloromethane	BRL	5.0		µg/L	85110	1	4/16/2007 7:45 PM
Carbon tetrachloride	BRL	5.0		µg/L	85110	1	4/16/2007 7:45 PM
Chloroethane	BRL	10		µg/L	85110	1	4/16/2007 7:45 PM
cis-1,2-Dichloroethene	BRL	5.0		µg/L	85110	1	4/16/2007 7:45 PM
cis-1,3-Dichloropropene	BRL	5.0		µg/L	85110	1	4/16/2007 7:45 PM
Dibromochloromethane	BRL	5.0		µg/L	85110	1	4/16/2007 7:45 PM
Dichlorodifluoromethane	BRL	10		µg/L	85110	1	4/16/2007 7:45 PM
Freon-113	BRL	10		µg/L	85110	1	4/16/2007 7:45 PM
Methylene chloride	BRL	5.0		µg/L	85110	1	4/16/2007 7:45 PM
Tetrachloroethene	BRL	5.0		µg/L	85110	1	4/16/2007 7:45 PM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	85110	1	4/16/2007 7:45 PM
trans-1,3-Dichloropropene	BRL	5.0		µg/L	85110	1	4/16/2007 7:45 PM
Trichloroethene	BRL	5.0		µg/L	85110	1	4/16/2007 7:45 PM
Vinyl chloride	BRL	2.0		µg/L	85110	1	4/16/2007 7:45 PM
Surr: 4-Bromofluorobenzene	100	63.1-120		%REC	85110	1	4/16/2007 7:45 PM
Surr: Dibromofluoromethane	106	73.8-118		%REC	85110	1	4/16/2007 7:45 PM
Surr: Toluene-d8	105	75.1-120		%REC	85110	1	4/16/2007 7:45 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
N Analyte not NELAC certified
B Analyte detected in the associated Method Blank

E Estimated (Value above quantitation range)
S Surrogate Recovery outside accepted recovery limits
Narr See Case Narrative
NC Not Confirmed

Analytical Environmental Services, Inc.

Date: 18-Apr-07

CLIENT: Conestoga, Rovers, & Associates, Inc.
Project: Birdsong Peanut
Lab ID: 0704545-006

Client Sample ID: GW-041007 SAG-001
Collection Date: 4/10/2007 2:30:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
ION SCAN							
			SW9056				Analyst: CT
Chloride	150	100		mg/L		100	4/13/2007 2:00 PM
Sulfate	230	100		mg/L		100	4/13/2007 2:00 PM
METALS, TOTAL							
			SW6010B		(SW3010A)		Analyst: DJ
Calcium	72.4	1.00		mg/L	84956	10	4/12/2007 3:24 PM
Iron	0.778	0.100		mg/L	84956	1	4/12/2007 1:41 PM
Manganese	17.5	0.0150		mg/L	84956	1	4/12/2007 1:41 PM
Potassium	104	5.00		mg/L	84956	10	4/12/2007 3:24 PM
Sodium	9.70	1.00		mg/L	84956	1	4/12/2007 1:41 PM
TCL VOLATILE ORGANICS							
			SW8260B		(SW5030B)		Analyst: CC
1,1,1-Trichloroethane	BRL	5.0		µg/L	85110	1	4/16/2007 8:11 PM
1,1,2,2-Tetrachloroethane	BRL	5.0		µg/L	85110	1	4/16/2007 8:11 PM
1,1,2-Trichloroethane	BRL	5.0		µg/L	85110	1	4/16/2007 8:11 PM
1,1-Dichloroethane	BRL	5.0		µg/L	85110	1	4/16/2007 8:11 PM
1,1-Dichloroethene	BRL	5.0		µg/L	85110	1	4/16/2007 8:11 PM
1,2,4-Trichlorobenzene	BRL	5.0		µg/L	85110	1	4/16/2007 8:11 PM
1,2-Dibromo-3-chloropropane	BRL	5.0		µg/L	85110	1	4/16/2007 8:11 PM
1,2-Dibromoethane	BRL	5.0		µg/L	85110	1	4/16/2007 8:11 PM
1,2-Dichlorobenzene	BRL	5.0		µg/L	85110	1	4/16/2007 8:11 PM
1,2-Dichloroethane	BRL	5.0		µg/L	85110	1	4/16/2007 8:11 PM
1,2-Dichloropropane	BRL	5.0		µg/L	85110	1	4/16/2007 8:11 PM
1,3-Dichlorobenzene	BRL	5.0		µg/L	85110	1	4/16/2007 8:11 PM
1,4-Dichlorobenzene	BRL	5.0		µg/L	85110	1	4/16/2007 8:11 PM
Bromodichloromethane	BRL	5.0		µg/L	85110	1	4/16/2007 8:11 PM
Carbon tetrachloride	BRL	5.0		µg/L	85110	1	4/16/2007 8:11 PM
Chloroethane	BRL	10		µg/L	85110	1	4/16/2007 8:11 PM
cis-1,2-Dichloroethene	BRL	5.0		µg/L	85110	1	4/16/2007 8:11 PM
cis-1,3-Dichloropropene	BRL	5.0		µg/L	85110	1	4/16/2007 8:11 PM
Dibromochloromethane	BRL	5.0		µg/L	85110	1	4/16/2007 8:11 PM
Dichlorodifluoromethane	BRL	10		µg/L	85110	1	4/16/2007 8:11 PM
Freon-113	BRL	10		µg/L	85110	1	4/16/2007 8:11 PM
Methylene chloride	BRL	5.0		µg/L	85110	1	4/16/2007 8:11 PM
Tetrachloroethene	BRL	5.0		µg/L	85110	1	4/16/2007 8:11 PM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	85110	1	4/16/2007 8:11 PM
trans-1,3-Dichloropropene	BRL	5.0		µg/L	85110	1	4/16/2007 8:11 PM
Trichloroethene	BRL	5.0		µg/L	85110	1	4/16/2007 8:11 PM
Vinyl chloride	BRL	2.0		µg/L	85110	1	4/16/2007 8:11 PM
Surr: 4-Bromofluorobenzene	103	63.1-120		%REC	85110	1	4/16/2007 8:11 PM
Surr: Dibromofluoromethane	105	73.8-118		%REC	85110	1	4/16/2007 8:11 PM
Surr: Toluene-d8	106	75.1-120		%REC	85110	1	4/16/2007 8:11 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
	BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
	H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
	N	Analyte not NELAC certified	NC	Not Confirmed
	B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: 18-Apr-07

CLIENT: Conestoga, Rovers, & Associates, Inc.
Project: Birdsong Peanut
Lab ID: 0704545-007

Client Sample ID: GW-041007 SAG-002
Collection Date: 4/10/2007 4:05:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
ION SCAN							
		SW9056					Analyst: CT
Chloride	BRL	100		mg/L		100	4/13/2007 2:15 PM
Sulfate	BRL	100		mg/L		100	4/13/2007 2:15 PM
METALS, TOTAL							
		SW6010B			(SW3010A)		Analyst: DJ
Calcium	56.1	1.00		mg/L	84956	10	4/12/2007 3:28 PM
Iron	BRL	0.100		mg/L	84956	1	4/12/2007 1:44 PM
Manganese	2.73	0.0150		mg/L	84956	1	4/12/2007 1:44 PM
Potassium	17.4	0.500		mg/L	84956	1	4/12/2007 1:44 PM
Sodium	3.32	1.00		mg/L	84956	1	4/12/2007 1:44 PM
TCL VOLATILE ORGANICS							
		SW8260B			(SW5030B)		Analyst: CC
1,1,1-Trichloroethane	BRL	5.0		µg/L	85110	1	4/16/2007 8:37 PM
1,1,2,2-Tetrachloroethane	BRL	5.0		µg/L	85110	1	4/16/2007 8:37 PM
1,1,2-Trichloroethane	BRL	5.0		µg/L	85110	1	4/16/2007 8:37 PM
1,1-Dichloroethane	BRL	5.0		µg/L	85110	1	4/16/2007 8:37 PM
1,1-Dichloroethene	BRL	5.0		µg/L	85110	1	4/16/2007 8:37 PM
1,2,4-Trichlorobenzene	BRL	5.0		µg/L	85110	1	4/16/2007 8:37 PM
1,2-Dibromo-3-chloropropane	BRL	5.0		µg/L	85110	1	4/16/2007 8:37 PM
1,2-Dibromoethane	BRL	5.0		µg/L	85110	1	4/16/2007 8:37 PM
1,2-Dichlorobenzene	BRL	5.0		µg/L	85110	1	4/16/2007 8:37 PM
1,2-Dichloroethane	BRL	5.0		µg/L	85110	1	4/16/2007 8:37 PM
1,2-Dichloropropane	BRL	5.0		µg/L	85110	1	4/16/2007 8:37 PM
1,3-Dichlorobenzene	BRL	5.0		µg/L	85110	1	4/16/2007 8:37 PM
1,4-Dichlorobenzene	BRL	5.0		µg/L	85110	1	4/16/2007 8:37 PM
Bromodichloromethane	BRL	5.0		µg/L	85110	1	4/16/2007 8:37 PM
Carbon tetrachloride	BRL	5.0		µg/L	85110	1	4/16/2007 8:37 PM
Chloroethane	BRL	10		µg/L	85110	1	4/16/2007 8:37 PM
cis-1,2-Dichloroethene	BRL	5.0		µg/L	85110	1	4/16/2007 8:37 PM
cis-1,3-Dichloropropene	BRL	5.0		µg/L	85110	1	4/16/2007 8:37 PM
Dibromochloromethane	BRL	5.0		µg/L	85110	1	4/16/2007 8:37 PM
Dichlorodifluoromethane	BRL	10		µg/L	85110	1	4/16/2007 8:37 PM
Freon-113	BRL	10		µg/L	85110	1	4/16/2007 8:37 PM
Methylene chloride	BRL	5.0		µg/L	85110	1	4/16/2007 8:37 PM
Tetrachloroethene	BRL	5.0		µg/L	85110	1	4/16/2007 8:37 PM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	85110	1	4/16/2007 8:37 PM
trans-1,3-Dichloropropene	BRL	5.0		µg/L	85110	1	4/16/2007 8:37 PM
Trichloroethene	BRL	5.0		µg/L	85110	1	4/16/2007 8:37 PM
Vinyl chloride	BRL	2.0		µg/L	85110	1	4/16/2007 8:37 PM
Surr: 4-Bromofluorobenzene	101	63.1-120		%REC	85110	1	4/16/2007 8:37 PM
Surr: Dibromofluoromethane	107	73.8-118		%REC	85110	1	4/16/2007 8:37 PM
Surr: Toluene-d8	109	75.1-120		%REC	85110	1	4/16/2007 8:37 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
N Analyte not NELAC certified
B Analyte detected in the associated Method Blank

E Estimated (Value above quantitation range)
S Surrogate Recovery outside accepted recovery limits
Narr See Case Narrative
NC Not Confirmed

Analytical Environmental Services, Inc.

Date: 18-Apr-07

CLIENT: Conestoga, Rovers, & Associates, Inc.
Project: Birdsong Peanut
Lab ID: 0704545-008

Client Sample ID: GW-041007 SAG-003
Collection Date: 4/10/2007 5:10:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
ION SCAN							
		SW9056					Analyst: CT
Chloride	13	1.0		mg/L		1	4/13/2007 2:29 PM
Sulfate	12	1.0		mg/L		1	4/13/2007 2:29 PM
METALS, TOTAL							
		SW6010B			(SW3010A)		Analyst: DJ
Calcium	22.7	0.100		mg/L	84956	1	4/12/2007 1:52 PM
Iron	BRL	0.100		mg/L	84956	1	4/12/2007 1:52 PM
Manganese	0.195	0.0150		mg/L	84956	1	4/12/2007 1:52 PM
Potassium	18.9	0.500		mg/L	84956	1	4/12/2007 1:52 PM
Sodium	1.91	1.00		mg/L	84956	1	4/12/2007 1:52 PM
TCL VOLATILE ORGANICS							
		SW8260B			(SW5030B)		Analyst: CC
1,1,1-Trichloroethane	BRL	5.0		µg/L	85110	1	4/16/2007 9:03 PM
1,1,2,2-Tetrachloroethane	BRL	5.0		µg/L	85110	1	4/16/2007 9:03 PM
1,1,2-Trichloroethane	BRL	5.0		µg/L	85110	1	4/16/2007 9:03 PM
1,1-Dichloroethane	BRL	5.0		µg/L	85110	1	4/16/2007 9:03 PM
1,1-Dichloroethene	BRL	5.0		µg/L	85110	1	4/16/2007 9:03 PM
1,2,4-Trichlorobenzene	BRL	5.0		µg/L	85110	1	4/16/2007 9:03 PM
1,2-Dibromo-3-chloropropane	BRL	5.0		µg/L	85110	1	4/16/2007 9:03 PM
1,2-Dibromoethane	BRL	5.0		µg/L	85110	1	4/16/2007 9:03 PM
1,2-Dichlorobenzene	BRL	5.0		µg/L	85110	1	4/16/2007 9:03 PM
1,2-Dichloroethane	BRL	5.0		µg/L	85110	1	4/16/2007 9:03 PM
1,2-Dichloropropane	BRL	5.0		µg/L	85110	1	4/16/2007 9:03 PM
1,3-Dichlorobenzene	BRL	5.0		µg/L	85110	1	4/16/2007 9:03 PM
1,4-Dichlorobenzene	BRL	5.0		µg/L	85110	1	4/16/2007 9:03 PM
Bromodichloromethane	BRL	5.0		µg/L	85110	1	4/16/2007 9:03 PM
Carbon tetrachloride	BRL	5.0		µg/L	85110	1	4/16/2007 9:03 PM
Chloroethane	BRL	10		µg/L	85110	1	4/16/2007 9:03 PM
cis-1,2-Dichloroethene	BRL	5.0		µg/L	85110	1	4/16/2007 9:03 PM
cis-1,3-Dichloropropene	BRL	5.0		µg/L	85110	1	4/16/2007 9:03 PM
Dibromochloromethane	BRL	5.0		µg/L	85110	1	4/16/2007 9:03 PM
Dichlorodifluoromethane	BRL	10		µg/L	85110	1	4/16/2007 9:03 PM
Freon-113	BRL	10		µg/L	85110	1	4/16/2007 9:03 PM
Methylene chloride	BRL	5.0		µg/L	85110	1	4/16/2007 9:03 PM
Tetrachloroethene	BRL	5.0		µg/L	85110	1	4/16/2007 9:03 PM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	85110	1	4/16/2007 9:03 PM
trans-1,3-Dichloropropene	BRL	5.0		µg/L	85110	1	4/16/2007 9:03 PM
Trichloroethene	BRL	5.0		µg/L	85110	1	4/16/2007 9:03 PM
Vinyl chloride	BRL	2.0		µg/L	85110	1	4/16/2007 9:03 PM
Surr: 4-Bromofluorobenzene	103	63.1-120		%REC	85110	1	4/16/2007 9:03 PM
Surr: Dibromofluoromethane	107	73.8-118		%REC	85110	1	4/16/2007 9:03 PM
Surr: Toluene-d8	104	75.1-120		%REC	85110	1	4/16/2007 9:03 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
N Analyte not NELAC certified
B Analyte detected in the associated Method Blank

E Estimated (Value above quantitation range)
S Surrogate Recovery outside accepted recovery limits
Narr See Case Narrative
NC Not Confirmed

Analytical Environmental Services, Inc.

Date: 18-Apr-07

CLIENT: Conestoga, Rovers, & Associates, Inc.

Client Sample ID: TRIP BLANK

Project: Birdsong Peanut

Collection Date: 4/11/2007

Lab ID: 0704545-009

Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B		(SW5030B)		Analyst: CC	
1,1,1-Trichloroethane	BRL	5.0		µg/L	85110	1	4/16/2007 5:33 PM
1,1,2,2-Tetrachloroethane	BRL	5.0		µg/L	85110	1	4/16/2007 5:33 PM
1,1,2-Trichloroethane	BRL	5.0		µg/L	85110	1	4/16/2007 5:33 PM
1,1-Dichloroethane	BRL	5.0		µg/L	85110	1	4/16/2007 5:33 PM
1,1-Dichloroethene	BRL	5.0		µg/L	85110	1	4/16/2007 5:33 PM
1,2,4-Trichlorobenzene	BRL	5.0		µg/L	85110	1	4/16/2007 5:33 PM
1,2-Dibromo-3-chloropropane	BRL	5.0		µg/L	85110	1	4/16/2007 5:33 PM
1,2-Dibromoethane	BRL	5.0		µg/L	85110	1	4/16/2007 5:33 PM
1,2-Dichlorobenzene	BRL	5.0		µg/L	85110	1	4/16/2007 5:33 PM
1,2-Dichloroethane	BRL	5.0		µg/L	85110	1	4/16/2007 5:33 PM
1,2-Dichloropropane	BRL	5.0		µg/L	85110	1	4/16/2007 5:33 PM
1,3-Dichlorobenzene	BRL	5.0		µg/L	85110	1	4/16/2007 5:33 PM
1,4-Dichlorobenzene	BRL	5.0		µg/L	85110	1	4/16/2007 5:33 PM
Bromodichloromethane	BRL	5.0		µg/L	85110	1	4/16/2007 5:33 PM
Carbon tetrachloride	BRL	5.0		µg/L	85110	1	4/16/2007 5:33 PM
Chloroethane	BRL	10		µg/L	85110	1	4/16/2007 5:33 PM
cis-1,2-Dichloroethene	BRL	5.0		µg/L	85110	1	4/16/2007 5:33 PM
cis-1,3-Dichloropropene	BRL	5.0		µg/L	85110	1	4/16/2007 5:33 PM
Dibromochloromethane	BRL	5.0		µg/L	85110	1	4/16/2007 5:33 PM
Dichlorodifluoromethane	BRL	10		µg/L	85110	1	4/16/2007 5:33 PM
Freon-113	BRL	10		µg/L	85110	1	4/16/2007 5:33 PM
Methylene chloride	BRL	5.0		µg/L	85110	1	4/16/2007 5:33 PM
Tetrachloroethene	BRL	5.0		µg/L	85110	1	4/16/2007 5:33 PM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	85110	1	4/16/2007 5:33 PM
trans-1,3-Dichloropropene	BRL	5.0		µg/L	85110	1	4/16/2007 5:33 PM
Trichloroethene	BRL	5.0		µg/L	85110	1	4/16/2007 5:33 PM
Vinyl chloride	BRL	2.0		µg/L	85110	1	4/16/2007 5:33 PM
Surr: 4-Bromofluorobenzene	101	63.1-120		%REC	85110	1	4/16/2007 5:33 PM
Surr: Dibromofluoromethane	102	73.8-118		%REC	85110	1	4/16/2007 5:33 PM
Surr: Toluene-d8	106	75.1-120		%REC	85110	1	4/16/2007 5:33 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
 BRL Below Reporting Limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated Method Blank

E Estimated (Value above quantitation range)
 S Surrogate Recovery outside accepted recovery limits
 Narr See Case Narrative
 NC Not Confirmed

CLIENT: Conestoga, Rovers, & Associates, Inc.
 Work Order: 0704545
 Project: Birdsong Peanut

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010B_W_T

Sample ID: MB-84956	SampType: MBLK	TestCode: 6010B_W_T	Units: mg/L	Prep Date: 4/12/2007	RunNo: 102570						
Client ID:	Batch ID: 84956	TestNo: SW6010B		Analysis Date: 4/12/2007	SeqNo: 2063377						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Calcium	BRL	0.100
Iron	BRL	0.100
Manganese	BRL	0.0150
Potassium	BRL	0.500
Sodium	BRL	1.00

Sample ID: LCS-84956	SampType: LCS	TestCode: 6010B_W_T	Units: mg/L	Prep Date: 4/12/2007	RunNo: 102570						
Client ID:	Batch ID: 84956	TestNo: SW6010B		Analysis Date: 4/12/2007	SeqNo: 2063376						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Calcium	10.34	0.100	10	0	103	85	115	0	0
Iron	10.35	0.100	10	0	103	85	115	0	0
Manganese	1.032	0.0150	1	0	103	85	115	0	0
Potassium	10.53	0.500	10	0.1945	103	85	115	0	0
Sodium	10.49	1.00	10	0.008143	105	85	115	0	0

Sample ID: 0704506-001BMS	SampType: MS	TestCode: 6010B_W_T	Units: mg/L	Prep Date: 4/12/2007	RunNo: 102570						
Client ID:	Batch ID: 84956	TestNo: SW6010B		Analysis Date: 4/12/2007	SeqNo: 2063379						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Calcium	14.32	0.100	10	4.191	101	75	125	0	0
Iron	11.94	0.100	10	1.419	105	75	125	0	0
Manganese	1.174	0.0150	1	0.1344	104	75	125	0	0
Potassium	12	0.500	10	0.7106	113	75	125	0	0
Sodium	13.94	1.00	10	2.279	117	75	125	0	0

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Conestoga, Rovers, & Associates, Inc.
Work Order: 0704545
Project: Birdsong Peanut

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010B_W_T

Sample ID: 0704506-001BMSD	SampType: MSD	TestCode: 6010B_W_T	Units: mg/L	Prep Date: 4/12/2007	RunNo: 102570						
Client ID:	Batch ID: 84956	TestNo: SW6010B		Analysis Date: 4/12/2007	SeqNo: 2063382						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	14.41	0.100	10	4.191	102	75	125	14.32	0.650	20	
Iron	11.89	0.100	10	1.419	105	75	125	11.94	0.412	20	
Manganese	1.184	0.0150	1	0.1344	105	75	125	1.174	0.839	20	
Potassium	12.13	0.500	10	0.7106	114	75	125	12	1.05	20	
Sodium	14.17	1.00	10	2.279	119	75	125	13.94	1.67	20	

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

BRL Below Reporting Limit
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

E Value above quantitation range
N Analyte not NELAC certified

CLIENT: Conestoga, Rovers, & Associates, Inc.
 Work Order: 0704545
 Project: Birdsong Peanut

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_TCL4.2_W

Sample ID: MB-85110	SampType: MBLK	TestCode: 8260_TCL4.2	Units: µg/L	Prep Date: 4/16/2007	RunNo: 102784						
Client ID:	Batch ID: 85110	TestNo: SW8260B		Analysis Date: 4/16/2007	SeqNo: 2068154						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chloroethane	BRL	10									
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Freon-113	BRL	10									
Methylene chloride	BRL	5.0									
Tetrachloroethene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	52.19	0	50	0	104	63.1	120	0	0		
Surr: Dibromofluoromethane	56.48	0	50	0	113	73.8	118	0	0		
Surr: Toluene-d8	53.99	0	50	0	108	75.1	120	0	0		

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

BRL Below Reporting Limit
 J Analyte detected below quantitation limits
 S Spike Recovery outside accepted recovery limits

E Value above quantitation range
 N Analyte not NELAC certified

CLIENT: Conestoga, Rovers, & Associates, Inc.
 Work Order: 0704545
 Project: Birdsong Peanut

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_TCL4.2_W

Sample ID: MB-85110	SampType: MBLK	TestCode: 8260_TCL4.2	Units: µg/L	Prep Date: 4/16/2007	RunNo: 102794						
Client ID:	Batch ID: 85110	TestNo: SW8260B		Analysis Date: 4/17/2007	SeqNo: 2068553						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chloroethane	BRL	10									
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Freon-113	BRL	10									
Methylene chloride	BRL	5.0									
Tetrachloroethene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	50.06	0	50	0	100	63.1	120	0	0		
Surr: Dibromofluoromethane	56.35	0	50	0	113	73.8	118	0	0		
Surr: Toluene-d8	56.16	0	50	0	112	75.1	120	0	0		

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

BRL Below Reporting Limit
 J Analyte detected below quantitation limits
 S Spike Recovery outside accepted recovery limits

E Value above quantitation range
 N Analyte not NELAC certified

CLIENT: Conestoga, Rovers, & Associates, Inc.
 Work Order: 0704545
 Project: Birdsong Peanut

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_TCL4.2_W

Sample ID: LCS-85110	SampType: LCS	TestCode: 8260_TCL4.2	Units: µg/L	Prep Date: 4/16/2007	RunNo: 102784						
Client ID:	Batch ID: 85110	TestNo: SW8260B		Analysis Date: 4/16/2007	SeqNo: 2068156						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	75.22	5.0	50	0	150	67.3	177	0	0		
Trichloroethene	53.78	5.0	50	0	108	73.8	137	0	0		
Surr: 4-Bromofluorobenzene	51.43	0	50	0	103	63.1	120	0	0		
Surr: Dibromofluoromethane	54.7	0	50	0	109	73.8	118	0	0		
Surr: Toluene-d8	54.05	0	50	0	108	75.1	120	0	0		

Sample ID: 0704644-004AMS	SampType: MS	TestCode: 8260_TCL4.2	Units: µg/L	Prep Date: 4/16/2007	RunNo: 102784						
Client ID:	Batch ID: 85110	TestNo: SW8260B		Analysis Date: 4/16/2007	SeqNo: 2068182						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	58.2	5.0	50	0	116	62.7	183	0	0		
Trichloroethene	47.79	5.0	50	0	95.6	70.1	138	0	0		
Surr: 4-Bromofluorobenzene	50.34	0	50	0	101	63.1	120	0	0		
Surr: Dibromofluoromethane	49.79	0	50	0	99.6	73.8	118	0	0		
Surr: Toluene-d8	51.19	0	50	0	102	75.1	120	0	0		

Sample ID: 0704644-004AMSD	SampType: MSD	TestCode: 8260_TCL4.2	Units: µg/L	Prep Date: 4/16/2007	RunNo: 102784						
Client ID:	Batch ID: 85110	TestNo: SW8260B		Analysis Date: 4/16/2007	SeqNo: 2068190						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	52.16	5.0	50	0	104	62.7	183	58.2	10.9	20	
Trichloroethene	45.66	5.0	50	0	91.3	70.1	138	47.79	4.56	20	
Surr: 4-Bromofluorobenzene	49.7	0	50	0	99.4	63.1	120	50.34	0	0	
Surr: Dibromofluoromethane	52.36	0	50	0	105	73.8	118	49.79	0	0	
Surr: Toluene-d8	55.75	0	50	0	112	75.1	120	51.19	0	0	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

BRL Below Reporting Limit
 J Analyte detected below quantitation limits
 S Spike Recovery outside accepted recovery limits

E Value above quantitation range
 N Analyte not NELAC certified

CLIENT: Conestoga, Rovers, & Associates, Inc.
 Work Order: 0704545
 Project: Birdsong Peanut

ANALYTICAL QC SUMMARY REPORT

TestCode: 9056_W

Sample ID: MB-R102689	SampType: MBLK	TestCode: 9056_W	Units: mg/L	Prep Date:	RunNo: 102689						
Client ID:	Batch ID: R102689	TestNo: SW9056		Analysis Date: 4/13/2007	SeqNo: 2065858						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride	BRL	1.0									
Sulfate	BRL	1.0									

Sample ID: LCS-R102689	SampType: LCS	TestCode: 9056_W	Units: mg/L	Prep Date:	RunNo: 102689						
Client ID:	Batch ID: R102689	TestNo: SW9056		Analysis Date: 4/13/2007	SeqNo: 2065857						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride	10.38	1.0	10	0.06	103	90	110	0	0		
Sulfate	24.7	1.0	25	0	98.8	90	110	0	0		

Sample ID: 0704545-001CMS	SampType: MS	TestCode: 9056_W	Units: mg/L	Prep Date:	RunNo: 102689						
Client ID: GW-041007 DJB-101	Batch ID: R102689	TestNo: SW9056		Analysis Date: 4/13/2007	SeqNo: 2065867						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride	1180	100	1000	160	102	90	110	0	0		
Sulfate	2679	100	2500	81	104	90	110	0	0		

Sample ID: 0704545-001CMSD	SampType: MSD	TestCode: 9056_W	Units: mg/L	Prep Date:	RunNo: 102689						
Client ID: GW-041007 DJB-101	Batch ID: R102689	TestNo: SW9056		Analysis Date: 4/13/2007	SeqNo: 2065868						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride	1211	100	1000	160	105	90	110	1180	2.59	20	
Sulfate	2636	100	2500	81	102	90	110	2679	1.62	20	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

BRL Below Reporting Limit
 J Analyte detected below quantitation limits
 S Spike Recovery outside accepted recovery limits

E Value above quantitation range
 N Analyte not NELAC certified



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

JAN 11 2007

December 28, 2006

Mike Reinhardt
Conestoga, Rovers, & Associates, Inc.
1412 Oakbrook Dr
Suite 180
Norcross, GA 30093

TEL: (770) 441-0027

FAX: (770) 441-2050

RE: Birdsong Peanut

Dear Mike Reinhardt:

Order No.: 0612B68

Analytical Environmental Services, Inc. received 12 samples on 12/21/2006 9:20:00 AM for the analyses presented in the following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.


AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water, effective 06/01/06-06/30/07.
- AIHA Certification number 505 for analysis of Industrial Hygiene samples (Organics, Inorganics), Paint Chips, Soil and Dust Wipes, effective until 02/01/07.

These results relate only to the items tested. This report may only be reproduced in full and contains 18 total pages (including cover letter).

If you have any questions regarding these test results, please feel free to call.

Sincerely,

 Mirzeka Karavic
Sherri Hernandez
Project Manager

#18283
#11165
MR
Analytical
Jan 15, 2006

16121500



AES

18283-01
Birdsong Peanut

PRINTED NAME: David Brytowski

TOTAL NUMBER OF CONTAINERS	22	HEALTH/CHEMICAL HAZARDS	
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DATE:	12/21/06
TIME:	0920

DATE:
TIME:

DATE: _____
TIME: _____

WAY BILL No.

RECEIVED FOR LABORATORY BY: _____

 DATE: _____ TIME: _____

No **CRA 03580**

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Conestoga

Work Order Number 0612B68

Checklist completed by Esoltych 12/21/16
Signature Date

Carrier name: FedEx ☐ UPS ☐ Courier ☐ Client ☒ US Mail ☐ Other ☐

Shipping container/cooler in good condition? Yes ☒ No ☐ Not Present ☐

Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☒

Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒

Container/Temp Blank temperature in compliance? ($4^{\circ}\text{C} \pm 2$)* Yes ☒ No ☐

Cooler #1 3.9°C Cooler #2 ☐ Cooler #3 ☐ Cooler #4 ☐ Cooler #5 ☐ Cooler #6 ☐

Chain of custody present? Yes ☒ No ☐

Chain of custody signed when relinquished and received? Yes ☒ No ☐

Chain of custody agrees with sample labels? Yes ☐ No ☒

Samples in proper container/bottle? Yes ☒ No ☐

Sample containers intact? Yes ☒ No ☐

Sufficient sample volume for indicated test? Yes ☒ No ☐

All samples received within holding time? Yes ☒ No ☐

Was TAT marked on the COC? Yes ☒ No ☐

Proceed with Standard TAT as per project history? Yes ☐ No ☐ Not Applicable ☒

Water - VOA vials have zero headspace? No VOA vials submitted Yes ☒ No ☐

Water - pH acceptable upon receipt? Yes ☒ No ☐ Not Applicable ☐

Adjusted? ☐ Checked by ☐

Sample Condition: Good ☒ Other(Explain) ☐

(For diffusive samples or AIHA lead) Is a known blank included? Yes ☐ No ☒

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Analytical Environmental Services, Inc.**Date:** 28-Dec-06**CLIENT:** Conestoga, Rovers, & Associates, Inc.**Project:** Birdsong Peanut**Lab Order:** 0612B68**CASE NARRATIVE**

An extra Trip Blank set was received but not listed on the COC. The Trip Blank was placed on hold.

Analytical Environmental Services, Inc.

Date: 28-Dec-06

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0612B68
Project: Birdsong Peanut
Lab ID: 0612B68-001A

Client Sample ID: GW-121906-SAG-001
Tag Number:
Collection Date: 12/19/2006 3:30:00 PM
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	BatchID	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B		(SW5030B)			Analyst: TMP
1,1,1-Trichloroethane	BRL	5.0		µg/L	79132	1	12/23/2006 11:54:00 A
1,1,2,2-Tetrachloroethane	BRL	5.0		µg/L	79132	1	12/23/2006 11:54:00 A
1,1,2-Trichloroethane	BRL	5.0		µg/L	79132	1	12/23/2006 11:54:00 A
1,1-Dichloroethane	BRL	5.0		µg/L	79132	1	12/23/2006 11:54:00 A
1,1-Dichloroethene	BRL	5.0		µg/L	79132	1	12/23/2006 11:54:00 A
1,2,4-Trichlorobenzene	BRL	5.0		µg/L	79132	1	12/23/2006 11:54:00 A
1,2-Dibromo-3-chloropropane	BRL	5.0		µg/L	79132	1	12/23/2006 11:54:00 A
1,2-Dichlorobenzene	BRL	5.0		µg/L	79132	1	12/23/2006 11:54:00 A
1,2-Dichloroethane	BRL	5.0		µg/L	79132	1	12/23/2006 11:54:00 A
1,2-Dichloropropane	BRL	5.0		µg/L	79132	1	12/23/2006 11:54:00 A
1,3-Dichlorobenzene	BRL	5.0		µg/L	79132	1	12/23/2006 11:54:00 A
1,4-Dichlorobenzene	BRL	5.0		µg/L	79132	1	12/23/2006 11:54:00 A
Bromodichloromethane	BRL	5.0		µg/L	79132	1	12/23/2006 11:54:00 A
Carbon tetrachloride	BRL	5.0		µg/L	79132	1	12/23/2006 11:54:00 A
Chlorobenzene	BRL	5.0		µg/L	79132	1	12/23/2006 11:54:00 A
Chloroethane	BRL	10		µg/L	79132	1	12/23/2006 11:54:00 A
Chloroform	BRL	5.0		µg/L	79132	1	12/23/2006 11:54:00 A
Chloromethane	BRL	10		µg/L	79132	1	12/23/2006 11:54:00 A
cis-1,2-Dichloroethene	BRL	5.0		µg/L	79132	1	12/23/2006 11:54:00 A
cis-1,3-Dichloropropene	BRL	5.0		µg/L	79132	1	12/23/2006 11:54:00 A
Dibromochloromethane	BRL	5.0		µg/L	79132	1	12/23/2006 11:54:00 A
Dichlorodifluoromethane	BRL	10		µg/L	79132	1	12/23/2006 11:54:00 A
Freon-113	BRL	10		µg/L	79132	1	12/23/2006 11:54:00 A
Methylene chloride	BRL	5.0		µg/L	79132	1	12/23/2006 11:54:00 A
Tetrachloroethene	BRL	5.0		µg/L	79132	1	12/23/2006 11:54:00 A
trans-1,2-Dichloroethene	BRL	5.0		µg/L	79132	1	12/23/2006 11:54:00 A
trans-1,3-Dichloropropene	BRL	5.0		µg/L	79132	1	12/23/2006 11:54:00 A
Trichloroethene	BRL	5.0		µg/L	79132	1	12/23/2006 11:54:00 A
Trichlorofluoromethane	BRL	5.0		µg/L	79132	1	12/23/2006 11:54:00 A
Vinyl chloride	BRL	2.0		µg/L	79132	1	12/23/2006 11:54:00 A
Surr: 4-Bromofluorobenzene	88.0	63.1-120		%REC	79132	1	12/23/2006 11:54:00 A
Surr: Dibromofluoromethane	103	73.8-118		%REC	79132	1	12/23/2006 11:54:00 A
Surr: Toluene-d8	98.5	75.1-120		%REC	79132	1	12/23/2006 11:54:00 A

Qualifiers: * Value exceeds Maximum Contaminant Level
 BRL Below Reporting Limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 Rpt Limit Reporting Limit

B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P NELAC analyte certification pending
 S Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: 28-Dec-06

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0612B68
Project: Birdsong Peanut
Lab ID: 0612B68-002A

Client Sample ID: GW-121906-SAG-002
Tag Number:
Collection Date: 12/19/2006 3:55:00 PM
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	BatchID	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B			(SW5030B)		Analyst: TMP
1,1,1-Trichloroethane	BRL	5.0		µg/L	79132	1	12/23/2006 12:20:00 F
1,1,2,2-Tetrachloroethane	BRL	5.0		µg/L	79132	1	12/23/2006 12:20:00 F
1,1,2-Trichloroethane	BRL	5.0		µg/L	79132	1	12/23/2006 12:20:00 F
1,1-Dichloroethane	BRL	5.0		µg/L	79132	1	12/23/2006 12:20:00 F
1,1-Dichloroethene	BRL	5.0		µg/L	79132	1	12/23/2006 12:20:00 F
1,2,4-Trichlorobenzene	BRL	5.0		µg/L	79132	1	12/23/2006 12:20:00 F
1,2-Dibromo-3-chloropropane	BRL	5.0		µg/L	79132	1	12/23/2006 12:20:00 F
1,2-Dichlorobenzene	BRL	5.0		µg/L	79132	1	12/23/2006 12:20:00 F
1,2-Dichloroethane	BRL	5.0		µg/L	79132	1	12/23/2006 12:20:00 F
1,2-Dichloropropane	BRL	5.0		µg/L	79132	1	12/23/2006 12:20:00 F
1,3-Dichlorobenzene	BRL	5.0		µg/L	79132	1	12/23/2006 12:20:00 F
1,4-Dichlorobenzene	BRL	5.0		µg/L	79132	1	12/23/2006 12:20:00 F
Bromodichloromethane	BRL	5.0		µg/L	79132	1	12/23/2006 12:20:00 F
Carbon tetrachloride	BRL	5.0		µg/L	79132	1	12/23/2006 12:20:00 F
Chlorobenzene	BRL	5.0		µg/L	79132	1	12/23/2006 12:20:00 F
Chloroethane	BRL	10		µg/L	79132	1	12/23/2006 12:20:00 F
Chloroform	BRL	5.0		µg/L	79132	1	12/23/2006 12:20:00 F
Chloromethane	BRL	10		µg/L	79132	1	12/23/2006 12:20:00 F
cis-1,2-Dichloroethene	BRL	5.0		µg/L	79132	1	12/23/2006 12:20:00 F
cis-1,3-Dichloropropene	BRL	5.0		µg/L	79132	1	12/23/2006 12:20:00 F
Dibromochloromethane	BRL	5.0		µg/L	79132	1	12/23/2006 12:20:00 F
Dichlorodifluoromethane	BRL	10		µg/L	79132	1	12/23/2006 12:20:00 F
Freon-113	BRL	10		µg/L	79132	1	12/23/2006 12:20:00 F
Methylene chloride	BRL	5.0		µg/L	79132	1	12/23/2006 12:20:00 F
Tetrachloroethene	BRL	5.0		µg/L	79132	1	12/23/2006 12:20:00 F
trans-1,2-Dichloroethene	BRL	5.0		µg/L	79132	1	12/23/2006 12:20:00 F
trans-1,3-Dichloropropene	BRL	5.0		µg/L	79132	1	12/23/2006 12:20:00 F
Trichloroethene	BRL	5.0		µg/L	79132	1	12/23/2006 12:20:00 F
Trichlorofluoromethane	BRL	5.0		µg/L	79132	1	12/23/2006 12:20:00 F
Vinyl chloride	BRL	2.0		µg/L	79132	1	12/23/2006 12:20:00 F
Surr: 4-Bromofluorobenzene	84.1	63.1-120		%REC	79132	1	12/23/2006 12:20:00 F
Surr: Dibromofluoromethane	98.3	73.8-118		%REC	79132	1	12/23/2006 12:20:00 F
Surr: Toluene-d8	99.0	75.1-120		%REC	79132	1	12/23/2006 12:20:00 F

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- BRL Below Reporting Limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- Rpt Limit Reporting Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P NELAC analyte certification pending
- S Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: 28-Dec-06

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0612B68
Project: Birdsong Peanut
Lab ID: 0612B68-003A

Client Sample ID: GW-121906-SAG-003
Tag Number:
Collection Date: 12/19/2006 4:50:00 PM
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	BatchID	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B			(SW5030B)		Analyst: TMP
1,1,1-Trichloroethane	BRL	5.0		µg/L	79132	1	12/23/2006 12:46:00 F
1,1,2,2-Tetrachloroethane	BRL	5.0		µg/L	79132	1	12/23/2006 12:46:00 F
1,1,2-Trichloroethane	BRL	5.0		µg/L	79132	1	12/23/2006 12:46:00 F
1,1-Dichloroethane	BRL	5.0		µg/L	79132	1	12/23/2006 12:46:00 F
1,1-Dichloroethene	BRL	5.0		µg/L	79132	1	12/23/2006 12:46:00 F
1,2,4-Trichlorobenzene	BRL	5.0		µg/L	79132	1	12/23/2006 12:46:00 F
1,2-Dibromo-3-chloropropane	BRL	5.0		µg/L	79132	1	12/23/2006 12:46:00 F
1,2-Dichlorobenzene	BRL	5.0		µg/L	79132	1	12/23/2006 12:46:00 F
1,2-Dichloroethane	BRL	5.0		µg/L	79132	1	12/23/2006 12:46:00 F
1,2-Dichloropropane	BRL	5.0		µg/L	79132	1	12/23/2006 12:46:00 F
1,3-Dichlorobenzene	BRL	5.0		µg/L	79132	1	12/23/2006 12:46:00 F
1,4-Dichlorobenzene	BRL	5.0		µg/L	79132	1	12/23/2006 12:46:00 F
Bromodichloromethane	BRL	5.0		µg/L	79132	1	12/23/2006 12:46:00 F
Carbon tetrachloride	BRL	5.0		µg/L	79132	1	12/23/2006 12:46:00 F
Chlorobenzene	BRL	5.0		µg/L	79132	1	12/23/2006 12:46:00 F
Chloroethane	BRL	10		µg/L	79132	1	12/23/2006 12:46:00 F
Chloroform	BRL	5.0		µg/L	79132	1	12/23/2006 12:46:00 F
Chloromethane	BRL	10		µg/L	79132	1	12/23/2006 12:46:00 F
cis-1,2-Dichloroethene	BRL	5.0		µg/L	79132	1	12/23/2006 12:46:00 F
cis-1,3-Dichloropropene	BRL	5.0		µg/L	79132	1	12/23/2006 12:46:00 F
Dibromochloromethane	BRL	5.0		µg/L	79132	1	12/23/2006 12:46:00 F
Dichlorodifluoromethane	BRL	10		µg/L	79132	1	12/23/2006 12:46:00 F
Freon-113	BRL	10		µg/L	79132	1	12/23/2006 12:46:00 F
Methylene chloride	5.6	5.0		µg/L	79132	1	12/23/2006 12:46:00 F
Tetrachloroethene	BRL	5.0		µg/L	79132	1	12/23/2006 12:46:00 F
trans-1,2-Dichloroethene	BRL	5.0		µg/L	79132	1	12/23/2006 12:46:00 F
trans-1,3-Dichloropropene	BRL	5.0		µg/L	79132	1	12/23/2006 12:46:00 F
Trichloroethene	BRL	5.0		µg/L	79132	1	12/23/2006 12:46:00 F
Trichlorofluoromethane	BRL	5.0		µg/L	79132	1	12/23/2006 12:46:00 F
Vinyl chloride	BRL	2.0		µg/L	79132	1	12/23/2006 12:46:00 F
Surr: 4-Bromofluorobenzene	84.0	63.1-120		%REC	79132	1	12/23/2006 12:46:00 F
Surr: Dibromofluoromethane	102	73.8-118		%REC	79132	1	12/23/2006 12:46:00 F
Surr: Toluene-d8	96.1	75.1-120		%REC	79132	1	12/23/2006 12:46:00 F

Qualifiers: * Value exceeds Maximum Contaminant Level
 BRL Below Reporting Limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 Rpt Limit Reporting Limit

B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P NELAC analyte certification pending
 S Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: 28-Dec-06

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0612B68
Project: Birdsong Peanut
Lab ID: 0612B68-004A

Client Sample ID: GW-122006-SAG-004
Tag Number:
Collection Date: 12/20/2006 10:10:00 AM
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	BatchID	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B			(SW5030B)		Analyst: TMP
1,1,1-Trichloroethane	BRL	5.0		µg/L	79132	1	12/23/2006 1:12:00 PM
1,1,2,2-Tetrachloroethane	BRL	5.0		µg/L	79132	1	12/23/2006 1:12:00 PM
1,1,2-Trichloroethane	BRL	5.0		µg/L	79132	1	12/23/2006 1:12:00 PM
1,1-Dichloroethane	BRL	5.0		µg/L	79132	1	12/23/2006 1:12:00 PM
1,1-Dichloroethene	BRL	5.0		µg/L	79132	1	12/23/2006 1:12:00 PM
1,2,4-Trichlorobenzene	BRL	5.0		µg/L	79132	1	12/23/2006 1:12:00 PM
1,2-Dibromo-3-chloropropane	BRL	5.0		µg/L	79132	1	12/23/2006 1:12:00 PM
1,2-Dichlorobenzene	BRL	5.0		µg/L	79132	1	12/23/2006 1:12:00 PM
1,2-Dichloroethane	BRL	5.0		µg/L	79132	1	12/23/2006 1:12:00 PM
1,2-Dichloropropane	BRL	5.0		µg/L	79132	1	12/23/2006 1:12:00 PM
1,3-Dichlorobenzene	BRL	5.0		µg/L	79132	1	12/23/2006 1:12:00 PM
1,4-Dichlorobenzene	BRL	5.0		µg/L	79132	1	12/23/2006 1:12:00 PM
Bromodichloromethane	BRL	5.0		µg/L	79132	1	12/23/2006 1:12:00 PM
Carbon tetrachloride	BRL	5.0		µg/L	79132	1	12/23/2006 1:12:00 PM
Chlorobenzene	BRL	5.0		µg/L	79132	1	12/23/2006 1:12:00 PM
Chloroethane	BRL	10		µg/L	79132	1	12/23/2006 1:12:00 PM
Chloroform	BRL	5.0		µg/L	79132	1	12/23/2006 1:12:00 PM
Chloromethane	BRL	10		µg/L	79132	1	12/23/2006 1:12:00 PM
cis-1,2-Dichloroethene	BRL	5.0		µg/L	79132	1	12/23/2006 1:12:00 PM
cis-1,3-Dichloropropene	BRL	5.0		µg/L	79132	1	12/23/2006 1:12:00 PM
Dibromochloromethane	BRL	5.0		µg/L	79132	1	12/23/2006 1:12:00 PM
Dichlorodifluoromethane	BRL	10		µg/L	79132	1	12/23/2006 1:12:00 PM
Freon-113	BRL	10		µg/L	79132	1	12/23/2006 1:12:00 PM
Methylene chloride	BRL	5.0		µg/L	79132	1	12/23/2006 1:12:00 PM
Tetrachloroethene	BRL	5.0		µg/L	79132	1	12/23/2006 1:12:00 PM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	79132	1	12/23/2006 1:12:00 PM
trans-1,3-Dichloropropene	BRL	5.0		µg/L	79132	1	12/23/2006 1:12:00 PM
Trichloroethene	BRL	5.0		µg/L	79132	1	12/23/2006 1:12:00 PM
Trichlorofluoromethane	BRL	5.0		µg/L	79132	1	12/23/2006 1:12:00 PM
Vinyl chloride	BRL	2.0		µg/L	79132	1	12/23/2006 1:12:00 PM
Surr: 4-Bromofluorobenzene	83.8	63.1-120		%REC	79132	1	12/23/2006 1:12:00 PM
Surr: Dibromofluoromethane	105	73.8-118		%REC	79132	1	12/23/2006 1:12:00 PM
Surr: Toluene-d8	105	75.1-120		%REC	79132	1	12/23/2006 1:12:00 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- BRL Below Reporting Limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- Rpt Limit Reporting Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P NELAC analyte certification pending
- S Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: 28-Dec-06

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0612B68
Project: Birdsong Peanut
Lab ID: 0612B68-005A

Client Sample ID: GW-122006-SAG-005
Tag Number:
Collection Date: 12/20/2006 10:45:00 AM
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	BatchID	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B		(SW5030B)		Analyst: TMP	
1,1,1-Trichloroethane	BRL	5.0		µg/L	79132	1	12/23/2006 1:38:00 PM
1,1,2,2-Tetrachloroethane	BRL	5.0		µg/L	79132	1	12/23/2006 1:38:00 PM
1,1,2-Trichloroethane	BRL	5.0		µg/L	79132	1	12/23/2006 1:38:00 PM
1,1-Dichloroethane	BRL	5.0		µg/L	79132	1	12/23/2006 1:38:00 PM
1,1-Dichloroethene	BRL	5.0		µg/L	79132	1	12/23/2006 1:38:00 PM
1,2,4-Trichlorobenzene	BRL	5.0		µg/L	79132	1	12/23/2006 1:38:00 PM
1,2-Dibromo-3-chloropropane	BRL	5.0		µg/L	79132	1	12/23/2006 1:38:00 PM
1,2-Dichlorobenzene	BRL	5.0		µg/L	79132	1	12/23/2006 1:38:00 PM
1,2-Dichloroethane	BRL	5.0		µg/L	79132	1	12/23/2006 1:38:00 PM
1,2-Dichloropropane	BRL	5.0		µg/L	79132	1	12/23/2006 1:38:00 PM
1,3-Dichlorobenzene	BRL	5.0		µg/L	79132	1	12/23/2006 1:38:00 PM
1,4-Dichlorobenzene	BRL	5.0		µg/L	79132	1	12/23/2006 1:38:00 PM
Bromodichloromethane	BRL	5.0		µg/L	79132	1	12/23/2006 1:38:00 PM
Carbon tetrachloride	BRL	5.0		µg/L	79132	1	12/23/2006 1:38:00 PM
Chlorobenzene	BRL	5.0		µg/L	79132	1	12/23/2006 1:38:00 PM
Chloroethane	BRL	10		µg/L	79132	1	12/23/2006 1:38:00 PM
Chloroform	BRL	5.0		µg/L	79132	1	12/23/2006 1:38:00 PM
Chloromethane	BRL	10		µg/L	79132	1	12/23/2006 1:38:00 PM
cis-1,2-Dichloroethene	BRL	5.0		µg/L	79132	1	12/23/2006 1:38:00 PM
cis-1,3-Dichloropropene	BRL	5.0		µg/L	79132	1	12/23/2006 1:38:00 PM
Dibromochloromethane	BRL	5.0		µg/L	79132	1	12/23/2006 1:38:00 PM
Dichlorodifluoromethane	BRL	10		µg/L	79132	1	12/23/2006 1:38:00 PM
Freon-113	BRL	10		µg/L	79132	1	12/23/2006 1:38:00 PM
Methylene chloride	BRL	5.0		µg/L	79132	1	12/23/2006 1:38:00 PM
Tetrachloroethene	BRL	5.0		µg/L	79132	1	12/23/2006 1:38:00 PM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	79132	1	12/23/2006 1:38:00 PM
trans-1,3-Dichloropropene	BRL	5.0		µg/L	79132	1	12/23/2006 1:38:00 PM
Trichloroethene	BRL	5.0		µg/L	79132	1	12/23/2006 1:38:00 PM
Trichlorofluoromethane	BRL	5.0		µg/L	79132	1	12/23/2006 1:38:00 PM
Vinyl chloride	BRL	2.0		µg/L	79132	1	12/23/2006 1:38:00 PM
Surr: 4-Bromofluorobenzene	84.0	63.1-120		%REC	79132	1	12/23/2006 1:38:00 PM
Surr: Dibromofluoromethane	112	73.8-118		%REC	79132	1	12/23/2006 1:38:00 PM
Surr: Toluene-d8	110	75.1-120		%REC	79132	1	12/23/2006 1:38:00 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- BRL Below Reporting Limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- Rpt Limit Reporting Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P NELAC analyte certification pending
- S Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: 28-Dec-06

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0612B68
Project: Birdsong Peanut
Lab ID: 0612B68-006A

Client Sample ID: GW-121906-DJB-101
Tag Number:
Collection Date: 12/19/2006 3:40:00 PM
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	BatchID	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B		(SW5030B)	Analyst: TMP		
1,1,1-Trichloroethane	BRL	5.0		µg/L	79132	1	12/23/2006 2:04:00 PM
1,1,2,2-Tetrachloroethane	BRL	5.0		µg/L	79132	1	12/23/2006 2:04:00 PM
1,1,2-Trichloroethane	BRL	5.0		µg/L	79132	1	12/23/2006 2:04:00 PM
1,1-Dichloroethane	BRL	5.0		µg/L	79132	1	12/23/2006 2:04:00 PM
1,1-Dichloroethene	BRL	5.0		µg/L	79132	1	12/23/2006 2:04:00 PM
1,2,4-Trichlorobenzene	BRL	5.0		µg/L	79132	1	12/23/2006 2:04:00 PM
1,2-Dibromo-3-chloropropane	BRL	5.0		µg/L	79132	1	12/23/2006 2:04:00 PM
1,2-Dichlorobenzene	BRL	5.0		µg/L	79132	1	12/23/2006 2:04:00 PM
1,2-Dichloroethane	BRL	5.0		µg/L	79132	1	12/23/2006 2:04:00 PM
1,2-Dichloropropane	BRL	5.0		µg/L	79132	1	12/23/2006 2:04:00 PM
1,3-Dichlorobenzene	BRL	5.0		µg/L	79132	1	12/23/2006 2:04:00 PM
1,4-Dichlorobenzene	BRL	5.0		µg/L	79132	1	12/23/2006 2:04:00 PM
Bromodichloromethane	BRL	5.0		µg/L	79132	1	12/23/2006 2:04:00 PM
Carbon tetrachloride	BRL	5.0		µg/L	79132	1	12/23/2006 2:04:00 PM
Chlorobenzene	BRL	5.0		µg/L	79132	1	12/23/2006 2:04:00 PM
Chloroethane	BRL	10		µg/L	79132	1	12/23/2006 2:04:00 PM
Chloroform	BRL	5.0		µg/L	79132	1	12/23/2006 2:04:00 PM
Chloromethane	BRL	10		µg/L	79132	1	12/23/2006 2:04:00 PM
cis-1,2-Dichloroethene	BRL	5.0		µg/L	79132	1	12/23/2006 2:04:00 PM
cis-1,3-Dichloropropene	BRL	5.0		µg/L	79132	1	12/23/2006 2:04:00 PM
Dibromochloromethane	BRL	5.0		µg/L	79132	1	12/23/2006 2:04:00 PM
Dichlorodifluoromethane	BRL	10		µg/L	79132	1	12/23/2006 2:04:00 PM
Freon-113	BRL	10		µg/L	79132	1	12/23/2006 2:04:00 PM
Methylene chloride	BRL	5.0		µg/L	79132	1	12/23/2006 2:04:00 PM
Tetrachloroethene	BRL	5.0		µg/L	79132	1	12/23/2006 2:04:00 PM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	79132	1	12/23/2006 2:04:00 PM
trans-1,3-Dichloropropene	BRL	5.0		µg/L	79132	1	12/23/2006 2:04:00 PM
Trichloroethene	BRL	5.0		µg/L	79132	1	12/23/2006 2:04:00 PM
Trichlorofluoromethane	BRL	5.0		µg/L	79132	1	12/23/2006 2:04:00 PM
Vinyl chloride	BRL	2.0		µg/L	79132	1	12/23/2006 2:04:00 PM
Surr: 4-Bromofluorobenzene	86.6	63.1-120		%REC	79132	1	12/23/2006 2:04:00 PM
Surr: Dibromofluoromethane	104	73.8-118		%REC	79132	1	12/23/2006 2:04:00 PM
Surr: Toluene-d8	101	75.1-120		%REC	79132	1	12/23/2006 2:04:00 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	N	Analyte not NELAC certified	P	NELAC analyte certification pending
	Rpt Limit	Reporting Limit	S	Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: 28-Dec-06

CLIENT: Conestoga, Rovers, & Associates, Inc.
 Lab Order: 0612B68
 Project: Birdsong Peanut
 Lab ID: 0612B68-007A

Client Sample ID: GW-121906-DJB-102
 Tag Number:
 Collection Date: 12/19/2006 5:10:00 PM
 Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	BatchID	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B		(SW5030B)			Analyst: TMP
1,1,1-Trichloroethane	BRL	5.0		µg/L	79132	1	12/23/2006 2:29:00 PM
1,1,2,2-Tetrachloroethane	BRL	5.0		µg/L	79132	1	12/23/2006 2:29:00 PM
1,1,2-Trichloroethane	BRL	5.0		µg/L	79132	1	12/23/2006 2:29:00 PM
1,1-Dichloroethane	BRL	5.0		µg/L	79132	1	12/23/2006 2:29:00 PM
1,1-Dichloroethene	BRL	5.0		µg/L	79132	1	12/23/2006 2:29:00 PM
1,2,4-Trichlorobenzene	BRL	5.0		µg/L	79132	1	12/23/2006 2:29:00 PM
1,2-Dibromo-3-chloropropane	BRL	5.0		µg/L	79132	1	12/23/2006 2:29:00 PM
1,2-Dichlorobenzene	BRL	5.0		µg/L	79132	1	12/23/2006 2:29:00 PM
1,2-Dichloroethane	BRL	5.0		µg/L	79132	1	12/23/2006 2:29:00 PM
1,2-Dichloropropane	BRL	5.0		µg/L	79132	1	12/23/2006 2:29:00 PM
1,3-Dichlorobenzene	BRL	5.0		µg/L	79132	1	12/23/2006 2:29:00 PM
1,4-Dichlorobenzene	BRL	5.0		µg/L	79132	1	12/23/2006 2:29:00 PM
Bromodichloromethane	BRL	5.0		µg/L	79132	1	12/23/2006 2:29:00 PM
Carbon tetrachloride	BRL	5.0		µg/L	79132	1	12/23/2006 2:29:00 PM
Chlorobenzene	BRL	5.0		µg/L	79132	1	12/23/2006 2:29:00 PM
Chloroethane	BRL	10		µg/L	79132	1	12/23/2006 2:29:00 PM
Chloroform	BRL	5.0		µg/L	79132	1	12/23/2006 2:29:00 PM
Chloromethane	BRL	10		µg/L	79132	1	12/23/2006 2:29:00 PM
cis-1,2-Dichloroethene	BRL	5.0		µg/L	79132	1	12/23/2006 2:29:00 PM
cis-1,3-Dichloropropene	BRL	5.0		µg/L	79132	1	12/23/2006 2:29:00 PM
Dibromochloromethane	BRL	5.0		µg/L	79132	1	12/23/2006 2:29:00 PM
Dichlorodifluoromethane	BRL	10		µg/L	79132	1	12/23/2006 2:29:00 PM
Freon-113	BRL	10		µg/L	79132	1	12/23/2006 2:29:00 PM
Methylene chloride	BRL	5.0		µg/L	79132	1	12/23/2006 2:29:00 PM
Tetrachloroethene	BRL	5.0		µg/L	79132	1	12/23/2006 2:29:00 PM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	79132	1	12/23/2006 2:29:00 PM
trans-1,3-Dichloropropene	BRL	5.0		µg/L	79132	1	12/23/2006 2:29:00 PM
Trichloroethene	BRL	5.0		µg/L	79132	1	12/23/2006 2:29:00 PM
Trichlorofluoromethane	BRL	5.0		µg/L	79132	1	12/23/2006 2:29:00 PM
Vinyl chloride	BRL	2.0		µg/L	79132	1	12/23/2006 2:29:00 PM
Surr: 4-Bromofluorobenzene	84.5	63.1-120		%REC	79132	1	12/23/2006 2:29:00 PM
Surr: Dibromofluoromethane	105	73.8-118		%REC	79132	1	12/23/2006 2:29:00 PM
Surr: Toluene-d8	98.7	75.1-120		%REC	79132	1	12/23/2006 2:29:00 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- BRL Below Reporting Limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- Rpt Limit Reporting Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P NELAC analyte certification pending
- S Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: 28-Dec-06

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0612B68
Project: Birdsong Peanut
Lab ID: 0612B68-008A

Client Sample ID: GW-122006-DJB-103
Tag Number:
Collection Date: 12/20/2006 9:40:00 AM
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	BatchID	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B		(SW5030B)		Analyst: TMP	
1,1,1-Trichloroethane	BRL	5.0		µg/L	79132	1	12/23/2006 2:55:00 PM
1,1,2,2-Tetrachloroethane	BRL	5.0		µg/L	79132	1	12/23/2006 2:55:00 PM
1,1,2-Trichloroethane	BRL	5.0		µg/L	79132	1	12/23/2006 2:55:00 PM
1,1-Dichloroethane	BRL	5.0		µg/L	79132	1	12/23/2006 2:55:00 PM
1,1-Dichloroethene	BRL	5.0		µg/L	79132	1	12/23/2006 2:55:00 PM
1,2,4-Trichlorobenzene	BRL	5.0		µg/L	79132	1	12/23/2006 2:55:00 PM
1,2-Dibromo-3-chloropropane	BRL	5.0		µg/L	79132	1	12/23/2006 2:55:00 PM
1,2-Dichlorobenzene	BRL	5.0		µg/L	79132	1	12/23/2006 2:55:00 PM
1,2-Dichloroethane	BRL	5.0		µg/L	79132	1	12/23/2006 2:55:00 PM
1,2-Dichloropropane	BRL	5.0		µg/L	79132	1	12/23/2006 2:55:00 PM
1,3-Dichlorobenzene	BRL	5.0		µg/L	79132	1	12/23/2006 2:55:00 PM
1,4-Dichlorobenzene	BRL	5.0		µg/L	79132	1	12/23/2006 2:55:00 PM
Bromodichloromethane	BRL	5.0		µg/L	79132	1	12/23/2006 2:55:00 PM
Carbon tetrachloride	BRL	5.0		µg/L	79132	1	12/23/2006 2:55:00 PM
Chlorobenzene	BRL	5.0		µg/L	79132	1	12/23/2006 2:55:00 PM
Chloroethane	BRL	10		µg/L	79132	1	12/23/2006 2:55:00 PM
Chloroform	BRL	5.0		µg/L	79132	1	12/23/2006 2:55:00 PM
Chloromethane	BRL	10		µg/L	79132	1	12/23/2006 2:55:00 PM
cis-1,2-Dichloroethene	BRL	5.0		µg/L	79132	1	12/23/2006 2:55:00 PM
cis-1,3-Dichloropropene	BRL	5.0		µg/L	79132	1	12/23/2006 2:55:00 PM
Dibromochloromethane	BRL	5.0		µg/L	79132	1	12/23/2006 2:55:00 PM
Dichlorodifluoromethane	BRL	10		µg/L	79132	1	12/23/2006 2:55:00 PM
Freon-113	BRL	10		µg/L	79132	1	12/23/2006 2:55:00 PM
Methylene chloride	BRL	5.0		µg/L	79132	1	12/23/2006 2:55:00 PM
Tetrachloroethene	BRL	5.0		µg/L	79132	1	12/23/2006 2:55:00 PM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	79132	1	12/23/2006 2:55:00 PM
trans-1,3-Dichloropropene	BRL	5.0		µg/L	79132	1	12/23/2006 2:55:00 PM
Trichloroethene	BRL	5.0		µg/L	79132	1	12/23/2006 2:55:00 PM
Trichlorofluoromethane	BRL	5.0		µg/L	79132	1	12/23/2006 2:55:00 PM
Vinyl chloride	BRL	2.0		µg/L	79132	1	12/23/2006 2:55:00 PM
Surr: 4-Bromofluorobenzene	83.9	63.1-120		%REC	79132	1	12/23/2006 2:55:00 PM
Surr: Dibromofluoromethane	104	73.8-118		%REC	79132	1	12/23/2006 2:55:00 PM
Surr: Toluene-d8	96.6	75.1-120		%REC	79132	1	12/23/2006 2:55:00 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- BRL Below Reporting Limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- Rpt Limit Reporting Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P NELAC analyte certification pending
- S Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: 28-Dec-06

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0612B68
Project: Birdsong Peanut
Lab ID: 0612B68-009A

Client Sample ID: GW-122006-DJB-104
Tag Number:
Collection Date: 12/20/2006 10:25:00 AM
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	BatchID	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B		(SW5030B)	Analyst: TMP		
1,1,1-Trichloroethane	BRL	5.0		µg/L	79132	1	12/23/2006 3:20:00 PM
1,1,2,2-Tetrachloroethane	BRL	5.0		µg/L	79132	1	12/23/2006 3:20:00 PM
1,1,2-Trichloroethane	BRL	5.0		µg/L	79132	1	12/23/2006 3:20:00 PM
1,1-Dichloroethane	BRL	5.0		µg/L	79132	1	12/23/2006 3:20:00 PM
1,1-Dichloroethene	BRL	5.0		µg/L	79132	1	12/23/2006 3:20:00 PM
1,2,4-Trichlorobenzene	BRL	5.0		µg/L	79132	1	12/23/2006 3:20:00 PM
1,2-Dibromo-3-chloropropane	BRL	5.0		µg/L	79132	1	12/23/2006 3:20:00 PM
1,2-Dichlorobenzene	BRL	5.0		µg/L	79132	1	12/23/2006 3:20:00 PM
1,2-Dichloroethane	BRL	5.0		µg/L	79132	1	12/23/2006 3:20:00 PM
1,2-Dichloropropane	BRL	5.0		µg/L	79132	1	12/23/2006 3:20:00 PM
1,3-Dichlorobenzene	BRL	5.0		µg/L	79132	1	12/23/2006 3:20:00 PM
1,4-Dichlorobenzene	BRL	5.0		µg/L	79132	1	12/23/2006 3:20:00 PM
Bromodichloromethane	BRL	5.0		µg/L	79132	1	12/23/2006 3:20:00 PM
Carbon tetrachloride	BRL	5.0		µg/L	79132	1	12/23/2006 3:20:00 PM
Chlorobenzene	BRL	5.0		µg/L	79132	1	12/23/2006 3:20:00 PM
Chloroethane	BRL	10		µg/L	79132	1	12/23/2006 3:20:00 PM
Chloroform	BRL	5.0		µg/L	79132	1	12/23/2006 3:20:00 PM
Chloromethane	BRL	10		µg/L	79132	1	12/23/2006 3:20:00 PM
cis-1,2-Dichloroethene	BRL	5.0		µg/L	79132	1	12/23/2006 3:20:00 PM
cis-1,3-Dichloropropene	BRL	5.0		µg/L	79132	1	12/23/2006 3:20:00 PM
Dibromochloromethane	BRL	5.0		µg/L	79132	1	12/23/2006 3:20:00 PM
Dichlorodifluoromethane	BRL	10		µg/L	79132	1	12/23/2006 3:20:00 PM
Freon-113	BRL	10		µg/L	79132	1	12/23/2006 3:20:00 PM
Methylene chloride	BRL	5.0		µg/L	79132	1	12/23/2006 3:20:00 PM
Tetrachloroethene	10	5.0		µg/L	79132	1	12/23/2006 3:20:00 PM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	79132	1	12/23/2006 3:20:00 PM
trans-1,3-Dichloropropene	BRL	5.0		µg/L	79132	1	12/23/2006 3:20:00 PM
Trichloroethene	BRL	5.0		µg/L	79132	1	12/23/2006 3:20:00 PM
Trichlorofluoromethane	BRL	5.0		µg/L	79132	1	12/23/2006 3:20:00 PM
Vinyl chloride	BRL	2.0		µg/L	79132	1	12/23/2006 3:20:00 PM
Surr: 4-Bromofluorobenzene	85.0	63.1-120		%REC	79132	1	12/23/2006 3:20:00 PM
Surr: Dibromofluoromethane	102	73.8-118		%REC	79132	1	12/23/2006 3:20:00 PM
Surr: Toluene-d8	99.5	75.1-120		%REC	79132	1	12/23/2006 3:20:00 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- BRL Below Reporting Limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- Rpt Limit Reporting Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P NELAC analyte certification pending
- S Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: 28-Dec-06

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0612B68
Project: Birdsong Peanut
Lab ID: 0612B68-010A

Client Sample ID: GW-122006-DJB-105
Tag Number:
Collection Date: 12/20/2006 11:40:00 AM
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	BatchID	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B			(SW5030B)		Analyst: TMP
1,1,1-Trichloroethane	BRL	5.0		µg/L	79132	1	12/23/2006 3:45:00 PM
1,1,2,2-Tetrachloroethane	BRL	5.0		µg/L	79132	1	12/23/2006 3:45:00 PM
1,1,2-Trichloroethane	BRL	5.0		µg/L	79132	1	12/23/2006 3:45:00 PM
1,1-Dichloroethane	BRL	5.0		µg/L	79132	1	12/23/2006 3:45:00 PM
1,1-Dichloroethene	BRL	5.0		µg/L	79132	1	12/23/2006 3:45:00 PM
1,2,4-Trichlorobenzene	BRL	5.0		µg/L	79132	1	12/23/2006 3:45:00 PM
1,2-Dibromo-3-chloropropane	BRL	5.0		µg/L	79132	1	12/23/2006 3:45:00 PM
1,2-Dichlorobenzene	BRL	5.0		µg/L	79132	1	12/23/2006 3:45:00 PM
1,2-Dichloroethane	BRL	5.0		µg/L	79132	1	12/23/2006 3:45:00 PM
1,2-Dichloropropane	BRL	5.0		µg/L	79132	1	12/23/2006 3:45:00 PM
1,3-Dichlorobenzene	BRL	5.0		µg/L	79132	1	12/23/2006 3:45:00 PM
1,4-Dichlorobenzene	BRL	5.0		µg/L	79132	1	12/23/2006 3:45:00 PM
Bromodichloromethane	BRL	5.0		µg/L	79132	1	12/23/2006 3:45:00 PM
Carbon tetrachloride	BRL	5.0		µg/L	79132	1	12/23/2006 3:45:00 PM
Chlorobenzene	BRL	5.0		µg/L	79132	1	12/23/2006 3:45:00 PM
Chloroethane	BRL	10		µg/L	79132	1	12/23/2006 3:45:00 PM
Chloroform	BRL	5.0		µg/L	79132	1	12/23/2006 3:45:00 PM
Chloromethane	BRL	10		µg/L	79132	1	12/23/2006 3:45:00 PM
cis-1,2-Dichloroethene	BRL	5.0		µg/L	79132	1	12/23/2006 3:45:00 PM
cis-1,3-Dichloropropene	BRL	5.0		µg/L	79132	1	12/23/2006 3:45:00 PM
Dibromochloromethane	BRL	5.0		µg/L	79132	1	12/23/2006 3:45:00 PM
Dichlorodifluoromethane	BRL	10		µg/L	79132	1	12/23/2006 3:45:00 PM
Freon-113	BRL	10		µg/L	79132	1	12/23/2006 3:45:00 PM
Methylene chloride	BRL	5.0		µg/L	79132	1	12/23/2006 3:45:00 PM
Tetrachloroethene	BRL	5.0		µg/L	79132	1	12/23/2006 3:45:00 PM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	79132	1	12/23/2006 3:45:00 PM
trans-1,3-Dichloropropene	BRL	5.0		µg/L	79132	1	12/23/2006 3:45:00 PM
Trichloroethene	BRL	5.0		µg/L	79132	1	12/23/2006 3:45:00 PM
Trichlorofluoromethane	BRL	5.0		µg/L	79132	1	12/23/2006 3:45:00 PM
Vinyl chloride	BRL	2.0		µg/L	79132	1	12/23/2006 3:45:00 PM
Surr: 4-Bromofluorobenzene	85.0	63.1-120		%REC	79132	1	12/23/2006 3:45:00 PM
Surr: Dibromofluoromethane	99.6	73.8-118		%REC	79132	1	12/23/2006 3:45:00 PM
Surr: Toluene-d8	98.4	75.1-120		%REC	79132	1	12/23/2006 3:45:00 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- BRL Below Reporting Limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- Rpt Limit Reporting Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P NELAC analyte certification pending
- S Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: 28-Dec-06

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0612B68
Project: Birdsong Peanut
Lab ID: 0612B68-011A

Client Sample ID: TRIP BLANK 1
Tag Number:
Collection Date: 12/21/2006
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	BatchID	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B		(SW5030B)			Analyst: TMP
1,1,1-Trichloroethane	BRL	5.0		µg/L	79132	1	12/23/2006 10:10:00 A
1,1,2,2-Tetrachloroethane	BRL	5.0		µg/L	79132	1	12/23/2006 10:10:00 A
1,1,2-Trichloroethane	BRL	5.0		µg/L	79132	1	12/23/2006 10:10:00 A
1,1-Dichloroethane	BRL	5.0		µg/L	79132	1	12/23/2006 10:10:00 A
1,1-Dichloroethene	BRL	5.0		µg/L	79132	1	12/23/2006 10:10:00 A
1,2,4-Trichlorobenzene	BRL	5.0		µg/L	79132	1	12/23/2006 10:10:00 A
1,2-Dibromo-3-chloropropane	BRL	5.0		µg/L	79132	1	12/23/2006 10:10:00 A
1,2-Dichlorobenzene	BRL	5.0		µg/L	79132	1	12/23/2006 10:10:00 A
1,2-Dichloroethane	BRL	5.0		µg/L	79132	1	12/23/2006 10:10:00 A
1,2-Dichloropropane	BRL	5.0		µg/L	79132	1	12/23/2006 10:10:00 A
1,3-Dichlorobenzene	BRL	5.0		µg/L	79132	1	12/23/2006 10:10:00 A
1,4-Dichlorobenzene	BRL	5.0		µg/L	79132	1	12/23/2006 10:10:00 A
Bromodichloromethane	BRL	5.0		µg/L	79132	1	12/23/2006 10:10:00 A
Carbon tetrachloride	BRL	5.0		µg/L	79132	1	12/23/2006 10:10:00 A
Chlorobenzene	BRL	5.0		µg/L	79132	1	12/23/2006 10:10:00 A
Chloroethane	BRL	10		µg/L	79132	1	12/23/2006 10:10:00 A
Chloroform	BRL	5.0		µg/L	79132	1	12/23/2006 10:10:00 A
Chloromethane	BRL	10		µg/L	79132	1	12/23/2006 10:10:00 A
cis-1,2-Dichloroethene	BRL	5.0		µg/L	79132	1	12/23/2006 10:10:00 A
cis-1,3-Dichloropropene	BRL	5.0		µg/L	79132	1	12/23/2006 10:10:00 A
Dibromochloromethane	BRL	5.0		µg/L	79132	1	12/23/2006 10:10:00 A
Dichlorodifluoromethane	BRL	10		µg/L	79132	1	12/23/2006 10:10:00 A
Freon-113	BRL	10		µg/L	79132	1	12/23/2006 10:10:00 A
Methylene chloride	BRL	5.0		µg/L	79132	1	12/23/2006 10:10:00 A
Tetrachloroethene	BRL	5.0		µg/L	79132	1	12/23/2006 10:10:00 A
trans-1,2-Dichloroethene	BRL	5.0		µg/L	79132	1	12/23/2006 10:10:00 A
trans-1,3-Dichloropropene	BRL	5.0		µg/L	79132	1	12/23/2006 10:10:00 A
Trichloroethene	BRL	5.0		µg/L	79132	1	12/23/2006 10:10:00 A
Trichlorofluoromethane	BRL	5.0		µg/L	79132	1	12/23/2006 10:10:00 A
Vinyl chloride	BRL	2.0		µg/L	79132	1	12/23/2006 10:10:00 A
Surr: 4-Bromofluorobenzene	86.4	63.1-120		%REC	79132	1	12/23/2006 10:10:00 A
Surr: Dibromofluoromethane	113	73.8-118		%REC	79132	1	12/23/2006 10:10:00 A
Surr: Toluene-d8	110	75.1-120		%REC	79132	1	12/23/2006 10:10:00 A

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	N	Analyte not NELAC certified	P	NELAC analyte certification pending
	Rpt Limit	Reporting Limit	S	Spike Recovery outside accepted recovery limits

CLIENT: Conestoga, Rovers, & Associates, Inc.
 Work Order: 0612B68
 Project: Birdsong Peanut

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_TCL4.2_W

Sample ID: MB-79132	SampType: MBLK	TestCode: 8260_TCL4.2	Units: µg/L	Prep Date: 12/23/2006	RunNo: 96475						
Client ID:	Batch ID: 79132	TestNo: SW8260B		Analysis Date: 12/23/2006	SeqNo: 1929068						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Freon-113	BRL	10									
Methylene chloride	BRL	5.0									
Tetrachloroethene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Conestoga, Rovers, & Associates, Inc.
Work Order: 0612B68
Project: Birdsong Peanut

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_TCL4.2_W

Sample ID: MB-79132	SampType: MBLK	TestCode: 8260_TCL4.2		Units: µg/L	Prep Date: 12/23/2006				RunNo: 96475		
Client ID:	Batch ID: 79132	TestNo: SW8260B			Analysis Date: 12/23/2006				SeqNo: 1929068		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	42.86	0	50	0	85.7	63.1	120	0	0		
Surr: Dibromofluoromethane	48.07	0	50	0	96.1	73.8	118	0	0		
Surr: Toluene-d8	49.84	0	50	0	99.7	75.1	120	0	0		

Sample ID: LCS-79132	SampType: LCS	TestCode: 8260_TCL4.2		Units: µg/L	Prep Date: 12/23/2006				RunNo: 96475		
Client ID:	Batch ID: 79132	TestNo: SW8260B			Analysis Date: 12/23/2006				SeqNo: 1929069		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	73.32	5.00	50	0	147	67.3	177	0	0		
Chlorobenzene	56.02	5.00	50	0	112	74.4	129	0	0		
Trichloroethene	55.59	5.00	50	0	111	73.8	137	0	0		
Surr: 4-Bromofluorobenzene	43.95	0	50	0	87.9	63.1	120	0	0		
Surr: Dibromofluoromethane	47.12	0	50	0	94.2	73.8	118	0	0		
Surr: Toluene-d8	47.35	0	50	0	94.7	75.1	120	0	0		

Sample ID: 0612B68-004AMS	SampType: MS	TestCode: 8260_TCL4.2		Units: µg/L	Prep Date: 12/23/2006				RunNo: 96475		
Client ID: GW-122006-SAG-00	Batch ID: 79132	TestNo: SW8260B			Analysis Date: 12/23/2006				SeqNo: 1929073		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	69.97	5.0	50	0	140	62.7	183	0	0		
Chlorobenzene	54.9	5.0	50	0	110	72.7	130	0	0		
Trichloroethene	52.21	5.0	50	0	104	70.1	138	0	0		
Surr: 4-Bromofluorobenzene	43.34	0	50	0	86.7	63.1	120	0	0		
Surr: Dibromofluoromethane	48.21	0	50	0	96.4	73.8	118	0	0		
Surr: Toluene-d8	47.01	0	50	0	94	75.1	120	0	0		

Qualifiers: B Analyte detected in the associated Method Blank BRL Below Reporting Limit E Value above quantitation range
 H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits N Analyte not NELAC certified
 R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

CLIENT: Conestoga, Rovers, & Associates, Inc.
Work Order: 0612B68
Project: Birdsong Peanut

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_TCL4.2_W

Sample ID: 0612B68-004AMSD	SampType: MSD	TestCode: 8260_TCL4.2	Units: µg/L	Prep Date: 12/23/2006	RunNo: 96475						
Client ID: GW-122006-SAG-00	Batch ID: 79132	TestNo: SW8260B		Analysis Date: 12/23/2006	SeqNo: 1929074						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	71.52	5.0	50	0	143	62.7	183	69.97	2.19	20	
Chlorobenzene	52.71	5.0	50	0	105	72.7	130	54.9	4.07	20	
Trichloroethene	54.42	5.0	50	0	109	70.1	138	52.21	4.15	20	
Surr: 4-Bromofluorobenzene	43.42	0	50	0	86.8	63.1	120	43.34	0	0	
Surr: Dibromofluoromethane	49.16	0	50	0	98.3	73.8	118	48.21	0	0	
Surr: Toluene-d8	49.09	0	50	0	98.2	75.1	120	47.01	0	0	

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

BRL Below Reporting Limit
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

E Value above quantitation range
N Analyte not NELAC certified

APPENDIX Q

2007 CRA GROUNDWATER SAMPLING SUMMARY UPDATE



**CONESTOGA-ROVERS
& ASSOCIATES**

1412 Oakbrook Drive, Suite 180, Norcross, GA 30093
Telephone: 770-441-0027 Facsimile: 770-441-2050
www.CRAworld.com

August 14, 2007

Reference No. 18283-02

Ms. Alexandra Cleary
Georgia Department of Natural Resources
Unit Coordinator
Hazardous Sites Response Program
2 Martin Luther King, Jr. Drive, SE, Suite 1462 East
Atlanta, Georgia 30334-9000

Dear Ms. Cleary:

Re: Update - Groundwater Sampling Summary
Birdsong Peanut (former Farmer's Feed and Milling Company), HSI 10710
Colquitt, Georgia

Conestoga-Rovers & Associates (CRA) is submitting this report of the results of samples collected at Birdsong Peanut on June 27, 2007. The sampling event was conducted 6 months following the full-scale injection of potassium permanganate at the above referenced Site. For background information regarding the full-scale injection, please reference the May 10, 2007 Groundwater Sampling Summary. The enclosed results indicate that no chlorinated VOCs were detected in the groundwater beneath the Site.

On June 27, 2007, a semiannual groundwater-sampling event was performed to evaluate the performance of the full-scale injection work. In accordance with the Corrective Action Plan (CAP), 10 monitoring wells were to be sampled for volatile organic compounds (VOCs). Two of the monitoring wells scheduled for the June sampling event (MW-14 and MW-16) were reported dry. Groundwater samples were collected from the following eight locations for analyses of chlorinated VOCs, select metals and ions: MW-5, MW-6, and MW-7D, MW-10, MW-11, MW-12, MW-13, and MW-17D. Monitoring well location MW-6 was also sampled for RCRA metals to provide a post-injection baseline for the following analytes: arsenic, barium, cadmium, chromium, lead, selenium and silver. Figure 1 illustrates the monitoring well locations that were sampled in June 2007.

Results show that the full-scale injection effectively removed the residual chlorinated VOCs from groundwater beneath the Site. Table 1 provides a comparison of the recent VOC analytical data with results dating back to 2001. Results for analyses of select ions as proposed in the CAP are provided in Table 2 and Table 3 summarizes the remaining metal results for MW-6. The laboratory report and sample key for the June 2007 sampling event are provided as Attachment A. Field parameter data for the June sampling event are provided in Attachment B and the field parameter data for the April 2007 sampling event are provided in Attachment C.



CONESTOGA-ROVERS
& ASSOCIATES

August 14, 2007

2

Reference No. 18283-02

No rebound or reappearance of VOCs has occurred since the full scale injection event. The injection did, as anticipated, result in a localized increase in the concentrations of potassium and manganese in some wells in the immediate area of injection. Such fluctuations are anticipated in the localized injection area and will dissipate with time and distance from the injection site.

In addition, chromium was detected in the groundwater sample collected from monitoring well MW-6 at a concentration nominally in excess of the Type 4 Risk Reduction Standard (RRS) for chromium VI but well below the Type 4 RRS for chromium III. The chromium was not speciated during this sampling event and the naturally occurring background concentrations for this site have not been previously determined. Based on experience at similar sites, chromium in soils may be temporarily mobilized during the injection of potassium permanganate. It is not known if the detected chromium is the result of such mobilization or naturally occurring. If mobilized by injection, the chromium would not be expected to persist in solution but would readily drop out in time or as it migrates from the immediate area of injection and groundwater conditions begin to return to background.

We trust that this update provides you with useful information concerning this Site. Based on these continued results, Birdsong Peanut appears to be appropriate for removal from the HSI. Please contact us if you have any questions at (770) 441-0027.

Yours truly,

CONESTOGA-ROVERS & ASSOCIATES

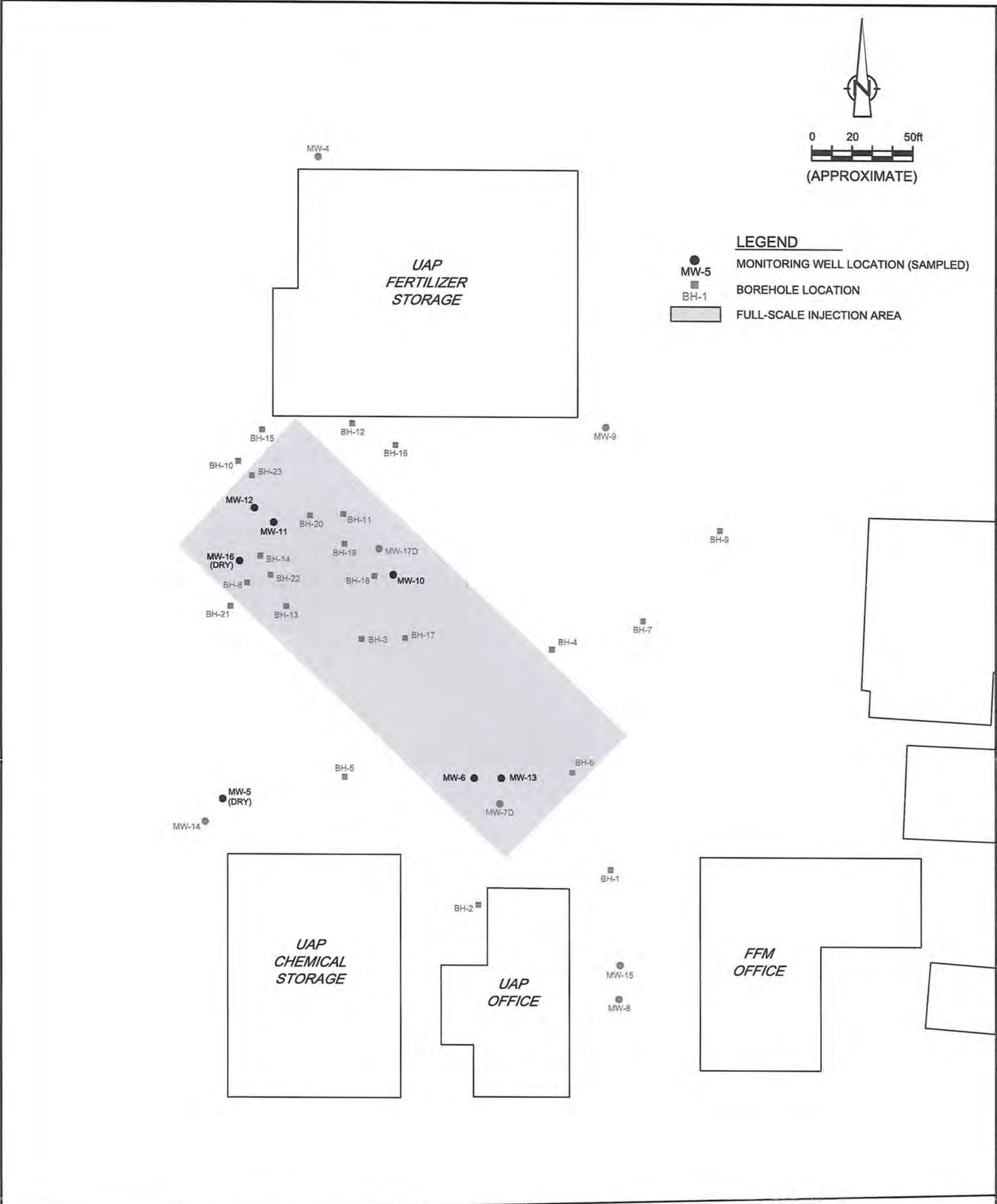


per Mike Reinhardt

MR/11

cc: Donna Balon, Man Group USA, Inc.
Les Oakes, King & Spalding
Robert Norman, Jones Cork & Mill

FIGURES



MAIN STREET (HIGHWAY 91)

figure 1
JUNE 2007 GROUNDWATER SAMPLE LOCATIONS
BIRDSONG PEANUT
FARMERS FEED AND MILLING COMPANY
Colquitt, Georgia

TABLES

TABLE 1

COMPARISON OF GROUNDWATER ANALYTICAL RESULTS
 BIRDSONG PEANUT
 FARMER'S FEED AND MILLING
 COLQUITT, GEORGIA

Sample Location	Sample Date	DCA (ug/L) CAS#75343	DCE (ug/L) CAS#75354	TCE (ug/L) CAS#79016	PCE (ug/L) CAS#127184	VC (ug/L) CAS#75014	Toluene (ug/L) CAS#108883
MW-4	8/2/2001	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
	8/19/2005	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	14
MW-5	8/2/2001	ND (5)	ND (5)	ND (5)	8.8	ND (2)	NA
Post Pilot Injection 1	7/9/2002	ND (5)	ND (5)	ND (5)	8	ND (2)	NA
Post Pilot Injection 2	10/29/2002	ND (5)	ND (5)	ND (5)	9.1	ND (2)	NA
Post Pilot Injection 3	2/11/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	9/30/2003	ND (5)	ND (5)	ND (5)	8	ND (2)	NA
	11/7/2003	ND (5)	ND (5)	ND (5)	5.5	ND (2)	NA
Post Pilot Injection 4	4/14/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	6/23/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	10/20/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
Post Full Scale Injection	6/15/2005	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	12/20/2006	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	4/10/2007	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	6/27/2007	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
MW-6	8/2/2001	ND (5)	ND (5)	ND (5)	23	ND (2)	NA
Post Pilot Injection 1	7/9/2002	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
Post Pilot Injection 2	10/29/2002	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
Post Pilot Injection 3	2/11/2003	ND (5)	ND (5)	ND (5)	8.9	ND (2)	NA
	9/30/2003	ND (5)	ND (5)	ND (5)	20	ND (2)	NA
	11/7/2003	ND (5)	ND (5)	ND (5)	29	ND (2)	NA
Post Pilot Injection 4	4/14/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	6/23/2004	ND (5)	ND (5)	ND (5)	20	ND (2)	NA
	10/20/2004	ND (5)	ND (5)	ND (5)	25	ND (2)	NA
Post Full Scale Injection	6/15/2005	ND (5)	ND (5)	ND (5)	53	ND (2)	NA
	12/20/2006	ND (5)	ND (5)	ND (5)	10	ND (2)	NA
	4/10/2007	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	6/27/2007	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA

TABLE 1

COMPARISON OF GROUNDWATER ANALYTICAL RESULTS
 BIRDSONG PEANUT
 FARMER'S FEED AND MILLING
 COLQUITT, GEORGIA

Sample Location	Sample Date	DCA (ug/L) CAS#75343	DCE (ug/L) CAS#75354	TCE (ug/L) CAS#79016	PCE (ug/L) CAS#127184	VC (ug/L) CAS#75014	Toluene (ug/L) CAS#108883
MW-7D	8/2/2001	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
Post Pilot Injection 1	7/9/2002	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
Post Pilot Injection 2	10/29/2002	ND (5)	ND (5)	ND (5)	6.1	ND (2)	NA
	2/11/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
Post Pilot Injection 3	9/30/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	11/7/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	4/14/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
Post Pilot Injection 4	6/23/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	10/20/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	6/15/2005	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
Post Full Scale Injection	12/20/2006	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	6/27/2007 & Duplicate	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
		ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
MW-8	8/2/2001	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
MW-9	8/2/2001	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	11/7/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
MW-10	9/4/2002	ND (5)	ND (5)	ND (5)	130	ND (2)	NA
	10/29/2002	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
Post Pilot Injection 3	2/11/2003	ND (5)	ND (5)	ND (5)	120	ND (2)	NA
	9/30/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	11/7/2003	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	4/14/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
Post Pilot Injection 4	6/23/2004	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	10/20/2004	ND (5)	ND (5)	ND (5)	8.6	ND (2)	NA
	6/15/2005	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
Post Full Scale Injection	12/19/2006	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	4/10/2007	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	6/27/2007	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA

TABLE 1

COMPARISON OF GROUNDWATER ANALYTICAL RESULTS
 BIRDSONG PEANUT
 FARMER'S FEED AND MILLING
 COLQUITT, GEORGIA

Sample Location	Sample Date	DCA (ug/L) CAS#75343	DCE (ug/L) CAS#75354	TCE (ug/L) CAS#79016	PCE (ug/L) CAS#127184	VC (ug/L) CAS#75014	Toluene (ug/L) CAS#108883
MW-11 Post Pilot Injection 3	9/30/2003	ND (5)	ND (5)	ND (5)	430	ND (2)	NA
	11/7/2003	ND (5)	ND (5)	ND (5)	180	ND (2)	NA
	4/14/2004	ND (5)	ND (5)	ND (5)	460	ND (2)	NA
	6/23/2004	ND (5)	ND (5)	ND (5)	41	ND (2)	NA
	10/20/2004	ND (5)	ND (5)	ND (5)	57	ND (2)	NA
	6/15/2005	ND (5)	ND (5)	ND (5)	180	ND (2)	NA
	12/19/2006	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	4/10/2007	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	6/27/2007	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
MW-12 Post Pilot Injection 4	6/23/2004	ND (5)	ND (5)	ND (5)	19	ND (2)	NA
	10/20/2004	ND (5)	ND (5)	ND (5)	17	ND (2)	NA
	6/15/2005	ND (5)	ND (5)	ND (5)	13	ND (2)	NA
	12/19/2006	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	4/10/2007	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	6/27/2007	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	NA
MW-13 Post Full Scale Injection	8/19/2005	ND (5)	ND (5)	ND (5)	11	ND (2)	ND (5)
	12/20/2006	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	4/10/2007	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	6/27/2007	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
MW-14 Post Full Scale Injection	8/19/2005	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	ND (5)
	12/20/2006	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
MW-15	8/19/2005	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	ND (5)
MW-16 Post Full Scale Injection	8/19/2005	ND (5)	ND (5)	ND (5)	6.3	ND (2)	6.3
	12/19/2006	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	4/10/2007	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
MW-17D Post Full Scale Injection	8/19/2005	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	5.2
	12/19/2006	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
	6/27/2007	ND (5)	ND (5)	ND (5)	ND (5)	ND (2)	NA
Type 1/3 RRS		4,000	7	5	5	2	1,000

Notes:

DCA = 1,1-dichloroethane

DCE = 1,1-dichloroethene (total)

TCE = trichloroethene

PCE = tetrachloroethene

VC = vinyl chloride

ND = Not Detected @ (Reported Detection Limit)

Type 1/3 RRS = Groundwater Criteria (Appendix III Table 1)

MW-10 12/19/06 sample had a suspect detection of methylene chloride (5.6 ug/L).

TABLE 2

SELECT METALS AND IONS GROUNDWATER RESULTS
 BIRDSONG PEANUT
 FARMER'S FEED AND MILLING
 COLQUITT, GEORGIA

Sample Location	Sample Date	Calcium	Iron	Manganese	Potassium	Sodium	Chloride	Sulfate
MW-5	4/10/2007	89.4	0.274	0.41	6.19	23.9	6.1	44
	6/27/2007	459	24.3	2320	2340	16.9	BLR	BLR
MW-6	4/10/2007	177	0.188	68.7	89.5	9.19	160	BRL
	6/27/2007	101	BLR	37.5	69.2	6.68	75	21
MW-7D	6/27/2007 & Duplicate	52.5	BLR	5.80	6.67	2.34	6.5	2.2
		54.3	BLR	5.79	6.87	2.46	7	2.4
MW-10	4/10/2007	157	1.91	323	1070	43.8	840	940
	6/27/2007	196	15.6	218	1280	39.6	670	750
MW-11	4/10/2007	72.4	0.778	17.5	104	9.7	150	230
	6/27/2007	74.1	12.1	17.8	120	8.45	110	160
MW-12	4/10/2007	56.1	BRL	2.73	17.4	3.32	BRL	BRL
	6/27/2007	55.2	1.92	3.55	15.4	3.13	27	30
MW-13	4/10/2007	14.1	0.448	5.22	42.4	5.31	24	44
	6/27/2007	7.53	30.8	2.14	37.8	4.47	37	47
MW-16	4/10/2007	22.7	BRL	0.195	18.9	1.91	13	12
MW17-D	6/27/2007	92.2	0.965	1.26	55.4	6.02	71	47

Notes:

BRL = Below Reporting Limit
 All units are represented in mg/L

TABLE 3

COMPARISON OF RCRA METALS IN GROUNDWATER
 BIRDSONG PEANUT
 FARMER'S FEED AND MILLING
 COLQUITT, GEORGIA

Sample Location	Sample Type	Arsenic	Barium	Cadmium	Chromium	Lead	Selenium	Silver
MW-6 6/27/2007	Total (1)	BRL (2)	0.0844	BRL	0.701	BRL	0.0242	BRL
	Dissolved (1)	BRL	0.0621	BRL	0.563	BRL	0.0333	BRL
Type 4 RRS		0.05	7.15	.05	.31/153 (3)	0.015	.51	.51

Notes:

1. All units are represented in mg/L
2. BRL = Below Reporting Limit
3. Type 4 RRS for Chromium VI is 0.31 mg/L and for Chromium III is 153 mg/L

ATTACHMENTS

ATTACHMENT A

Sample Key 18283 Birdsong

June 27, 20007

Sample number	Location	SSP VOCs	SSP ions	RCRA Metals Dissolved & Total
GW-062707-SAG-001	MW-5	X	X	
GW-062707-SAG-002	MW-17D	X	X	
GW-062707-SAG-003	MW-13	X	X	
GW-062707-DJB-101	MW-12	X	X	
GW-062707-DJB-102	MW-11	X	X	
GW-062707-DJB-103	MW-10	X	X	
GW-062707-DJB-104	MW-7D	X	X	
GW-062707-DJB-105	MW-7D Duplicate	X	X	
GW-062707-DJB-106	MW-6	X	X	XX



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

July 12, 2007

Mike Reinhardt
Conestoga, Rovers, & Associates, Inc.
1412 Oakbrook Drive
Suite 180
Norcross, GA 30093
TEL: (770) 441-0027
FAX (770) 441-2050

RE: Birdsong Peanut

Order No.: 0706G16

Dear Mike Reinhardt:

Analytical Environmental Services, Inc. received 10 samples on 6/28/2007 8:20:00 AM for the analyses presented in the following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water, effective 07/01/07-06/30/08.
- AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/07.


These results relate only to the items tested. This report may only be reproduced in full and contains 42 total pages (including cover letter).

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Chantelle Kanhai
Project Manager

CHAIN OF CUSTODY RECORD

 CONESTOGA-ROVERS & ASSOCIATES <u>Norcross, GA</u>				SHIPPED TO (Laboratory Name): <div style="font-size: 2em; text-align: center;">AES</div>				REFERENCE NUMBER: <div style="font-size: 1.5em; text-align: center;">18293</div> <div style="text-align: right;">Birdsong Peanut Colquitt, GA</div>			
SAMPLER'S SIGNATURE: <u>David Brytowski</u>				PRINTED NAME: <u>David Brytowski</u>				<div style="display: flex; justify-content: space-between;"> <div style="width: 40%;"> PARAMETERS VOCs IONS Total Metals Dis. Metals </div> <div style="width: 40%; text-align: center;"> REMARKS </div> </div>			
SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE TYPE	No. of Containers						
	6/27/07	9:30	GW-062707 SAG 001	Water	3	X	X				Standard TAT
		10:45	GW-062707 SAG 002	↓	3	X	X				
		12:15	GW-062707 SAG 002	↓	3	X	X				VOCs = Chlorinated VOCs
		9:45	GW-062707 DJB 101	Water	3	X	X				
		10:10	102	↓	3	X	X				Ions = Na, K, Ca, Mn, Fe, SO ₄ , CL
		10:30	103	↓	3	X	X				
		11:45	104	↓	3	X	X				
		12:30	105	↓	3	X	X				
		12:45	GW-062707 DJB 106	↓	3	X	X	XX			R CRA Metals = Ar, Barium, Cadmium, Chromium, lead, Selenium + silver, No Mercury. Dis. metals have been field filtered.
TOTAL NUMBER OF CONTAINERS						HEALTH/CHEMICAL HAZARDS					
RELINQUISHED BY: ① <u>David Brytowski</u>				DATE: <u>6/28/07</u> TIME: <u>8:15</u>		RECEIVED BY: ① _____				DATE: _____ TIME: _____	
RELINQUISHED BY: ② _____				DATE: _____ TIME: _____		RECEIVED BY: ② _____				DATE: _____ TIME: _____	
RELINQUISHED BY: ③ _____				DATE: _____ TIME: _____		RECEIVED BY: ③ _____				DATE: _____ TIME: _____	
METHOD OF SHIPMENT:						WAY BILL No.					
White Yellow Pink Goldenrod		-Fully Executed Copy -Receiving Laboratory Copy -Shipper Copy -Sampler Copy		SAMPLE TEAM: <div style="font-size: 1.5em;">DJB + SAG</div>		RECEIVED FOR LABORATORY BY: <u>[Signature]</u> DATE: <u>6/28/07</u> TIME: <u>8:20</u> <u>CRA</u>					
						NO CRA 02484					

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client CONESTOGA

Work Order Number 0706616

Checklist completed by MERT A. 6/28/07
Signature Date

Carrier name: FedEx ☐ UPS ☐ Courier ☐ Client ☒ US Mail ☐ Other ☐

Shipping container/cooler in good condition? Yes ☒ No ☐ Not Present ☐

Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☒

Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒

Container/Temp Blank temperature in compliance? ($4^{\circ}\text{C} \pm 2$)* Yes ☒ No ☐

Cooler #1 4.1° Cooler #2 4.2° Cooler #3 ☐ Cooler #4 ☐ Cooler #5 ☐ Cooler #6 ☐

Chain of custody present? Yes ☒ No ☐

Chain of custody signed when relinquished and received? Yes ☒ No ☐

Chain of custody agrees with sample labels? Yes ☐ No ☒

Samples in proper container/bottle? Yes ☒ No ☐

Sample containers intact? Yes ☒ No ☐

Sufficient sample volume for indicated test? Yes ☒ No ☐

All samples received within holding time? Yes ☒ No ☐

Was TAT marked on the COC? Yes ☒ No ☐

Proceed with Standard TAT as per project history? Yes ☐ No ☐ Not Applicable ☒

Water - VOA vials have zero headspace? No VOA vials submitted ☐ Yes ☐ No ☒

Water - pH acceptable upon receipt? Yes ☒ No ☐ Not Applicable ☐

Adjusted? ☐ Checked by M.A.

Sample Condition: Good ☒ Other(Explain) ☐

(For diffusive samples or AIHA lead) Is a known blank included? Yes ☐ No ☐

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Analytical Environmental Services, Inc.

Date: 12-Jul-07

CLIENT: Conestoga, Rovers, & Associates, Inc.
Project: Birdsong Peanut
Lab Order: 0706G16

CASE NARRATIVE

The sample containers from "GW-062707 SAG 002" collected at 12:15pm were labeled as "GW-062707 SAG 003". The COC was used to log in the samples.

One of the vials from "GW-062707 DJB 102" has headspace.

The pH of "GW-062707 SAG 001" was not readable due to the sample matrix.

A trip blank was provided but is not listed on the COC. The trip blank will be analyzed at no cost to the client.

Metals Analysis by Method 6010B:

Matrix spike and matrix spike duplicate recoveries for calcium and manganese on sample 0706G16-009D were outside control limits due to insignificant spike amount as compared to sample concentration. LCS recovery was within control limits.

Calcium, manganese and potassium values for the QC samples 0706G16-009DMS/MSD are "E" qualified indicating an estimated value over linear calibration range due to the level of target analyte present in the unspiked sample.

Matrix spike and matrix spike duplicate recoveries for calcium and potassium on sample 0706G16-002B were outside control limits biased low. LCS recovery was within control limits indicating possible matrix interference.

Anions Analysis by Method 9056:

Due to sample matrix, sample 0706G16-001B required dilution during preparation and/or analysis resulting in elevated reporting limits.

Total Metals Analysis by Method 6010B:

Samples 0706G16-001B, 002B, 003B, 004B, 005B, 006B, 007B and 008B as received did not meet method specified preservation requirements of pH <2.

Analytical Environmental Services, Inc.

Date: 12-Jul-07

CLIENT: Conestoga, Rovers, & Associates, Inc.

Client Sample ID: GW-062707 SAG 001

Project: Birdsong Peanut

Collection Date: 6/27/2007 9:30:00 AM

Lab ID: 0706G16-001

Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
ION SCAN							
		SW9056					Analyst: CT
Chloride	BRL	100		mg/L		100	7/3/2007 4:29 PM
Sulfate	BRL	100		mg/L		100	7/3/2007 4:29 PM
METALS, TOTAL							
		SW6010B			(SW3010A)		Analyst: LKW
Calcium	459	0.500		mg/L	88548	1	7/11/2007 5:45 PM
Iron	24.3	0.500		mg/L	88548	1	7/11/2007 5:45 PM
Manganese	2320	7.50		mg/L	88548	100	7/11/2007 5:49 PM
Potassium	2340	2.50		mg/L	88548	1	7/11/2007 5:45 PM
Sodium	16.9	5.00		mg/L	88548	1	7/11/2007 5:45 PM
TCL VOLATILE ORGANICS							
		SW8260B			(SW5030B)		Analyst: HW
1,1,1-Trichloroethane	BRL	5.0		µg/L	88184	1	6/30/2007 7:04 PM
1,1,2,2-Tetrachloroethane	BRL	5.0		µg/L	88184	1	6/30/2007 7:04 PM
1,1,2-Trichloroethane	BRL	5.0		µg/L	88184	1	6/30/2007 7:04 PM
1,1-Dichloroethane	BRL	5.0		µg/L	88184	1	6/30/2007 7:04 PM
1,1-Dichloroethene	BRL	5.0		µg/L	88184	1	6/30/2007 7:04 PM
1,2,4-Trichlorobenzene	BRL	5.0		µg/L	88184	1	6/30/2007 7:04 PM
1,2-Dibromo-3-chloropropane	BRL	5.0		µg/L	88184	1	6/30/2007 7:04 PM
1,2-Dichlorobenzene	BRL	5.0		µg/L	88184	1	6/30/2007 7:04 PM
1,2-Dichloroethane	BRL	5.0		µg/L	88184	1	6/30/2007 7:04 PM
1,2-Dichloropropane	BRL	5.0		µg/L	88184	1	6/30/2007 7:04 PM
1,3-Dichlorobenzene	BRL	5.0		µg/L	88184	1	6/30/2007 7:04 PM
1,4-Dichlorobenzene	BRL	5.0		µg/L	88184	1	6/30/2007 7:04 PM
Bromodichloromethane	BRL	5.0		µg/L	88184	1	6/30/2007 7:04 PM
Carbon tetrachloride	BRL	5.0		µg/L	88184	1	6/30/2007 7:04 PM
Chlorobenzene	BRL	5.0		µg/L	88184	1	6/30/2007 7:04 PM
Chloroethane	BRL	5.0		µg/L	88184	1	6/30/2007 7:04 PM
Chloroform	BRL	5.0		µg/L	88184	1	6/30/2007 7:04 PM
Chloromethane	BRL	5.0		µg/L	88184	1	6/30/2007 7:04 PM
cis-1,2-Dichloroethene	BRL	5.0		µg/L	88184	1	6/30/2007 7:04 PM
cis-1,3-Dichloropropene	BRL	5.0		µg/L	88184	1	6/30/2007 7:04 PM
Dibromochloromethane	BRL	5.0		µg/L	88184	1	6/30/2007 7:04 PM
Dichlorodifluoromethane	BRL	5.0		µg/L	88184	1	6/30/2007 7:04 PM
Methylene chloride	BRL	10		µg/L	88184	1	6/30/2007 7:04 PM
Tetrachloroethene	BRL	5.0		µg/L	88184	1	6/30/2007 7:04 PM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	88184	1	6/30/2007 7:04 PM
trans-1,3-Dichloropropene	BRL	5.0		µg/L	88184	1	6/30/2007 7:04 PM
Trichloroethene	BRL	5.0		µg/L	88184	1	6/30/2007 7:04 PM
Trichlorofluoromethane	BRL	5.0		µg/L	88184	1	6/30/2007 7:04 PM
Vinyl chloride	BRL	2.0		µg/L	88184	1	6/30/2007 7:04 PM
Surr: 4-Bromofluorobenzene	102	63.1-120		%REC	88184	1	6/30/2007 7:04 PM
Surr: Dibromofluoromethane	103	73.8-118		%REC	88184	1	6/30/2007 7:04 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
 BRL Below Reporting Limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated Method Blank

E Estimated (Value above quantitation range)
 S Surrogate Recovery outside accepted recovery limits
 Narr See Case Narrative
 NC Not Confirmed

Analytical Environmental Services, Inc.

Date: 12-Jul-07

CLIENT: Conestoga, Rovers, & Associates, Inc.

Client Sample ID: GW-062707 SAG 001

Project: Birdsong Peanut

Collection Date: 6/27/2007 9:30:00 AM

Lab ID: 0706G16-001

Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS							Analyst: HW
Surr: Toluene-d8	104	75.1-120		%REC	88184	1	6/30/2007 7:04 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- BRL Below Reporting Limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated Method Blank

- E Estimated (Value above quantitation range)
- S Surrogate Recovery outside accepted recovery limits
- Narr See Case Narrative
- NC Not Confirmed

Analytical Environmental Services, Inc.

Date: 12-Jul-07

CLIENT: Conestoga, Rovers, & Associates, Inc.

Client Sample ID: GW-062707-SAG 002

Project: Birdsong Peanut

Collection Date: 6/27/2007 10:45:00 AM

Lab ID: 0706G16-002

Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
ION SCAN							
		SW9058					Analyst: CT
Chloride	71	5.0		mg/L		5	7/5/2007 8:29 AM
Sulfate	47	1.0		mg/L		1	7/3/2007 4:59 PM
METALS, TOTAL							
		SW6010B			(SW3010A)		Analyst: LKW
Calcium	92.2	0.100		mg/L	88548	1	7/11/2007 5:36 PM
Iron	0.965	0.100		mg/L	88548	1	7/11/2007 5:36 PM
Manganese	1.26	0.0150		mg/L	88548	1	7/11/2007 5:36 PM
Potassium	55.4	0.500		mg/L	88548	1	7/11/2007 5:36 PM
Sodium	6.02	1.00		mg/L	88548	1	7/11/2007 5:36 PM
TCL VOLATILE ORGANICS							
		SW8260B			(SW5030B)		Analyst: HW
1,1,1-Trichloroethane	BRL	5.0		µg/L	88184	1	6/30/2007 7:30 PM
1,1,2,2-Tetrachloroethane	BRL	5.0		µg/L	88184	1	6/30/2007 7:30 PM
1,1,2-Trichloroethane	BRL	5.0		µg/L	88184	1	6/30/2007 7:30 PM
1,1-Dichloroethane	BRL	5.0		µg/L	88184	1	6/30/2007 7:30 PM
1,1-Dichloroethene	BRL	5.0		µg/L	88184	1	6/30/2007 7:30 PM
1,2,4-Trichlorobenzene	BRL	5.0		µg/L	88184	1	6/30/2007 7:30 PM
1,2-Dibromo-3-chloropropane	BRL	5.0		µg/L	88184	1	6/30/2007 7:30 PM
1,2-Dichlorobenzene	BRL	5.0		µg/L	88184	1	6/30/2007 7:30 PM
1,2-Dichloroethane	BRL	5.0		µg/L	88184	1	6/30/2007 7:30 PM
1,2-Dichloropropane	BRL	5.0		µg/L	88184	1	6/30/2007 7:30 PM
1,3-Dichlorobenzene	BRL	5.0		µg/L	88184	1	6/30/2007 7:30 PM
1,4-Dichlorobenzene	BRL	5.0		µg/L	88184	1	6/30/2007 7:30 PM
Bromodichloromethane	BRL	5.0		µg/L	88184	1	6/30/2007 7:30 PM
Carbon tetrachloride	BRL	5.0		µg/L	88184	1	6/30/2007 7:30 PM
Chlorobenzene	BRL	5.0		µg/L	88184	1	6/30/2007 7:30 PM
Chloroethane	BRL	5.0		µg/L	88184	1	6/30/2007 7:30 PM
Chloroform	BRL	5.0		µg/L	88184	1	6/30/2007 7:30 PM
Chloromethane	BRL	5.0		µg/L	88184	1	6/30/2007 7:30 PM
cis-1,2-Dichloroethene	BRL	5.0		µg/L	88184	1	6/30/2007 7:30 PM
cis-1,3-Dichloropropene	BRL	5.0		µg/L	88184	1	6/30/2007 7:30 PM
Dibromochloromethane	BRL	5.0		µg/L	88184	1	6/30/2007 7:30 PM
Dichlorodifluoromethane	BRL	5.0		µg/L	88184	1	6/30/2007 7:30 PM
Methylene chloride	BRL	10		µg/L	88184	1	6/30/2007 7:30 PM
Tetrachloroethene	BRL	5.0		µg/L	88184	1	6/30/2007 7:30 PM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	88184	1	6/30/2007 7:30 PM
trans-1,3-Dichloropropene	BRL	5.0		µg/L	88184	1	6/30/2007 7:30 PM
Trichloroethene	BRL	5.0		µg/L	88184	1	6/30/2007 7:30 PM
Trichlorofluoromethane	BRL	5.0		µg/L	88184	1	6/30/2007 7:30 PM
Vinyl chloride	BRL	2.0		µg/L	88184	1	6/30/2007 7:30 PM
Surr: 4-Bromofluorobenzene	99.1	63.1-120		%REC	88184	1	6/30/2007 7:30 PM
Surr: Dibromofluoromethane	105	73.8-118		%REC	88184	1	6/30/2007 7:30 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
 BRL Below Reporting Limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated Method Blank

E Estimated (Value above quantitation range)
 S Surrogate Recovery outside accepted recovery limits
 Narr See Case Narrative
 NC Not Confirmed

Analytical Environmental Services, Inc.

Date: 12-Jul-07

CLIENT: Conestoga, Rovers, & Associates, Inc.

Client Sample ID: GW-062707-SAG 002

Project: Birdsong Peanut

Collection Date: 6/27/2007 10:45:00 AM

Lab ID: 0706G16-002

Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS			SW8260B	(SW5030B)			Analyst: HW
Surr: Toluene-d8	103	75.1-120	%REC	88184	1	6/30/2007 7:30 PM	

Qualifiers: * Value exceeds Maximum Contaminant Level
BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
N Analyte not NELAC certified
B Analyte detected in the associated Method Blank

E Estimated (Value above quantitation range)
S Surrogate Recovery outside accepted recovery limits
Narr See Case Narrative
NC Not Confirmed

Analytical Environmental Services, Inc.

Date: 12-Jul-07

CLIENT: Conestoga, Rovers, & Associates, Inc.

Client Sample ID: GW-062707 SAG 002

Project: Birdsong Peanut

Collection Date: 6/27/2007 12:15:00 PM

Lab ID: 0706G16-003

Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
ION SCAN							
		SW9056					Analyst: CT
Chloride	37	1.0		mg/L		1	6/28/2007 11:44 PM
Sulfate	47	1.0		mg/L		1	6/28/2007 11:44 PM
METALS, TOTAL							
		SW6010B			(SW3010A)		Analyst: LKW
Calcium	7.53	0.100		mg/L	88548	1	7/11/2007 5:52 PM
Iron	30.8	0.100		mg/L	88548	1	7/11/2007 5:52 PM
Manganese	2.14	0.0150		mg/L	88548	1	7/11/2007 5:52 PM
Potassium	37.8	0.500		mg/L	88548	1	7/11/2007 5:52 PM
Sodium	4.47	1.00		mg/L	88548	1	7/11/2007 5:52 PM
TCL VOLATILE ORGANICS							
		SW8260B			(SW5030B)		Analyst: PV
1,1,1-Trichloroethane	BRL	5.0		µg/L	88243	1	6/30/2007 5:36 PM
1,1,2,2-Tetrachloroethane	BRL	5.0		µg/L	88243	1	6/30/2007 5:36 PM
1,1,2-Trichloroethane	BRL	5.0		µg/L	88243	1	6/30/2007 5:36 PM
1,1-Dichloroethane	BRL	5.0		µg/L	88243	1	6/30/2007 5:36 PM
1,1-Dichloroethene	BRL	5.0		µg/L	88243	1	6/30/2007 5:36 PM
1,2,4-Trichlorobenzene	BRL	5.0		µg/L	88243	1	6/30/2007 5:36 PM
1,2-Dibromo-3-chloropropane	BRL	5.0		µg/L	88243	1	6/30/2007 5:36 PM
1,2-Dichlorobenzene	BRL	5.0		µg/L	88243	1	6/30/2007 5:36 PM
1,2-Dichloroethane	BRL	5.0		µg/L	88243	1	6/30/2007 5:36 PM
1,2-Dichloropropane	BRL	5.0		µg/L	88243	1	6/30/2007 5:36 PM
1,3-Dichlorobenzene	BRL	5.0		µg/L	88243	1	6/30/2007 5:36 PM
1,4-Dichlorobenzene	BRL	5.0		µg/L	88243	1	6/30/2007 5:36 PM
Bromodichloromethane	BRL	5.0		µg/L	88243	1	6/30/2007 5:36 PM
Carbon tetrachloride	BRL	5.0		µg/L	88243	1	6/30/2007 5:36 PM
Chlorobenzene	BRL	5.0		µg/L	88243	1	6/30/2007 5:36 PM
Chloroethane	BRL	5.0		µg/L	88243	1	6/30/2007 5:36 PM
Chloroform	BRL	5.0		µg/L	88243	1	6/30/2007 5:36 PM
Chloromethane	BRL	5.0		µg/L	88243	1	6/30/2007 5:36 PM
cis-1,2-Dichloroethane	BRL	5.0		µg/L	88243	1	6/30/2007 5:36 PM
cis-1,3-Dichloropropene	BRL	5.0		µg/L	88243	1	6/30/2007 5:36 PM
Dibromochloromethane	BRL	5.0		µg/L	88243	1	6/30/2007 5:36 PM
Dichlorodifluoromethane	BRL	5.0		µg/L	88243	1	6/30/2007 5:36 PM
Methylene chloride	BRL	10		µg/L	88243	1	6/30/2007 5:36 PM
Tetrachloroethene	BRL	5.0		µg/L	88243	1	6/30/2007 5:36 PM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	88243	1	6/30/2007 5:36 PM
trans-1,3-Dichloropropene	BRL	5.0		µg/L	88243	1	6/30/2007 5:36 PM
Trichloroethene	BRL	5.0		µg/L	88243	1	6/30/2007 5:36 PM
Trichlorofluoromethane	BRL	5.0		µg/L	88243	1	6/30/2007 5:36 PM
Vinyl chloride	BRL	2.0		µg/L	88243	1	6/30/2007 5:36 PM
Surr: 4-Bromofluorobenzene	74.7	63.1-120		%REC	88243	1	6/30/2007 5:36 PM
Surr: Dibromofluoromethane	94.0	73.8-118		%REC	88243	1	6/30/2007 5:36 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
 BRL Below Reporting Limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated Method Blank

E Estimated (Value above quantitation range)
 S Surrogate Recovery outside accepted recovery limits
 Narr See Case Narrative
 NC Not Confirmed

Analytical Environmental Services, Inc.

Date: 12-Jul-07

CLIENT: Conestoga, Rovers, & Associates, Inc.**Client Sample ID:** GW-062707 SAG 002**Project:** Birdsong Peanut**Collection Date:** 6/27/2007 12:15:00 PM**Lab ID:** 0706G16-003**Matrix:** AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS							
Surr: Toluene-d8	87.1	75.1-120		%REC	88243	1	6/30/2007 5:36 PM

SW8260B

(SW5030B)

Analyst: PV

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- BRL Below Reporting Limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated Method Blank

- E Estimated (Value above quantitation range)
- S Surrogate Recovery outside accepted recovery limits
- Narr See Case Narrative
- NC Not Confirmed

Analytical Environmental Services, Inc.

Date: 12-Jul-07

CLIENT: Conestoga, Rovers, & Associates, Inc.

Client Sample ID: GW-062707 DJB 101

Project: Birdsong Peanut

Collection Date: 6/27/2007 9:45:00 AM

Lab ID: 0706G16-004

Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
ION SCAN							
							Analyst: CT
Chloride	27	1.0		mg/L		1	7/3/2007 5:28 PM
Sulfate	30	1.0		mg/L		1	7/3/2007 5:28 PM
METALS, TOTAL							
							Analyst: LKW
Calcium	55.2	0.100		mg/L	88548	1	7/11/2007 5:55 PM
Iron	1.92	0.100		mg/L	88548	1	7/11/2007 5:55 PM
Manganese	3.55	0.0150		mg/L	88548	1	7/11/2007 5:55 PM
Potassium	15.4	0.500		mg/L	88548	1	7/11/2007 5:55 PM
Sodium	3.13	1.00		mg/L	88548	1	7/11/2007 5:55 PM
TCL VOLATILE ORGANICS							
							Analyst: PV
1,1,1-Trichloroethane	BRL	5.0		µg/L	88243	1	6/30/2007 8:05 PM
1,1,2,2-Tetrachloroethane	BRL	5.0		µg/L	88243	1	6/30/2007 8:05 PM
1,1,2-Trichloroethane	BRL	5.0		µg/L	88243	1	6/30/2007 8:05 PM
1,1-Dichloroethane	BRL	5.0		µg/L	88243	1	6/30/2007 8:05 PM
1,1-Dichloroethene	BRL	5.0		µg/L	88243	1	6/30/2007 8:05 PM
1,2,4-Trichlorobenzene	BRL	5.0		µg/L	88243	1	6/30/2007 8:05 PM
1,2-Dibromo-3-chloropropane	BRL	5.0		µg/L	88243	1	6/30/2007 8:05 PM
1,2-Dichlorobenzene	BRL	5.0		µg/L	88243	1	6/30/2007 8:05 PM
1,2-Dichloroethane	BRL	5.0		µg/L	88243	1	6/30/2007 8:05 PM
1,2-Dichloropropane	BRL	5.0		µg/L	88243	1	6/30/2007 8:05 PM
1,3-Dichlorobenzene	BRL	5.0		µg/L	88243	1	6/30/2007 8:05 PM
1,4-Dichlorobenzene	BRL	5.0		µg/L	88243	1	6/30/2007 8:05 PM
Bromodichloromethane	BRL	5.0		µg/L	88243	1	6/30/2007 8:05 PM
Carbon tetrachloride	BRL	5.0		µg/L	88243	1	6/30/2007 8:05 PM
Chlorobenzene	BRL	5.0		µg/L	88243	1	6/30/2007 8:05 PM
Chloroethane	BRL	5.0		µg/L	88243	1	6/30/2007 8:05 PM
Chloroform	BRL	5.0		µg/L	88243	1	6/30/2007 8:05 PM
Chloromethane	BRL	5.0		µg/L	88243	1	6/30/2007 8:05 PM
cis-1,2-Dichloroethene	BRL	5.0		µg/L	88243	1	6/30/2007 8:05 PM
cis-1,3-Dichloropropene	BRL	5.0		µg/L	88243	1	6/30/2007 8:05 PM
Dibromochloromethane	BRL	5.0		µg/L	88243	1	6/30/2007 8:05 PM
Dichlorodifluoromethane	BRL	5.0		µg/L	88243	1	6/30/2007 8:05 PM
Methylene chloride	BRL	10		µg/L	88243	1	6/30/2007 8:05 PM
Tetrachloroethene	BRL	5.0		µg/L	88243	1	6/30/2007 8:05 PM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	88243	1	6/30/2007 8:05 PM
trans-1,3-Dichloropropene	BRL	5.0		µg/L	88243	1	6/30/2007 8:05 PM
Trichloroethene	BRL	5.0		µg/L	88243	1	6/30/2007 8:05 PM
Trichlorofluoromethane	BRL	5.0		µg/L	88243	1	6/30/2007 8:05 PM
Vinyl chloride	BRL	2.0		µg/L	88243	1	6/30/2007 8:05 PM
Surr: 4-Bromofluorobenzene	76.5	63.1-120		%REC	88243	1	6/30/2007 8:05 PM
Surr: Dibromofluoromethane	95.8	73.8-118		%REC	88243	1	6/30/2007 8:05 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
 BRL Below Reporting Limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated Method Blank

E Estimated (Value above quantitation range)
 S Surrogate Recovery outside accepted recovery limits
 Narr See Case Narrative
 NC Not Confirmed

Analytical Environmental Services, Inc.

Date: 12-Jul-07

CLIENT: Conestoga, Rovers, & Associates, Inc.

Client Sample ID: GW-062707 DJB 101

Project: Birdsong Peanut

Collection Date: 6/27/2007 9:45:00 AM

Lab ID: 0706G16-004

Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS			SW8260B		(SW5030B)		Analyst: PV
Surr: Toluene-d8	85.1	75.1-120		%REC	88243	1	6/30/2007 8:05 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
N Analyte not NELAC certified
B Analyte detected in the associated Method Blank

E Estimated (Value above quantitation range)
S Surrogate Recovery outside accepted recovery limits
Narr See Case Narrative
NC Not Confirmed

Analytical Environmental Services, Inc.

Date: 12-Jul-07

CLIENT: Conestoga, Rovers, & Associates, Inc.

Client Sample ID: GW-062707 DJB 102

Project: Birdsong Peanut

Collection Date: 6/27/2007 10:10:00 AM

Lab ID: 0706G16-005

Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
ION SCAN							
		SW9056					Analyst: CT
Chloride	110	5.0		mg/L		5	7/3/2007 5:58 PM
Sulfate	160	5.0		mg/L		5	7/3/2007 5:58 PM
METALS, TOTAL							
		SW6010B			(SW3010A)		Analyst: LKW
Calcium	74.1	0.100		mg/L	88548	1	7/11/2007 6:05 PM
Iron	12.1	0.100		mg/L	88548	1	7/11/2007 6:05 PM
Manganese	17.8	0.0150		mg/L	88548	1	7/11/2007 6:05 PM
Potassium	120	0.500		mg/L	88548	1	7/11/2007 6:05 PM
Sodium	8.45	1.00		mg/L	88548	1	7/11/2007 6:05 PM
TCL VOLATILE ORGANICS							
		SW8260B			(SW5030B)		Analyst: PV
1,1,1-Trichloroethane	BRL	5.0		µg/L	88243	1	6/30/2007 6:01 PM
1,1,2,2-Tetrachloroethane	BRL	5.0		µg/L	88243	1	6/30/2007 6:01 PM
1,1,2-Trichloroethane	BRL	5.0		µg/L	88243	1	6/30/2007 6:01 PM
1,1-Dichloroethane	BRL	5.0		µg/L	88243	1	6/30/2007 6:01 PM
1,1-Dichloroethene	BRL	5.0		µg/L	88243	1	6/30/2007 6:01 PM
1,2,4-Trichlorobenzene	BRL	5.0		µg/L	88243	1	6/30/2007 6:01 PM
1,2-Dibromo-3-chloropropane	BRL	5.0		µg/L	88243	1	6/30/2007 6:01 PM
1,2-Dichlorobenzene	BRL	5.0		µg/L	88243	1	6/30/2007 6:01 PM
1,2-Dichloroethane	BRL	5.0		µg/L	88243	1	6/30/2007 6:01 PM
1,2-Dichloropropane	BRL	5.0		µg/L	88243	1	6/30/2007 6:01 PM
1,3-Dichlorobenzene	BRL	5.0		µg/L	88243	1	6/30/2007 6:01 PM
1,4-Dichlorobenzene	BRL	5.0		µg/L	88243	1	6/30/2007 6:01 PM
Bromodichloromethane	BRL	5.0		µg/L	88243	1	6/30/2007 6:01 PM
Carbon tetrachloride	BRL	5.0		µg/L	88243	1	6/30/2007 6:01 PM
Chlorobenzene	BRL	5.0		µg/L	88243	1	6/30/2007 6:01 PM
Chloroethane	BRL	5.0		µg/L	88243	1	6/30/2007 6:01 PM
Chloroform	BRL	5.0		µg/L	88243	1	6/30/2007 6:01 PM
Chloromethane	BRL	5.0		µg/L	88243	1	6/30/2007 6:01 PM
cis-1,2-Dichloroethene	BRL	5.0		µg/L	88243	1	6/30/2007 6:01 PM
cis-1,3-Dichloropropene	BRL	5.0		µg/L	88243	1	6/30/2007 6:01 PM
Dibromochloromethane	BRL	5.0		µg/L	88243	1	6/30/2007 6:01 PM
Dichlorodifluoromethane	BRL	5.0		µg/L	88243	1	6/30/2007 6:01 PM
Methylene chloride	BRL	10		µg/L	88243	1	6/30/2007 6:01 PM
Tetrachloroethene	BRL	5.0		µg/L	88243	1	6/30/2007 6:01 PM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	88243	1	6/30/2007 6:01 PM
trans-1,3-Dichloropropene	BRL	5.0		µg/L	88243	1	6/30/2007 6:01 PM
Trichloroethane	BRL	5.0		µg/L	88243	1	6/30/2007 6:01 PM
Trichlorofluoromethane	BRL	5.0		µg/L	88243	1	6/30/2007 6:01 PM
Vinyl chloride	BRL	2.0		µg/L	88243	1	6/30/2007 6:01 PM
Surr: 4-Bromofluorobenzene	75.8	63.1-120		%REC	88243	1	6/30/2007 6:01 PM
Surr: Dibromofluoromethane	91.7	73.8-118		%REC	88243	1	6/30/2007 6:01 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
 BRL Below Reporting Limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated Method Blank

E Estimated (Value above quantitation range)
 S Surrogate Recovery outside accepted recovery limits
 Narr See Case Narrative
 NC Not Confirmed

Analytical Environmental Services, Inc.

Date: 12-Jul-07

CLIENT: Conestoga, Rovers, & Associates, Inc.

Client Sample ID: GW-062707 DJB 102

Project: Birdsong Peanut

Collection Date: 6/27/2007 10:10:00 AM

Lab ID: 0706G16-005

Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS							Analyst: PV
Surr: Toluene-d8	85.3	75.1-120		%REC	88243	1	6/30/2007 6:01 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
N Analyte not NELAC certified
B Analyte detected in the associated Method Blank

E Estimated (Value above quantitation range)
S Surrogate Recovery outside accepted recovery limits
Narr See Case Narrative
NC Not Confirmed

Analytical Environmental Services, Inc.

Date: 12-Jul-07

CLIENT: Conestoga, Rovers, & Associates, Inc.

Client Sample ID: GW-062707 DJB 103

Project: Birdsong Peanut

Collection Date: 6/27/2007 10:30:00 AM

Lab ID: 0706G16-006

Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
ION SCAN							
		SW9056					Analyst: CT
Chloride	670	50		mg/L		50	7/3/2007 4:44 PM
Sulfate	750	50		mg/L		50	7/3/2007 4:44 PM
METALS, TOTAL							
		SW6010B			(SW3010A)		Analyst: LKW
Calcium	196	0.500		mg/L	88548	1	7/11/2007 6:08 PM
Iron	15.6	0.500		mg/L	88548	1	7/11/2007 6:08 PM
Manganese	218	0.750		mg/L	88548	10	7/11/2007 6:12 PM
Potassium	1280	2.50		mg/L	88548	1	7/11/2007 6:08 PM
Sodium	39.6	5.00		mg/L	88548	1	7/11/2007 6:08 PM
TCL VOLATILE ORGANICS							
		SW8260B			(SW5030B)		Analyst: PV
1,1,1-Trichloroethane	BRL	5.0		µg/L	88243	1	6/30/2007 6:26 PM
1,1,2,2-Tetrachloroethane	BRL	5.0		µg/L	88243	1	6/30/2007 6:26 PM
1,1,2-Trichloroethane	BRL	5.0		µg/L	88243	1	6/30/2007 6:26 PM
1,1-Dichloroethane	BRL	5.0		µg/L	88243	1	6/30/2007 6:26 PM
1,1-Dichloroethene	BRL	5.0		µg/L	88243	1	6/30/2007 6:26 PM
1,2,4-Trichlorobenzene	BRL	5.0		µg/L	88243	1	6/30/2007 6:26 PM
1,2-Dibromo-3-chloropropane	BRL	5.0		µg/L	88243	1	6/30/2007 6:26 PM
1,2-Dichlorobenzene	BRL	5.0		µg/L	88243	1	6/30/2007 6:26 PM
1,2-Dichloroethane	BRL	5.0		µg/L	88243	1	6/30/2007 6:26 PM
1,2-Dichloropropane	BRL	5.0		µg/L	88243	1	6/30/2007 6:26 PM
1,3-Dichlorobenzene	BRL	5.0		µg/L	88243	1	6/30/2007 6:26 PM
1,4-Dichlorobenzene	BRL	5.0		µg/L	88243	1	6/30/2007 6:26 PM
Bromodichloromethane	BRL	5.0		µg/L	88243	1	6/30/2007 6:26 PM
Carbon tetrachloride	BRL	5.0		µg/L	88243	1	6/30/2007 6:26 PM
Chlorobenzene	BRL	5.0		µg/L	88243	1	6/30/2007 6:26 PM
Chloroethane	BRL	5.0		µg/L	88243	1	6/30/2007 6:26 PM
Chloroform	BRL	5.0		µg/L	88243	1	6/30/2007 6:26 PM
Chloromethane	BRL	5.0		µg/L	88243	1	6/30/2007 6:26 PM
cis-1,2-Dichloroethene	BRL	5.0		µg/L	88243	1	6/30/2007 6:26 PM
cis-1,3-Dichloropropene	BRL	5.0		µg/L	88243	1	6/30/2007 6:26 PM
Dibromochloromethane	BRL	5.0		µg/L	88243	1	6/30/2007 6:26 PM
Dichlorodifluoromethane	BRL	5.0		µg/L	88243	1	6/30/2007 6:26 PM
Methylene chloride	BRL	10		µg/L	88243	1	6/30/2007 6:26 PM
Tetrachloroethene	BRL	5.0		µg/L	88243	1	6/30/2007 6:26 PM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	88243	1	6/30/2007 6:26 PM
trans-1,3-Dichloropropene	BRL	5.0		µg/L	88243	1	6/30/2007 6:26 PM
Trichloroethene	BRL	5.0		µg/L	88243	1	6/30/2007 6:26 PM
Trichlorofluoromethane	BRL	5.0		µg/L	88243	1	6/30/2007 6:26 PM
Vinyl chloride	BRL	2.0		µg/L	88243	1	6/30/2007 6:26 PM
Surr: 4-Bromofluorobenzene	77.2	63.1-120		%REC	88243	1	6/30/2007 6:26 PM
Surr: Dibromofluoromethane	98.0	73.8-118		%REC	88243	1	6/30/2007 6:26 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
 BRL Below Reporting Limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated Method Blank

E Estimated (Value above quantitation range)
 S Surrogate Recovery outside accepted recovery limits
 Narr See Case Narrative
 NC Not Confirmed

Analytical Environmental Services, Inc.

Date: 12-Jul-07

CLIENT: Conestoga, Rovers, & Associates, Inc.**Client Sample ID:** GW-062707 DJB 103**Project:** Birdsong Peanut**Collection Date:** 6/27/2007 10:30:00 AM**Lab ID:** 0706G16-006**Matrix:** AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS			SW8260B		(SW5030B)		Analyst: PV
Surr: Toluene-d8	85.9	75.1-120		%REC	88243	1	6/30/2007 6:26 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- BRL Below Reporting Limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated Method Blank

- E Estimated (Value above quantitation range)
- S Surrogate Recovery outside accepted recovery limits
- Narr See Case Narrative
- NC Not Confirmed

Analytical Environmental Services, Inc.

Date: 12-Jul-07

CLIENT: Conestoga, Rovers, & Associates, Inc.

Client Sample ID: GW-062707 DJB 104

Project: Birdsong Peanut

Collection Date: 6/27/2007 11:45:00 AM

Lab ID: 0706G16-007

Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
ION SCAN							
					SW9056		Analyst: CT
Chloride	6.5	1.0		mg/L		1	7/3/2007 3:16 PM
Sulfate	2.2	1.0		mg/L		1	7/3/2007 3:16 PM
METALS, TOTAL							
					SW6010B (SW3010A)		Analyst: LKW
Calcium	52.5	0.100		mg/L	88548	1	7/11/2007 9:32 PM
Iron	BRL	0.100		mg/L	88548	1	7/11/2007 9:32 PM
Manganese	5.80	0.0150		mg/L	88548	1	7/11/2007 9:32 PM
Potassium	6.67	0.500		mg/L	88548	1	7/11/2007 9:32 PM
Sodium	2.34	1.00		mg/L	88548	1	7/11/2007 9:32 PM
TCL VOLATILE ORGANICS							
					SW8260B (SW5030B)		Analyst: PV
1,1,1-Trichloroethane	BRL	5.0		µg/L	88243	1	6/30/2007 6:51 PM
1,1,2,2-Tetrachloroethane	BRL	5.0		µg/L	88243	1	6/30/2007 6:51 PM
1,1,2-Trichloroethane	BRL	5.0		µg/L	88243	1	6/30/2007 6:51 PM
1,1-Dichloroethane	BRL	5.0		µg/L	88243	1	6/30/2007 6:51 PM
1,1-Dichloroethene	BRL	5.0		µg/L	88243	1	6/30/2007 6:51 PM
1,2,4-Trichlorobenzene	BRL	5.0		µg/L	88243	1	6/30/2007 6:51 PM
1,2-Dibromo-3-chloropropane	BRL	5.0		µg/L	88243	1	6/30/2007 6:51 PM
1,2-Dichlorobenzene	BRL	5.0		µg/L	88243	1	6/30/2007 6:51 PM
1,2-Dichloroethane	BRL	5.0		µg/L	88243	1	6/30/2007 6:51 PM
1,2-Dichloropropane	BRL	5.0		µg/L	88243	1	6/30/2007 6:51 PM
1,3-Dichlorobenzene	BRL	5.0		µg/L	88243	1	6/30/2007 6:51 PM
1,4-Dichlorobenzene	BRL	5.0		µg/L	88243	1	6/30/2007 6:51 PM
Bromodichloromethane	BRL	5.0		µg/L	88243	1	6/30/2007 6:51 PM
Carbon tetrachloride	BRL	5.0		µg/L	88243	1	6/30/2007 6:51 PM
Chlorobenzene	BRL	5.0		µg/L	88243	1	6/30/2007 6:51 PM
Chloroethane	BRL	5.0		µg/L	88243	1	6/30/2007 6:51 PM
Chloroform	BRL	5.0		µg/L	88243	1	6/30/2007 6:51 PM
Chloromethane	BRL	5.0		µg/L	88243	1	6/30/2007 6:51 PM
cis-1,2-Dichloroethene	BRL	5.0		µg/L	88243	1	6/30/2007 6:51 PM
cis-1,3-Dichloropropene	BRL	5.0		µg/L	88243	1	6/30/2007 6:51 PM
Dibromochloromethane	BRL	5.0		µg/L	88243	1	6/30/2007 6:51 PM
Dichlorodifluoromethane	BRL	5.0		µg/L	88243	1	6/30/2007 6:51 PM
Methylene chloride	BRL	10		µg/L	88243	1	6/30/2007 6:51 PM
Tetrachloroethene	BRL	5.0		µg/L	88243	1	6/30/2007 6:51 PM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	88243	1	6/30/2007 6:51 PM
trans-1,3-Dichloropropene	BRL	5.0		µg/L	88243	1	6/30/2007 6:51 PM
Trichloroethene	BRL	5.0		µg/L	88243	1	6/30/2007 6:51 PM
Trichlorofluoromethane	BRL	5.0		µg/L	88243	1	6/30/2007 6:51 PM
Vinyl chloride	BRL	2.0		µg/L	88243	1	6/30/2007 6:51 PM
Surr: 4-Bromofluorobenzene	77.8	63.1-120		%REC	88243	1	6/30/2007 6:51 PM
Surr: Dibromofluoromethane	104	73.8-118		%REC	88243	1	6/30/2007 6:51 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
 BRL Below Reporting Limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated Method Blank

E Estimated (Value above quantitation range)
 S Surrogate Recovery outside accepted recovery limits
 Narr See Case Narrative
 NC Not Confirmed

Analytical Environmental Services, Inc.

Date: 12-Jul-07

CLIENT: Conestoga, Rovers, & Associates, Inc.

Client Sample ID: GW-062707 DJB 104

Project: Birdsong Peanut

Collection Date: 6/27/2007 11:45:00 AM

Lab ID: 0706G16-007

Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS							
Surr: Toluene-d8	87.0	75.1-120		%REC	88243	1	6/30/2007 6:51 PM

SW8260B

(SW5030B)

Analyst: PV

Qualifiers: * Value exceeds Maximum Contaminant Level
BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
N Analyte not NELAC certified
B Analyte detected in the associated Method Blank

E Estimated (Value above quantitation range)
S Surrogate Recovery outside accepted recovery limits
Narr See Case Narrative
NC Not Confirmed

Analytical Environmental Services, Inc.

Date: 12-Jul-07

CLIENT: Conestoga, Rovers, & Associates, Inc.

Client Sample ID: GW-062707 DJB 105

Project: Birdsong Peanut

Collection Date: 6/27/2007 12:30:00 PM

Lab ID: 0706G16-008

Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
ION SCAN							
		SW9056					Analyst: CT
Chloride	6.7	1.0		mg/L		1	7/3/2007 3:01 PM
Sulfate	2.4	1.0		mg/L		1	7/3/2007 3:01 PM
METALS, TOTAL							
		SW6010B			(SW3010A)		Analyst: LKW
Calcium	54.3	0.100		mg/L	88548	1	7/11/2007 9:43 PM
Iron	BRL	0.100		mg/L	88548	1	7/11/2007 9:43 PM
Manganese	5.79	0.0150		mg/L	88548	1	7/11/2007 9:43 PM
Potassium	6.87	0.500		mg/L	88548	1	7/11/2007 9:43 PM
Sodium	2.46	1.00		mg/L	88548	1	7/11/2007 9:43 PM
TCL VOLATILE ORGANICS							
		SW8260B			(SW5030B)		Analyst: PV
1,1,1-Trichloroethane	BRL	5.0		µg/L	88243	1	6/30/2007 7:40 PM
1,1,2,2-Tetrachloroethane	BRL	5.0		µg/L	88243	1	6/30/2007 7:40 PM
1,1,2-Trichloroethane	BRL	5.0		µg/L	88243	1	6/30/2007 7:40 PM
1,1-Dichloroethane	BRL	5.0		µg/L	88243	1	6/30/2007 7:40 PM
1,1-Dichloroethene	BRL	5.0		µg/L	88243	1	6/30/2007 7:40 PM
1,2,4-Trichlorobenzene	BRL	5.0		µg/L	88243	1	6/30/2007 7:40 PM
1,2-Dibromo-3-chloropropane	BRL	5.0		µg/L	88243	1	6/30/2007 7:40 PM
1,2-Dichlorobenzene	BRL	5.0		µg/L	88243	1	6/30/2007 7:40 PM
1,2-Dichloroethane	BRL	5.0		µg/L	88243	1	6/30/2007 7:40 PM
1,2-Dichloropropane	BRL	5.0		µg/L	88243	1	6/30/2007 7:40 PM
1,3-Dichlorobenzene	BRL	5.0		µg/L	88243	1	6/30/2007 7:40 PM
1,4-Dichlorobenzene	BRL	5.0		µg/L	88243	1	6/30/2007 7:40 PM
Bromodichloromethane	BRL	5.0		µg/L	88243	1	6/30/2007 7:40 PM
Carbon tetrachloride	BRL	5.0		µg/L	88243	1	6/30/2007 7:40 PM
Chlorobenzene	BRL	5.0		µg/L	88243	1	6/30/2007 7:40 PM
Chloroethane	BRL	5.0		µg/L	88243	1	6/30/2007 7:40 PM
Chloroform	BRL	5.0		µg/L	88243	1	6/30/2007 7:40 PM
Chloromethane	BRL	5.0		µg/L	88243	1	6/30/2007 7:40 PM
cis-1,2-Dichloroethene	BRL	5.0		µg/L	88243	1	6/30/2007 7:40 PM
cis-1,3-Dichloropropene	BRL	5.0		µg/L	88243	1	6/30/2007 7:40 PM
Dibromochloromethane	BRL	5.0		µg/L	88243	1	6/30/2007 7:40 PM
Dichlorodifluoromethane	BRL	5.0		µg/L	88243	1	6/30/2007 7:40 PM
Methylene chloride	BRL	10		µg/L	88243	1	6/30/2007 7:40 PM
Tetrachloroethene	BRL	5.0		µg/L	88243	1	6/30/2007 7:40 PM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	88243	1	6/30/2007 7:40 PM
trans-1,3-Dichloropropene	BRL	5.0		µg/L	88243	1	6/30/2007 7:40 PM
Trichloroethene	BRL	5.0		µg/L	88243	1	6/30/2007 7:40 PM
Trichlorofluoromethane	BRL	5.0		µg/L	88243	1	6/30/2007 7:40 PM
Vinyl chloride	BRL	2.0		µg/L	88243	1	6/30/2007 7:40 PM
Surr: 4-Bromofluorobenzene	77.9	63.1-120		%REC	88243	1	6/30/2007 7:40 PM
Surr: Dibromofluoromethane	90.5	73.8-118		%REC	88243	1	6/30/2007 7:40 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
N Analyte not NELAC certified
B Analyte detected in the associated Method Blank

E Estimated (Value above quantitation range)
S Surrogate Recovery outside accepted recovery limits
Narr See Case Narrative
NC Not Confirmed

Analytical Environmental Services, Inc.**Date:** 12-Jul-07**CLIENT:** Conestoga, Rovers, & Associates, Inc.**Client Sample ID:** GW-062707 DJB 105**Project:** Birdsong Peanut**Collection Date:** 6/27/2007 12:30:00 PM**Lab ID:** 0706G16-008**Matrix:** AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS							
Surr: Toluene-d8	83.6	75.1-120		%REC	88243	1	6/30/2007 7:40 PM

SW8260B

(SW5030B)

Analyst: PV

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- BRL Below Reporting Limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated Method Blank

- E Estimated (Value above quantitation range)
- S Surrogate Recovery outside accepted recovery limits
- Narr See Case Narrative
- NC Not Confirmed

Analytical Environmental Services, Inc.

Date: 12-Jul-07

CLIENT: Conestoga, Rovers, & Associates, Inc.

Client Sample ID: GW-062707 DJB 106

Project: Birdsong Peanut

Collection Date: 6/27/2007 12:45:00 PM

Lab ID: 0706G16-009

Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
ION SCAN							
		SW9056					Analyst: CT
Chloride	75	5.0		mg/L		5	7/3/2007 5:43 PM
Sulfate	21	1.0		mg/L		1	7/3/2007 2:32 PM
METALS, DISSOLVED							
		SW6010B					Analyst: DJ
Arsenic	BRL	0.0500		mg/L	88054	1	6/29/2007 11:12 AM
Barium	0.0821	0.0200		mg/L	88054	1	6/29/2007 11:12 AM
Cadmium	BRL	0.0050		mg/L	88054	1	6/29/2007 11:12 AM
Calcium	101	0.500		mg/L	88054	5	6/29/2007 12:53 PM
Chromium	0.563	0.0100		mg/L	88054	1	6/29/2007 11:12 AM
Iron	BRL	0.100		mg/L	88054	1	6/29/2007 11:12 AM
Lead	BRL	0.0100		mg/L	88054	1	6/29/2007 11:12 AM
Manganese	37.5	0.0750		mg/L	88054	5	6/29/2007 12:53 PM
Potassium	69.2	12.5		mg/L	88054	25	6/29/2007 12:57 PM
Selenium	0.0333	0.0200		mg/L	88054	1	6/29/2007 11:12 AM
Silver	BRL	0.0100		mg/L	88054	1	6/29/2007 11:12 AM
Sodium	6.68	1.00		mg/L	88054	1	6/29/2007 11:12 AM
METALS, TOTAL							
		SW6010B			(SW3010A)		Analyst: LKW
Arsenic	BRL	0.0500		mg/L	88155	1	7/2/2007 4:20 PM
Barium	0.0844	0.0200		mg/L	88155	1	7/2/2007 4:20 PM
Cadmium	BRL	0.0050		mg/L	88155	1	7/2/2007 4:20 PM
Calcium	119	0.100		mg/L	88155	1	7/2/2007 4:20 PM
Chromium	0.701	0.0100		mg/L	88155	1	7/2/2007 4:20 PM
Iron	0.110	0.100		mg/L	88155	1	7/2/2007 4:20 PM
Lead	BRL	0.0100		mg/L	88155	1	7/2/2007 4:20 PM
Manganese	45.5	0.150		mg/L	88155	10	7/2/2007 5:48 PM
Potassium	95.0	0.500		mg/L	88155	1	7/2/2007 4:20 PM
Selenium	0.0242	0.0200		mg/L	88155	1	7/2/2007 4:20 PM
Silver	BRL	0.0100		mg/L	88155	1	7/2/2007 4:20 PM
Sodium	7.35	1.00		mg/L	88155	1	7/2/2007 4:20 PM
TCL VOLATILE ORGANICS							
		SW8280B			(SW5030B)		Analyst: PV
1,1,1-Trichloroethane	BRL	5.0		µg/L	88243	1	6/30/2007 8:30 PM
1,1,2,2-Tetrachloroethane	BRL	5.0		µg/L	88243	1	6/30/2007 8:30 PM
1,1,2-Trichloroethane	BRL	5.0		µg/L	88243	1	6/30/2007 8:30 PM
1,1-Dichloroethane	BRL	5.0		µg/L	88243	1	6/30/2007 8:30 PM
1,1-Dichloroethene	BRL	5.0		µg/L	88243	1	6/30/2007 8:30 PM
1,2,4-Trichlorobenzene	BRL	5.0		µg/L	88243	1	6/30/2007 8:30 PM
1,2-Dibromo-3-chloropropane	BRL	5.0		µg/L	88243	1	6/30/2007 8:30 PM
1,2-Dichlorobenzene	BRL	5.0		µg/L	88243	1	6/30/2007 8:30 PM
1,2-Dichloroethane	BRL	5.0		µg/L	88243	1	6/30/2007 8:30 PM
1,2-Dichloropropane	BRL	5.0		µg/L	88243	1	6/30/2007 8:30 PM
1,3-Dichlorobenzene	BRL	5.0		µg/L	88243	1	6/30/2007 8:30 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
 BRL Below Reporting Limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated Method Blank

E Estimated (Value above quantitation range)
 S Surrogate Recovery outside accepted recovery limits
 Narr See Case Narrative
 NC Not Confirmed

Analytical Environmental Services, Inc.

Date: 12-Jul-07

CLIENT: Conestoga, Rovers, & Associates, Inc.**Client Sample ID:** GW-062707 DJB 106**Project:** Birdsong Peanut**Collection Date:** 6/27/2007 12:45:00 PM**Lab ID:** 0706G16-009**Matrix:** AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS			SW8260B		(SW5030B)		Analyst: PV
1,4-Dichlorobenzene	BRL	5.0		µg/L	88243	1	6/30/2007 8:30 PM
Bromodichloromethane	BRL	5.0		µg/L	88243	1	6/30/2007 8:30 PM
Carbon tetrachloride	BRL	5.0		µg/L	88243	1	6/30/2007 8:30 PM
Chlorobenzene	BRL	5.0		µg/L	88243	1	6/30/2007 8:30 PM
Chloroethane	BRL	5.0		µg/L	88243	1	6/30/2007 8:30 PM
Chloroform	BRL	5.0		µg/L	88243	1	6/30/2007 8:30 PM
Chloromethane	BRL	5.0		µg/L	88243	1	6/30/2007 8:30 PM
cis-1,2-Dichloroethene	BRL	5.0		µg/L	88243	1	6/30/2007 8:30 PM
cis-1,3-Dichloropropene	BRL	5.0		µg/L	88243	1	6/30/2007 8:30 PM
Dibromochloromethane	BRL	5.0		µg/L	88243	1	6/30/2007 8:30 PM
Dichlorodifluoromethane	BRL	5.0		µg/L	88243	1	6/30/2007 8:30 PM
Methylene chloride	BRL	10		µg/L	88243	1	6/30/2007 8:30 PM
Tetrachloroethene	BRL	5.0		µg/L	88243	1	6/30/2007 8:30 PM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	88243	1	6/30/2007 8:30 PM
trans-1,3-Dichloropropene	BRL	5.0		µg/L	88243	1	6/30/2007 8:30 PM
Trichloroethene	BRL	5.0		µg/L	88243	1	6/30/2007 8:30 PM
Trichlorofluoromethane	BRL	5.0		µg/L	88243	1	6/30/2007 8:30 PM
Vinyl chloride	BRL	2.0		µg/L	88243	1	6/30/2007 8:30 PM
Surr: 4-Bromofluorobenzene	76.9	63.1-120		%REC	88243	1	6/30/2007 8:30 PM
Surr: Dibromofluoromethane	94.1	73.8-118		%REC	88243	1	6/30/2007 8:30 PM
Surr: Toluene-d8	86.1	75.1-120		%REC	88243	1	6/30/2007 8:30 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- BRL Below Reporting Limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated Method Blank

- E Estimated (Value above quantitation range)
- S Surrogate Recovery outside accepted recovery limits
- Narr See Case Narrative
- NC Not Confirmed

Analytical Environmental Services, Inc.

Date: 12-Jul-07

CLIENT: Conestoga, Rovers, & Associates, Inc.
Project: Birdsong Peanut
Lab ID: 0706G16-010

Client Sample ID: TRIP BLANK
Collection Date: 6/28/2007
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B		(SW5030B)	Analyst: PV		
1,1,1-Trichloroethane	BRL	5.0		µg/L	88243	1	6/30/2007 7:15 PM
1,1,2,2-Tetrachloroethane	BRL	5.0		µg/L	88243	1	6/30/2007 7:15 PM
1,1,2-Trichloroethane	BRL	5.0		µg/L	88243	1	6/30/2007 7:15 PM
1,1-Dichloroethane	BRL	5.0		µg/L	88243	1	6/30/2007 7:15 PM
1,1-Dichloroethene	BRL	5.0		µg/L	88243	1	6/30/2007 7:15 PM
1,2,4-Trichlorobenzene	BRL	5.0		µg/L	88243	1	6/30/2007 7:15 PM
1,2-Dibromo-3-chloropropane	BRL	5.0		µg/L	88243	1	6/30/2007 7:15 PM
1,2-Dichlorobenzene	BRL	5.0		µg/L	88243	1	6/30/2007 7:15 PM
1,2-Dichloroethane	BRL	5.0		µg/L	88243	1	6/30/2007 7:15 PM
1,2-Dichloropropane	BRL	5.0		µg/L	88243	1	6/30/2007 7:15 PM
1,3-Dichlorobenzene	BRL	5.0		µg/L	88243	1	6/30/2007 7:15 PM
1,4-Dichlorobenzene	BRL	5.0		µg/L	88243	1	6/30/2007 7:15 PM
Bromodichloromethane	BRL	5.0		µg/L	88243	1	6/30/2007 7:15 PM
Carbon tetrachloride	BRL	5.0		µg/L	88243	1	6/30/2007 7:15 PM
Chlorobenzene	BRL	5.0		µg/L	88243	1	6/30/2007 7:15 PM
Chloroethane	BRL	5.0		µg/L	88243	1	6/30/2007 7:15 PM
Chloroform	BRL	5.0		µg/L	88243	1	6/30/2007 7:15 PM
Chloromethane	BRL	5.0		µg/L	88243	1	6/30/2007 7:15 PM
cis-1,2-Dichloroethene	BRL	5.0		µg/L	88243	1	6/30/2007 7:15 PM
cis-1,3-Dichloropropene	BRL	5.0		µg/L	88243	1	6/30/2007 7:15 PM
Dibromochloromethane	BRL	5.0		µg/L	88243	1	6/30/2007 7:15 PM
Dichlorodifluoromethane	BRL	5.0		µg/L	88243	1	6/30/2007 7:15 PM
Methylene chloride	BRL	10		µg/L	88243	1	6/30/2007 7:15 PM
Tetrachloroethene	BRL	5.0		µg/L	88243	1	6/30/2007 7:15 PM
trans-1,2-Dichloroethene	BRL	5.0		µg/L	88243	1	6/30/2007 7:15 PM
trans-1,3-Dichloropropene	BRL	5.0		µg/L	88243	1	6/30/2007 7:15 PM
Trichloroethene	BRL	5.0		µg/L	88243	1	6/30/2007 7:15 PM
Trichlorofluoromethane	BRL	5.0		µg/L	88243	1	6/30/2007 7:15 PM
Vinyl chloride	BRL	2.0		µg/L	88243	1	6/30/2007 7:15 PM
Surr: 4-Bromofluorobenzene	79.6	63.1-120		%REC	88243	1	6/30/2007 7:15 PM
Surr: Dibromofluoromethane	93.8	73.8-118		%REC	88243	1	6/30/2007 7:15 PM
Surr: Toluene-d8	84.8	75.1-120		%REC	88243	1	6/30/2007 7:15 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
 BRL Below Reporting Limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated Method Blank

E Estimated (Value above quantitation range)
 S Surrogate Recovery outside accepted recovery limits
 Narr See Case Narrative
 NC Not Confirmed

Lab Order: 0706G16
 Client: Conestoga, Rovers, & Associates, Inc.
 Project: Birdsong Peanut

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
0706G16-001A	GW-062707 SAG 001	6/27/2007 9:30:00 AM	Aqueous	TCL VOLATILE ORGANICS		6/30/2007	6/30/2007
0706G16-001B				ION SCAN			7/3/2007
				TOTAL METALS BY ICP		7/10/2007	7/11/2007
				TOTAL METALS BY ICP		7/10/2007	7/11/2007
0706G16-002A	GW-062707-SAG-002	6/27/2007 10:45:00 AM		TCL VOLATILE ORGANICS		6/30/2007	6/30/2007
0706G16-002B				ION SCAN			7/3/2007
				ION SCAN			7/5/2007
				TOTAL METALS BY ICP		7/10/2007	7/11/2007
0706G16-003A	GW-062707 SAG 002	6/27/2007 12:15:00 PM		TCL VOLATILE ORGANICS		6/30/2007	6/30/2007
0706G16-003B				ION SCAN			6/28/2007
				TOTAL METALS BY ICP		7/10/2007	7/11/2007
0706G16-004A	GW-062707 DJB 101	6/27/2007 9:45:00 AM		TCL VOLATILE ORGANICS		6/30/2007	6/30/2007
0706G16-004B				ION SCAN			7/3/2007
				TOTAL METALS BY ICP		7/10/2007	7/11/2007
0706G16-005A	GW-062707 DJB 102	6/27/2007 10:10:00 AM		TCL VOLATILE ORGANICS		6/30/2007	6/30/2007
0706G16-005B				ION SCAN			7/3/2007
				ION SCAN			7/3/2007
				TOTAL METALS BY ICP		7/10/2007	7/11/2007
0706G16-006A	GW-062707 DJB 103	6/27/2007 10:30:00 AM		TCL VOLATILE ORGANICS		6/30/2007	6/30/2007
0706G16-006B				ION SCAN			7/3/2007
				TOTAL METALS BY ICP		7/10/2007	7/11/2007
				TOTAL METALS BY ICP		7/10/2007	7/11/2007
0706G16-007A	GW-062707 DJB 104	6/27/2007 11:45:00 AM		TCL VOLATILE ORGANICS		6/30/2007	6/30/2007
0706G16-007B				ION SCAN			7/3/2007
				TOTAL METALS BY ICP		7/10/2007	7/11/2007
0706G16-008A	GW-062707 DJB 105	6/27/2007 12:30:00 PM		TCL VOLATILE ORGANICS		6/30/2007	6/30/2007
0706G16-008B				ION SCAN			7/3/2007
				TOTAL METALS BY ICP		7/10/2007	7/11/2007

Lab Order: 0706G16
Client: Conestoga, Rovers, & Associates, Inc.
Project: Birdsong Peanut

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
0706G16-009A	GW-062707 DJB 106	6/27/2007 12:45:00 PM	Aqueous	TCL VOLATILE ORGANICS		6/30/2007	6/30/2007
0706G16-009B				ION SCAN			7/3/2007
				ION SCAN			7/3/2007
0706G16-009C				TOTAL METALS BY ICP		7/2/2007	7/2/2007
				TOTAL METALS BY ICP		7/2/2007	7/2/2007
0706G16-009D				DISSOLVED METALS BY ICP		6/29/2007	6/29/2007
				DISSOLVED METALS BY ICP		6/29/2007	6/29/2007
				DISSOLVED METALS BY ICP		6/29/2007	6/29/2007
0706G16-010A	TRIP BLANK	6/28/2007		TCL VOLATILE ORGANICS		6/30/2007	6/30/2007

Analytical Environmental Services, Inc.

Date: 12-Jul-07

CLIENT: Conestoga, Rovers, & Associates, Inc.
 Work Order: 0706G16
 Project: Birdsong Peanut

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010B_W_D

Sample ID: MB-88054	SampType: MBLK	TestCode: 6010B_W_D	Units: mg/L	Prep Date: 6/29/2007	RunNo: 107497						
Client ID:	Batch ID: 88054	TestNo: SW6010B		Analysis Date: 6/29/2007	SeqNo: 2170940						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	BRL	0.0500									
Barium	BRL	0.0200									
Cadmium	BRL	0.00500									
Calcium	BRL	0.100									
Chromium	BRL	0.0100									
Iron	BRL	0.100									
Lead	BRL	0.0100									
Manganese	BRL	0.0150									
Potassium	BRL	0.500									
Selenium	BRL	0.0200									
Silver	BRL	0.0100									
Sodium	BRL	1.00									

Sample ID: LCS-88054	SampType: LCS	TestCode: 6010B_W_D	Units: mg/L	Prep Date: 6/29/2007	RunNo: 107497						
Client ID:	Batch ID: 88054	TestNo: SW6010B		Analysis Date: 6/29/2007	SeqNo: 2170939						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	1.017	0.0500	1	0	102	80	120	0	0		
Barium	1.012	0.0200	1	0	101	80	120	0	0		
Cadmium	1.021	0.00500	1	0	102	80	120	0	0		
Calcium	10.21	0.100	10	0.0881	101	80	120	0	0		
Chromium	1.005	0.0100	1	0	100	80	120	0	0		
Iron	10.1	0.100	10	0	101	80	120	0	0		
Lead	1.009	0.0100	1	0	101	80	120	0	0		
Manganese	1.013	0.0150	1	0	101	80	120	0	0		
Potassium	10.64	0.500	10	0	106	80	120	0	0		
Selenium	1.01	0.0200	1	0	101	80	120	0	0		
Silver	0.101	0.0100	0.1	0	101	80	120	0	0		
Sodium	10.29	1.00	10	0.007118	103	80	120	0	0		

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

BRL Below Reporting Limit
 J Analyte detected below quantitation limits
 S Spike Recovery outside accepted recovery limits

E Value above quantitation range
 N Analyte not NELAC certified

CLIENT: Conestoga, Rovers, & Associates, Inc.
 Work Order: 0706G16
 Project: Birdsong Peanut

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010B_W_D

Sample ID: 0706G16-009DMS	SampType: MS	TestCode: 6010B_W_D	Units: mg/L	Prep Date: 6/29/2007	RunNo: 107497						
Client ID: GW-062707 DJB 106	Batch ID: 88054	TestNo: SW6010B		Analysis Date: 6/29/2007	SeqNo: 2170943						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	1.009	0.0500	1	0	101	75	125	0	0		
Barium	1.019	0.0200	1	0.06205	95.7	75	125	0	0		
Cadmium	0.9896	0.00500	1	0	99	75	125	0	0		
Calcium	101.5	0.100	10	94.68	68.3	75	125	0	0		SE
Chromium	1.503	0.0100	1	0.5631	94	75	125	0	0		
Iron	9.581	0.100	10	0	95.8	75	125	0	0		
Lead	0.9497	0.0100	1	0.003908	94.6	75	125	0	0		
Manganese	30.56	0.0150	1	30.85	-29.4	75	125	0	0		SE
Potassium	97.34	0.500	10	86.78	106	75	125	0	0		E
Selenium	1.043	0.0200	1	0.03332	101	75	125	0	0		
Silver	0.1003	0.0100	0.1	0.002123	98.2	75	125	0	0		
Sodium	18.41	1.00	10	6.682	117	75	125	0	0		

Sample ID: 0706G16-009DMSD	SampType: MSD	TestCode: 6010B_W_D	Units: mg/L	Prep Date: 6/29/2007	RunNo: 107497						
Client ID: GW-062707 DJB 106	Batch ID: 88054	TestNo: SW6010B		Analysis Date: 6/29/2007	SeqNo: 2170944						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	1.009	0.0500	1	0	101	75	125	1.009	0.00793	20	
Barium	1.021	0.0200	1	0.06205	95.9	75	125	1.019	0.169	20	
Cadmium	0.9895	0.00500	1	0	99	75	125	0.9896	0.00536	20	
Calcium	101.2	0.100	10	94.68	64.8	75	125	101.5	0.343	20	SE
Chromium	1.505	0.0100	1	0.5631	94.2	75	125	1.503	0.115	20	
Iron	9.636	0.100	10	0	96.4	75	125	9.581	0.568	20	
Lead	0.9509	0.0100	1	0.003908	94.7	75	125	0.9497	0.123	20	
Manganese	30.61	0.0150	1	30.85	-24.6	75	125	30.56	0.154	20	SE
Potassium	97.24	0.500	10	86.78	105	75	125	97.34	0.101	20	E
Selenium	1.043	0.0200	1	0.03332	101	75	125	1.043	0.00288	20	
Silver	0.1003	0.0100	0.1	0.002123	98.1	75	125	0.1003	0.0439	20	
Sodium	18.75	1.00	10	6.682	121	75	125	18.41	1.85	20	

Qualifiers: B Analyte detected in the associated Method Blank BRL Below Reporting Limit E Value above quantitation range
 H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits N Analyte not NELAC certified
 R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

CLIENT: Conestoga, Rovers, & Associates, Inc.
Work Order: 0706G16
Project: Birdsong Peanut

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010B_W_T

Sample ID: MB-88155	SampType: MBLK	TestCode: 6010B_W_T	Units: mg/L	Prep Date: 7/2/2007	RunNo: 107648						
Client ID:	Batch ID: 88155	TestNo: SW6010B		Analysis Date: 7/2/2007	SeqNo: 2172315						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	BRL	0.0500									
Barium	BRL	0.0200									
Cadmium	BRL	0.00500									
Calcium	BRL	0.100									
Chromium	BRL	0.0100									
Iron	BRL	0.100									
Lead	BRL	0.0100									
Manganese	BRL	0.0150									
Selenium	BRL	0.0200									
Silver	BRL	0.0100									
Sodium	BRL	1.00									

Sample ID: MB-88548	SampType: MBLK	TestCode: 6010B_W_T	Units: mg/L	Prep Date: 7/10/2007	RunNo: 108253						
Client ID:	Batch ID: 88548	TestNo: SW6010B		Analysis Date: 7/11/2007	SeqNo: 2185796						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Calcium	BRL	0.100									
Iron	BRL	0.100									
Manganese	BRL	0.0150									
Potassium	BRL	0.500									
Sodium	BRL	1.00									

Sample ID: LCS-88155	SampType: LCS	TestCode: 6010B_W_T	Units: mg/L	Prep Date: 7/2/2007	RunNo: 107648						
Client ID:	Batch ID: 88155	TestNo: SW6010B		Analysis Date: 7/2/2007	SeqNo: 2172313						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	1.149	0.0500	1	0	115	85	115	0	0		
Barium	1.117	0.0200	1	0	112	85	115	0	0		
Cadmium	1.121	0.00500	1	0	112	85	115	0	0		
Calcium	11.16	0.100	10	0	112	85	115	0	0		

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Conestoga, Rovers, & Associates, Inc.
Work Order: 0706G16
Project: Birdsong Peanut

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010B_W_T

Sample ID: LCS-88155	SampType: LCS	TestCode: 6010B_W_T	Units: mg/L	Prep Date: 7/2/2007	RunNo: 107648						
Client ID:	Batch ID: 88155	TestNo: SW6010B		Analysis Date: 7/2/2007	SeqNo: 2172313						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	1.121	0.0100	1	0	112	85	115	0	0		
Iron	10.81	0.100	10	0	108	85	115	0	0		
Lead	1.119	0.0100	1	0	112	85	115	0	0		
Manganese	1.113	0.0150	1	0	111	85	115	0	0		
Silver	0.1099	0.0100	0.1	0	110	85	115	0	0		
Sodium	11.25	1.00	10	0.09182	112	85	115	0	0		

Sample ID: LCS-88155	SampType: LCS	TestCode: 6010B_W_T	Units: mg/L	Prep Date: 7/2/2007	RunNo: 107648						
Client ID:	Batch ID: 88155	TestNo: SW6010B		Analysis Date: 7/2/2007	SeqNo: 2172603						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	1.127	0.0200	1	0	113	85	115	0	0		

Sample ID: LCS-88548	SampType: LCS	TestCode: 6010B_W_T	Units: mg/L	Prep Date: 7/10/2007	RunNo: 108253						
Client ID:	Batch ID: 88548	TestNo: SW6010B		Analysis Date: 7/11/2007	SeqNo: 2185794						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	10.15	0.100	10	0.01747	101	85	115	0	0		
Iron	10.41	0.100	10	0	104	85	115	0	0		
Manganese	1.021	0.0150	1	0	102	85	115	0	0		
Potassium	10.67	0.500	10	0	107	85	115	0	0		
Sodium	10.23	1.00	10	0	102	85	115	0	0		

Sample ID: 0706G55-001AMS	SampType: MS	TestCode: 6010B_W_T	Units: mg/L	Prep Date: 7/2/2007	RunNo: 107648						
Client ID:	Batch ID: 88155	TestNo: SW6010B		Analysis Date: 7/2/2007	SeqNo: 2172322						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	1.145	0.0500	1	0	114	75	125	0	0		
Barium	1.271	0.0200	1	0.125	115	75	125	0	0		
Cadmium	1.129	0.00500	1	0	113	75	125	0	0		

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Conestoga, Rovers, & Associates, Inc.
 Work Order: 0706G16
 Project: Birdsong Peanut

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010B_W_T

Sample ID: 0706G55-001AMS	SampType: MS	TestCode: 6010B_W_T	Units: mg/L	Prep Date: 7/2/2007	RunNo: 107648						
Client ID:	Batch ID: 88155	TestNo: SW6010B		Analysis Date: 7/2/2007	SeqNo: 2172322						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	13.28	0.100	10	2.112	112	75	125	0	0		
Chromium	1.153	0.0100	1	0	115	75	125	0	0		
Iron	10.8	0.100	10	0.2137	106	75	125	0	0		
Lead	1.194	0.0100	1	0.08413	111	75	125	0	0		
Manganese	2.511	0.0150	1	1.42	109	75	125	0	0		
Selenium	1.138	0.0200	1	0	114	75	125	0	0		
Silver	0.1116	0.0100	0.1	0	112	75	125	0	0		
Sodium	14.62	1.00	10	3.509	111	75	125	0	0		

Sample ID: 0706G16-002BMS	SampType: MS	TestCode: 6010B_W_T	Units: mg/L	Prep Date: 7/10/2007	RunNo: 108253						
Client ID: GW-062707-SAG 00	Batch ID: 88548	TestNo: SW6010B		Analysis Date: 7/11/2007	SeqNo: 2185801						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	95.76	0.100	10	92.17	35.9	75	125	0	0		S
Iron	10.8	0.100	10	0.965	98.3	75	125	0	0		
Manganese	2.241	0.0150	1	1.264	97.7	75	125	0	0		
Potassium	61.35	0.500	10	55.44	59.1	75	125	0	0		S
Sodium	15.75	1.00	10	6.018	97.4	75	125	0	0		

Sample ID: 0706G55-001AMSD	SampType: MSD	TestCode: 6010B_W_T	Units: mg/L	Prep Date: 7/2/2007	RunNo: 107648						
Client ID:	Batch ID: 88155	TestNo: SW6010B		Analysis Date: 7/2/2007	SeqNo: 2172324						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	1.144	0.0500	1	0	114	75	125	1.145	0.0510	20	
Barium	1.247	0.0200	1	0.125	112	75	125	1.271	1.93	20	
Cadmium	1.118	0.00500	1	0	112	75	125	1.129	1.05	20	
Calcium	13.24	0.100	10	2.112	111	75	125	13.28	0.306	20	
Chromium	1.134	0.0100	1	0	113	75	125	1.153	1.69	20	
Iron	10.81	0.100	10	0.2137	106	75	125	10.8	0.0338	20	
Lead	1.191	0.0100	1	0.08413	111	75	125	1.194	0.195	20	

Qualifiers: B Analyte detected in the associated Method Blank BRL Below Reporting Limit E Value above quantitation range
 H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits N Analyte not NELAC certified
 R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

CLIENT: Conestoga, Rovers, & Associates, Inc.
Work Order: 0706G16
Project: Birdsong Peanut

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010B_W_T

Sample ID: 0706G55-001AMSD		SampType: MSD	TestCode: 6010B_W_T		Units: mg/L	Prep Date: 7/2/2007		RunNo: 107648			
Client ID:		Batch ID: 88155	TestNo: SW6010B			Analysis Date: 7/2/2007		SeqNo: 2172324			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	2.479	0.0150	1	1.42	106	75	125	2.511	1.30	20	
Selenium	1.144	0.0200	1	0	114	75	125	1.138	0.572	20	
Silver	0.1093	0.0100	0.1	0	109	75	125	0.1116	2.06	20	
Sodium	14.62	1.00	10	3.509	111	75	125	14.62	0.00603	20	

Sample ID: 0706G16-002BMSD		SampType: MSD	TestCode: 6010B_W_T		Units: mg/L	Prep Date: 7/10/2007		RunNo: 108253			
Client ID: GW-062707-SAG 00		Batch ID: 88548	TestNo: SW6010B			Analysis Date: 7/11/2007		SeqNo: 2185803			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	97.14	0.100	10	92.17	49.7	75	125	95.76	1.43	20	S
Iron	10.69	0.100	10	0.965	97.2	75	125	10.8	0.993	20	
Manganese	2.294	0.0150	1	1.264	103	75	125	2.241	2.35	20	
Potassium	61.36	0.500	10	55.44	59.2	75	125	61.35	0.0169	20	S
Sodium	15.61	1.00	10	6.018	95.9	75	125	15.75	0.910	20	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

BRL Below Reporting Limit
 J Analyte detected below quantitation limits
 S Spike Recovery outside accepted recovery limits

E Value above quantitation range
 N Analyte not NELAC certified

CLIENT: Conestoga, Rovers, & Associates, Inc.
Work Order: 0706G16
Project: Birdsong Peanut

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_TCL4.2_W

Sample ID: MB-88184		SampType: MBLK		TestCode: 8260_TCL4.2		Units: µg/L		Prep Date: 6/30/2007		RunNo: 107594	
Client ID:		Batch ID: 88184		TestNo: SW8260B		Analysis Date: 6/30/2007		SeqNo: 2171191			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Methylene chloride	BRL	5.0									
Tetrachloroethene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Sum: 4-Bromofluorobenzene	49.15	0	50	0	98.3	63.1	120	0	0		
Sum: Dibromofluoromethane	50	0	50	0	100	73.8	118	0	0		

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

BRL Below Reporting Limit
 J Analyte detected below quantitation limits
 S Spike Recovery outside accepted recovery limits

E Value above quantitation range
 N Analyte not NELAC certified

CLIENT: Conestoga, Rovers, & Associates, Inc.
Work Order: 0706G16
Project: Birdsong Peanut

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_TCL4.2_W

Sample ID: MB-88184	SampType: MBLK	TestCode: 8260_TCL4.2	Units: µg/L	Prep Date: 6/30/2007	RunNo: 107594						
Client ID:	Batch ID: 88184	TestNo: SW8260B		Analysis Date: 6/30/2007	SeqNo: 2171191						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Toluene-d8	51.55	0	50	0	103	75.1	120	0	0		

Sample ID: MB-88243	SampType: MBLK	TestCode: 8260_TCL4.2	Units: µg/L	Prep Date: 6/30/2007	RunNo: 107642						
Client ID:	Batch ID: 88243	TestNo: SW8260B		Analysis Date: 6/30/2007	SeqNo: 2173676						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Methylene chloride	BRL	5.0									
Tetrachloroethene	BRL	5.0									

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

BRL Below Reporting Limit
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

E Value above quantitation range
N Analyte not NELAC certified

CLIENT: Conestoga, Rovers, & Associates, Inc.
 Work Order: 0706G16
 Project: Birdsong Peanut

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_TCL4.2_W

Sample ID: MB-88243	SampType: MBLK	TestCode: 8260_TCL4.2	Units: µg/L	Prep Date: 6/30/2007	RunNo: 107642						
Client ID:	Batch ID: 88243	TestNo: SW8260B		Analysis Date: 6/30/2007	SeqNo: 2173676						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	38.67	0	50	0	77.3	63.1	120	0	0		
Surr: Dibromofluoromethane	45.79	0	50	0	91.6	73.8	118	0	0		
Surr: Toluene-d8	41.87	0	50	0	83.7	75.1	120	0	0		

Sample ID: LCS-88184	SampType: LCS	TestCode: 8260_TCL4.2	Units: µg/L	Prep Date: 6/30/2007	RunNo: 107594						
Client ID:	Batch ID: 88184	TestNo: SW8260B		Analysis Date: 6/30/2007	SeqNo: 2171192						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1-Dichloroethene	68.55	5.0	50	0	137	67.3	177	0	0		
Chlorobenzene	59.32	5.0	50	0	119	74.4	129	0	0		
Trichloroethene	66.59	5.0	50	0	133	73.8	137	0	0		
Surr: 4-Bromofluorobenzene	49.08	0	50	0	98.2	63.1	120	0	0		
Surr: Dibromofluoromethane	49.09	0	50	0	98.2	73.8	118	0	0		
Surr: Toluene-d8	51.31	0	50	0	103	75.1	120	0	0		

Sample ID: LCS-88243	SampType: LCS	TestCode: 8260_TCL4.2	Units: µg/L	Prep Date: 6/30/2007	RunNo: 107642						
Client ID:	Batch ID: 88243	TestNo: SW8260B		Analysis Date: 6/30/2007	SeqNo: 2173679						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1-Dichloroethene	75.97	5.0	50	0	152	67.3	177	0	0		
Chlorobenzene	52.75	5.0	50	0	106	74.4	129	0	0		
Trichloroethene	53.41	5.0	50	0	107	73.8	137	0	0		
Surr: 4-Bromofluorobenzene	38.25	0	50	0	76.5	63.1	120	0	0		
Surr: Dibromofluoromethane	43.13	0	50	0	86.3	73.8	118	0	0		
Surr: Toluene-d8	42.52	0	50	0	85	75.1	120	0	0		

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Conestoga, Rovers, & Associates, Inc.
 Work Order: 0706G16
 Project: Birdsong Peanut

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_TCL4.2_W

Sample ID: 0706F84-007AMS	SampType: MS	TestCode: 8260_TCL4.2	Units: µg/L	Prep Date: 6/30/2007	RunNo: 107594						
Client ID:	Batch ID: 88184	TestNo: SW8260B		Analysis Date: 6/30/2007	SeqNo: 2171265						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	66.59	5.0	50	0	133	62.7	183	0	0		
Chlorobenzene	59.46	5.0	50	0	119	72.7	130	0	0		
Trichloroethene	65.22	5.0	50	0	130	70.1	138	0	0		
Surr: 4-Bromofluorobenzene	49.8	0	50	0	99.6	63.1	120	0	0		
Surr: Dibromofluoromethane	47.89	0	50	0	95.8	73.8	118	0	0		
Surr: Toluene-d8	51.94	0	50	0	104	75.1	120	0	0		

Sample ID: 0706G16-003AMS	SampType: MS	TestCode: 8260_TCL4.2	Units: µg/L	Prep Date: 6/30/2007	RunNo: 107642						
Client ID: GW-062707 SAG 002	Batch ID: 88243	TestNo: SW8260B		Analysis Date: 6/30/2007	SeqNo: 2173746						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	81.05	5.0	50	0	162	62.7	183	0	0		
Chlorobenzene	57.59	5.0	50	0	115	72.7	130	0	0		
Trichloroethene	55.22	5.0	50	0	110	70.1	138	0	0		
Surr: 4-Bromofluorobenzene	38.02	0	50	0	76	63.1	120	0	0		
Surr: Dibromofluoromethane	42.63	0	50	0	85.3	73.8	118	0	0		
Surr: Toluene-d8	42.37	0	50	0	84.7	75.1	120	0	0		

Sample ID: 0706F84-007AMSD	SampType: MSD	TestCode: 8260_TCL4.2	Units: µg/L	Prep Date: 6/30/2007	RunNo: 107594						
Client ID:	Batch ID: 88184	TestNo: SW8260B		Analysis Date: 6/30/2007	SeqNo: 2171266						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	60.57	5.0	50	0	121	62.7	183	66.59	9.47	20	
Chlorobenzene	59.42	5.0	50	0	119	72.7	130	59.46	0.0673	20	
Trichloroethene	64.82	5.0	50	0	130	70.1	138	65.22	0.615	20	
Surr: 4-Bromofluorobenzene	49.81	0	50	0	99.6	63.1	120	49.8	0	0	
Surr: Dibromofluoromethane	46.29	0	50	0	92.6	73.8	118	47.89	0	0	
Surr: Toluene-d8	51.89	0	50	0	104	75.1	120	51.94	0	0	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

BRL Below Reporting Limit
 J Analyte detected below quantitation limits
 S Spike Recovery outside accepted recovery limits

E Value above quantitation range
 N Analyte not NELAC certified

CLIENT: Conestoga, Rovers, & Associates, Inc.
Work Order: 0706G16
Project: Birdsong Peanut

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_TCL4.2_W

Sample ID: 0706G16-003AMSD		SampType: MSD		TestCode: 8260_TCL4.2		Units: µg/L		Prep Date: 6/30/2007		RunNo: 107642	
Client ID: GW-062707 SAG 002		Batch ID: 88243		TestNo: SW8260B		Analysis Date: 6/30/2007		SeqNo: 2173747			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	78.75	5.0	50	0	158	62.7	183	81.05	2.88	20	
Chlorobenzene	56.83	5.0	50	0	114	72.7	130	57.59	1.33	20	
Trichloroethene	55.51	5.0	50	0	111	70.1	138	55.22	0.524	20	
Surr: 4-Bromofluorobenzene	38.25	0	50	0	76.5	63.1	120	38.02	0	0	
Surr: Dibromofluoromethane	42.25	0	50	0	84.5	73.8	118	42.63	0	0	
Surr: Toluene-d8	42.37	0	50	0	84.7	75.1	120	42.37	0	0	

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

BRL Below Reporting Limit
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

E Value above quantitation range
N Analyte not NELAC certified

CLIENT: Conestoga, Rovers, & Associates, Inc.
 Work Order: 0706G16
 Project: Birdsong Peanut

ANALYTICAL QC SUMMARY REPORT

TestCode: 9056_W

Sample ID: MB-R107491	SampType: MBLK	TestCode: 9056_W	Units: mg/L	Prep Date:	RunNo: 107491						
Client ID:	Batch ID: R107491	TestNo: SW9056		Analysis Date: 6/28/2007	SeqNo: 2169023						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride	BRL	1.0
Sulfate	BRL	1.0

Sample ID: MB-R107772	SampType: MBLK	TestCode: 9056_W	Units: mg/L	Prep Date:	RunNo: 107772						
Client ID:	Batch ID: R107772	TestNo: SW9056		Analysis Date: 7/3/2007	SeqNo: 2175108						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride	BRL	1.0
Sulfate	BRL	1.0

Sample ID: LCS-R107491	SampType: LCS	TestCode: 9056_W	Units: mg/L	Prep Date:	RunNo: 107491						
Client ID:	Batch ID: R107491	TestNo: SW9056		Analysis Date: 6/28/2007	SeqNo: 2169021						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride	10.02	1.0	10	0	100	90	110	0	0
Sulfate	24.88	1.0	25	0	99.5	90	110	0	0

Sample ID: LCS-R107772	SampType: LCS	TestCode: 9056_W	Units: mg/L	Prep Date:	RunNo: 107772						
Client ID:	Batch ID: R107772	TestNo: SW9056		Analysis Date: 7/3/2007	SeqNo: 2175106						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride	10.3	1.0	10	0	103	90	110	0	0
Sulfate	24.55	1.0	25	0	98.2	90	110	0	0

Sample ID: 0706E59-001BMS	SampType: MS	TestCode: 9056_W	Units: mg/L	Prep Date:	RunNo: 107491						
Client ID:	Batch ID: R107491	TestNo: SW9056		Analysis Date: 6/28/2007	SeqNo: 2169026						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride	20.38	1.0	10	9.516	109	90	110	0	0
Sulfate	27.37	1.0	25	2.067	101	90	110	0	0

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Conestoga, Rovers, & Associates, Inc.
Work Order: 0706G16
Project: Birdsong Peanut

ANALYTICAL QC SUMMARY REPORT

TestCode: 9056_W

Sample ID: 0706F04-004DMS	SampType: MS	TestCode: 9056_W	Units: mg/L	Prep Date:	RunNo: 107491						
Client ID:	Batch ID: R107491	TestNo: SW9056		Analysis Date: 6/28/2007	SeqNo: 2169041						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	35.04	1.0	10	25.63	94.1	90	110	0	0		
Sulfate	39.64	1.0	25	14.15	102	90	110	0	0		

Sample ID: 0706G16-007BMS	SampType: MS	TestCode: 9056_W	Units: mg/L	Prep Date:	RunNo: 107772						
Client ID: GW-062707 DJB 104	Batch ID: R107772	TestNo: SW9056		Analysis Date: 7/3/2007	SeqNo: 2175124						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	16.35	1.0	10	6.47	98.8	90	110	0	0		
Sulfate	27.51	1.0	25	2.236	101	90	110	0	0		

Sample ID: 0706G16-002BMS	SampType: MS	TestCode: 9056_W	Units: mg/L	Prep Date:	RunNo: 107772						
Client ID: GW-062707-SAG 00	Batch ID: R107772	TestNo: SW9056		Analysis Date: 7/5/2007	SeqNo: 2175180						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	125.4	5.0	50	71.28	108	90	110	0	0		
Sulfate	171.8	5.0	125	46.02	101	90	110	0	0		

Sample ID: 0706E59-001BMSD	SampType: MSD	TestCode: 9056_W	Units: mg/L	Prep Date:	RunNo: 107491						
Client ID:	Batch ID: R107491	TestNo: SW9056		Analysis Date: 6/28/2007	SeqNo: 2169028						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	20.4	1.0	10	9.516	109	90	110	20.38	0.114	20	
Sulfate	27.19	1.0	25	2.067	100	90	110	27.37	0.891	20	

Sample ID: 0706G16-007BMSD	SampType: MSD	TestCode: 9056_W	Units: mg/L	Prep Date:	RunNo: 107772						
Client ID: GW-062707 DJB 104	Batch ID: R107772	TestNo: SW9056		Analysis Date: 7/3/2007	SeqNo: 2175126						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	16.19	1.0	10	6.47	97.2	90	110	16.35	0.971	20	
Sulfate	27.75	1.0	25	2.236	102	90	110	27.51	0.854	20	

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

ATTACHMENT B

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

ATTACHMENT C

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

APPENDIX R

2009 CRA GROUNDWATER SAMPLING SUMMARY



**CONESTOGA-ROVERS
& ASSOCIATES**

File EDT m
1412 Oakbrook Drive, Suite #180, Norcross, GA 30093
Telephone: 770-441-0027 Facsimile: 770-441-2050
www.CRAworld.com

April 21, 2009

Reference No. 18283-02

Ms. Alexandra Cleary
Georgia Department of Natural Resources
Unit Coordinator
Hazardous Sites Response Program
2 Martin Luther King, Jr. Drive, SE, Suite 1462 East
Atlanta, Georgia 30334-9000

Dear Ms. Cleary:

Re: Groundwater Sampling Summary
Birdsong Peanut (former Farmer's Feed and Milling Company), HSI 10710
Colquitt, Georgia

As requested, Conestoga-Rovers & Associates (CRA) resampled select monitoring wells at the above-referenced Site to assess metal concentrations in groundwater following completion of in-situ groundwater treatment. The results of this monitoring event are summarized below.

On March 5, 2009, monitoring wells MW-5, MW-6, MW-10 and MW-11 were inspected, purged and sampled. Samples were subsequently analyzed for total and dissolved metals. A duplicate sample was collected from monitoring well MW-6 for quality control/quality assurance purposes.

The results of the sampling are summarized on Table 1; the analytical data report is provided as Attachment A to this letter. Figure 1 provides the locations of the monitoring wells sampled during this event. The reported concentrations are below the Type 1 and Type 4 Risk Reduction Standards (RRS) for the reported metals with the exception of: chromium in monitoring wells MW-6 and MW-11 which was reported to be in excess of Type 1 RRS but less than Type 4 RRS; and, selenium in monitoring well MW-10 which marginally exceeded the Type 4 RRS.

During the sampling event, groundwater recovered from monitoring wells MW-6 and MW-11 showed visual evidence of the presence of residual potassium permanganate. The intensity of the final injection would account for the residual permanganate observed in monitoring wells in the heart of the treatment zones.

The variation in metal concentrations observed in the wells sampled is also consistent with the focus of the treatment. The in-situ treatment focused on the area of monitoring wells MW-6 and MW-11. Monitoring well MW-10 is also in the immediate vicinity of the MW-11 and within the treatment zone. Monitoring well MW-5 is further removed from the primary treatment areas and metal concentrations in this well appear to have returned to anticipated ambient

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**CONESTOGA-ROVERS
& ASSOCIATES**

April 21, 2009

2

Reference No. 18283-02

conditions. These observations are consistent with our experience at similar sites where metal concentrations in groundwater will remain elevated in the primary treatment areas but more readily dissipate as groundwater moves away from the primary treatment zones. Accordingly, we do not expect metal concentrations above the Type 1 Risk Reduction Standards to persist at the site.

Based upon these results, we do not believe further remediation is warranted and believe Birdsong Peanut remains appropriate for removal from the HSI. Please contact us if you have any questions at (770) 441-0027.

Yours truly,

CONESTOGA-ROVERS & ASSOCIATES

A handwritten signature in black ink, appearing to be 'R. T. (Bob) Pyle', is written over a horizontal line.

R. T. (Bob) Pyle

RTP/kt/12

cc: Kirsten Ganschow
Les Oakes
Robert Norman

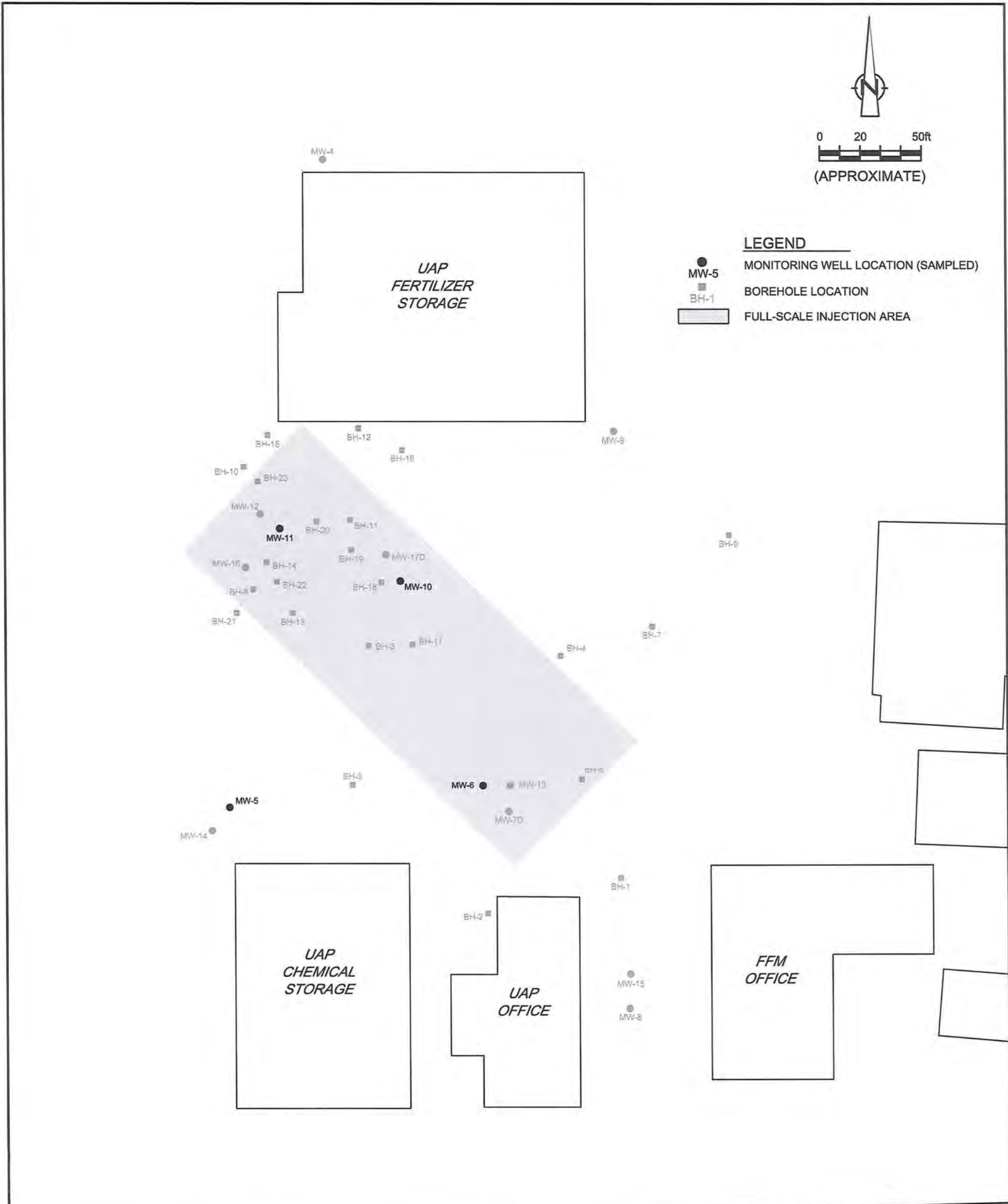


figure 1
MARCH 2009 GROUNDWATER SAMPLE LOCATIONS
BIRDSONG PEANUT
FARMERS FEED AND MILLING COMPANY
Colquitt, Georgia



DIGITIZED FROM AERIAL PHOTOGRAPH, SOURCE: MICROSOFT TERRASERVER/USGS

**ANALYTICAL RESULTS SUMMARY
BIRDSONG PEANUT
COLQUITT, GEORGIA
MARCH 2009**

	Location ID: Sample Name: Sample Date:	Risk Reduction Standards		MW-6	MW-6	MW-10	MW-11	MW-5
		Type 1	Type 4	GW-030509-DJB-001 3/5/2009	GW-030509-DJB-002 3/5/2009 <i>Duplicate</i>	GW-030509-DJB-003 3/5/2009	GW-030509-DJB-004 3/5/2009	GW-030509-DJB-005 3/5/2009
<i>Parameters</i>	<i>Units</i>							
<i>Metals</i>								
Arsenic	mg/L	0.05	0.05	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U
Cadmium	mg/L	0.005	0.051	0.0004 J	0.0007 J	0.0014 J	0.0050 U	0.0050 U
Chromium Total	mg/L	0.1	0.307	0.298	0.294	0.0760	0.279	0.0057 J
Lead	mg/L	0.015	0.015	0.0100 U	0.0100 U	0.0077 J	0.0038 J	0.0100 U
Manganese	mg/L	NV	NV	4.05	4.07	1.31	3.94	0.175 J
Potassium	mg/L	NV	NV	51.4	53.2	788	129	6.09
Selenium	mg/L	0.05	0.511	0.0140 J	0.0156 J	0.0586	0.0151 J	0.0200 U
Silver	mg/L	0.1	0.511	0.0100 U	0.0009 J	0.0100 U	0.0100 U	0.0004 J
<i>Metals (Dissolved)</i>								
Arsenic (Dissolved)	mg/L	0.05	0.05	0.0500 U	—	0.0500 U	0.0500 U	0.0500 U
Cadmium (Dissolved)	mg/L	0.005	0.051	0.0050 U	—	0.0011 J	0.0050 U	0.0050 U
Chromium Total (Dissolved)	mg/L	0.1	0.307	0.298	—	0.0805	0.292	0.0056 J
Lead (Dissolved)	mg/L	0.015	0.015	0.0100 U	—	0.0031 J	0.0100 U	0.0100 U
Manganese (Dissolved)	mg/L	NV	NV	3.42	—	0.880	2.22	0.376 J
Potassium (Dissolved)	mg/L	NV	NV	60.6	—	712	123	8.52
Selenium (Dissolved)	mg/L	0.05	0.511	0.0200 U	—	0.0527	0.0200 U	0.0200 U
Silver (Dissolved)	mg/L	0.1	0.511	0.0007 J	—	0.0100 U	0.0100 U	0.0005 J

Notes:

- Not analyzed.
J Estimated.
U Not detected.
NV No Value

ATTACHMENT A
ANALYTICAL REPORT



AES

March 12, 2009

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

Mike Reinhardt
Conestoga, Rovers, & Associates, Inc.
1412 Oakbrook Drive
Suite 180
Norcross, GA 30093
TEL: (770) 441-0027
FAX: (770) 441-2050

RE: Birdsong Peanut

Order No.: 0903357

Dear Mike Reinhardt:

Analytical Environmental Services, Inc. received 5 samples on 3/6/2009 9:30:00 AM for the analyses presented in the following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/08-06/30/09.
- AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 08/01/09.

These results relate only to the items tested. This report may only be reproduced in full and contains 12 total pages (including cover letter).

If you have any questions regarding these test results, please feel free to call.

Sincerely,

for 
Chantelle Kanhai
Project Manager

שנת ה'תשס"ו

1001 (D) APR 28/97(NF) REV. 0 (F-15)

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client CRA

Work Order Number 0903357

Checklist completed by M. D. 3/6/09
Signature Date

Carrier name: FedEx ☐ UPS ☐ Courier ☐ Client ☒ US Mail ☐ Other ☐

Shipping container/cooler in good condition? Yes ☒ No ☐ Not Present ☐

Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☒

Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒

Container/Temp Blank temperature in compliance? ^{ea 3/6/09} (4°C ± 2)* Yes ☒ No ☐

Cooler #1 3.7°C Cooler #2 ☐ Cooler #3 ☐ Cooler #4 ☐ Cooler #5 ☐ Cooler #6 ☐

Chain of custody present? Yes ☒ No ☐

Chain of custody signed when relinquished and received? Yes ☒ No ☐

Chain of custody agrees with sample labels? Yes ☒ No ☐

Samples in proper container/bottle? Yes ☒ No ☐

Sample containers intact? Yes ☒ No ☐

Sufficient sample volume for indicated test? Yes ☒ No ☐

All samples received within holding time? Yes ☒ No ☐

Was TAT marked on the COC? Yes ☒ No ☐

Proceed with Standard TAT as per project history? Yes ☐ No ☐ Not Applicable ☒

Water - VOA vials have zero headspace? No VOA vials submitted ☒ Yes ☐ No ☐

Water - pH acceptable upon receipt? Yes ☒ No ☐ Not Applicable ☐

Adjusted? ☐ Checked by M. D.

Sample Condition: Good ☒ Other(Explain) ☐

(For diffusive samples or ALPHA lead) Is a known blank included? Yes ☐ No ☒

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

\\Quality Assurance\\Checklists Procedures Sign-Off Templates\\Checklists\\Sample Receipt Checklists\\Sample_Cooler_Receipt_Checklist

Analytical Environmental Services, Inc.

Date: 12-Mar-09

CLIENT: Conestoga, Rovers, & Associates, Inc.

Client Sample ID: GW.030509-DJB-001

Lab Order: 0903357

Collection Date: 3/5/2009 3:20:00 PM

Project: Birdsong Peanut

Lab ID: 0903357-001

Matrix: AQUEOUS

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
METALS, DISSOLVED			SW6010B	(SAMP_FILT)				Analyst: BB
Arsenic	BRL		0.0044	0.0500	mg/L	110689	1	3/9/2009 2:14:35 PM
Cadmium	BRL		0.0003	0.0050	mg/L	110689	1	3/9/2009 2:14:35 PM
Chromium	0.298		0.0006	0.0100	mg/L	110689	1	3/9/2009 2:14:35 PM
Lead	BRL		0.0022	0.0100	mg/L	110689	1	3/9/2009 2:14:35 PM
Manganese	3.42		0.0003	0.0150	mg/L	110689	1	3/9/2009 2:14:35 PM
Potassium	60.6		0.0138	0.500	mg/L	110689	1	3/9/2009 2:14:35 PM
Selenium	BRL		0.0094	0.0200	mg/L	110689	1	3/9/2009 2:14:35 PM
Silver	0.0007	J	0.0003	0.0100	mg/L	110689	1	3/9/2009 2:14:35 PM
METALS, TOTAL			SW6010B	(SW3010A)				Analyst: TAA
Arsenic	BRL		0.0044	0.0500	mg/L	110779	1	3/10/2009 12:39:50 PM
Cadmium	0.0004	J	0.0003	0.0050	mg/L	110779	1	3/10/2009 12:39:50 PM
Chromium	0.298		0.0006	0.0100	mg/L	110779	1	3/10/2009 12:39:50 PM
Lead	BRL		0.0022	0.0100	mg/L	110779	1	3/10/2009 12:39:50 PM
Manganese	4.05		0.0003	0.0150	mg/L	110779	1	3/10/2009 12:39:50 PM
Potassium	51.4		0.0138	0.500	mg/L	110779	1	3/10/2009 12:39:50 PM
Selenium	0.0140	J	0.0094	0.0200	mg/L	110779	1	3/10/2009 12:39:50 PM
Silver	BRL		0.0003	0.0100	mg/L	110779	1	3/10/2009 12:39:50 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
 > Greater than Result value
 E Estimated value above quantitation range
 J Estimated value detected below Reporting Limit
 Rpt Lim Reporting Limit

< Less than Result value
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 S Spike Recovery outside limits due to matrix
 BRL Not detected at MDL

Analytical Environmental Services, Inc.

Date: 12-Mar-09

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0903357
Project: Birdsong Peanut
Lab ID: 0903357-002

Client Sample ID: GW.030509-DJB-002
Collection Date: 3/5/2009 3:30:00 PM

Matrix: AQUEOUS

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
METALS, TOTAL			SW6010B	(SW3010A)				Analyst: TAA
Arsenic	BRL		0.0044	0.0500	mg/L	110779	1	3/10/2009 1:00:29 PM
Cadmium	0.0007	J	0.0003	0.0050	mg/L	110779	1	3/10/2009 1:00:29 PM
Chromium	0.294		0.0006	0.0100	mg/L	110779	1	3/10/2009 1:00:29 PM
Lead	BRL		0.0022	0.0100	mg/L	110779	1	3/10/2009 1:00:29 PM
Manganese	4.07		0.0003	0.0150	mg/L	110779	1	3/10/2009 1:00:29 PM
Potassium	53.2		0.0138	0.500	mg/L	110779	1	3/10/2009 1:00:29 PM
Selenium	0.0156	J	0.0094	0.0200	mg/L	110779	1	3/10/2009 1:00:29 PM
Silver	0.0009	J	0.0003	0.0100	mg/L	110779	1	3/10/2009 1:00:29 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
> Greater than Result value
E Estimated value above quantitation range
J Estimated value detected below Reporting Limit
Rpt Lim Reporting Limit

< Less than Result value
B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
N Analyte not NELAC certified
S Spike Recovery outside limits due to matrix
BRL Not detected at MDL

Analytical Environmental Services, Inc.

Date: 12-Mar-09

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0903357
Project: Birdsong Peanut
Lab ID: 0903357-003

Client Sample ID: GW.030509-DJB-003
Collection Date: 3/5/2009 4:10:00 PM

Matrix: AQUEOUS

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
METALS, DISSOLVED			SW6010B	(SAMP_FILT)				Analyst: BB
Arsenic	BRL		0.0044	0.0500	mg/L	110689	1	3/9/2009 2:18:14 PM
Cadmium	0.0011	J	0.0003	0.0050	mg/L	110689	1	3/9/2009 2:18:14 PM
Chromium	0.0805		0.0006	0.0100	mg/L	110689	1	3/9/2009 2:18:14 PM
Lead	0.0031	J	0.0022	0.0100	mg/L	110689	1	3/9/2009 2:18:14 PM
Manganese	0.880		0.0003	0.0150	mg/L	110689	1	3/9/2009 2:18:14 PM
Potassium	712		0.276	10.0	mg/L	110689	20	3/9/2009 3:54:05 PM
Selenium	0.0527		0.0094	0.0200	mg/L	110689	1	3/9/2009 2:18:14 PM
Silver	BRL		0.0003	0.0100	mg/L	110689	1	3/9/2009 2:18:14 PM
METALS, TOTAL			SW6010B	(SW3010A)				Analyst: TAA
Arsenic	BRL		0.0044	0.0500	mg/L	110779	1	3/10/2009 1:04:37 PM
Cadmium	0.0014	J	0.0003	0.0050	mg/L	110779	1	3/10/2009 1:04:37 PM
Chromium	0.0760		0.0006	0.0100	mg/L	110779	1	3/10/2009 1:04:37 PM
Lead	0.0077	J	0.0022	0.0100	mg/L	110779	1	3/10/2009 1:04:37 PM
Manganese	1.31		0.0003	0.0150	mg/L	110779	1	3/10/2009 1:04:37 PM
Potassium	788		0.138	5.00	mg/L	110779	10	3/12/2009 11:33:59 AM
Selenium	0.0586		0.0094	0.0200	mg/L	110779	1	3/10/2009 1:04:37 PM
Silver	BRL		0.0003	0.0100	mg/L	110779	1	3/10/2009 1:04:37 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
> Greater than Result value
E Estimated value above quantitation range
J Estimated value detected below Reporting Limit
Rpt Lim Reporting Limit

< Less than Result value
B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
N Analyte not NELAC certified
S Spike Recovery outside limits due to matrix
BRL Not detected at MDL

Analytical Environmental Services, Inc.

Date: 12-Mar-09

CLIENT: Conestoga, Rovers, & Associates, Inc.

Client Sample ID: GW.030509-DJB-004

Lab Order: 0903357

Collection Date: 3/5/2009 5:50:00 PM

Project: Birdsong Peanut

Lab ID: 0903357-004

Matrix: AQUEOUS

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
METALS, DISSOLVED								
			SW6010B	(SAMP_FILT)				Analyst: BB
Arsenic	BRL		0.0044	0.0500	mg/L	110689	1	3/9/2009 2:28:25 PM
Cadmium	BRL		0.0003	0.0050	mg/L	110689	1	3/9/2009 2:28:25 PM
Chromium	0.292		0.0006	0.0100	mg/L	110689	1	3/9/2009 2:28:25 PM
Lead	BRL		0.0022	0.0100	mg/L	110689	1	3/9/2009 2:28:25 PM
Manganese	2.22		0.0003	0.0150	mg/L	110689	1	3/9/2009 2:28:25 PM
Potassium	123		0.0690	2.50	mg/L	110689	5	3/9/2009 3:57:36 PM
Selenium	BRL		0.0094	0.0200	mg/L	110689	1	3/9/2009 2:28:25 PM
Silver	BRL		0.0003	0.0100	mg/L	110689	1	3/9/2009 2:28:25 PM
METALS, TOTAL								
			SW6010B	(SW3010A)				Analyst: TAA
Arsenic	BRL		0.0044	0.0500	mg/L	110779	1	3/10/2009 1:08:44 PM
Cadmium	BRL		0.0003	0.0050	mg/L	110779	1	3/10/2009 1:08:44 PM
Chromium	0.279		0.0006	0.0100	mg/L	110779	1	3/10/2009 1:08:44 PM
Lead	0.0038	J	0.0022	0.0100	mg/L	110779	1	3/10/2009 1:08:44 PM
Manganese	3.94		0.0003	0.0150	mg/L	110779	1	3/10/2009 1:08:44 PM
Potassium	129		0.0138	0.500	mg/L	110779	1	3/10/2009 1:08:44 PM
Selenium	0.0151	J	0.0094	0.0200	mg/L	110779	1	3/10/2009 1:08:44 PM
Silver	BRL		0.0003	0.0100	mg/L	110779	1	3/10/2009 1:08:44 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
 > Greater than Result value
 E Estimated value above quantitation range
 J Estimated value detected below Reporting Limit
 Rpt Lim Reporting Limit

< Less than Result value
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 S Spike Recovery outside limits due to matrix
 BRL Not detected at MDL

Analytical Environmental Services, Inc.

Date: 12-Mar-09

CLIENT: Conestoga, Rovers, & Associates, Inc.
Lab Order: 0903357
Project: Birdsong Peanut
Lab ID: 0903357-005

Client Sample ID: GW.030509-DJB-005
Collection Date: 3/5/2009 5:35:00 PM

Matrix: AQUEOUS

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
METALS, DISSOLVED			SW6010B	(SAMP_FILT)				Analyst: BB
Arsenic	BRL		0.0044	0.0500	mg/L	110689	1	3/9/2009 2:32:00 PM
Cadmium	BRL		0.0003	0.0050	mg/L	110689	1	3/9/2009 2:32:00 PM
Chromium	0.0056	J	0.0006	0.0100	mg/L	110689	1	3/9/2009 2:32:00 PM
Lead	BRL		0.0022	0.0100	mg/L	110689	1	3/9/2009 2:32:00 PM
Manganese	0.376		0.0003	0.0150	mg/L	110689	1	3/9/2009 2:32:00 PM
Potassium	8.52		0.0138	0.500	mg/L	110689	1	3/9/2009 2:32:00 PM
Selenium	BRL		0.0094	0.0200	mg/L	110689	1	3/9/2009 2:32:00 PM
Silver	0.0005	J	0.0003	0.0100	mg/L	110689	1	3/9/2009 2:32:00 PM
METALS, TOTAL			SW6010B	(SW3010A)				Analyst: TAA
Arsenic	BRL		0.0044	0.0500	mg/L	110779	1	3/10/2009 1:12:50 PM
Cadmium	BRL		0.0003	0.0050	mg/L	110779	1	3/10/2009 1:12:50 PM
Chromium	0.0057	J	0.0006	0.0100	mg/L	110779	1	3/10/2009 1:12:50 PM
Lead	BRL		0.0022	0.0100	mg/L	110779	1	3/10/2009 1:12:50 PM
Manganese	0.175		0.0003	0.0150	mg/L	110779	1	3/10/2009 1:12:50 PM
Potassium	6.09		0.0138	0.500	mg/L	110779	1	3/10/2009 1:12:50 PM
Selenium	BRL		0.0094	0.0200	mg/L	110779	1	3/10/2009 1:12:50 PM
Silver	0.0004	J	0.0003	0.0100	mg/L	110779	1	3/10/2009 1:12:50 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
> Greater than Result value
E Estimated value above quantitation range
J Estimated value detected below Reporting Limit
Rpt Lim Reporting Limit

< Less than Result value
B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
N Analyte not NELAC certified
S Spike Recovery outside limits due to matrix
BRL Not detected at MDL

CLIENT: Conestoga, Rovers, & Associates, Inc.

Work Order: 0903357

Project: Birdsong Peanut

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010B_W_D

Sample ID: MB-110689	SampType: MBLK	TestCode: 6010B_W_D	Units: mg/L	Prep Date: 3/6/2009	RunNo: 143735						
Client ID:	Batch ID: 110689	TestNo: SW6010B		Analysis Date: 3/9/2009	SeqNo: 2947752						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	BRL	0.0500	0	0	0	0	0	0	0		
Cadmium	BRL	0.00500	0	0	0	0	0	0	0		
Chromium	BRL	0.0100	0	0	0	0	0	0	0		
Lead	BRL	0.0100	0	0	0	0	0	0	0		
Manganese	BRL	0.0150	0	0	0	0	0	0	0		
Potassium	BRL	0.500	0	0	0	0	0	0	0		
Selenium	BRL	0.0200	0	0	0	0	0	0	0		
Silver	0.0005872	0.0100	0	0	0	0	0	0	0		J

Sample ID: LCS-110689	SampType: LCS	TestCode: 6010B_W_D	Units: mg/L	Prep Date: 3/6/2009	RunNo: 143735						
Client ID:	Batch ID: 110689	TestNo: SW6010B		Analysis Date: 3/9/2009	SeqNo: 2947756						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	1.072	0.0500	1	0	107	80	120	0	0		
Cadmium	1.083	0.00500	1	0	108	80	120	0	0		
Chromium	1.06	0.0100	1	0	106	80	120	0	0		
Lead	1.058	0.0100	1	0	106	80	120	0	0		
Manganese	1.058	0.0150	1	0	106	80	120	0	0		
Potassium	11.69	0.500	10	0	117	80	120	0	0		
Selenium	1.073	0.0200	1	0	107	80	120	0	0		
Silver	0.1053	0.0100	0.1	0.0005872	105	80	120	0	0		

Sample ID: 0903315-001CMS	SampType: MS	TestCode: 6010B_W_D	Units: mg/L	Prep Date: 3/6/2009	RunNo: 143735						
Client ID:	Batch ID: 110689	TestNo: SW6010B		Analysis Date: 3/9/2009	SeqNo: 2947763						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	1.081	0.0500	1	0	108	75	125	0	0		

Qualifiers:	<	Less than Result value	>	Greater than Result value	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Estimated value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

CLIENT: Conestoga, Rovers, & Associates, Inc.
 Work Order: 0903357
 Project: Birdsong Peanut

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010B_W_D

Sample ID: 0903315-001CMS	SampType: MS	TestCode: 6010B_W_D	Units: mg/L	Prep Date: 3/6/2009	RunNo: 143735						
Client ID:	Batch ID: 110689	TestNo: SW6010B		Analysis Date: 3/9/2009	SeqNo: 2947763						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	1.086	0.00500	1	0.0003333	109	75	125	0	0		
Chromium	1.066	0.0100	1	0	107	75	125	0	0		
Lead	1.068	0.0100	1	0	107	75	125	0	0		
Manganese	1.088	0.0150	1	0.02744	106	75	125	0	0		
Potassium	12.2	0.500	10	0.2393	120	75	125	0	0		
Selenium	1.083	0.0200	1	0	108	75	125	0	0		
Silver	0.1063	0.0100	0.1	0.0004228	106	75	125	0	0		

Sample ID: 0903315-001CMSD	SampType: MSD	TestCode: 6010B_W_D	Units: mg/L	Prep Date: 3/6/2009	RunNo: 143735						
Client ID:	Batch ID: 110689	TestNo: SW6010B		Analysis Date: 3/9/2009	SeqNo: 2947765						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	1.083	0.0500	1	0	108	75	125	1.081	0.116	20	
Cadmium	1.082	0.00500	1	0.0003333	108	75	125	1.086	0.340	20	
Chromium	1.066	0.0100	1	0	107	75	125	1.066	0.0375	20	
Lead	1.06	0.0100	1	0	106	75	125	1.068	0.684	20	
Manganese	1.084	0.0150	1	0.02744	106	75	125	1.088	0.372	20	
Potassium	12.13	0.500	10	0.2393	119	75	125	12.2	0.552	20	
Selenium	1.087	0.0200	1	0	109	75	125	1.083	0.308	20	
Silver	0.106	0.0100	0.1	0.0004228	106	75	125	0.1063	0.247	20	

Qualifiers:	<	Less than Result value	>	Greater than Result value	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Estimated value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

CLIENT: Conestoga, Rovers, & Associates, Inc.
 Work Order: 0903357
 Project: Birdsong Peanut

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010B_W_T

Sample ID: MB-110779	SampType: MBLK	TestCode: 6010B_W_T	Units: mg/L	Prep Date: 3/10/2009	RunNo: 143872						
Client ID:	Batch ID: 110779	TestNo: SW6010B		Analysis Date: 3/10/2009	SeqNo: 2952083						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	BRL	0.0500	0	0	0	0	0	0	0		
Cadmium	BRL	0.00500	0	0	0	0	0	0	0		
Chromium	BRL	0.0100	0	0	0	0	0	0	0		
Lead	BRL	0.0100	0	0	0	0	0	0	0		
Manganese	BRL	0.0150	0	0	0	0	0	0	0		
Potassium	BRL	0.500	0	0	0	0	0	0	0		
Selenium	BRL	0.0200	0	0	0	0	0	0	0		
Silver	0.0003801	0.0100	0	0	0	0	0	0	0		J

Sample ID: LCS-110779	SampType: LCS	TestCode: 6010B_W_T	Units: mg/L	Prep Date: 3/10/2009	RunNo: 143872						
Client ID:	Batch ID: 110779	TestNo: SW6010B		Analysis Date: 3/10/2009	SeqNo: 2952080						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.9964	0.0500	1	0	99.6	85	115	0	0		
Cadmium	0.9994	0.00500	1	0	99.9	85	115	0	0		
Chromium	0.9964	0.0100	1	0	99.6	85	115	0	0		
Lead	0.9751	0.0100	1	0	97.5	85	115	0	0		
Manganese	1.005	0.0150	1	0	101	85	115	0	0		
Potassium	9.486	0.500	10	0	94.9	85	115	0	0		
Selenium	0.9684	0.0200	1	0	96.8	85	115	0	0		
Silver	0.09962	0.0100	0.1	0.0003801	99.2	85	115	0	0		

Sample ID: 0903357-001AMS	SampType: MS	TestCode: 6010B_W_T	Units: mg/L	Prep Date: 3/10/2009	RunNo: 143872						
Client ID: GW.030509-DJB-001	Batch ID: 110779	TestNo: SW6010B		Analysis Date: 3/10/2009	SeqNo: 2952095						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.9632	0.0500	1	0	96.3	75	125	0	0		
Cadmium	0.938	0.00500	1	0.00039	93.8	75	125	0	0		
Chromium	1.206	0.0100	1	0.2982	90.8	75	125	0	0		

Qualifiers:	<	Less than Result value	>	Greater than Result value	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Estimated value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

CLIENT: Conestoga, Rovers, & Associates, Inc.
 Work Order: 0903357
 Project: Birdsong Peanut

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010B_W_T

Sample ID: 0903357-001AMS	SampType: MS	TestCode: 6010B_W_T	Units: mg/L	Prep Date: 3/10/2009	RunNo: 143872						
Client ID: GW.030509-DJB-001	Batch ID: 110779	TestNo: SW6010B		Analysis Date: 3/10/2009	SeqNo: 2952095						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.9035	0.0100	1	0	90.4	75	125	0	0		
Manganese	4.902	0.0150	1	4.045	85.6	75	125	0	0		
Potassium	62.22	0.500	10	51.38	108	75	125	0	0		
Selenium	0.9488	0.0200	1	0.014	93.5	75	125	0	0		
Silver	0.09507	0.0100	0.1	0	95.1	75	125	0	0		

Sample ID: 0903357-001AMSD	SampType: MSD	TestCode: 6010B_W_T	Units: mg/L	Prep Date: 3/10/2009	RunNo: 143872						
Client ID: GW.030509-DJB-001	Batch ID: 110779	TestNo: SW6010B		Analysis Date: 3/10/2009	SeqNo: 2952098						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.9269	0.0500	1	0	92.7	75	125	0.9632	3.85	20	
Cadmium	0.9081	0.00500	1	0.00039	90.8	75	125	0.938	3.23	20	
Chromium	1.165	0.0100	1	0.2982	86.7	75	125	1.206	3.44	20	
Lead	0.8808	0.0100	1	0	88.1	75	125	0.9035	2.55	20	
Manganese	4.752	0.0150	1	4.045	70.7	75	125	4.902	3.10	20	S
Potassium	59.56	0.500	10	51.38	81.8	75	125	62.22	4.37	20	
Selenium	0.9243	0.0200	1	0.014	91	75	125	0.9488	2.61	20	
Silver	0.09323	0.0100	0.1	0	93.2	75	125	0.09507	1.96	20	

Qualifiers:	<	Less than Result value	>	Greater than Result value	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Estimated value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

APPENDIX S

2009 CRA CAP



CORRECTIVE ACTION PLAN

**FORMER FARMER'S FEED AND MILLING COMPANY,
NOW BIRDSONG PEANUT
608 EAST MAIN STREET**

**(HSI SITE NO. 10710)
COLQUITT, GEORGIA**

DECEMBER 2009

Ref. No. 18283 (8)

This report is printed on recycled paper.



CORRECTIVE ACTION PLAN

**FORMER FARMER'S FEED AND MILLING COMPANY,
NOW BIRDSONG PEANUT
608 EAST MAIN STREET**

**(HSI SITE NO. 10710)
COLQUITT, GEORGIA**

DECEMBER 2009

Ref. No. 18283 (8)

This report is printed on recycled paper.

**Prepared by:
Conestoga-Rovers
& Associates**

1412 Oakbrook Drive, Suite 180
Norcross, Georgia 30093

Office: 770-441-0027
Fax: 770-441-2050

Former Farmer's Feed and Milling Company
Now Birdsong Peanut
608 East Main Street
Colquitt, Georgia
HSI Site No. 10710

CERTIFICATION OF CORRECTIVE ACTION PLAN

I certify that I am a qualified groundwater scientist who has received a baccalaureate or post-graduate degree in the natural sciences or engineering, and have sufficient training and experience in groundwater hydrology and related fields, as demonstrated by state registration, professional certifications, and completion of accredited university courses, that enable me to make sound professional judgments regarding groundwater monitoring and contaminant fate and transport. I further certify that this report was prepared by me or by a subordinate working under my direction.

John A. DiZinno, PE

Printed Name (Professional Engineer)



Signature (Professional Engineer)

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(Following Text)

FIGURE 1 SITE LOCATION MAP

FIGURE 2 SITE PLAN

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APPENDIX A PUBLIC PARTICIPATION DOCUMENTS

APPENDIX B ANNUAL WRITTEN REPORT AND CERTIFICATION
OF COMPLIANCE WITH TYPE 3 RISK REDUCTION STANDARDS

1.0 INTRODUCTION

Conestoga-Rovers & Associates (CRA) has prepared this Corrective Action Plan (CAP) on behalf of Man Investments Holdings Inc. ("MIHI") for the former Farmer's Feed and Milling Company (FFM), now Birdsong Peanut, in Colquitt, Miller County, Georgia (Property). Man Group USA Inc. (formerly EDF & Man, Inc.) sold the Colquitt business to Birdsong Peanut and retained responsibility for certain environmental liabilities, including the CAP, and then later transferred this responsibility to its former affiliate, MIHI. A Property location map is provided as Figure 1

1.1 BACKGROUND

This facility was listed as Site Number 10710 on the Hazardous Sites Inventory (HSI) on December 17, 2001, due to the detection of tetrachloroethene (also known as perchloroethene, PCE) above Notification Concentrations (NCs) in the groundwater beneath a limited portion of the Property. There have been no detections of PCE in soil at or above NCs or applicable Risk Reduction Standards (RRSs).

The HSI "Site" consists of the limited area within the Property where groundwater had been affected by PCE.

A separate Compliance Status Report (CSR) described in detail the distribution of PCE in groundwater at the Site and was submitted to the Environmental Protection Division of the Georgia Department of Natural Resources (EPD) in September 2005. Because some monitoring wells had shown concentrations of PCE in groundwater exceeded applicable RRSs, a CAP was submitted to EPD in September 2005. The CAP called for the injection of potassium permanganate to oxidize residual PCE and associated degradation products in the groundwater. The injection was performed in November 2006 in accordance with the CAP and a subsequent CAP Addendum dated June 6, 2006. Groundwater monitoring to assess the effectiveness of the injection program was performed in December 2006 and April 2007. The results of these monitoring events were reported to EPD in correspondence dated May 10, 2007. The monitoring demonstrated that volatile organic compounds (VOCs) in groundwater had effectively been remediated to non-detect levels. Additional groundwater samples were collected in March 2009 for metals analyses at the request of EPD. The results of this most recent sampling event were reported to EPD in a Groundwater Sampling Summary dated April 21, 2009. The Groundwater Sampling Summary showed that

groundwater quality beneath the Site met the Type 1 Risk Reduction Standards in all wells with the exception of: chromium in monitoring wells MW-6 and MW-11 (which was reported to be in excess of Type 1 RRS but less than Type 4 RRS); and, selenium in monitoring well MW-10 (which marginally exceeded the Type 1 RRS but was well below the Type 4 RRS).

The marginal exceedences of the above noted metals in groundwater in the immediate groundwater treatment area are considered remnants of the injection process and metal concentrations in groundwater are expected to return to ambient conditions in the near future. Based on the reported results, the groundwater beneath the Site complies with Type 4 RRS.

1.2 PURPOSE

The purpose of the CAP is to describe those activities that are necessary to ensure the Site remains in compliance with the Type 4 Risk Reduction Standards (RRS) provided in the Georgia Rules for Hazardous Site Response (Chapter 391-3-19). The Rules were promulgated under authority of the Hazardous Site Response Act (HSRA), OCGA § 12-8-90 et seq. (1992). This CAP will remain in effect until it is demonstrated that the Site is in compliance with Type 1 or Type 2 RRS or the Director determines that this action is no longer required.

1.3 REPORT ORGANIZATION

This CAP is organized as follows:

1. Section 2 provides a brief property description;
2. Section 3 describes the remedy for the Site ; and,
3. Section 4 provides a schedule for the activities described in the CAP.

2.0 PROPERTY DESCRIPTION

The Birdsong Peanut Property is a peanut buying and shelling facility, located northeast of the intersection of the Georgia Southwestern Railroad and East Main Street (Georgia State Highway 91), in Colquitt, Miller County, Georgia. The Property location is shown on the USGS topographic map presented on Figure 1.

The Property consists of approximately 40 acres, and is located within an agricultural/commercial district with adjacent properties zoned primarily as commercial. The Property is bounded on the north by Pine Street, additional storage and operations buildings owned by Birdsong Peanut, and Yates Concrete; on the east by Pert South laboratory, commercial properties, and additional storage and operations for Birdsong Peanut; on the south by Main Street and Southern States agricultural business (agricultural chemicals and peanut buying); and on the west by the Georgia Southwestern Railroad, with residential properties further to the west. To the southwest is a former petroleum bulk storage facility owned by Tully Oil Company, previously owned by Roy W. Bush Oil Company.

The "Site", defined as the area previously affected by a release of PCE, is restricted to a limited portion of the southwest quarter of the Property east of the railroad right-of-way, between the chemical storage building and fertilizer storage building currently leased by United Agricultural Products (UAP).

Figure 2 is a scale drawing that shows the developed features of the Property. The majority of the Property that is not occupied by buildings is paved with either asphalt or concrete. The Property is flat, with a very gentle slope to the east. Stormwater runoff from Property buildings and paved areas is conveyed through paved drainage swales and ditches to catch basins connected to the municipal storm sewer, and ultimately discharges to local creeks. Additional details about the Property are provided in the CSR previously submitted on September 15, 2005.

The Site and adjacent properties are currently used for commercial purposes. Based on current and anticipated future Site use, Type 4 Risk Reduction Standards are protective of human health and the environment and are considered appropriate for the Site.

3.0 CORRECTIVE ACTION

Corrective action to be performed at the Site is intended to monitor Site use to ensure the Site remains in compliance with Type 4 Risk Reduction Standards, until such time that it can be demonstrated that the Site complies with Type 1 or 2 Risk Reduction Standards or the Director determines that this action is no longer required.

The Corrective Action Plan consists of three components, as follows:

1. placement of notices in private property instruments;
2. placement of an affidavit in County deed records; and,
3. annual monitoring of Site use.

Each of the above components is further described below.

3.1 NOTICES IN PRIVATE PROPERTY INSTRUMENTS

Notices shall be placed in private property instruments pursuant to rule: 391-3-19-.06(d). Birdsong Peanut shall include the following notice in each warranty deed, mortgage, security deed, lease, rental agreement and other instrument that is hereafter given or caused to be given which creates an interest in or grants a use of the Birdsong Peanut Site:

"This property has been listed on the state's hazardous site inventory and has been designated as needing corrective action due to the presence of hazardous substances regulated under state law. Contact the property owner or the Georgia Environmental Protection Division for further information concerning this property. This notice is provided in compliance with the Georgia Hazardous Site Response Act."

3.2 AFFIDAVIT IN COUNTY DEED RECORDS

An affidavit shall be filed in the county deed records pursuant to Rule 391-3-19-.06(6)(b)(2), as follows:

1. Filing with Clerk of Superior Court: Birdsong Peanut shall file with the Clerk of Superior Court of Miller County, Georgia the affidavit that is attached in

Appendix A. This affidavit shall be recorded in the Clerk's deed records pursuant to OCGA 44-2-20.

2. Notice to EPD: Within thirty (30) days after the recorded affidavit required by Paragraph 1 is returned by the Clerk, Birdsong Peanut shall submit a copy of the recorded affidavit to EPD.

3.3 MONITORING TO ASSURE COMPLIANCE

Monitoring of Site use shall be performed on an annual basis to ensure compliance with Type 4 RRS pursuant to Rule 391-3-19-.07(9)(B).

MIHI shall institute and conduct the following monitoring program to assure continued compliance with Type 4 Risk Reduction Standards:

1. On-Site Monitoring: MIHI shall monitor periodically the Birdsong Peanut Site to ensure that its actual use is consistent with Type 4 Risk Reduction Standards. To fulfill this requirement, MIHI shall conduct an on-site inspection of the Site at least annually; it is anticipated the inspection shall be performed in May of each year.
2. Annual Written Report and Certification to EPD: On or before July 1 of each year, MIHI shall submit an annual written report, in the form provided in Appendix B, to the Hazardous Site Response Program to certify the Site's continued compliance with this Corrective Action Plan and shall further certify that, based on the on-site inspection, the actual use of the Site is consistent with its non-residential status. The report shall include the following certification.

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

3. Notice to Georgia EPD prior to Transfer of Property: In the event that Birdsong Peanut conveys the whole or any part of its ownership interest in the Site or in

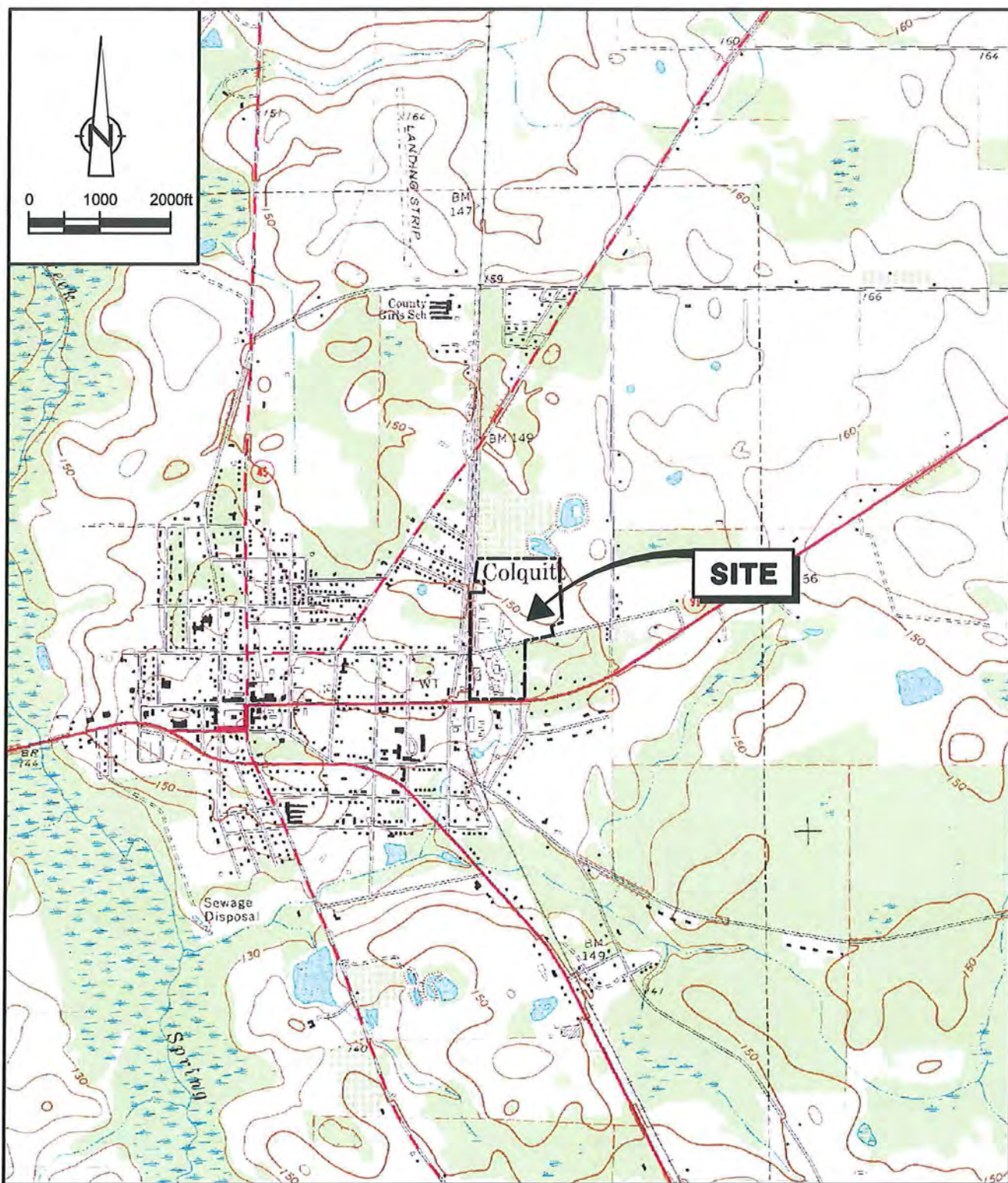
the event that title to the real property at the Site is conveyed, in whole or in part, to any other person by operation of law, Birdsong Peanut shall, not fewer than thirty (30) days after the proposed conveyance, notify Georgia EPD in writing of the name and address of the transferee or successor in title, and of the nature and date of the transfer or conveyance.

In addition to the above, although not required to demonstrate compliance with the Type 4 RRS, MIHI shall conduct future groundwater sampling events to determine when the groundwater beneath the Site complies with the Type 1 or 2 RRS. As previously noted, the exceedences of the above noted metals in groundwater in the immediate groundwater treatment area are considered remnants of the injection process and metal concentrations in groundwater are expected to return to ambient conditions in the near future. Monitoring wells within the treatment zone that showed exceedences of the Type 1 RRS (MW-6, MW-10 and MW-11) shall be sampled and the samples shall be analyzed for select metals. A request to terminate the annual monitoring and reporting and remove the notices (per Section 3.1 above) and affidavits (per Section 3.2 above) shall be forwarded to EPD along with certification that the Site complies with the applicable Type 1 or 2 RRS once the groundwater samples demonstrate compliance.

4.0 SCHEDULE

The CAP shall be initiated within 30 days of approval by EPD. The first annual written report and certification shall be due on or before July 1, 2010.

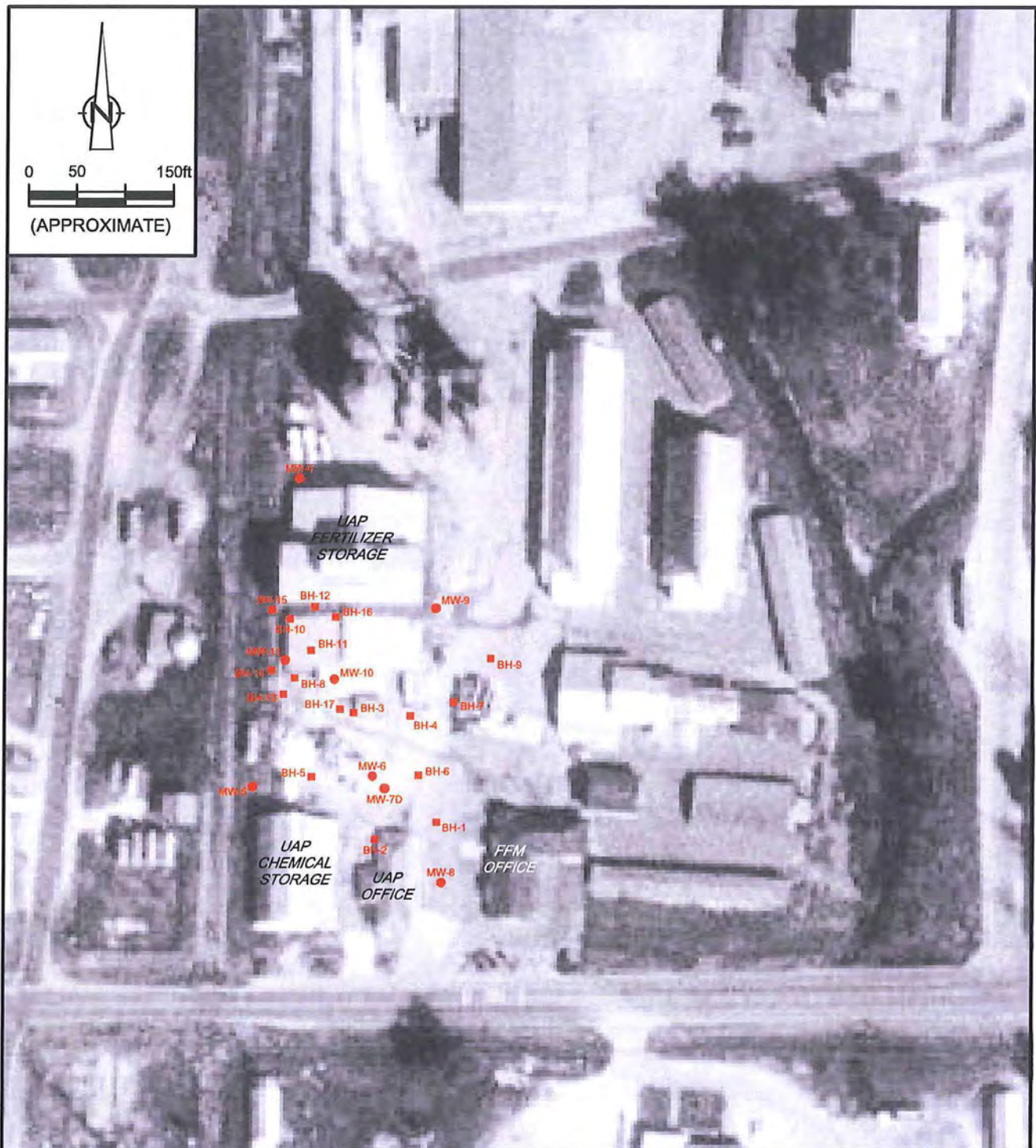
Notices in private property instruments and placement of the affidavit in County deed records shall be completed within 90 days of CAP approval.



SOURCE: USGS QUADRANGLE: COLQUITT, GA (1974)



figure 1
SITE LOCATION MAP
FARMER'S FEED AND MILLING CO.
Colquitt, Georgia



AERIAL PHOTOGRAPH SOURCE: MICROSOFT TERRASERVER/USGS

LEGEND

- MW-5 MONITORING WELL LOCATION
- BH-1 BOREHOLE LOCATION



figure 2
SITE PLAN
BIRDSONG PEANUT PLANT
FARMERS FEED AND MILLING COMPANY
Colquitt, Georgia

APPENDIX A
AFFIDAVIT WITH RESPECT TO TITLE

STATE OF GEORGIA COUNTY OF WILKINSON

BEFORE ME the undersigned officer, duly authorized to administer oaths, came _____ a resident of the State of _____, whose age is _____, and whose business address is _____, and who being duly sworn, on oath deposes and says that he is familiar with and has personal knowledge of the matters set forth below:

1. That deponent is Birdsong Peanut and makes this Affidavit for and on behalf of Birdsong Peanut.
2. That Birdsong Peanut is the owner in fee simple of that certain real property more particular described on Appendix A attached hereto and incorporated herein by this reference (the "Property") which Property was acquired by Birdsong Peanut pursuant to deed recorded in Deed Book _____, Page _____, _____ County, Georgia records;
3. That the Property has been listed on the State of Georgia's hazardous site inventory and has been designated s needing corrective action due to the presence of hazardous wastes, hazardous constituents, or hazardous substances regulated under Georgia law. Contact the County, as the owner of the Property, or the Georgia Environmental Protection Division for further information concerning this Property.

This Affidavit is made pursuant to the provisions of the Georgia Hazardous Sites Response Act and Department of Natural Resources Rule 391-3-19-.06(8)(2), with knowledge that same will be filed for record under the provisions of Official Code of Georgia Annotated Section §44-2-20, and with knowledge that it will be relied on by attorneys examining title to the above described land, by a purchaser or purchasers in purchasing said property, by a lender or lenders in making a loan or loans secured by said property and by a title insurance County in issuing its policies of title insurance to said purchaser(s) and/or lender(s). The notice contained in Paragraph 3 of this Affidavit is given pursuant to the provisions of the Georgia Hazardous Sites Response Act and Department of Natural Resources Rule 391-3-19-.06(8)(2).

Sworn to and subscribed before me this day _____ of _____.

Notary Public

My Commission Expires:

(Notary Seal)

APPENDIX B
ANNUAL WRITTEN REPORT AND CERTIFICATION OF COMPLIANCE WITH TYPE 3
RISK REDUCTION STANDARDS

Hazardous Sites Response Program
Georgia Environmental Protection Division
205 Butler Street, S.E., Suite 1162
Atlanta, Georgia 30334
CIO Ms. Alexander Cleary

Re: Former Farmer's Feed and Milling Company (now Birdsong Peanut) HIS #10710, Annual
Monitoring Report

Dear Ms. Cleary

_____ hereby certifies that it has complied with the terms of the Correction Action Plan for the above-referenced site (the "Site"). This annual report is submitted to fulfill the requirements of Section 3.3.3 of the Corrective Action Plan for the above referenced site.

In compliance with Section 3.3 of the Corrective Action Plan, _____ conducted an on-site inspection of the Site on _____ 20____. This inspection was conducted by _____. This inspection was conducted to verify that the actual use of the site is and has been consistent with its non-residential status. The inspection revealed no evidence of any inconsistent use.

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

APPENDIX T

2010 CRA GROUNDWATER SAMPLING SUMMARY



**CONESTOGA-ROVERS
& ASSOCIATES**

3075 Breckinridge Blvd., Suite 470, Duluth, GA 30096
Telephone: (770) 441-0027 Fax: (770) 441-2050
www.CRAworld.com

Free EDP Man

May 5, 2010

Reference No. 018283-01

Ms. Alexandra Cleary
Georgia Department of Natural Resources
Unit Coordinator
Hazardous Sites Response Program
2 Martin Luther King, Jr. Drive, SE, Suite 1462 East
Atlanta, Georgia 30334-9000

Dear Ms. Cleary:

Re: March 2010 Groundwater Sampling Summary
Birdsong Peanut (former Farmer's Feed and Milling Company), HSI No. 10710
Colquitt, Georgia

Conestoga-Rovers & Associates (CRA), on behalf of Man Investments Holdings Inc. (MIHI), submitted the Corrective Action Plan (CAP) for the above referenced HSI site to the Georgia Environmental Protection Division (EPD) in December 2009. The status of activities proposed in the CAP was reviewed on March 1, 2010 at a meeting attended by CRA (Mr. Bob Pyle), King & Spalding LLP (Mr. Les Oakes), and EPD (Ms. Alexandra Cleary, Mr. Greg Gilmore and Ms. Antonia Beavers). As agreed upon during the meeting, groundwater sampling events will be performed at the Birdsong Peanut property (Property) in association with the annual monitoring component of the CAP. A summary of the recent groundwater sampling event conducted on the Property is provided below.

On March 24, 2010 CRA conducted a groundwater monitoring and sampling event, which included the following activities:

- inspecting the exterior condition of 14 monitoring wells (MW-4, MW-5, MW-6, MW-7D, MW-8, MW-9, MW-10, MW-11, MW-12, MW-13, MW-14, MW-15, MW-16, and MW-17D);
- measuring the depth to groundwater in the wells designated for inspection; and
- purging and collecting groundwater samples from four (4) designated monitoring wells within and near the primary treatment zone (MW-5, MW-6, MW-10, and MW-11).

Twelve monitoring wells were located during the inspection and each well appeared to be in satisfactory condition with the exception of monitoring well MW-4, which had a damaged surface casing. Monitoring wells MW-12 and MW-16 were not found and have presumably been covered with dirt. The locations of the monitoring wells designated for inspection and sampling are shown on [Figure 1](#).

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Depths to groundwater were measured relative to the top of casing (TOC) at each accessible monitoring well location with an electronic water level meter in accordance with the United States Environmental Protection Agency (EPA) Region 4 Field Branches Quality System and Technical Procedures (FBQSTP), Science and Ecosystem Support Division (SESD), Guidance Number SESDPROC-105-R1 (*Groundwater Level and Well Depth Measurement*). The March 2010 depths to groundwater and groundwater elevations are listed in [Table 1](#).

Following measurement of the depths to groundwater, monitoring wells MW-5, MW-6, MW-10, and MW-11 were purged based upon their well volumes and sampled in accordance with FBQSTP, SESD Procedure Number SESDPROC-301-R1 (*Groundwater Sampling*). Each sampling location was purged using a peristaltic pump fitted with dedicated ¼-inch outer diameter (¼"-OD) polyethylene tubing. Field parameters (i.e., pH, temperature, conductivity, turbidity, dissolved oxygen [DO], and oxidation-reduction potential [ORP]) were measured in the flow-through cell of a calibrated, multi-parameter water quality meter¹ and the depth to groundwater was monitored with an electronic water level meter. Stabilization of the field parameters indicated entry of representative formation water into the screened interval. A minimum of three (3) well volumes were removed from MW-5 and MW-6 prior to stabilization. Monitoring wells MW-10 and MW-11 were purged dry following removal of 2.2 and 1.3 well volumes, respectively. Upon stabilization of the field parameters in MW-5 and MW-6 and following an adequate recovery period in MW-10 and MW-11, sampling was performed with the same equipment used for purging. Records of the monitoring well purging data, including visual observations such as groundwater color, are presented in [Attachment A](#).

Five (5) groundwater samples, including one field duplicate, were collected from MW-5, MW-6, MW-10, and MW-11 for analysis of the following parameters with the associated analytical methods:

- *Total and Dissolved Metals*, including: arsenic, cadmium, chromium, copper, lead, manganese, potassium, selenium, and silver (EPA Method 6020A); and,
- *Speciated Chromium*, including: *total* and *dissolved* trivalent chromium (Cr[III]) and hexavalent chromium (Cr[VI]) (EPA Method 7196).

Samples collected for analysis of total metals and total speciated chromium (Cr[III] and Cr[VI]) were transferred directly into preserved and unpreserved sample bottles, respectively, provided by the laboratory. Each sample collected for analysis of dissolved parameters was filtered directly into the preserved (dissolved total metals) and unpreserved (dissolved Cr[III] and Cr[VI]) sample bottles through a dedicated 0.45-micron filter.

¹ Horiba U-53 water quality meter.



All groundwater samples were preserved on ice in a cooler and were submitted to Analytical Environmental Services, Inc. (AES) in Atlanta, Georgia under standard chain of custody protocols on March 25, 2010. One blind duplicate sample was collected from monitoring well MW-6 (GW-032410-DJB-005) and was submitted to AES for an internal quality assurance/quality control assessment. The validated March 2010 groundwater analytical results are summarized in [Table 2](#). A sample key, data quality assessment and validation memorandum, and complete analytical data report are provided as [Attachment B](#). Prior data are summarized on [Table 3](#) along with current data for comparison.

The March 2010 groundwater analytical results were evaluated with respect to the Georgia Hazardous Site Response Act (HSRA) Risk Reduction Standards (RRS) presented in [Table 2](#) and [Table 3](#). The criteria consist of Type 1 RRS and Type 4 RRS, which represent the concentrations of regulated substances which pose no significant risk for residential and non-residential land uses, respectively. Groundwater Type 1 RRS are listed in Georgia Rule 391-3-19-Appendix III; the non-residential criteria, or Type 4 RRS, are determined based upon site-specific data. As described in correspondence dated January 15, 2010, CRA evaluated historical analytical data and the anticipated land use of the Property to calculate the Type 4 RRS presented in [Table 2](#). Derivation of the Type 4 RRS is shown in [Attachment C](#).

Groundwater concentrations of total and dissolved metals were generally below the Type 1 RRS with the exception of chromium, cadmium and selenium. Cadmium and selenium were reported to be in excess of Type 1 RRS but less than Type 4 RRS in monitoring well MW-10. Variation between the concentrations of cadmium detected in the unfiltered (total) and filtered (dissolved) samples collected from MW-10 suggest that the presence of unfiltered sediments contributed to the total concentration of cadmium (0.00938 milligrams per liter [mg/L]) exceeding the Type 1 RRS (0.005 mg/L). The total (0.0592 mg/L) and dissolved (0.0673 mg/L) concentrations of selenium in MW-10 marginally exceeded the Type 1 RRS (0.05 mg/L). Manganese concentrations in the filtered and unfiltered groundwater samples were all below the pre-injection baseline concentration of 10 mg/L.

Historical concentrations of chromium, particularly in monitoring well MW-6, have exceeded Type 4 RRS; therefore, additional samples were collected in March 2010 for analysis of speciated chromium (i.e., chromium of different oxidation states [trivalent and hexavalent]) to assess the status of compliance. Total and dissolved concentrations of trivalent chromium (Cr[III]) in all groundwater samples were measured below the Type 1 RRS (0.1 mg/L). Hexavalent chromium (Cr[VI]) was detected in all of the filtered and unfiltered groundwater samples at concentrations which exceeded the Type 1 (0.01 mg/L) and Type 4 RRS (0.0572 mg/L) in all samples except from monitoring well MW-5 where the Cr[VI] concentration exceeded the Type 1 RRS but was less than the Type 4 RRS. The Cr[VI] concentrations increased with proximity to the in-situ chemical oxidation (ISCO) treatment area: Cr[VI] concentrations in monitoring well MW-5, which is farthest from the full-scale injection area (see [Figure 1](#)), were the lowest amongst



**CONESTOGA-ROVERS
& ASSOCIATES**

May 5, 2010

4

Reference No. 018283


analyzed samples while elevated Cr[VI] concentrations were detected in the samples collected from MW-6 and MW-11 (primary treatment area).

During the sampling event, groundwater recovered from monitoring wells MW-5, MW-6, and MW-11 showed visual evidence (e.g. pink/purple tint) of the presence of residual potassium permanganate. The intensity of the final injection in May 2004 required to oxidize residual VOCs would account for the residual permanganate observed in monitoring wells within and downgradient of the treatment zone. Based upon the brownish tint of groundwater purged from MW-10, it appears that reduction of the potassium permanganate (i.e., oxidation of tetrachloroethene [PCE] and associated degradation products) has occurred at the Property. These observations are consistent with our experience at similar sites where metal concentrations in groundwater will remain elevated in the primary treatment areas but more readily dissipate as groundwater moves away from the primary treatment zones.

Based upon these results, we do not believe further remediation is warranted. Groundwater monitoring and sampling will continue on an annual basis until metals concentrations are measured in compliance with Type 1 or 2 RRS or approved alternative criteria. Please contact us if you have any questions at (770) 441-0027.

Yours truly,

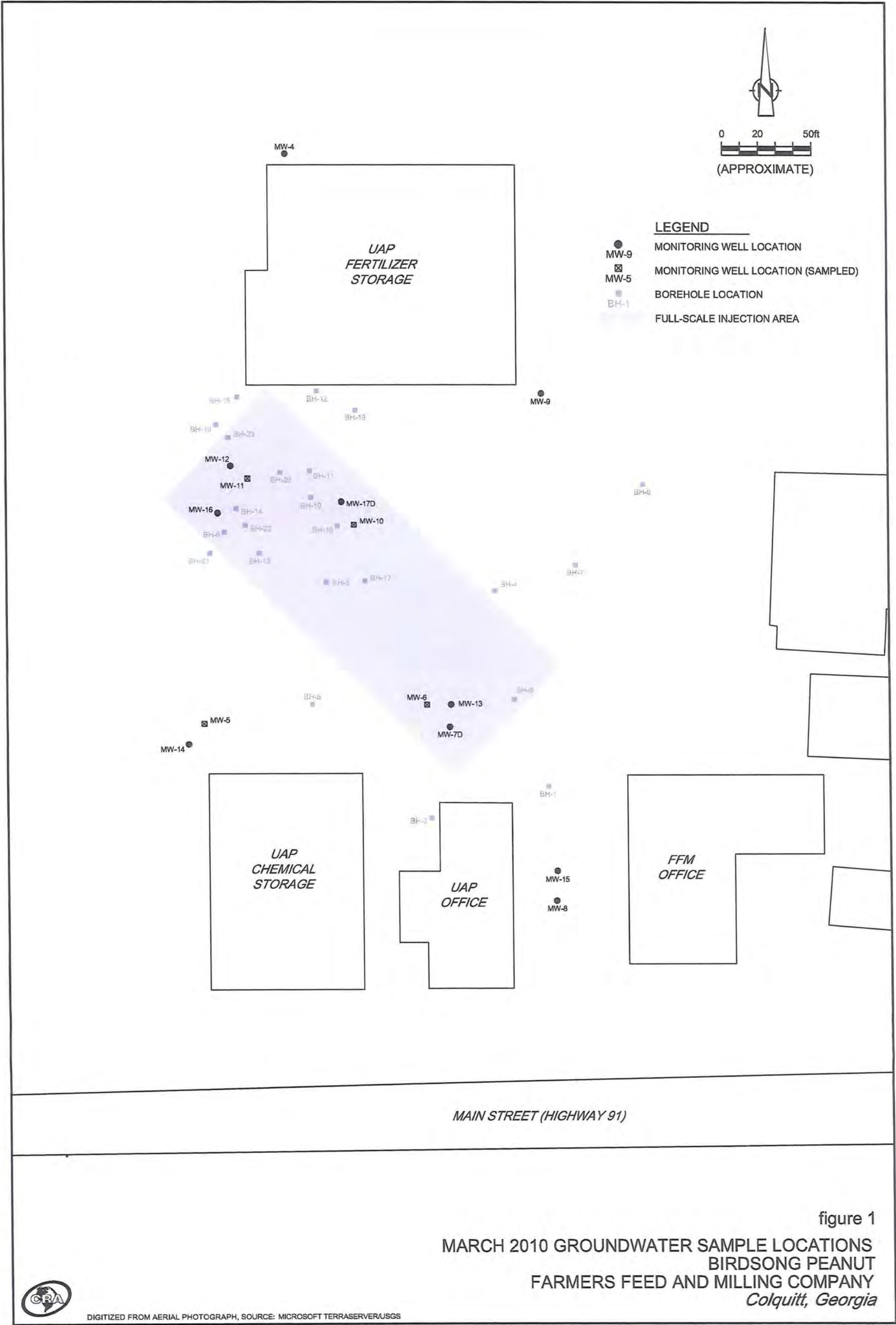
CONESTOGA-ROVERS & ASSOCIATES



R. T. (Bob) Pyle

RTP/sj/15

cc: Kirsten Ganschow
Les Oakes (King & Spalding LLP)
Robert Norman



DIGITIZED FROM AERIAL PHOTOGRAPH, SOURCE: MICROSOFT TERRASERVER/USGS

018283-01(CLEA015)GN-BR001 APR 22/2010

TABLE 1

GROUNDWATER ELEVATIONS (MARCH 2010)
ANNUAL GROUNDWATER MONITORING AND SAMPLING
BIRDSONG PEANUT PROPERTY (HSI NO. 10710)
COLQUITT, GEORGIA

Well ID	Date	Top of Casing Elevation (feet AMSL)	Depth to Groundwater (feet below TOC)	Groundwater Elevation (feet AMSL)
MW-4	03/24/2010	92.70	3.95	88.75
MW-5	03/24/2010	95.57	14.48	81.09
MW-6	03/24/2010	94.26	12.98	81.28
MW-7D	03/24/2010	93.75	12.38	81.37
MW-8	03/24/2010	93.57	7.97	85.60
MW-9	03/24/2010	92.85	5.62	87.23
MW-10	03/24/2010	93.41	7.23	86.18
MW-11	03/24/2010	94.44	5.48	88.96
MW-12	03/24/2010	95.46	—	—
MW-13	03/24/2010	93.76	8.32	85.44
MW-14	03/24/2010	96.72	8.52	88.20
MW-15	03/24/2010	93.30	12.35	80.95
MW-16	03/24/2010	96.34	—	—
MW-17D	03/24/2010	93.40	12.09	81.31

Notes:

AMSL- Above Mean Sea Level

TOC- Top of Casing

1. Monitoring wells MW-12 and MW-16 were not found on March 24, 2010.

TABLE 2

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS (MARCH 2010)
ANNUAL GROUNDWATER MONITORING AND SAMPLING
BIRDSONG PEANUT PROPERTY (HSI NO. 10710)
COLQUITT, GEORGIA

		Sample Location:		MW-5	MW-6	MW-6	MW-10	MW-11
		Sample ID:	GW-032410-DJB-001	GW-032410-DJB-004	GW-032410-DJB-005	GW-032410-DJB-002	GW-032410-DJB-003	
		Sample Date:	3/24/2010	3/24/2010	3/24/2010	3/24/2010	3/24/2010	
					Duplicate			
Parameters	Units	Criteria						
		Type 1 RRS a	Type 4 RRS b					
Total Metals								
Arsenic	mg/L	0.01	0.01	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Cadmium	mg/L	0.005	0.0511	0.000126 J	0.000692 J	0.00126	0.00938 ^a	0.00144
Chromium	mg/L	NC	NC	0.0267	0.172	0.172	0.0866	0.266
Copper	mg/L	1.3	4.09	0.000288 J	0.000176 J	0.000229 J	0.00572	0.00908
Lead	mg/L	0.015	0.015	0.001 U	0.001 U	0.00018 J	0.00125	0.00144
Manganese	mg/L	NC	NC	2.23	0.473	0.483	4.01	2.93
Potassium	mg/L	NC	NC	29.6	58.1	65.3	737	140
Selenium	mg/L	0.05	0.511	0.005 U	0.005 U	0.000922 J	0.0592 ^a	0.00658
Silver	mg/L	0.1	0.511	0.001 U	0.000219 J	0.000014 J	0.000729 J	0.000031 J
Dissolved Metals								
Arsenic (dissolved)	mg/L	0.01	0.01	0.00748 J	0.005 U	0.005 U	0.00251 J	0.05 U
Cadmium (dissolved)	mg/L	0.005	0.0511	0.007 U	0.000444 J	0.000391 J	0.00489 J	0.007 U
Chromium Total (dissolved)	mg/L	NC	NC	0.0286 J	0.16	0.165	0.0923	0.217
Copper (dissolved)	mg/L	1.3	4.09	0.02 U	0.002 U	0.002 U	0.02 U	0.02 U
Lead (dissolved)	mg/L	0.015	0.015	0.01 U	0.001 U	0.001 U	0.01 U	0.01 U
Manganese (dissolved)	mg/L	NC	NC	1.46	0.526	0.522	1.34	0.346
Potassium (dissolved)	mg/L	NC	NC	27.4	56.7	55.7	702	127
Selenium (dissolved)	mg/L	0.05	0.511	0.05 U	0.005 U	0.005 U	0.0673 ^a	0.05 U
Silver (dissolved)	mg/L	0.1	0.511	0.01 U	0.001 U	0.001 U	0.01 U	0.01 U
Speciated Chromium								
Chromium III (trivalent)	mg/L	0.01	153	0.0100 U	0.0100 U	0.0100 U	0.0262	0.0100 U
Chromium III (trivalent) (dissolved)	mg/L	0.01	153	0.00740 J	0.0100 U	0.0100 U	0.0205	0.0222
Chromium VI (hexavalent)	mg/L	0.01	0.0572	0.0246 ^a	0.170 ^{ab}	0.174 ^{ab}	0.0605 ^{ab}	0.265 ^{ab}
Chromium VI (hexavalent) (dissolved)	mg/L	0.01	0.0572	0.0212 ^a	0.172 ^{ab}	0.178 ^{ab}	0.0718 ^{ab}	0.195 ^{ab}

Notes:

J - Estimated concentration.

NC - No criteria.

U - Not present at or above the associated value.

1. Exceedences of Georgia HSRA Type 1 RRS (a) and Type 4 RRS (b) are shaded, bordered and denoted in red, bold font with the appropriate superscript(s).

TABLE 3

SUMMARY OF HISTORICAL GROUNDWATER ANALYTICAL RESULTS
ANNUAL GROUNDWATER MONITORING AND SAMPLING
BIRDSONG PEANUT PROPERTY (HSI NO. 10710)
COLQUITT, GEORGIA

		Sample Location:		MW-5	MW-5	MW-6	MW-6	MW-6
		Sample ID:		GW-030509-DJB-005	GW-032410-DJB-001	GW-030509-DJB-001	GW-030509-DJB-002	GW-032410-DJB-004
		Sample Date:		3/5/2009	3/24/2010	3/5/2009	3/5/2009	3/24/2010
							Duplicate	

Notes:

J - Estimated concentration.

NC - No criteria.

U - Not present at or above the associated value.

1. Exceedences of Georgia HSRA Type 1 RRS (a) and Type 4 RRS (b) are shaded, bordered and denoted in red, bold font with the appropriate superscript.

TABLE 3

SUMMARY OF HISTORICAL GROUNDWATER ANALYTICAL RESULTS
ANNUAL GROUNDWATER MONITORING AND SAMPLING
BIRDSONG PEANUT PROPERTY (HSI NO. 10710)
COLQUITT, GEORGIA

Parameters	Units	Criteria		Sample Location:	MW-6	MW-10	MW-10	MW-11	MW-11
		Type 1 RRS	Type 4 RRS	Sample ID:	GW-032410-DJB-005	GW-030509-DJB-003	GW-032410-DJB-002	GW-030509-DJB-004	GW-032410-DJB-003
		a	b	Sample Date:	3/24/2010	3/5/2009	3/24/2010	3/5/2009	3/24/2010
				Duplicate					
Total Metals									
Arsenic	mg/L	0.01	0.01	0.005 U	0.0500 U	0.005 U	0.0500 U	0.005 U	0.005 U
Cadmium	mg/L	0.005	0.0511	0.00126	0.0014 J	0.00938 ^a	0.0050 U	0.00144	0.00144
Chromium	mg/L	NC	NC	0.172	0.0760	0.0866	0.279	0.266	0.266
Copper	mg/L	1.3	4.09	0.000229 J	-	0.00572	-	0.00908	0.00908
Lead	mg/L	0.015	0.015	0.00018 J	0.0077 J	0.00125	0.0038 J	0.00144	0.00144
Manganese	mg/L	NC	NC	0.483	1.31	4.01	3.94	2.93	2.93
Potassium	mg/L	NC	NC	65.3	788	737	129	140	140
Selenium	mg/L	0.05	0.511	0.000922 J	0.0586 ^a	0.0592 ^a	0.0151 J	0.00658	0.00658
Silver	mg/L	0.1	0.511	0.000014 J	0.0100 U	0.000729 J	0.0100 U	0.000031 J	0.000031 J
Dissolved Metals									
Arsenic (dissolved)	mg/L	0.01	0.01	0.005 U	0.0500 U	0.00251 J	0.0500 U	0.05 U	0.05 U
Cadmium (dissolved)	mg/L	0.005	0.0511	0.000391 J	0.0011 J	0.00489 J	0.0050 U	0.007 U	0.007 U
Chromium Total (dissolved)	mg/L	NC	NC	0.165	0.0805	0.0923	0.292	0.217	0.217
Copper (dissolved)	mg/L	1.3	4.09	0.002 U	-	0.02 U	-	0.02 U	0.02 U
Lead (dissolved)	mg/L	0.015	0.015	0.001 U	0.0031 J	0.01 U	0.0100 U	0.01 U	0.01 U
Manganese (dissolved)	mg/L	NC	NC	0.522	0.880	1.34	2.22	0.346	0.346
Potassium (dissolved)	mg/L	NC	NC	55.7	712	702	123	127	127
Selenium (dissolved)	mg/L	0.05	0.511	0.005 U	0.0527 ^a	0.0673 ^a	0.0200 U	0.05 U	0.05 U
Silver (dissolved)	mg/L	0.1	0.511	0.001 U	0.0100 U	0.01 U	0.0100 U	0.01 U	0.01 U
Speciated Chromium									
Chromium III (trivalent)	mg/L	0.01	153	0.0100 U	-	0.0262 ^a	-	0.0100 U	0.0100 U
Chromium III (trivalent) (dissolved)	mg/L	0.01	153	0.0100 U	-	0.0205 ^a	-	0.0222 ^a	0.0222 ^a
Chromium VI (hexavalent)	mg/L	0.01	0.0572	0.174 ^{ab}	-	0.0605 ^{ab}	-	0.265 ^{ab}	0.265 ^{ab}
Chromium VI (hexavalent) (dissolved)	mg/L	0.01	0.0572	0.178 ^{ab}	-	0.0718 ^{ab}	-	0.195 ^{ab}	0.195 ^{ab}

Notes:

J - Estimated concentration.

NC - No criteria.

U - Not present at or above the associated value.

1. Exceedences of Georgia HSRA Type 1 RRS (a) and Type 4 RRS (b) are shaded, bordered and denoted in red, bold font with the appropriate superscript.

MONITORING WELL PURGING RECORD

Project Data:

Project Name: Birdsong Peanut

Date: March 24, 2010

Ref. No.: 18283

Personnel: David Brytowski

Monitoring Well Data:

Well No.: MW-5

Vapour PID (ppm): —

Saturated Screen Length (ft): 10

Measurement Point: TOC

Depth to Pump Intake (ft)⁽¹⁾: 36

Constructed Well Depth (ft): —

Well Diameter, D (in): 2

Measured Well Depth (ft): 45.0

Well Screen Volume, V_s (gal)⁽²⁾: 4.5

Depth of Sediment (ft): —

Initial Depth to Water (ft): 14.48

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, V _p (gal)	No. of Well Screen Volumes Purged ⁽⁵⁾
Precision Required ⁽³⁾ :				±3 %	±0.005 or 0.01 ⁽⁶⁾	±10 %	±10 %	±0.1 Units	±10 mV		
13:05	Began Pumping										
13:35	700	14.55	0.07	22.19	0.969	138	0.00	7.03	564	5.0	1.1
14:05	700	14.53	0.05	22.05	0.964	178	1.12	7.28	580	10.0	2.2
14:35	700	14.52	0.04	22.04	0.932	202	0.07	7.30	583	15.0	3.3
14:50	700	14.53	0.05	22.11	0.938	205	0.00	7.29	584	17.5	3.9
15:00	Sample Time										
	Sample ID:	<u>GW-032410-DIB-001</u>					Color = Pinkish purple				
	Analyses: Total				Dissolved (Field Filtered)						
		1x250-mL plastic [HNO ₃] - Total Metals			1x250-mL plastic [HNO ₃] - Total Metals						
		1x500-mL plastic - Cr(III), Cr(VI)			1x500-mL plastic - Cr(III), Cr(VI)						

Notes:

- The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s = \pi(r^2)L$ in mL, where r ($r=D/2$) and L are in cm. For Imperial units, $V_s = \pi(r^2)L * (2.54)^3$, where r and L are in inches
- The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= V_p/V_s .
- For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

MONITORING WELL PURGING RECORD

Project Data:

Project Name: Birdsong Peanut

Date: March 24, 2010

Ref. No.: 18283

Personnel: David Brytowski

Monitoring Well Data:

Well No.: MW-6

Vapour PID (ppm): —

Saturated Screen Length (ft): 10

Measurement Point: TOC

Depth to Pump Intake (ft)⁽¹⁾: 43

Constructed Well Depth (ft): —

Well Diameter, D (in): 2

Measured Well Depth (ft): 54.3

Well Screen Volume, V_s (gal)⁽²⁾: 6.6

Depth of Sediment (ft): —

Initial Depth to Water (ft): 12.98

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, V _p (gal)	No. of Well Screen Volumes Purged ⁽⁴⁾
Precision Required ⁽⁵⁾ :				± 3 %	± 0.005 or 0.01 ⁽⁶⁾	± 10 %	± 10 %	± 0.1 Units	± 10 mV		
15:40	Began Pumping										
16:20	700	13.12	0.14	24.06	1.48	1.82	1.32	7.03	593	6.6	1.0
17:00	700	13.45	0.47	24.22	1.34	1.45	0.78	7.05	590	13.2	2.0
17:35	700	14.38	1.40	25.00	1.41	1.40	0.00	7.05	597	20.0	3.0
17:45	Sample Time										
18:00	Sample Time (Duplicate)										
	Sample ID:	<u>GW-032410-DJB-004</u>					Color = Light pink				
		<u>GW-032410-DJB-005</u>		(Duplicate)							
	Analyses: Total				Dissolved (Field Filtered)						
		(2) 1x250-mL plastic [HNO ₃] - Total Metals			(2) 1x250-mL plastic [HNO ₃] - Total Metals						
		(2) 1x500-mL plastic - Cr(III), Cr(VI)			(2) 1x500-mL plastic - Cr(III), Cr(VI)						

Notes:

- The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s = \pi(r^2)L$ in mL, where r ($r=D/2$) and L are in cm. For Imperial units, $V_s = \pi(r^2)L \cdot (2.54)^3$, where r and L are in inches.
- The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged = V_p/V_s .
- For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

MONITORING WELL PURGING RECORD

Project Data:

Project Name: Birdsong Peanut

Date: March 24, 2010

Ref. No.: 18283

Personnel: David Brytowski

Monitoring Well Data:

Well No.: MW-10

Vapour PID (ppm): —

Saturated Screen Length (ft): 10

Measurement Point: TOC

Depth to Pump Intake (ft)⁽¹⁾: varied

Constructed Well Depth (ft): —

Well Diameter, D (in): 1

Measured Well Depth (ft): 29.6

Well Screen Volume, V_s (gal)⁽²⁾: 0.9

Depth of Sediment (ft): —

Initial Depth to Water (ft): 7.23

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, V _p (gal)	No. of Well Screen Volumes Purged ⁽⁴⁾
Precision Required ⁽⁵⁾ :				±3 %	±0.005 or 0.01 ⁽⁶⁾	±10 %	±10 %	±0.1 Units	±10 mV		
11:40	Began Pumping										
12:00	300	19.50	12.27	19.6	9.9	103	1.06	4.20	420	1.0	1.1
12:15	300	20.75	13.52	20.7	error	max	2.19	5.92	281	2.0	2.2
12:20	Dry										
15:10	Sample Time										
	Sample ID:	GW-032410-DJB-002					Color = Brown				
	Analyses: Total				Dissolved (Field Filtered)						
		1x250-mL plastic [HNO ₃] - Total Metals			1x250-mL plastic [HNO ₃] - Total Metals						
		1x500-mL plastic - Cr(III), Cr(VI)			1x500-mL plastic - Cr(III), Cr(VI)						

Notes:

- The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s = \pi \cdot (r^2) \cdot L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s = \pi \cdot (r^2) \cdot L \cdot (2.54)^3$, where r and L are in inches
- The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= V_p/V_s.
- For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

MONITORING WELL PURGING RECORD

Project Data:

Project Name: Birdsong Peanut

Ref. No.: 18283

Date: March 24, 2010

Personnel: David Brytowski

Monitoring Well Data:

Well No.: MW-11

Vapour PID (ppm): —

Measurement Point: TOC

Constructed Well Depth (ft): —

Measured Well Depth (ft): 20.9

Depth of Sediment (ft): —

Saturated Screen Length (ft): 10

Depth to Pump Intake (ft)⁽¹⁾: varied

Well Diameter, D (in): 1

Well Screen Volume, V_s (gal)⁽²⁾: 0.6

Initial Depth to Water (ft): 5.48

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾ (ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, V _p (gal)	No. of Well Screen Volumes Purged ⁽⁵⁾
Precision Required ⁽³⁾ :				± 3 %	± 0.005 or 0.01 ⁽⁶⁾	± 10 %	± 10 %	± 0.1 Units	± 10 mV		
12:30	Began Pumping										
12:55	250	20.40	14.92	22.55	0.547	873	2.81	5.02	371	0.8	1.3
13:00	Dry										
15:30	Sample Time										
	Sample ID:	GW-032410-DIB-003					Color = Light Pink				
	Analyses: Total				Dissolved (Field Filtered)						
		1x250-mL plastic [HNO ₃] - Total Metals			1x250-mL plastic [HNO ₃] - Total Metals						
		1x500-mL plastic - Cr(III), Cr(VI)			1x500-mL plastic - Cr(III), Cr(VI)						

Notes:

- The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s = \pi(r^2)L$ in mL, where $r = D/2$ and L are in cm. For Imperial units, $V_s = \pi(r^2)L \cdot (2.54)^3$, where r and L are in inches
- The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged = V_p/V_s .
- For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

SAMPLE KEY
ANNUAL GROUNDWATER MONITORING AND SAMPLING
BIRDSONG PEANUT PROPERTY (HSI NO. 10710)
COLQUITT, GEORGIA

<u>Sample ID</u>	<u>Date</u>	<u>Location</u>	<u>Type</u>	<u>Laboratory Analyses</u> ⁽²⁾
GW-032410-DJB-001	03/24/2010	MW-5	grab	<i>Total and Dissolved</i> Metals and Speciated Chromium
GW-032410-DJB-002	03/24/2010	MW-10	grab	<i>Total and Dissolved</i> Metals and Speciated Chromium
GW-032410-DJB-003	03/24/2010	MW-11	grab	<i>Total and Dissolved</i> Metals and Speciated Chromium
GW-032410-DJB-004	03/24/2010	MW-6	grab	<i>Total and Dissolved</i> Metals and Speciated Chromium
GW-032410-DJB-005	03/24/2010	MW-6	grab	<i>Total and Dissolved</i> Metals and Speciated Chromium

Notes:

1. Laboratory Analyses. Samples were analyzed for the following parameters:
 - a. Total and Dissolved Metals- arsenic, cadmium, chromium, copper, lead, manganese, potassium, selenium, silver, zinc
 - b. Speciated Chromium- trivalent (Cr[III]) and hexavalent (Cr[VI])
2. Duplicate samples are represented with bold Sample IDs.



**CONESTOGA-ROVERS
& ASSOCIATES**

2055 Niagara Falls Blvd., Suite #3
Niagara Falls, New York 14304
Telephone: (716) 297-6150 Fax: (716) 297-2265
www.CRAworld.com

MEMORANDUM

TO: Bob Pyle
FROM: Paul McMahon/bjw/1 *PM*
CC: Dave Brytowski; Stephanie James
RE: **Data Quality Assessment and Validation**
Birdsong Peanut
Colquitt, Georgia
March 2010

REF. NO.: 018283
DATE: April 28, 2010
E-Mail and Hard Copy if Requested

INTRODUCTION

The following details a quality assessment and validation of the analytical data resulting from the collection of five water samples from the Birdsong Peanut site in Colquitt, Georgia, March 24, 2010. The sample summary detailing sample identification, sample location, and analytical parameters is presented in Table 1. Sample analysis was completed at Analytical Environmental Services, in Atlanta, Georgia, in accordance with the methodologies presented in Table 2. The analytical results summary is presented in Table 3. The quality control (QC) criteria used to assess the data were established by the methods and the document, "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review," United States Environmental Protection Agency (USEPA) 540/R-94-013, February 1994.

A data quality assessment and validation was performed based on the sample results and supporting quality assurance/quality control (QA/QC) provided.

HOLDING TIME PERIOD AND SAMPLE ANALYSIS

The holding time periods are presented in the analytical methods. All samples were prepared and analyzed within the method-required holding times. All samples were properly cooled to 4°C (±2°C) after collection.

METHOD BLANK SAMPLES

Method blanks are prepared and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the preparation and analytical procedures.

For this study, method blanks were analyzed at a minimum frequency of one per analytical batch. The blank results were non-detect for most analytes of interest. Dissolved metals were present in the method blank. In accordance with the "Guidelines", all sample results greater than the MDL but less than five times the amount detected in the associated blank were qualified as non-detect (see Table 4).

LABORATORY CONTROL SAMPLE (LCS) ANALYSIS

The LCS serves as a measure of overall analytical performance. LCSs are prepared with all analytes of interest and analyzed with each sample batch. The LCS recoveries were within the laboratory specified control limits for all analytes of interest, demonstrating acceptable overall analytical accuracy.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) ANALYSES

MS/MSD samples are prepared and analyzed with the samples for each metal. The recoveries of spike analyses are used to assess the analytical accuracy achieved on individual sample matrices. If the original sample concentration is significantly greater than the spike concentration, the recovery is not assessed. The relative percent difference (RPD) between the MS and MSD is used to assess analytical precision.

Some site-specific MS/MSD analyses were performed internally by the laboratory and all results were within the laboratory control limits, indicating acceptable analytical accuracy and precision.

FIELD DUPLICATE

As summarized in Table 1, one sample was collected in duplicate and was submitted to the laboratory for analysis. All sample results showed acceptable sampling and analytical precision.

GENERAL COMMENT

Some hexavalent chromium results were slightly higher than the associated total chromium result. This is likely attributable to analytical variability within the testing methods. It appears that the chromium present in these samples exists mainly in the hexavalent form.

OVERALL ASSESSMENT

The data were found to exhibit acceptable levels of accuracy and precision, based on the provided information, and may be used as reported with the noted qualifications.

TABLE 1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
 BIRDSONG PEANUT
 COLQUITT, GEORGIA
 MARCH 2010

Sample ID	Location ID	Collection Date (mm/dd/yy)	Collection Time (hr:min)	Analysis/Parameters		Comments
				Total Metals & Hexavalent Chromium	Dissolved Metals & Hexavalent Chromium	
GW-032410-DJB-001	MW-5	03/24/10	15:00	X	X	
GW-032410-DJB-002	MW-10	03/24/10	15:10	X	X	
GW-032410-DJB-003	MW-11	03/24/10	15:30	X	X	
GW-032410-DJB-004	MW-6	03/24/10	17:45	X	X	
GW-032410-DJB-005	MW-6	03/24/10	18:00	X	X	Duplicate of GW-032410-DJB-004

TABLE 2

SUMMARY OF ANALYTICAL METHODOLOGIES
BIRDSONG PEANUT
COLQUITT, GEORGIA
MARCH 2010

<i>Parameter</i>	<i>Method</i> ¹
Total and Dissolved Metals	SW-846 6020A
Total and Dissolved Hexavalent Chromium	SW-846 7196

Notes:

¹ "Test Methods for Solid Waste Physical/Chemical Methods,"
SW-846, 3rd Edition, September 1986 (with subsequent
revisions).

TABLE 3
ANALYTICAL RESULTS SUMMARY
BIRDSONG PEANUT
COLQUITT, GEORGIA
MARCH 2010

Parameters	Units	Location:	MW-5	MW-6	MW-6	MW-10	MW-11
		Sample ID:	GW-032410-DJB-001	GW-032410-DJB-004	GW-032410-DJB-005	GW-032410-DJB-002	GW-032410-DJB-003
		Sample Date:	3/24/2010	3/24/2010	3/24/2010 Duplicate	3/24/2010	3/24/2010
<i>Metals</i>							
Arsenic	µg/L		5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Arsenic (dissolved)	µg/L		7.48 J	5.00 U	5.00 U	2.51 J	50.0 U
Cadmium	µg/L		0.126 J	0.692 J	1.26	9.38	1.44
Cadmium (dissolved)	µg/L		7.00 U	0.444 J	0.391 J	4.89 J	7.00 U
Chromium	µg/L		26.7	172	172	86.6	266
Chromium (dissolved)	µg/L		28.6 J	160	165	92.3	217
Chromium III (trivalent)	mg/L		0.0100 U	0.0100 U	0.0100 U	0.0262	0.0100 U
Chromium III (trivalent) (dissolved)	mg/L		0.00740 J	0.0100 U	0.0100 U	0.0205	0.0222
Chromium VI (hexavalent)	mg/L		0.0246	0.170	0.174	0.0605	0.265
Chromium VI (hexavalent) (dissolved)	mg/L		0.0212	0.172	0.178	0.0718	0.195
Copper	µg/L		0.288 J	0.176 J	0.229 J	5.72	9.08
Copper (dissolved)	µg/L		20.0 U	2.00 U	2.00 U	20.0 U	20.0 U
Lead	µg/L		1.00 U	1.00 U	0.180 J	1.25	1.44
Lead (dissolved)	µg/L		10.0 U	1.00 U	1.00 U	10.0 U	10.0 U
Manganese	µg/L		2230	473	483	4010	2930
Manganese (dissolved)	µg/L		1460	526	522	1340	346
Potassium	µg/L		29600	58100	65300	737000	140000
Potassium (dissolved)	µg/L		27400	56700	55700	702000	127000
Selenium	µg/L		5.00 U	5.00 U	0.922 J	59.2	6.58
Selenium (dissolved)	µg/L		50.0 U	5.00 U	5.00 U	67.3	50.0 U
Silver	µg/L		1.00 U	0.219 J	0.0140 J	0.729 J	0.0310 J
Silver (dissolved)	µg/L		10.0 U	1.00 U	1.00 U	10.0 U	10.0 U

Notes:

U - Non-detect at the associated value.

J - Estimated.

TABLE 4

QUALIFIED SAMPLE RESULTS DUE TO ANALYTE CONCENTRATIONS IN THE METHOD BLANKS
 BIRDSONG PEANUT
 COLQUITT, GEORGIA
 MARCH 2010

<i>Parameter</i>	<i>Analysis Date</i>	<i>Analyte</i>	<i>Blank Result (1)</i>	<i>Sample ID</i>	<i>Qualified Sample Result</i>	<i>Units</i>
Metals	03/31/10	Copper (dissolved)	8.84 J	GW-032410-DJB-002	20.0 U	µg/L
			8.84 J	GW-032410-DJB-003	20.0 U	µg/L
			0.884 J	GW-032410-DJB-004	2.00 U	µg/L
			0.884 J	GW-032410-DJB-005	2.00 U	µg/L
Metals	03/31/10	Selenium (dissolved)	10.7 J	GW-032410-DJB-001	50.0 U	µg/L
			10.7 J	GW-032410-DJB-003	50.0 U	µg/L
			1.07 J	GW-032410-DJB-004	5.00 U	µg/L
			1.07 J	GW-032410-DJB-005	5.00 U	µg/L
Metals	03/31/10	Silver (dissolved)	0.17 J	GW-032410-DJB-001	10.0 U	µg/L
			0.17 J	GW-032410-DJB-002	10.0 U	µg/L
			0.017 J	GW-032410-DJB-004	1.00 U	µg/L
			0.017 J	GW-032410-DJB-005	1.00 U	µg/L

Notes:

- (1) Blank results corrected for individual sample dilutions, where applicable.
 U Non-detect at the associated value.
 J Estimated.



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

April 20, 2010

Bob Pyle
Conestoga, Rovers, & Associates, Inc.
3075 Breckinridge Blvd., Suite 470
Duluth GA 30096

TEL: (770) 441-0027

FAX: (770) 441-2050

RE: Birdsong Peanut

Dear Bob Pyle:

Order No: 1003J51

Analytical Environmental Services, Inc. received 5 samples on 3/25/2010 8:35:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/09-06/30/10.

-AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/11.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager

1003551

Page 2 of 16

CLIENT: Conestoga, Rovers, & Associates, Inc.
Project: Birdsong Peanut
Lab Order: 1003J51

CASE NARRATIVE

Sample Receiving Nonconformance:

A Trip Blank was provided but not listed on the Chain of Custody. Trip blank was placed on hold.

Hexavalent Chromium by Method 7196:

Initial background readings were not used for samples 1003J51-001, -003 thru -005 because they contained KMnO₄.

Please note the Hexavalent Chromium value is reported as greater than Total Chromium value for sample 1003J51-005. The value is within the expected reproducibility limits for the test methods used and the result is suspected to be due to differences between the sample aliquots used for analysis. The data indicates that all Chromium present is in the Hexavalent oxidation state.

Dissolved Hexavalent Chromium by Method 7196:

Initial background readings were not used for samples 1003J51-001, -003 thru -005 because they contained KMnO₄.

Please note the Hexavalent Chromium value is reported as greater than Total Chromium value for samples 1003J51-004 & -005. The values are within the expected reproducibility limits for the test methods used and the results are suspected to be due to differences between the sample aliquots used for analysis. The data indicates that all Chromium present is in the Hexavalent oxidation state.

Dissolved Metals Analysis by Method 6020:

Due to sample matrix, samples 1003J51-001 through 003 required dilution during analysis resulting in elevated reporting limits.

Analytical Environmental Services, Inc
Date: 20-Apr-10

Client:	Conestoga, Rovers, & Associates, Inc.	Client Sample ID:	GW-032410-DJB-001
Project Name:	Birdsong Peanut	Collection Date:	3/24/2010 3:00:00 PM
Lab ID:	1003J51-001	Matrix:	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A					(SW3005A)				
Arsenic	BRL		0.190	5.00	ug/L	127106	1	03/29/2010 19:11	JY
Cadmium	0.126	J	0.0877	0.700	ug/L	127106	1	03/29/2010 19:11	JY
Chromium	26.7		0.119	5.00	ug/L	127106	1	03/29/2010 19:11	JY
Copper	0.288	J	0.151	2.00	ug/L	127106	1	03/29/2010 19:11	JY
Lead	BRL		0.0657	1.00	ug/L	127106	1	03/29/2010 19:11	JY
Manganese	2230		0.461	5.00	ug/L	127106	1	03/29/2010 19:11	JY
Potassium	29600		14.4	100	ug/L	127106	1	03/31/2010 14:06	JY
Selenium	BRL		0.555	5.00	ug/L	127106	1	03/29/2010 19:11	JY
Silver	BRL		0.00940	1.00	ug/L	127106	1	03/29/2010 19:11	JY
Hexavalent Chromium, Dissolved SW7196									
Chromium as Cr+3	0.00740	J	0.00220	0.0100	mg/L	R168348	1	03/25/2010 10:15	CG
Chromium, Hexavalent	0.0212		0.00220	0.0100	mg/L	R168348	1	03/25/2010 10:15	CG
Hexavalent Chromium SW7196									
Chromium as Cr+3	BRL		0.00220	0.0100	mg/L	R168586	1	03/25/2010 10:55	CG
Chromium, Hexavalent	0.0246		0.00220	0.0100	mg/L	R168586	1	03/25/2010 10:55	CG
Dissolved Metals by ICP/MS SW6020A					(SAMP FILT)				
Arsenic	7.48	J	1.90	50.0	ug/L	127264	10	03/31/2010 22:12	JY
Cadmium	BRL		0.877	7.00	ug/L	127264	10	03/31/2010 22:12	JY
Chromium	28.6	J	1.19	50.0	ug/L	127264	10	03/31/2010 22:12	JY
Copper	BRL		1.51	20.0	ug/L	127264	10	03/31/2010 22:12	JY
Lead	BRL		0.657	10.0	ug/L	127264	10	03/31/2010 22:12	JY
Manganese	1460		4.61	50.0	ug/L	127264	10	03/31/2010 22:12	JY
Potassium	27400		144	1000	ug/L	127264	10	03/31/2010 22:12	JY
Selenium	42.6	J	5.55	50.0	ug/L	127264	10	03/31/2010 22:12	JY
Silver	0.120	J	0.0940	10.0	ug/L	127264	10	03/31/2010 22:12	JY

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value

Analytical Environmental Services, Inc

Date: 20-Apr-10

Client: Conestoga, Rovers, & Associates, Inc.
 Project Name: Birdsong Peanut
 Lab ID: 1003J51-002

Client Sample ID: GW-032410-DJB-002
 Collection Date: 3/24/2010 3:10:00 PM
 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A				(SW3005A)					
Arsenic	BRL		0.190	5.00	ug/L	127106	1	03/29/2010 19:18	JY
Cadmium	9.38		0.0877	0.700	ug/L	127106	1	03/29/2010 19:18	JY
Chromium	86.6		0.119	5.00	ug/L	127106	1	03/29/2010 19:18	JY
Copper	5.72		0.151	2.00	ug/L	127106	1	03/29/2010 19:18	JY
Lead	1.25		0.0657	1.00	ug/L	127106	1	03/29/2010 19:18	JY
Manganese	4010		0.461	5.00	ug/L	127106	1	03/29/2010 19:18	JY
Potassium	737000		144	1000	ug/L	127106	10	03/31/2010 14:12	JY
Selenium	59.2		0.555	5.00	ug/L	127106	1	03/29/2010 19:18	JY
Silver	0.729	J	0.00940	1.00	ug/L	127106	1	03/29/2010 19:18	JY
Hexavalent Chromium, Dissolved SW7196									
Chromium as Cr+3	0.0205		0.00220	0.0100	mg/L	R168348	1	03/25/2010 10:15	CG
Chromium, Hexavalent	0.0718		0.00220	0.0100	mg/L	R168348	1	03/25/2010 10:15	CG
Hexavalent Chromium SW7196									
Chromium as Cr+3	0.0262		0.00220	0.0100	mg/L	R168586	1	03/25/2010 10:55	CG
Chromium, Hexavalent	0.0605		0.0110	0.0500	mg/L	R168586	5	03/25/2010 10:55	CG
Dissolved Metals by ICP/MS SW6020A				(SAMP FILT)					
Arsenic	2.51	J	1.90	50.0	ug/L	127264	10	03/31/2010 22:19	JY
Cadmium	4.89	J	0.877	7.00	ug/L	127264	10	03/31/2010 22:19	JY
Chromium	92.3		1.19	50.0	ug/L	127264	10	03/31/2010 22:19	JY
Copper	6.50	J	1.51	20.0	ug/L	127264	10	03/31/2010 22:19	JY
Lead	BRL		0.657	10.0	ug/L	127264	10	03/31/2010 22:19	JY
Manganese	1340		4.61	50.0	ug/L	127264	10	03/31/2010 22:19	JY
Potassium	702000		144	1000	ug/L	127264	10	03/31/2010 22:19	JY
Selenium	67.3		5.55	50.0	ug/L	127264	10	04/01/2010 19:47	JY
Silver	0.590	J	0.0940	10.0	ug/L	127264	10	03/31/2010 22:19	JY

Qualifiers: * Value exceeds maximum contaminant level
 BRL Not detected at MDL
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 N Analyte not NELAC certified
 B Analyte detected in the associated method blank

E Estimated value above quantitation range
 S Spike Recovery outside limits due to matrix
 J Estimated value detected below Reporting Limit
 > Greater than Result value
 < Less than Result value

Analytical Environmental Services, Inc
Date: 20-Apr-10

Client: Conestoga, Rovers, & Associates, Inc.
Project Name: Birdsong Peanut
Lab ID: 1003J51-003

Client Sample ID: GW-032410-DJB-003
Collection Date: 3/24/2010 3:30:00 PM
Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A									
Arsenic	BRL		0.190	5.00	ug/L	127106	1	03/29/2010 19:24	JY
Cadmium	1.44		0.0877	0.700	ug/L	127106	1	03/29/2010 19:24	JY
Chromium	266		0.119	5.00	ug/L	127106	1	03/29/2010 19:24	JY
Copper	9.08		0.151	2.00	ug/L	127106	1	03/29/2010 19:24	JY
Lead	1.44		0.0657	1.00	ug/L	127106	1	03/29/2010 19:24	JY
Manganese	2930		0.461	5.00	ug/L	127106	1	03/29/2010 19:24	JY
Potassium	140000		144	1000	ug/L	127106	10	03/31/2010 14:19	JY
Selenium	6.58		0.555	5.00	ug/L	127106	1	03/29/2010 19:24	JY
Silver	0.0310	J	0.00940	1.00	ug/L	127106	1	03/29/2010 19:24	JY
Hexavalent Chromium, Dissolved SW7196									
Chromium as Cr+3	0.0222		0.00220	0.0100	mg/L	R168348	1	03/25/2010 10:15	CG
Chromium, Hexavalent	0.195		0.00220	0.0100	mg/L	R168348	1	03/25/2010 10:15	CG
Hexavalent Chromium SW7196									
Chromium as Cr+3	BRL		0.00220	0.0100	mg/L	R168586	1	03/25/2010 10:55	CG
Chromium, Hexavalent	0.265		0.00220	0.0100	mg/L	R168586	1	03/25/2010 10:55	CG
Dissolved Metals by ICP/MS SW6020A									
Arsenic	BRL		1.90	50.0	ug/L	127264	10	03/31/2010 22:25	JY
Cadmium	BRL		0.877	7.00	ug/L	127264	10	03/31/2010 22:25	JY
Chromium	217		1.19	50.0	ug/L	127264	10	03/31/2010 22:25	JY
Copper	3.60	J	1.51	20.0	ug/L	127264	10	03/31/2010 22:25	JY
Lead	BRL		0.657	10.0	ug/L	127264	10	03/31/2010 22:25	JY
Manganese	346		4.61	50.0	ug/L	127264	10	03/31/2010 22:25	JY
Potassium	127000		144	1000	ug/L	127264	10	03/31/2010 22:25	JY
Selenium	19.0	J	5.55	50.0	ug/L	127264	10	03/31/2010 22:25	JY
Silver	BRL		0.0940	10.0	ug/L	127264	10	03/31/2010 22:25	JY

Qualifiers:

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- N Analyte not NELAC certified
- B Analyte detected in the associated method blank

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value

Analytical Environmental Services, Inc

Date: 20-Apr-10

Client: Conestoga, Rovers, & Associates, Inc.
 Project Name: Birdsong Peanut
 Lab ID: 1003J51-004

Client Sample ID: GW-032410-DJB-004
 Collection Date: 3/24/2010 5:45:00 PM
 Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A (SW3005A)									
Arsenic	BRL		0.190	5.00	ug/L	127106	1	03/29/2010 19:31	JY
Cadmium	0.692	J	0.0877	0.700	ug/L	127106	1	03/29/2010 19:31	JY
Chromium	172		0.119	5.00	ug/L	127106	1	03/29/2010 19:31	JY
Copper	0.176	J	0.151	2.00	ug/L	127106	1	03/29/2010 19:31	JY
Lead	BRL		0.0657	1.00	ug/L	127106	1	03/29/2010 19:31	JY
Manganese	473		0.461	5.00	ug/L	127106	1	03/29/2010 19:31	JY
Potassium	58100		14.4	100	ug/L	127106	1	03/31/2010 14:25	JY
Selenium	BRL		0.555	5.00	ug/L	127106	1	03/29/2010 19:31	JY
Silver	0.219	J	0.00940	1.00	ug/L	127106	1	03/29/2010 19:31	JY
Hexavalent Chromium, Dissolved SW7196									
Chromium as Cr+3	BRL		0.00220	0.0100	mg/L	R168348	1	03/25/2010 10:15	CG
Chromium, Hexavalent	0.172		0.00220	0.0100	mg/L	R168348	1	03/25/2010 10:15	CG
Hexavalent Chromium SW7196									
Chromium as Cr+3	BRL		0.00220	0.0100	mg/L	R168586	1	03/25/2010 10:55	CG
Chromium, Hexavalent	0.170		0.00220	0.0100	mg/L	R168586	1	03/25/2010 10:55	CG
Dissolved Metals by ICP/MS SW6020A (SAMP FILT)									
Arsenic	BRL		0.190	5.00	ug/L	127264	1	03/31/2010 22:32	JY
Cadmium	0.444	J	0.0877	0.700	ug/L	127264	1	03/31/2010 22:32	JY
Chromium	160		0.119	5.00	ug/L	127264	1	03/31/2010 22:32	JY
Copper	0.312	J	0.151	2.00	ug/L	127264	1	03/31/2010 22:32	JY
Lead	BRL		0.0657	1.00	ug/L	127264	1	03/31/2010 22:32	JY
Manganese	526		0.461	5.00	ug/L	127264	1	03/31/2010 22:32	JY
Potassium	56700		14.4	100	ug/L	127264	1	03/31/2010 22:32	JY
Selenium	3.23	J	0.555	5.00	ug/L	127264	1	03/31/2010 22:32	JY
Silver	0.0110	J	0.00940	1.00	ug/L	127264	1	03/31/2010 22:32	JY

Qualifiers: * Value exceeds maximum contaminant level
 BRL Not detected at MDL
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank

E Estimated value above quantitation range
 S Spike Recovery outside limits due to matrix
 J Estimated value detected below Reporting Limit
 > Greater than Result value
 < Less than Result value

Analytical Environmental Services, Inc
Date: 20-Apr-10

Client: Conestoga, Rovers, & Associates, Inc.	Client Sample ID: GW-032410-DJB-005
Project Name: Birdsong Peanut	Collection Date: 3/24/2010 6:00:00 PM
Lab ID: 1003J51-005	Matrix: Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A					(SW3005A)				
Arsenic	BRL		0.190	5.00	ug/L	127106	1	03/29/2010 17:52	JY
Cadmium	1.26		0.0877	0.700	ug/L	127106	1	03/29/2010 17:52	JY
Chromium	172		0.119	5.00	ug/L	127106	1	03/29/2010 17:52	JY
Copper	0.229	J	0.151	2.00	ug/L	127106	1	03/29/2010 17:52	JY
Lead	0.180	J	0.0657	1.00	ug/L	127106	1	03/29/2010 17:52	JY
Manganese	483		0.461	5.00	ug/L	127106	1	03/29/2010 17:52	JY
Potassium	65300		14.4	100	ug/L	127106	1	03/29/2010 17:52	JY
Selenium	0.922	J	0.555	5.00	ug/L	127106	1	03/29/2010 17:52	JY
Silver	0.0140	J	0.00940	1.00	ug/L	127106	1	03/29/2010 17:52	JY
Hexavalent Chromium, Dissolved SW7196									
Chromium as Cr+3	BRL		0.00220	0.0100	mg/L	R168348	1	03/25/2010 10:15	CG
Chromium, Hexavalent	0.178		0.00220	0.0100	mg/L	R168348	1	03/25/2010 10:15	CG
Hexavalent Chromium SW7196									
Chromium as Cr+3	BRL		0.00220	0.0100	mg/L	R168586	1	03/25/2010 10:55	CG
Chromium, Hexavalent	0.174		0.00220	0.0100	mg/L	R168586	1	03/25/2010 10:55	CG
Dissolved Metals by ICP/MS SW6020A					(SAMP FILT)				
Arsenic	BRL		0.190	5.00	ug/L	127264	1	03/31/2010 22:58	JY
Cadmium	0.391	J	0.0877	0.700	ug/L	127264	1	03/31/2010 22:58	JY
Chromium	165		0.119	5.00	ug/L	127264	1	03/31/2010 22:58	JY
Copper	0.270	J	0.151	2.00	ug/L	127264	1	03/31/2010 22:58	JY
Lead	BRL		0.0657	1.00	ug/L	127264	1	03/31/2010 22:58	JY
Manganese	522		0.461	5.00	ug/L	127264	1	03/31/2010 22:58	JY
Potassium	55700		14.4	100	ug/L	127264	1	03/31/2010 22:58	JY
Selenium	3.40	J	0.555	5.00	ug/L	127264	1	03/31/2010 22:58	JY
Silver	0.0130	J	0.00940	1.00	ug/L	127264	1	03/31/2010 22:58	JY

Qualifiers:

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- N Analyte not NELAC certified
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Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client CRA

Work Order Number 1003551

Checklist completed by [Signature] 3-25-10
Signature Date

Carrier name: FedEx ☐ UPS ☐ Courier ☐ Client ☒ US Mail ☐ Other ☐

Shipping container/cooler in good condition? Yes ☒ No ☐ Not Present ☐

Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☒

Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒

Container/Temp Blank temperature in compliance? ($4^{\circ}\text{C}\pm 2$)* Yes ☒ No ☐

Cooler #1 3.7^o Cooler #2 ☐ Cooler #3 ☐ Cooler #4 ☐ Cooler #5 ☐ Cooler #6 ☐

Chain of custody present? Yes ☒ No ☐

Chain of custody signed when relinquished and received? Yes ☒ No ☐

Chain of custody agrees with sample labels? Yes ☐ No ☒

Samples in proper container/bottle? Yes ☒ No ☐

Sample containers intact? Yes ☒ No ☐

Sufficient sample volume for indicated test? Yes ☒ No ☐

All samples received within holding time? Yes ☒ No ☐

Was TAT marked on the COC? Yes ☒ No ☐

Proceed with Standard TAT as per project history? Yes ☐ No ☐ Not Applicable ☒

Water - VOA vials have zero headspace? No VOA vials submitted ☐ Yes ☒ No ☐

Water - pH acceptable upon receipt? Yes ☒ No ☐ Not Applicable ☐

Adjusted? ☐ Checked by JP

Sample Condition: Good ☒ Other(Explain) ☐

(For diffusive samples or AIHA lead) Is a known blank included? Yes ☐ No ☒

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

\\Quality Assurance\Checklists Procedures Sign-Off Templates\Checklists\Sample Receipt Checklists\Sample_Cooler_Receipt_Checklist

Client: Conestoga, Rovers, & Associates, Inc.
 Project: Birdsong Peanut
 Lab Order: 1003J51

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1003J51-001A	GW-032410-DJB-001	3/24/2010 3:00:00PM	Groundwater	Total Metals by ICP/MS		03/29/2010	03/29/2010
1003J51-001A	GW-032410-DJB-001	3/24/2010 3:00:00PM	Groundwater	Total Metals by ICP/MS		03/29/2010	03/31/2010
1003J51-001B	GW-032410-DJB-001	3/24/2010 3:00:00PM	Groundwater	Dissolved Metals by ICP/MS		03/31/2010	03/31/2010
1003J51-001C	GW-032410-DJB-001	3/24/2010 3:00:00PM	Groundwater	Hexavalent Chromium			03/25/2010
1003J51-001D	GW-032410-DJB-001	3/24/2010 3:00:00PM	Groundwater	Hexavalent Chromium, Dissolved			03/25/2010
1003J51-002A	GW-032410-DJB-002	3/24/2010 3:10:00PM	Groundwater	Total Metals by ICP/MS		03/29/2010	03/29/2010
1003J51-002A	GW-032410-DJB-002	3/24/2010 3:10:00PM	Groundwater	Total Metals by ICP/MS		03/29/2010	03/31/2010
1003J51-002B	GW-032410-DJB-002	3/24/2010 3:10:00PM	Groundwater	Dissolved Metals by ICP/MS		03/31/2010	03/31/2010
1003J51-002B	GW-032410-DJB-002	3/24/2010 3:10:00PM	Groundwater	Dissolved Metals by ICP/MS		03/31/2010	04/01/2010
1003J51-002C	GW-032410-DJB-002	3/24/2010 3:10:00PM	Groundwater	Hexavalent Chromium			03/25/2010
1003J51-002D	GW-032410-DJB-002	3/24/2010 3:10:00PM	Groundwater	Hexavalent Chromium, Dissolved			03/25/2010
1003J51-003A	GW-032410-DJB-003	3/24/2010 3:30:00PM	Groundwater	Total Metals by ICP/MS		03/29/2010	03/29/2010
1003J51-003A	GW-032410-DJB-003	3/24/2010 3:30:00PM	Groundwater	Total Metals by ICP/MS		03/29/2010	03/31/2010
1003J51-003B	GW-032410-DJB-003	3/24/2010 3:30:00PM	Groundwater	Dissolved Metals by ICP/MS		03/31/2010	03/31/2010
1003J51-003C	GW-032410-DJB-003	3/24/2010 3:30:00PM	Groundwater	Hexavalent Chromium			03/25/2010
1003J51-003D	GW-032410-DJB-003	3/24/2010 3:30:00PM	Groundwater	Hexavalent Chromium, Dissolved			03/25/2010
1003J51-004A	GW-032410-DJB-004	3/24/2010 5:45:00PM	Groundwater	Total Metals by ICP/MS		03/29/2010	03/29/2010
1003J51-004A	GW-032410-DJB-004	3/24/2010 5:45:00PM	Groundwater	Total Metals by ICP/MS		03/29/2010	03/31/2010
1003J51-004B	GW-032410-DJB-004	3/24/2010 5:45:00PM	Groundwater	Dissolved Metals by ICP/MS		03/31/2010	03/31/2010
1003J51-004C	GW-032410-DJB-004	3/24/2010 5:45:00PM	Groundwater	Hexavalent Chromium			03/25/2010
1003J51-004D	GW-032410-DJB-004	3/24/2010 5:45:00PM	Groundwater	Hexavalent Chromium, Dissolved			03/25/2010
1003J51-005A	GW-032410-DJB-005	3/24/2010 6:00:00PM	Groundwater	APPENDIX I METALS		03/29/2010	03/29/2010
1003J51-005A	GW-032410-DJB-005	3/24/2010 6:00:00PM	Groundwater	Total Metals by ICP/MS		03/29/2010	03/29/2010
1003J51-005B	GW-032410-DJB-005	3/24/2010 6:00:00PM	Groundwater	Dissolved Metals by ICP/MS		03/31/2010	03/31/2010
1003J51-005C	GW-032410-DJB-005	3/24/2010 6:00:00PM	Groundwater	Hexavalent Chromium			03/25/2010
1003J51-005D	GW-032410-DJB-005	3/24/2010 6:00:00PM	Groundwater	Hexavalent Chromium, Dissolved			03/25/2010

Client: Conestoga, Rovers, & Associates, Inc.
 Project Name: Birdsong Peanut
 Workorder: 1003J51

ANALYTICAL QC SUMMARY REPORT

BatchID: 127106

Sample ID: MB-127106		Client ID:		Units: ug/L		Prep Date: 03/29/2010		Run No: 168433			
SampleType: MBLK		TestCode: Total Metals by ICP/MS SW6020A		BatchID: 127106		Analysis Date: 03/29/2010		Seq No: 3493063			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	BRL	5.00	0	0	0	0	0	0	0	0	
Cadmium	BRL	0.700	0	0	0	0	0	0	0	0	
Chromium	BRL	5.00	0	0	0	0	0	0	0	0	
Copper	BRL	2.00	0	0	0	0	0	0	0	0	
Lead	BRL	1.00	0	0	0	0	0	0	0	0	
Manganese	BRL	5.00	0	0	0	0	0	0	0	0	
Potassium	BRL	100	0	0	0	0	0	0	0	0	
Selenium	BRL	5.00	0	0	0	0	0	0	0	0	
Silver	BRL	1.00	0	0	0	0	0	0	0	0	

Sample ID: LCS-127106		Client ID:		Units: ug/L		Prep Date: 03/29/2010		Run No: 168433			
SampleType: LCS		TestCode: Total Metals by ICP/MS SW6020A		BatchID: 127106		Analysis Date: 03/29/2010		Seq No: 3493062			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	98.94	5.00	100	0	98.9	85	115	0	0	0	
Cadmium	104.9	0.700	100	0	105	85	115	0	0	0	
Chromium	103.9	5.00	100	0	104	85	115	0	0	0	
Copper	99.56	2.00	100	0	99.6	85	115	0	0	0	
Lead	103.1	1.00	100	0	103	85	115	0	0	0	
Manganese	105.4	5.00	100	0	105	85	115	0	0	0	
Potassium	1074	100	1000	0	107	80	120	0	0	0	
Selenium	96.11	5.00	100	0	96.1	85	115	0	0	0	
Silver	10.22	1.00	10	0	102	85	115	0	0	0	

Sample ID: 1003J51-005AMS		Client ID: GW-032410-DJB-005		Units: ug/L		Prep Date: 03/29/2010		Run No: 168433			
SampleType: MS		TestCode: Total Metals by ICP/MS SW6020A		BatchID: 127106		Analysis Date: 03/29/2010		Seq No: 3493065			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	II	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Conestoga, Rovers, & Associates, Inc.
 Project Name: Birdsong Peanut
 Workorder: 1003J51

ANALYTICAL QC SUMMARY REPORT

BatchID: 127106

Sample ID: 1003J51-005AMS		Client ID: GW-032410-DJB-005				Units: ug/L		Prep Date: 03/29/2010		Run No: 168433	
SampleType: MS		TestCode: Total Metals by ICP/MS SW6020A				BatchID: 127106		Analysis Date: 03/29/2010		Seq No: 3493065	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	95.23	5.00	100	0	95.2	70	130	0	0	0	
Cadmium	101.8	0.700	100	1.255	101	70	130	0	0	0	
Chromium	267.7	5.00	100	171.7	96	70	130	0	0	0	
Copper	89.42	2.00	100	0.2290	89.2	70	130	0	0	0	
Lead	105.3	1.00	100	0.1800	105	70	130	0	0	0	
Manganese	584.4	5.00	100	482.7	102	70	130	0	0	0	
Potassium	66900	100	1000	65310	159	70	130	0	0	0	S
Selenium	94.54	5.00	100	0.9220	93.6	70	130	0	0	0	
Silver	9.573	1.00	10	0.01400	95.6	70	130	0	0	0	

Sample ID: 1003J51-005AMSD	Client ID: GW-032410-DJB-005	Units: ug/L		Prep Date: 03/29/2010	Run No: 168433						
SampleType: MSD	TestCode: Total Metals by ICP/MS SW6020A	BatchID: 127106		Analysis Date: 03/29/2010	Seq No: 3493066						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	94.65	5.00	100	0	94.6	70	130	95.23	0.611	20	
Cadmium	101.8	0.700	100	1.255	101	70	130	101.8	0	20	
Chromium	271.7	5.00	100	171.7	100	70	130	267.7	1.48	20	
Copper	88.99	2.00	100	0.2290	88.8	70	130	89.42	0.482	20	
Lead	105.2	1.00	100	0.1800	105	70	130	105.3	0.095	20	
Manganese	596.8	5.00	100	482.7	114	70	130	584.4	2.1	20	
Potassium	68710	100	1000	65310	340	70	130	66900	2.67	20	S
Selenium	95.12	5.00	100	0.9220	94.2	70	130	94.54	0.612	20	
Silver	9.407	1.00	10	0.01400	93.9	70	130	9.573	1.75	20	

Qualifiers: > Greater than Result value
 BRL Below reporting limit
 J Estimated value detected below Reporting Limit
 Rpt Lim Reporting Limit

< Less than Result value
 E Estimated (value above quantitation range)
 N Analyte not NELAC certified
 S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank
 II Holding times for preparation or analysis exceeded
 R RPD outside limits due to matrix

Client: Conestoga, Rovers, & Associates, Inc.
 Project Name: Birdsong Peanut
 Workorder: 1003J51

ANALYTICAL QC SUMMARY REPORT

BatchID: 127264

Sample ID: MB-127264	Client ID:				Units: ug/L	Prep Date: 03/31/2010	Run No: 168632				
SampleType: MBLK	TestCode: Dissolved Metals by ICP/MS SW6020A				BatchID: 127264	Analysis Date: 03/31/2010	Seq No: 3497248				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	BRL	5.00	0	0	0	0	0	0	0	0	
Cadmium	BRL	0.700	0	0	0	0	0	0	0	0	
Chromium	BRL	5.00	0	0	0	0	0	0	0	0	
Copper	0.8840	2.00	0	0	0	0	0	0	0	0	J
Lead	BRL	1.00	0	0	0	0	0	0	0	0	
Manganese	BRL	5.00	0	0	0	0	0	0	0	0	
Potassium	BRL	100	0	0	0	0	0	0	0	0	
Selenium	1.072	5.00	0	0	0	0	0	0	0	0	J
Silver	0.01700	1.00	0	0	0	0	0	0	0	0	J

Sample ID: LCS-127264	Client ID:	Units: ug/L	Prep Date: 03/31/2010	Run No: 168632							
SampleType: LCS	TestCode: Dissolved Metals by ICP/MS SW6020A	BatchID: 127264	Analysis Date: 03/31/2010	Seq No: 3497245							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	96.93	5.00	100	0	96.9	85	115	0	0	0	
Cadmium	98.96	0.700	100	0	99	85	115	0	0	0	
Chromium	96.31	5.00	100	0	96.3	85	115	0	0	0	
Copper	94.63	2.00	100	0.8840	93.7	85	115	0	0	0	
Lead	97.53	1.00	100	0	97.5	85	115	0	0	0	
Manganese	97.62	5.00	100	0	97.6	85	115	0	0	0	
Potassium	970.1	100	1000	0	97	80	120	0	0	0	
Selenium	95.50	5.00	100	1.072	94.4	85	115	0	0	0	
Silver	9.743	1.00	10	0.01700	97.3	85	115	0	0	0	

Sample ID: 1003J92-001IMS	Client ID:	Units: ug/L	Prep Date: 03/31/2010	Run No: 168632							
SampleType: MS	TestCode: Dissolved Metals by ICP/MS SW6020A	BatchID: 127264	Analysis Date: 03/31/2010	Seq No: 3497252							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Qualifiers: > Greater than Result value
 BRL Below reporting limit
 J Estimated value detected below Reporting Limit
 Rpt Lim Reporting Limit

< Less than Result value
 E Estimated (value above quantitation range)
 N Analyte not NELAC certified
 S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank
 H Holding times for preparation or analysis exceeded
 R RPD outside limits due to matrix

Client: Conestoga, Rovers, & Associates, Inc.
 Project Name: Birdsong Peanut
 Workorder: 1003J51

ANALYTICAL QC SUMMARY REPORT

BatchID: 127264

Sample ID: 1003J92-001IMS	Client ID:				Units: ug/L	Prep Date: 03/31/2010	Run No: 168632				
SampleType: MS	TestCode: Dissolved Metals by ICP/MS SW6020A				BatchID: 127264	Analysis Date: 03/31/2010	Seq No: 3497252				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	94.80	5.00	100	0	94.8	70	130	0	0	0	
Cadmium	97.38	0.700	100	0	97.4	70	130	0	0	0	
Chromium	94.23	5.00	100	0	94.2	70	130	0	0	0	
Copper	95.21	2.00	100	1.966	93.2	70	130	0	0	0	
Lead	96.58	1.00	100	0.1730	96.4	70	130	0	0	0	
Manganese	118.3	5.00	100	22.58	95.7	70	130	0	0	0	
Potassium	2511	100	1000	1567	94.4	70	130	0	0	0	
Selenium	95.36	5.00	100	1.374	94	70	130	0	0	0	
Silver	9.578	1.00	10	0	95.8	70	130	0	0	0	

Sample ID: 1003J92-001IMSD	Client ID:	Units: ug/L	Prep Date: 03/31/2010	Run No: 168632							
SampleType: MSD	TestCode: Dissolved Metals by ICP/MS SW6020A	BatchID: 127264	Analysis Date: 03/31/2010	Seq No: 3497254							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	97.67	5.00	100	0	97.7	70	130	94.80	2.98	20	
Cadmium	96.57	0.700	100	0	96.6	70	130	97.38	0.835	20	
Chromium	94.83	5.00	100	0	94.8	70	130	94.23	0.635	20	
Copper	95.99	2.00	100	1.966	94	70	130	95.21	0.816	20	
Lead	96.74	1.00	100	0.1730	96.6	70	130	96.58	0.166	20	
Manganese	118.2	5.00	100	22.58	95.6	70	130	118.3	0.085	20	
Potassium	2518	100	1000	1567	95.1	70	130	2511	0.278	20	
Selenium	99.08	5.00	100	1.374	97.7	70	130	95.36	3.83	20	
Silver	9.546	1.00	10	0	95.5	70	130	9.578	0.335	20	

Qualifiers: > Greater than Result value
 BRL Below reporting limit
 J Estimated value detected below Reporting Limit
 Rpt Lim Reporting Limit

< Less than Result value
 E Estimated (value above quantitation range)
 N Analyte not NELAC certified
 S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank
 H Holding times for preparation or analysis exceeded
 R RPD outside limits due to matrix

ANALYTICAL QC SUMMARY REPORT

Client: Conestoga, Rovers, & Associates, Inc.
 Project Name: Birdsong Peanut
 Workorder: 1003J51

BatchID: R168348

Sample ID: MB-R168348	Client ID:					Units: mg/L	Prep Date:		Run No: 168348		
SampleType: MBLK	TestCode: Hexavalent Chromium, Dissolved	SW7196				BatchID: R168348	Analysis Date: 03/25/2010		Seq No: 3491291		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	BRL	0.0100	0	0	0	0	0	0	0	0	

Sample ID: LCS-R168348	Client ID:					Units: mg/L	Prep Date:		Run No: 168348		
SampleType: LCS	TestCode: Hexavalent Chromium, Dissolved	SW7196				BatchID: R168348	Analysis Date: 03/25/2010		Seq No: 3491292		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.5078	0.0100	0.5	0	102	90	110	0	0	0	

Sample ID: 1003J51-002DMS	Client ID: GW-032410-DJB-002					Units: mg/L	Prep Date:		Run No: 168348		
SampleType: MS	TestCode: Hexavalent Chromium, Dissolved	SW7196				BatchID: R168348	Analysis Date: 03/25/2010		Seq No: 3491301		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.5969	0.0100	0.5	0.07180	105	85	115	0	0	0	

Sample ID: 1003J51-002DMSD	Client ID: GW-032410-DJB-002					Units: mg/L	Prep Date:		Run No: 168348		
SampleType: MSD	TestCode: Hexavalent Chromium, Dissolved	SW7196				BatchID: R168348	Analysis Date: 03/25/2010		Seq No: 3491304		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.5829	0.0100	0.5	0.07180	102	85	115	0.5969	2.37	20	

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
BRL	Below reporting limit	E Estimated (value above quantitation range)	II Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Conestoga, Rovers, & Associates, Inc.
 Project Name: Birdsong Peanut
 Workorder: 1003J51

ANALYTICAL QC SUMMARY REPORT

BatchID: R168586

Sample ID: MB-R168586	Client ID:					Units: mg/L	Prep Date:		Run No: 168586		
SampleType: MBLK	TestCode: Hexavalent Chromium	SW7196					BatchID: R168586	Analysis Date: 03/25/2010		Seq No: 3496352	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	BRL	0.0100	0	0	0	0	0	0	0	0	

Sample ID: LCS-R168586	Client ID:					Units: mg/L	Prep Date:		Run No: 168586		
SampleType: LCS	TestCode: Hexavalent Chromium	SW7196					BatchID: R168586	Analysis Date: 03/25/2010		Seq No: 3496353	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.5004	0.0100	0.5	0	100	90	110	0	0	0	

Sample ID: 1003J51-002CMS	Client ID: GW-032410-DJB-002					Units: mg/L	Prep Date:		Run No: 168586		
SampleType: MS	TestCode: Hexavalent Chromium	SW7196					BatchID: R168586	Analysis Date: 03/25/2010		Seq No: 3496359	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	2.613	0.0500	2.5	0.06050	102	85	115	0	0	0	

Sample ID: 1003J51-002CMSD	Client ID: GW-032410-DJB-002					Units: mg/L	Prep Date:		Run No: 168586		
SampleType: MSD	TestCode: Hexavalent Chromium	SW7196					BatchID: R168586	Analysis Date: 03/25/2010		Seq No: 3496360	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	2.602	0.0500	2.5	0.06050	102	85	115	2.613	0.441	20	

Qualifiers: > Greater than Result value
 BRL Below reporting limit
 J Estimated value detected below Reporting Limit
 Rpt Lim Reporting Limit

< Less than Result value
 E Estimated (value above quantitation range)
 N Analyte not NELAC certified
 S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank
 H Holding times for preparation or analysis exceeded
 R RPD outside limits due to matrix

**DERIVATION OF GENERIC TYPE 4 TARGET CONCENTRATIONS FOR GROUNDWATER
BIRDSOING PEANUT PROPERTY (HSI NO. 10710)
COLQUITT, GEORGIA**

Regulated Substances	Toxicity Class	Toxicity Indices				PRGs calculated from RAGS			Type 4 will not be less than:		Type 4
		CSF	URF	RfD	RfC	Carcinogenic	Non-Carcinogenic	Lesser of	Type 1	Detection	RRS Target
		(Oral)	(Inhalation)	(Oral)	(Inhalation)	(C)	(NC)	C or NC	RRS	Limits	Concentrations
		(mg/kg-day) ⁻¹	(mg/m ³) ⁻¹	(mg/kg-day)	(mg/m ³)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Metals **											
Antimony	—	—	--	4.00E-04	--	NV	4.09E-02	4.09E-02	2.00E-02 ***	2.00E-02	4.09E-02
Arsenic	A	1.50E+00	4.30E+00	3.00E-04	1.50E-05	1.91E-03	3.07E-02	1.91E-03	1.00E-02	1.00E-02	1.00E-02
Barium	D	—	—	2.00E-01	5.00E-04	NV	2.04E+01	2.04E+01	2.00E+00	2.00E-02	2.04E+01
Beryllium	B1	—	2.40E+00	2.00E-03	2.00E-05	NV	2.04E-01	2.04E-01	4.00E-03	1.00E-02	2.04E-01
Cadmium	B	—	1.80E+00	5.00E-04	1.00E-05	NV	5.11E-02	5.11E-02	5.00E-03	5.00E-03	5.11E-02
Chromium III	D	—	—	1.50E+00	—	NV	1.53E+02	1.53E+02	1.00E-02 ****	1.00E-02	1.53E+02
Chromium VI	A/D*	5.00E-01	8.40E+01	3.00E-03	1.00E-01	5.72E-02	3.07E-01	5.72E-02	1.00E-02 ****	1.00E-02	5.72E-02
Copper	D	—	--	4.00E-02	—	NV	4.09E+00	4.09E+00	1.30E+00	1.00E-02	4.09E+00
Lead	B2	--	--	—	—	NV	NV	NV	1.50E-02	1.00E-02	1.50E-02
Mercury	D	—	—	1.60E-04	3.00E-04	NV	8.31E-04	8.31E-04	2.00E-03	2.00E-04	2.00E-03
Nickel	—	—	2.40E-01	2.00E-02	9.00E-05	NV	2.04E+00	2.04E+00	1.00E-01	2.00E-02	2.04E+00
Selenium	D	—	—	5.00E-03	2.00E-02	NV	5.11E-01	5.11E-01	5.00E-02	2.00E-02	5.11E-01
Silver	D	—	—	5.00E-03	—	NV	5.11E-01	5.11E-01	1.00E-01	1.00E-02	5.11E-01
Thallium	—	—	—	6.50E-05	—	NV	6.64E-03	6.64E-03	2.00E-02 ***	2.00E-02	2.00E-02
Vanadium	—	—	—	7.00E-03	—	NV	7.15E-01	7.15E-01	2.00E-01	1.00E-02	7.15E-01
Zinc	D	—	—	3.00E-01	—	NV	3.07E+01	3.07E+01	2.00E+00	2.00E-02	3.07E+01
Cyanide	C	—	--	2.00E-02	—	NV	2.04E+00	2.04E+00	2.00E-01	1.00E-02	2.04E+00

Notes:

- No value available.
 * D for oral exposure; A for inhalation exposure.
 ** Although an inhalation RfD and/or CSF is available for this inorganic compound, the inhalation toxicity factor(s) was not applied in the derivation of the PRGs due to the non-volatile nature of the metal.
 *** The Type 1 RRS defaults to the detection limit since the health-based drinking water criterion from Appendix III Table 1, Groundwater Criteria is lower than the current detection limit.
 **** The Type 1 RRS defaults to the detection limit since the analyte is not listed in Appendix III Table 1.
 NV No value established.
 RAGS Risk Assessment Guidance for Superfund, Volume 1, Part B [EPA/540/R-92/003], December, 1991.

Exposure Equations:

$$\text{Carcinogenic Endpoints: PRG} = \frac{\text{TR} \times \text{ATc}}{\text{EF} \times \text{ED} \times [(1/\text{CSF} \times \text{IR})/\text{BW} + (1/\text{URF} \times \text{K})]}$$

$$\text{Non-Carcinogenic Endpoints: PRG} = \frac{\text{THQ} \times \text{ATnc}}{\text{EF} \times \text{ED} \times [(1/\text{RfD}) \times \text{IR})/\text{BW} + (1/\text{RfC}) \times \text{K}]}$$

where:

Preliminary Risk Goal (mg/L)	PRG	calculated	
Target Risk Level (unitless)	TR	1.00E-05	CEPD, 2003 (Class A/B carcinogens)
Target Risk Level (unitless)	TR	1.00E-04	CEPD, 2003 (Class C carcinogens)
Target Hazard Level (unitless)	THQ	1.00E+00	CEPD, 2003
Cancer Slope Factor (per mg/kg-day)	CSF	chemical-specific	RSL, 2009
Reference Dose Factor (mg/kg-day)	RfD	chemical-specific	RSL, 2009
Unit Risk Factor (1/(mg/m ³))	URF	chemical-specific	RSL, 2009
Reference Concentration (mg/m ³)	RfC	chemical-specific	RSL, 2009
Ingestion Rate (L/day)	IR	1	CEPD, 2003
Exposure Frequency (days/year)	EF	250	CEPD, 2003
Exposure Duration (years)	ED	25	CEPD, 2003
Body Weight (kg)	BW	70	CEPD, 2003
Averaging Time - carc. (days)	ATc	25,550	CEPD, 2003
Averaging Time - noncarc. (days)	ATnc	9,125	CEPD, 2003
Volatilization Factor (L/m ³)	K	0.5	CEPD, 2003

References:

- CEPD, 2003: Rule 391-3-19-.07, Risk Reduction Standards, July 23, 2003.
 RSL, 2009: Regional Screening Level Table Master, December 2009.

APPENDIX U

2011 CRA REVISED CAP



REVISED CORRECTIVE ACTION PLAN (CAP)

**FORMER FARMER'S FEED AND MILLING COMPANY,
NOW BIRDSONG PEANUT
608 EAST MAIN STREET**

**(HSI SITE NO. 10710)
COLQUITT, GEORGIA**

**Prepared by:
Conestoga-Rovers
& Associates**

3075 Breckinridge Blvd., Suite 470
Duluth, Georgia
United States 30096

Office: (770) 441-0027
Fax: (770) 441-2050

web: <http://www.CRAworld.com>

**AUGUST 2011
REF. NO. 018283 (9)**



REVISED CORRECTIVE ACTION PLAN (CAP)

**FORMER FARMER'S FEED AND MILLING COMPANY,
NOW BIRDSONG PEANUT
608 EAST MAIN STREET**

**(HSI SITE NO. 10710)
COLQUITT, GEORGIA**

**Prepared by:
Conestoga-Rovers
& Associates**

3075 Breckinridge Blvd., Suite 470
Duluth, Georgia
United States 30096

Office: (770) 441-0027
Fax: (770) 441-2050

web: <http://www.CRAworld.com>

**AUGUST 2011
REF. NO. 018283 (9)**

Revised Corrective Action Plan (CAP)
Birdsong Peanut (HSI NO.10710)
Colquitt, Georgia

CERTIFICATION OF GROUNDWATER REPORT

I certify that I am a qualified ground-water scientist who has received a baccalaureate or post-graduate degree in the natural sciences or engineering, and have sufficient training and experience in ground-water hydrology and related fields, as demonstrated by state registration and completion of accredited university courses, that enable me to make sound professional judgments regarding ground-water monitoring and contaminant fate and transport. I further certify that this report was prepared by me or by a subordinate working under my direction.

Terefe B. Mazengia, P.G.

Printed Name (Professional Geologist)



Terefe
Signature (Professional Geologist)

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Revised Corrective Action Plan (CAP)
Birdsong Peanut (HSI NO.10710)
Colquitt, Georgia

CERTIFICATION OF GROUNDWATER REPORT

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Terefe B. Mazengia, P.G.

Printed Name (Professional Geologist)



Terefe
Signature (Professional Geologist)

1.0 INTRODUCTION

Conestoga-Rovers & Associates (CRA) has prepared this revised Corrective Action Plan (CAP) on behalf of Man Investment Holdings, Inc. (MIHI; formerly ED&F & Man Group, Inc.), for the former Farmer's Feed and Milling Company (FFM), now Birdsong Peanut, in Colquitt, Miller County, Georgia (Property). The Man Group sold the Colquitt business to Birdsong and retained responsibility for certain environmental liabilities, including the CAP. A Property location map is provided as [Figure 1](#). [Figure 2](#) shows the Site Plan.

This facility was listed as Site Number 10710 on the Hazardous Sites Inventory (HSI) on December 17, 2001, due to the detection of tetrachloroethene (also known as perchloroethene, PCE) above Notification Concentrations (NCs) in the groundwater beneath a limited portion of the Property. There have been no detections of PCE in soil at or above NCs or applicable Risk Reduction Standards (RRSs).

The HSI "Site" consists of the limited area within the Property where groundwater has been affected by PCE. No other related regulated substances have been detected in groundwater samples or identified in on-Site soil samples above HSRA notification levels with the exception of chromium in groundwater believed to be an artifact from the earlier treatment of PCE by oxidants.

As part of the groundwater voluntary interim remedial program, potassium permanganate was injected at the Site within the known foot print of impact to oxidize the contaminant of concern (COC). Concentrations of PCE decreased to below the maximum contaminant level (MCL) however metals in the ground, particularly hexavalent chromium, were mobilized within the immediate area of treatment. As a result, some monitoring wells have shown concentrations of hexavalent chromium in groundwater which exceeded applicable RRSs.

In December 2009, CRA submitted a CAP to the Georgia Environmental Protection Division that proposed on-going monitoring and annual confirmation that land use at the Site had not changed. The Georgia Environmental Protection Division conditionally approved the CAP by letter dated January 15, 2010.

MIHI directed CRA to prepare this revised CAP to address the residual groundwater impacts and accelerate the delisting of the Site from the Hazardous Site Inventory.

1.1 PURPOSE

The purpose of the revised CAP is to describe the activities that are necessary to bring the Site into compliance with the Risk Reduction Standards (RRS) provided in the Georgia Rules for Hazardous Site Response (Chapter 391-3-19). The Rules were promulgated under authority of the Hazardous Site Response Act (HSRA), OCGA § 12-8-90 et seq. (1992).

The 2005 CAP describes the voluntary remedial measures that have been undertaken concurrently with investigations for the 2003 Compliance Status Report (CSR) of soil and groundwater impact. This revised CAP describes the process through which a remedy for the Site has been proposed consistent with the Georgia Rules for Hazardous Site Response. Finally, the groundwater monitoring program that is needed to assess performance of the proposed corrective actions is presented.

1.2 REPORT ORGANIZATION

This revised CAP is organized as follows:

Section 1.0	Introduction (including background)
Section 2.0	Property Description
Section 3.0	Corrective Actions to date
Section 4.0	Treatability Testing
Section 5.0	Proposed Corrective Actions including permit requirements
Section 6.0	Performance Monitoring Program
Section 7.0	Permit Requirement
Section 8.0	CAP Implementation
Section 9.0	Public Notice.

2.0 PROPERTY DESCRIPTION

The Birdsong Peanut Property is a peanut buying and shelling facility, located northeast of the intersection of the Georgia Southwestern Railroad and East Main Street (Georgia State Highway 91), in Colquitt, Miller County, Georgia. The Property location is shown on the USGS topographic map presented on [Figure 1](#).

The Property consists of approximately 40 acres, and is located within an agricultural/commercial district with adjacent properties zoned primarily as commercial. The Property is bounded on the north by Pine Street, additional storage and operations buildings owned by Birdsong Peanut, and Yates Concrete; on the east by Pert South laboratory, commercial properties, and additional storage and operations for Birdsong Peanut; on the south by Main Street and Southern States agricultural business (agricultural chemicals and peanut buying); and on the west by the Georgia Southwestern Railroad, with residential properties further to the west. To the southwest is a former petroleum bulk storage facility owned by Tully Oil Company, previously owned by Roy W. Bush Oil Company.

The "Site", defined as the area affected by a release of PCE, is restricted to a limited portion of the southwest quarter of the Property east of the railroad right-of-way, between the chemical storage building and fertilizer storage building currently leased by United Agricultural Products (UAP).

[Figure 2](#) is a scaled drawing that shows the developed features of the Property. The majority of the Property that is not occupied by buildings is paved with either asphalt or concrete. The Property is flat, with a very gentle slope to the east. Stormwater runoff from Property buildings and paved areas is conveyed through paved drainage swales and ditches to catch basins connected to the municipal storm sewer, and ultimately discharges to local creeks. Additional details about the Property are provided in the CSR previously submitted on September 15, 2005.

2.1 PROPERTY DEVELOPMENT HISTORY

The Birdsong Peanut Property was formerly owned by Farmer's Feed and Milling Company. It is currently used for agriculturally related operations including peanut purchasing, warehousing, and shelling. The southwest portion of the Property is leased by UAP for agricultural chemical and fertilizer sales and spraying services. Prior to its current use, the Property was reportedly residential and agricultural (up to early 1950's), with a portion of the Property occupied by a lumber mill. The original Site building,

presently used by UAP for fertilizer storage, was used for fertilizer production in the late 1950's. The peanut shelling and warehousing operations started at the Property in the early 1960's.

2.2 PREVIOUS INVESTIGATIONS

Based on the detection of PCE at a reportable quantity (above background) in groundwater, an Initial Release Notification under the HSRA program was prepared and sent to EPD on March 20, 2001. Subsequent conversations with EPD personnel indicated that the decision to list the Property on the Hazardous Site Index would be deferred pending receipt of additional information on the extent of impact from PCE in soils and groundwater on-site. CRA subsequently conducted further soil and groundwater investigations at the Property in July 2001.

EPD notified ED&F in its December 17, 2001 letter that the Site had been listed on the HSI, but a CSR Call-In was not issued at that time. ED&F began conducting voluntary remediation of groundwater at the Site in May 2002. The Site was subsequently issued a CSR Call-In on March 7, 2003.

CRA, on behalf of MIHI, on September 15, 2005, prepared and submitted to EPD a CSR that described the results of sampling of on-Site soils and groundwater. [Figure 2](#) shows the locations where samples have been collected to date.

The investigations at the Site have consistently shown that all HSRA Type 1 (i.e., residential) RRSs for soil are met at the Site. PCE was detected in a total of only 12 out of 46 soil samples at concentrations ranging from 3.2 µg/kg to 29 µg/kg, well below the Type 1 RRS of 500 µg/kg.

Total and hexavalent chromium was identified in the groundwater post in-situ chemical oxidation (ISCO) injection. CRA's Innovative Technology Group (ITG) was requested to assess technologies to remove hexavalent chromium and residual KMnO₄ from the soil and groundwater and to perform a treatability study to test the effectiveness of the technology.

The groundwater samples collected during the last two sampling events (2010 and 2011) showed exceedance compared to the Type 1 and 4 RRS for groundwater. The Type 1 and 4 RRS for hexavalent chromium is 0.01 mg/L and Type 1 for total chromium is 0.1 mg/L. Samples collected at monitoring wells MW-6, MW-10 and MW-11 currently exceed the Type 1 and 4 RRS for hexavalent chromium and exceed Type 1 RRS for total

chromium. As a result of the voluntary remediation performed at the Site, the PCE concentration at well MW-10 and MW-11, which formerly showed the highest PCE concentrations, has been below the Type 1 RRS during the December 2006 and April and June 2007 sampling events.

2.3 PRELIMINARY REMEDIATION GOALS

It will be MIHI's goal to achieve the Type 1 RRS of 10 µg/L in groundwater at the Site for the trivalent and hexavalent chromium and Type 1 RRS of 100 µg/L for total chromium. As the remedial activities progress, this goal will be re-evaluated and MIHI may consider using Site-specific groundwater cleanup standards based on Type 4 RRS if achieving the Type 1 in a reasonable amount of time does not appear to be technically feasible.

3.0 CORRECTIVE ACTIONS TO DATE

Based on the results of the on-going Site investigations, ED&F and Birdsong Peanut elected to conduct voluntary interim remedial measures at the Site as a means to eliminate or minimize potential risk represented by the Site. The voluntary remedial technology used to date has been in-situ chemical injection of potassium permanganate for oxidation of the observed chlorinated hydrocarbon, PCE.

3.1 VOLUNTARY INJECTION PROGRAM

The injection program was implemented in an iterative manner, with follow-up focused injections conducted based on the results of the performance monitoring groundwater sampling conducted.

ISCO was selected as the interim remedial measure to treat the PCE impacted groundwater at the Site. Four treatments of potassium permanganate (KMnO_4) injections were made. The first injection was conducted in May 2002, at ten direct push technology (DPT) boring locations across the Site. Approximately 50 gallons of permanganate (a 1-percent solution by weight) were injected at each of the injection points, at depths of 25 to 35 feet. Monitoring well sampling indicated that the PCE in the vicinity of MW-6 had been oxidized. However, the PCE detected in MW-5 ($8\text{ }\mu\text{g/L}$) was slightly above the MCL for PCE of $5\text{ }\mu\text{g/L}$. A second injection was performed in September 2002. PCE had been detected at a concentration of $130\text{ }\mu\text{g/L}$ in a new monitoring well (MW-10). One hundred gallons of KMnO_4 at 5 percent by weight were pressure-injected into the subsurface using DPT at ten boring locations focused between MW-5, MW-6, and well MW-10. After MW-11 was installed on August 12, 2003, approximately 250 gallons of a 6-percent KMnO_4 solution were injected in each of ten injection borings located along a line running northwest-southeast from MW-10 to MW-6. On September 30, 2003, confirmatory groundwater sampling showed no detection of PCE in MW-7D and MW-10, but showed detections in MW-5, MW-6, and MW-11 of $8\text{ }\mu\text{g/L}$, $20\text{ }\mu\text{g/L}$, and $430\text{ }\mu\text{g/L}$, respectively. A fourth, focused injection of KMnO_4 was performed during the week of May 3, 2004. Two hundred fifty gallons of 6 percent KMnO_4 solution were injected in each of ten injection borings oriented in a grid pattern starting from 11 feet west of MW-11 leading to the east by MW-10; injection was also performed near MW-6 and adjacent to MW-5. By 2005, the overall concentrations of PCE in the limited groundwater contaminant plume had been significantly reduced, at least by an order of magnitude, through the use of KMnO_4 injection. Recent sampling has shown that the PCE has been treated to below the MCL at all well locations.

It appears that the presence of PCE in the localized perched zones made it difficult to get the KMnO_4 to all the zones that were impacted. Therefore, a large excess of KMnO_4 (6 percent solution) was used to treat the PCE. Six percent is above the solubility of KMnO_4 at normal temperatures and is obtained by heating the solution with steam. When the heated solution disperses into the soil, it loses heat rapidly and the KMnO_4 can be precipitated in the formation. Once precipitated, it can take a very long time to redissolve and react with organic material in the soil. A brown coloration in the groundwater was observed suggesting that there likely are residual levels of KMnO_4 in the groundwater and soil.

3.2 GROUNDWATER MONITORING AND SAMPLING

The second annual groundwater monitoring event was completed in March 2011. During the March 2011 annual sampling event, the following activities were completed:

- Inspection of the existing monitoring well network (MW-4, MW-5, MW-6, MW-7D, MW-8, MW-9, MW-10, MW-11, MW-12, MW-13, MW-14, MW-15, MW-16, and MW-17D; as noted below, MW-12 and MW-16 could not be located)
- Measurement of depth to groundwater in the above-noted monitoring wells
- Purging and collection of groundwater samples from the four designated monitoring wells located within and near the primary groundwater treatment zone (MW-5, MW-6, MW-10, and MW-11)

Twelve monitoring wells were located during the inspection and each well appeared to be in satisfactory condition with the exception of monitoring well MW-4, which had a damaged surface casing. Monitoring wells MW-12 and MW-16 were not found and have presumably been covered with local soil. A metal detector was used to perform a comprehensive search for these wells. Scrap metal pieces were consistently encountered in the suspected location of the two wells; the search was abandoned when no evidence of the wells was found. The locations of the monitoring wells designated for inspection and sampling are shown on [Figure 2](#).

Depths to groundwater were measured relative to the top of casing (TOC) at each accessible monitoring well with an electronic water level meter. The March 2011 depths to groundwater and associated groundwater elevations are listed in [Table 1](#). The groundwater elevation contours for the intermediate depth (total depths greater than 20 feet, but less than the deep wells) monitoring wells are provided on [Figure 3](#).

Following measurement of the depths to groundwater in monitoring wells MW-5, MW-6, MW-10, and MW-11 five groundwater samples, including one field duplicate, were collected for analysis of the following parameters with the associated analytical methods:

- Total and Dissolved Metals, including: arsenic, cadmium, chromium, copper, lead, manganese, potassium, selenium, and silver (EPA Method 6020A)
- Speciated Chromium, including: total and dissolved trivalent chromium (Cr[III]) and hexavalent chromium (Cr[VI]) (EPA Method 7196)

Samples collected for analysis of total metals and total speciated chromium (Cr[III] and Cr[VI]) were transferred directly into preserved and unpreserved sample bottles, respectively, provided by the laboratory. Each sample collected for analysis of dissolved parameters was filtered directly into the preserved (dissolved total metals) and unpreserved (dissolved Cr[III] and Cr[VI]) sample bottles through a dedicated in-line 0.45-micron filter.

3.2 MARCH 2011 ANALYTICAL RESULTS

The March 2010 and March 2011 groundwater analytical results were evaluated with respect to the HSRA RRS and presented in Table 2. As described in correspondence dated January 15, 2010, CRA evaluated historical analytical data and the anticipated land use of the Property to calculate the Type 4 RRS presented in Table 2. The March 2011 groundwater results exceeded the Type 1 and Type 4 RRS for hexavalent chromium in the three monitoring wells within the primary groundwater treatment zone; chromium concentrations in monitoring well MW-5, located outside the primary treatment zone, fell below the Type 1 RRS. The cadmium and selenium ground water concentrations were below the Type 1 RRS in all wells for the March 2011 event.

Historical concentrations of chromium, particularly in monitoring well MW-6, have exceeded Type 4 RRS; therefore, additional samples were collected in March 2010 and March 2011 for analysis of speciated chromium to assess the status of compliance.

Summary of groundwater results indicate the following:

- Total and dissolved concentrations of trivalent chromium (Cr[III]) in all groundwater samples were reported below the Type 4 RRS (153 mg/L). Trivalent

chromium exceeded the Type 1 RRS of 0.01 mg/L at monitoring well locations MW-6, MW-10 and MW-11.

- Samples from MW-6, MW-10, and MW-11 indicated that hexavalent chromium (Cr[VI]) was detected in the filtered and unfiltered groundwater samples at concentrations which exceeded the Type 1 and Type 4 RRS (0.01 mg/L).
- Concentrations from monitoring well MW-5 was reported as non-detect in 2011. Results indicate a decrease in total and dissolved hexavalent chromium concentrations to below the detection limit and the Type 1 RRS, both of which are 0.01 mg/L.
- Concentrations of total and dissolved cadmium and selenium at MW-10 were also reported to have fallen below the Type 1 RRS for the March 2011 groundwater sampling event. No other exceedences of the RRS were reported for these analytes in the current or prior events.

During the March 2010 sampling event, groundwater recovered from monitoring wells MW-5, MW-6, and MW-11 showed visual evidence (e.g.: pink/purple tinted groundwater) indicating the presence of residual potassium permanganate. However, none of the four wells sampled during the March 2011 sampling event showed any visual evidence of residual potassium permanganate.

Based on the absence of purple color in any of the groundwater samples collected from monitoring wells MW-5, MW-6, MW-10, and MW-11, and the decrease in the levels of hexavalent chromium at monitoring well MW-5, it appears that reduction of the potassium permanganate (i.e., oxidation of tetrachloroethene [PCE] and associated degradation products) is continuing at the Property.

The March 2011 validated groundwater analytical results including historical data are summarized in [Table 2](#). A sample key, data quality assessment and validation memorandum, and complete analytical data report are provided as [Appendix A](#).

4.0 TREATABILITY TESTING

4.1 OBJECTIVES

The primary objectives of this laboratory treatability study were to gather the data necessary to determine whether KMnO_4 remaining in the aquifer can be reduced to manganese dioxide, whether hexavalent chromium in the groundwater can be reduced to trivalent chromium and identify the most effective reducing agent(s) and optimum doses to perform the above treatments.

4.2 TREATABILITY TESTING

Laboratory Characterization

Groundwater samples were collected from two on-site monitoring wells (MW-5 and MW-6) that showed KMnO_4 coloration and a soil sample was collected from the saturated zone adjacent to the wells. Two groundwater samples and one soil sample were shipped to the CRA's laboratory in Niagara Falls, New York on February 3, 2011. Visual observation of the soil sample showed that some of the soil had a pink color and some did not, therefore, the sample was separated based on color and analyzed as two samples.

Upon arrival at the laboratory, the groundwater and soil samples were analyzed for the following parameters: pH, Residual permanganate, Total and Hexavalent Chromium (using a Hach Test), and Total and Hexavalent Chromium (using USEPA SW6010B/SW7196A method). The groundwater samples were tested for ORP, DO in addition to the above.

The pH of both water samples was close to neutral, and both samples had a high positive ORP and high DO, which suggested that oxidizing conditions were present. The sample from well MW-5 contained $12.3 \mu\text{g/L}$ of chromium, most of which appeared to be dissolved. It was pink in color and contained 52 milligrams per liter (mg/L) residual KMnO_4 . The groundwater sample from monitoring well MW-6 contained $167 \mu\text{g/L}$ chromium (hexavalent dissolved). No residual permanganate was detected in the well MW-6 sample.

Both the colored and non-colored soil samples had an acidic pH below pH 5. The colored soil contained 25 mg/kg chromium, and the non-colored soil contained 43 mg/kg chromium. Very little of the chromium in the soils appeared to be in the

hexavalent form. Hexavalent chromium is highly soluble and does not sorb to soil. Despite the pink color observed, no residual permanganate was measured in either of the soil samples.

Laboratory Screening of Reducing Agents

The following reducing agents were tested to assess their ability to reduce KMnO_4 and hexavalent chromium in the groundwater and soil samples:

- Sodium Thiosulfate
- Ferrous sulfate
- Acetic acid
- Sodium Dithionite

Groundwater

One hundred milliliters (mL) of groundwater was placed in a beaker with a magnetic stirrer and a 10-percent solution of reducing agent was added to the beaker drop wise. DO and ORP were monitored during the addition of the reducing agent. When the brown/pink color was observed to have been lost from the groundwater, the groundwater was analyzed for residual KMnO_4 and dissolved chromium.

For the groundwater sample from MW-5, sodium dithionite appeared to be the most effective reagent, removing the purple color from the KMnO_4 after just four drops. The analyses showed that 0.12 gram (g)/L of sodium dithionite removed all of the residual KMnO_4 from the groundwater and reduced the dissolved chromium from 11 $\mu\text{g/L}$ to 4.3 $\mu\text{g/L}$ (61 percent removal).

Sodium thiosulfate and ferrous sulfate were also effective in removing the residual KMnO_4 from the groundwater. However, larger doses were required and dissolved chromium levels were not reduced. Additional testing that was performed to further reduce the dissolved chromium concentration in the groundwater showed that combination of sodium thiosulfate and ferrous sulfate appeared to be the most effective. This combination of reagents reduced the ORP to -69 millivolts (mV) and reduced the dissolved chromium concentration to 0.75 $\mu\text{g/L}$. The dose rate used in this test was 0.24 g/L sodium thiosulfate and 0.24 g/L ferrous sulfate. Acetic acid did not treat either the KMnO_4 or the dissolved chromium.

The above test was repeated for the groundwater sample from well MW-6. No residual KMnO_4 was present in the initial well MW-6 sample; therefore, this parameter was not

measured during the screening. Sodium dithionite was the most effective reagent when used alone. It reduced chromium concentrations to below 10 µg/L at a dose of 0.12 g/L. Sodium thiosulfate and ferrous sulfate also reduced the chromium concentration significantly.

Further testing was performed to further reduce the chromium concentration using combinations of reducing agents. As with the well MW-5 sample, sodium dithionite and sodium thiosulfate tested in combination were not effective. However, as with the well MW-5 sample, sodium thiosulfate in combination with ferrous sulfate was very effective. These reagents reduced the dissolved chromium concentration to less than 5 µg/L. The dose rate used in this test was the same as for the well MW-5 sample: 0.24 g/L sodium thiosulfate and 0.24 g/L ferrous sulfate. Acetic acid was not screened since it was not effective in treating the groundwater from well MW-5.

Soil

A leaching test was performed on the soil in order to determine whether the soil was a possible source of KMnO_4 or chromium impacts to groundwater. Ten grams of the pink colored soil were placed in a jar with groundwater from well MW-6, which did not initially contain residual KMnO_4 . Ten grams of the pink colored soil were also placed in jar with distilled water. Hexavalent chromium and residual KMnO_4 were measured in the aqueous phases after 24 hours. In groundwater from well MW-6, the hexavalent chromium concentration decreased and residual KMnO_4 was not detected. Neither hexavalent chromium nor residual KMnO_4 were detected in the test containing distilled water. These data indicated that chromium and KMnO_4 did not leach from the soil but that some precipitation of chromium from the groundwater may occur on contact with soil.

Further leach testing was performed on both pink and non-pink soil samples using Toxicity Characteristic Leaching Procedures (TCLP). The samples were leached with acetic acid for 17 hours and then analyzed for hexavalent chromium and residual KMnO_4 . Neither hexavalent chromium nor residual KMnO_4 were detected in the leachate from either of the soil samples. This test confirms the results of the previous test, which indicated that chromium and KMnO_4 did not leach from the soil.

Finally, the soil samples were digested using a magnesium chloride/sodium hydroxide/sodium carbonate/phosphate buffer digestion at 95°. This is a very rigorous extraction procedure. The extraction fluid was analyzed for dissolved chromium, dissolved iron, and dissolved manganese. Chromium was present in the extraction fluid at between 22 and 31 µg/L, iron at between 187 and 266 µg/L, and manganese at

between 7.2 and 12 µg/L. These results indicated that the soil was not a significant source of either chromium or KMnO_4 . Iron was present in the soil and may be the reason for the observed pink color.

A memorandum with details of the laboratory bench scale testing and the results for the groundwater and soil samples is provided as [Appendix B](#).

4.3 SUMMARY OF RESULTS

Based on the above treatability testing for groundwater treatment, a dose of 0.24 g/L sodium thiosulfate and 0.24 g/L ferrous sulfate removed chromium and residual KMnO_4 from the groundwater samples. Although the soil sample had a pink color, it was not a source of either KMnO_4 or chromium to groundwater. The pink color may be caused by iron.

5.0 PROPOSED PILOT INJECTION PROGRAM

Based on the results of the bench scale testing, the groundwater will be treated with a mixture of sodium thiosulfate and ferrous sulfate with an approximate dose of 0.12 pound of sodium thiosulfate and 0.12 pound of ferrous sulfate per cubic yard of saturated matrix.

The chromium impacted groundwater has been limited at the ISCO full-scale injection area, with the impact above the RRS focused in three areas (MW-6, MW-10 and MW-11), just to the north of the UAP office and to the south and southwest corner of the UAP fertilizer storage building. The proposed pilot injection, therefore, will be designed to apply an adequate volume of sodium thiosulfate and ferrous sulfate solution in these areas.

The prior voluntary injections completed on Site can also be used to determine the optimum injection method and the optimum application delivery (grid design and injection rate) for the proposed pilot injection program. The results of the prior injections suggest that the proposed program will need to cover the entire affected area with a gridded pattern, to reduce the possibility of missing a portion of the impacted area, and to essentially capture the contamination.

The pilot injection will be accomplished using a diaphragm pump or other comparable mechanical means. The sodium thiosulfate and ferrous sulfate powder will be mixed with water obtained from the municipal water supply system in mixing tanks to form the appropriate concentration. A 0.24 percent sodium thiosulfate and 0.24 percent ferrous sulfate solution will be used for the liquid.

5.1 INJECTANT APPLICATION

For optimum treatment effectiveness a sufficient mass of chemical will be injected to react with both the contaminants and background sinks or interferences. The prior injections suggest that the main limitation on the effectiveness of injections at the Site is the low permeability of the soils, which hinders the injectant in reaching the targeted area. For that reason, liquid atomized injection and, potentially, hydraulic fracturing will be used to improve delivery to the subsurface. Hydraulic fracturing improves the rate of delivery, and liquid atomized injection improves the uniformity of the injection. With hydraulic fracturing, the formation is temporarily "cracked". Hydraulic fracturing involves the injection of fluids at high pressures (approximately 120 pounds per square inch) that slightly exceeds the combined lithostatic pressure (weight of soil column) and

cohesive strength of the soil. This increases the permeability substantially and allows solids, liquids or gases to be injected at a higher rate than without fracturing; the fractures then close at the release of pressure. The pressures are kept at levels that do not create surficial or structural impacts (no "daylighting"). Liquid atomized injection involves the injection of significant quantities of air along with a solid or liquid. The injected air atomizes the liquid to create a mist, or with solids increases the velocity. Liquid atomized injection promotes uniform distribution of the injected materials, and is often used in combination with hydraulic fracturing so that the materials will be dispersed away from the hydraulic fractures.

The solution will be injected in a grid pattern over the aerial extent of the chromium impacted area. The chemical will be injected at a sufficient number of points such that there is an adequate overlap of effective injection "cones". Based on the previous injections, it is anticipated that each injection point will have an effective treatment radius of 10 to 15 feet. The grid of direct push technology (DPT) injection points in the injection area will be a series of 20 foot by 20 foot boxes with injection points at the corners of each box, over an approximate area of 240 ft. by 100 ft. (approximately 60 borings). Within each boring, approximately 2,100 gallons of a liquid solution (approximately 350 gallons per interval) containing sodium thiosulfate and ferrous sulfate will be injected at 5-foot intervals from the top of the saturated zone (15 to 20 ft. bgs) to boring completion at a depth of 40 feet bgs. The calculated amount of reagents and injection volumes are summarized on [Table 3](#). The proposed injection locations are illustrated on [Figure 4](#). After completion of the injection, the borings will be sealed with neat cement or bentonite/cement mix.

The use of these reagents should not have any adverse effects on the Site. Both reagents are mild and are expected to create conditions that are sufficiently reducing to precipitate the chromium and KMnO_4 without creating the highly reducing conditions that are associated with stronger reagents such as sodium dithionite. Therefore, there should be minimal perturbation to the Site.

6.0 PERFORMANCE EVALUATION

Performance monitoring for injection will consist of two levels of monitoring: field parameters during and immediately after injection; and laboratory analysis of significant parameters after pilot injection has taken place as a measure of the effectiveness of the technology.

The ultimate goal of the injection is to reduce the trivalent and hexavalent chromium concentrations, with no adverse conditions resulting. Performance monitoring will be conducted with the objective of tracking the success of reaching this goal. Triggers such as insufficient reduction in contaminant concentrations or elevated ORP/DO concentrations of groundwater indicating non-reducing conditions will be used to assess the need for reapplications.

Performance monitoring will be conducted before and after injection has taken place to measure of the effectiveness of the technology. Sampling will be conducted one-week and one-month post injection, and then one year after the one-month event. The performance monitoring results will be used to guide adjustments in the application grid and determine the need for reapplications, if any.

Groundwater analytical data will be collected from the monitoring well network for confirmation of application effectiveness and analyzed for:

- total and dissolved chromium;
- total and dissolved speciated (trivalent and hexavalent) chromium;
- residual permanganate; and
- field parameters (temperature, pH, specific conductivity, DO, ORP).

6.1 PERFORMANCE GROUNDWATER MONITORING

The groundwater monitoring program described below will be initiated upon EPD's approval of the CAP. The monitoring program is designed to follow the changes in groundwater quality through time and is expected to be a necessary part of the remedy for the Site. Groundwater sampling will be initiated after one-week of the injection event in the impacted area and a second round monitoring will continue one month post injection. The performance groundwater monitoring will be focused on monitoring wells (MW-6, MW-7D, MW-10, MW-11, MW-13 and MW-17D) which are located in the impacted area. The annual groundwater monitoring for total metals will continue on the

four wells MW-5, MW-6, MW-10 and MW-11 previously sampled. The groundwater monitoring locations for the one-week and one-month events are shown on Figure 5.

Prior to purging, water levels from the monitoring wells at the Site will be measured relative to the top of each well casing using an electric water level tape. Standard low-flow purging and sampling procedures will be followed in accordance with EPA standard protocols. Field parameters (pH, specific conductivity, turbidity, temperature, dissolved oxygen, and oxidation-reduction potential) will be measured using a flow-through cell. Flow rates will be kept within a range of 150 ml/min to 300 ml/min, to minimize drawdown. When the field parameters stabilize, purging will stop and the wells will be sampled. Purge volumes and field parameters for each well will be recorded on Well Purging Field Forms.

Samples will be retrieved and poured directly into clean 500 ml plastic containers preserved with nitric acid (HNO_3). The samples will be placed in a cooler on ice and transported to the analytical laboratory following strict chain-of-custody procedures. The samples will be analyzed for total and dissolved metals by EPA Method 6020A, speciated chromium (total and dissolved trivalent and hexavalent chromium) by EPA Method 7196 and residual permanganate.

6.2 PERFORMANCE MONITORING REPORTING

Within sixty days of the two performance monitoring events, CRA will submit a letter report to EPD summarizing the monitoring results. Regular progress reports will be submitted annually, presenting results of latest groundwater sampling events, including tables, maps, and field quality control procedures. These status reports will include, but not be limited to: indicator parameter results; analytical data and quality assurance data; historical summary of constituents of concern in all monitoring wells; groundwater maps showing groundwater flow direction and COC isopleths; figures; chemical injection volumes and locations; and an assessment of the current system for process optimization and necessary future changes, if any.

Remediation will be considered complete after "clean" has been established for two consecutive performance monitoring events including at least one annual event. After remediation is complete, a CSR documenting that the Site is in compliance with RRS will be submitted.

7.0 PERMIT REQUIREMENTS

Injection wells (including injection borings) are regulated by the Georgia EPD Underground Injection Control (UIC) Program. Under the UIC program, a pilot scale in-situ groundwater remediation program does not require Injection Well Permit. Instead, an injection notification letter will be sent to the UIC before the pilot scale injection is implemented.

8.0 IMPLEMENTATION SCHEDULE

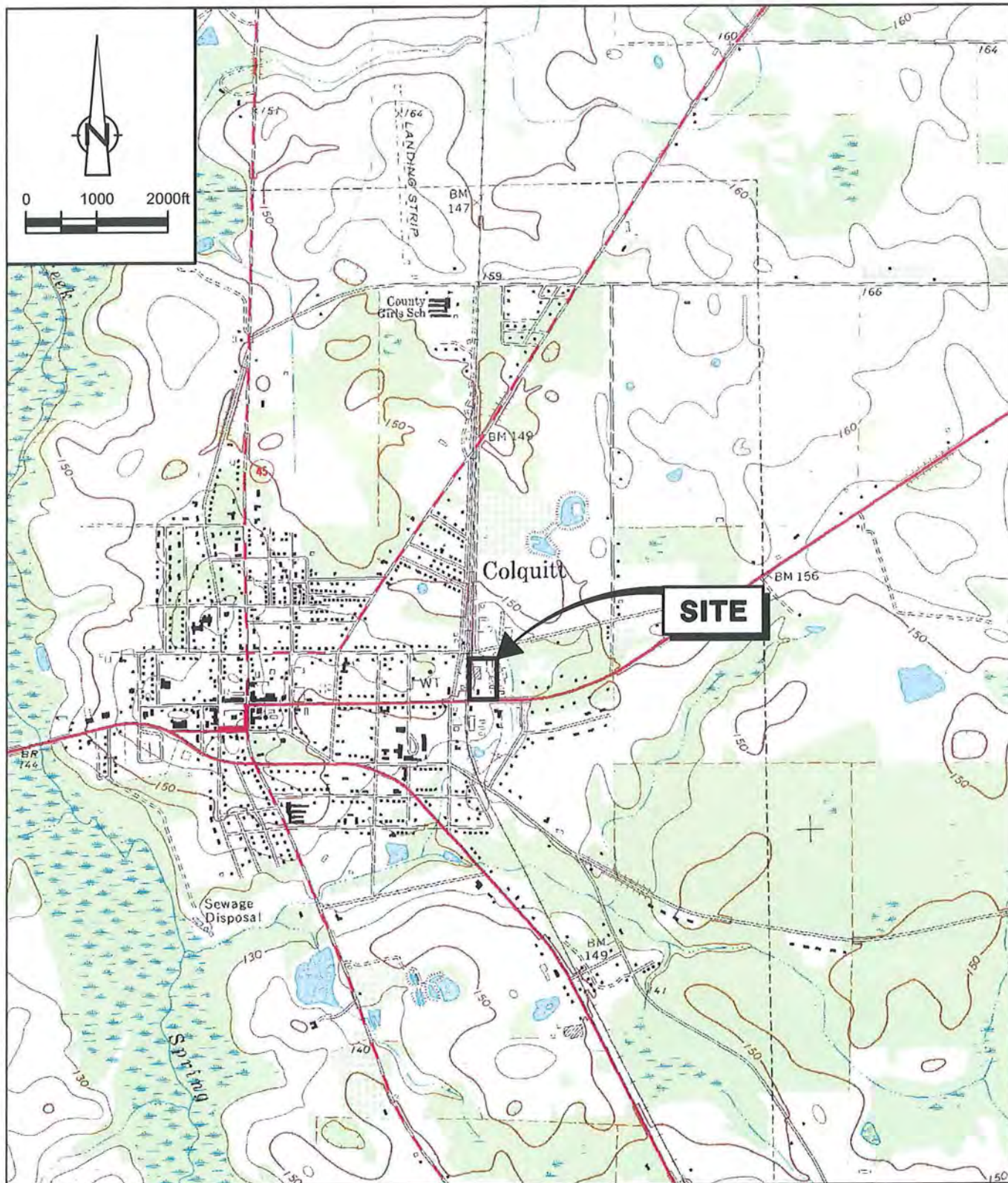
The following schedule for major milestones in the remedial program will be triggered by approval of this revised CAP submittal:

Action	Schedule (days)	Not to extend beyond (days)
EPD receives Revised CAP	start time ₀	
UIC Permit Notification submitted	start time	
Baseline groundwater sampling	45	60
First phase pilot injection	90	104
One-week performance sampling	97	114
One-month performance sampling	120	127
Remedial Progress Evaluation	180	194
1 st Annual performance sampling	360	374
2 nd Annual performance sampling (if required)	725	739
Second phase injection (if needed)	To Be Determined (TBD)	TBD
One-week performance sampling	TBD	TBD
One-month performance sampling	TBD	TBD
Remedial Progress Evaluation	TBD	TBD
Annual performance sampling	TBD	TBD

It is anticipated that the Site will show attainment of the remediation goal for chromium within a few days after the pilot injection. One-week and one-month post injection groundwater sampling will be conducted. After the second sampling event, the Site will go to annual sampling events.

9.0 PUBLIC NOTICE

In accordance with the public participation requirements at Rule 391-3-19-.06(5), a notice of the availability of this revised CAP will be published within 7 days of the CAP's submittal to EPD in the legal advertisements section of the Colquitt Chronicle newspaper. A copy of the language that will be provided to the newspaper is included in [Appendix C](#). An exact copy of the published notice will be submitted to EPD within 15 days of publication. CRA has also prepared separate letters, conveying the same information as the legal advertisement, to the Chairman of the Miller County Board of Commissioners and the Mayor of Colquitt.



SOURCE: USGS QUADRANGLE: COLQUITT, GA (1974)

figure 1

SITE LOCATION MAP
BIRDSONG PEANUT
FARMER'S FEED AND MILLING CO.
Colquitt, Georgia



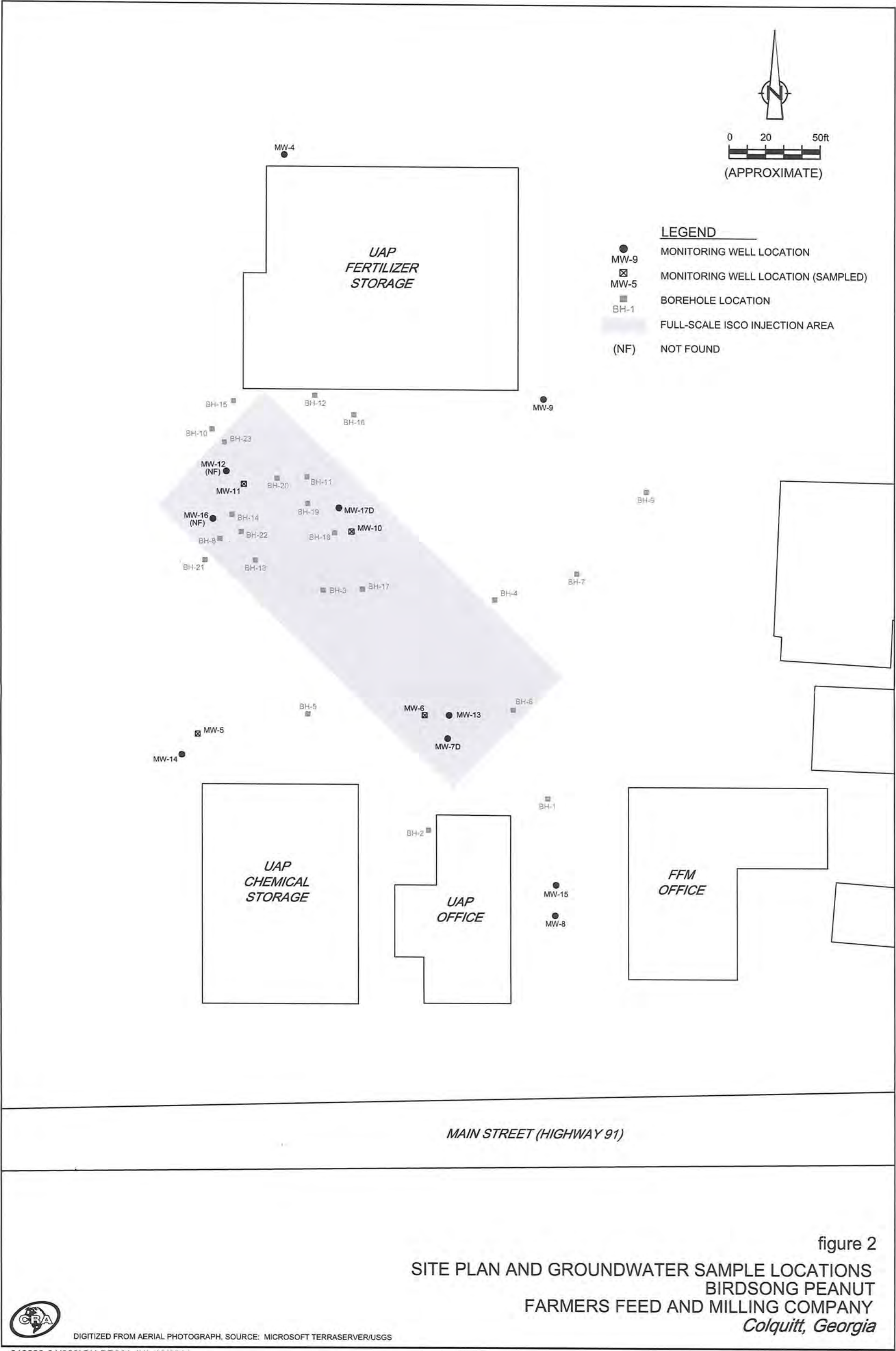
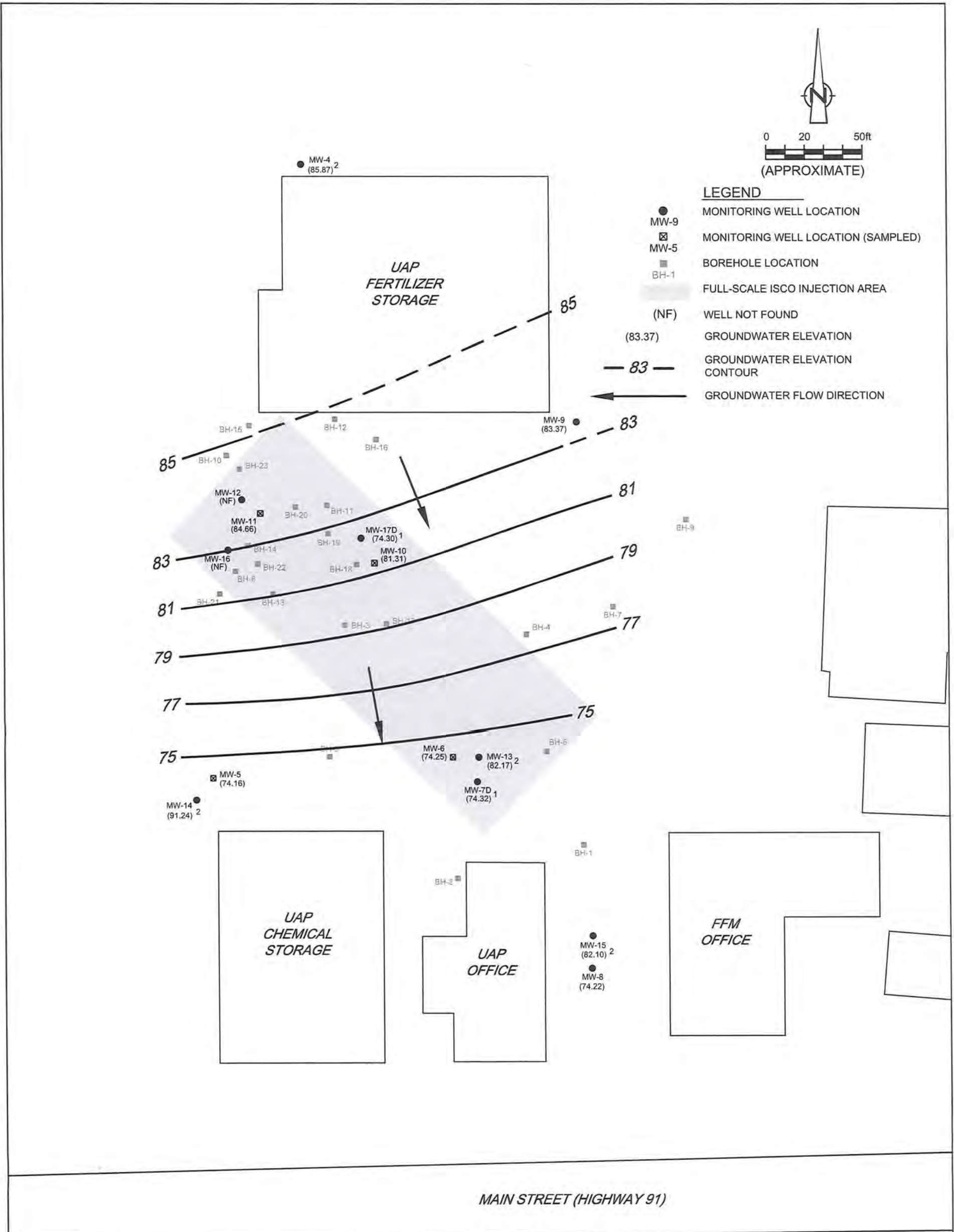


figure 2
SITE PLAN AND GROUNDWATER SAMPLE LOCATIONS
BIRDSONG PEANUT
FARMERS FEED AND MILLING COMPANY
Colquitt, Georgia



DIGITIZED FROM AERIAL PHOTOGRAPH, SOURCE: MICROSOFT TERRASERVER/USGS



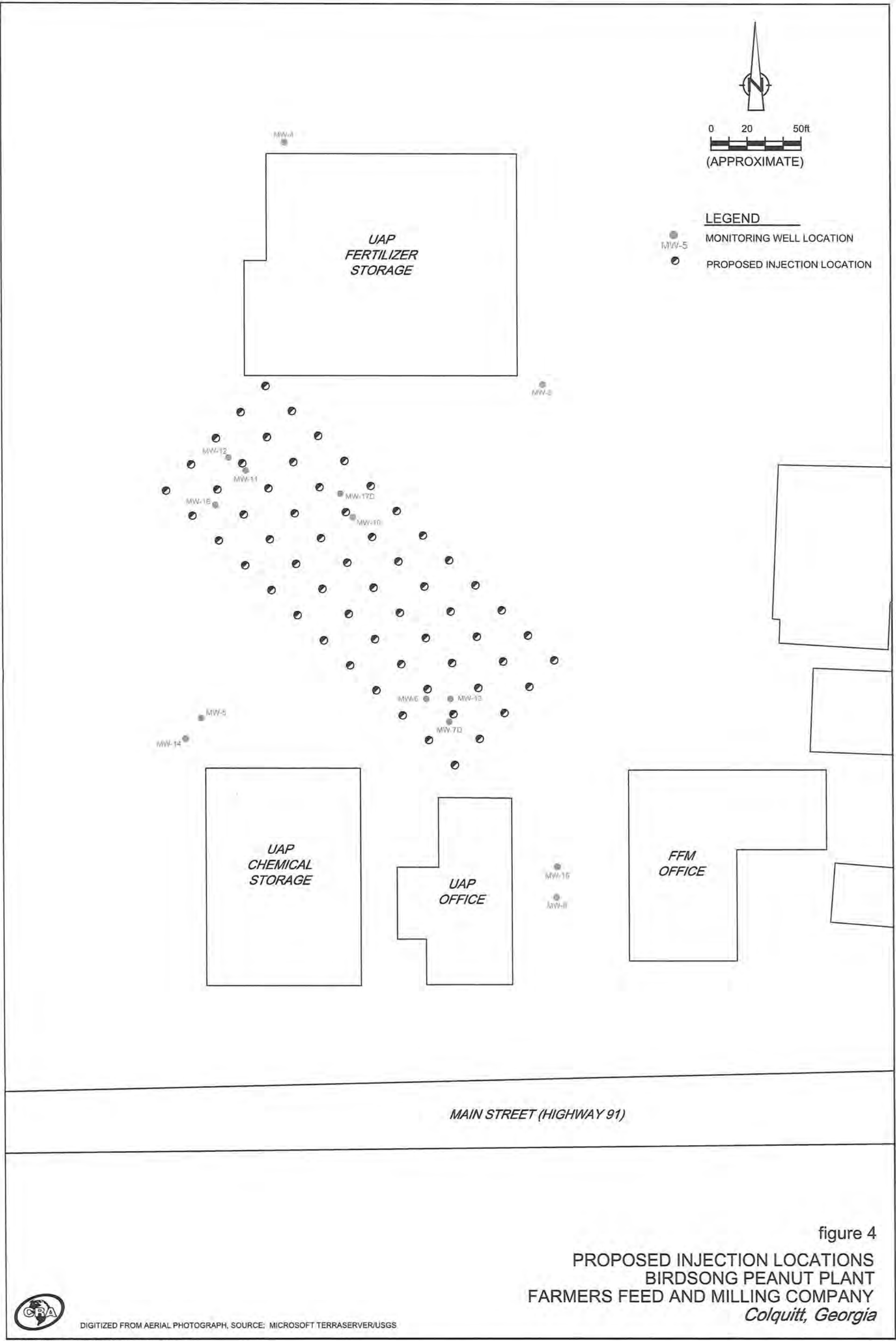
NOTES:

- 1) MONITORING WELLS MW-7D AND MW-17D ARE DEEP WELLS, NOT USED FOR CONTOURING.
- 2) MONITORING WELLS MW-4, 13, 14, & 15 ARE SHALLOW WELLS, INSTALLED IN A SHALLOW WATER-BEARING UNIT. THESE WELLS ARE NOT USED TO GENERATE GROUNDWATER CONTOURS.



DIGITIZED FROM AERIAL PHOTOGRAPH, SOURCE: MICROSOFT TERRASERVER/USGS

figure 3
GROUNDWATER ELEVATION MAP - MARCH 2011
INTERMEDIATE DEPTH MONITORING WELLS
BIRDSONG PEANUT
FARMERS FEED AND MILLING COMPANY
Colquitt, Georgia



DIGITIZED FROM AERIAL PHOTOGRAPH, SOURCE: MICROSOFT TERRASERVER/USGS

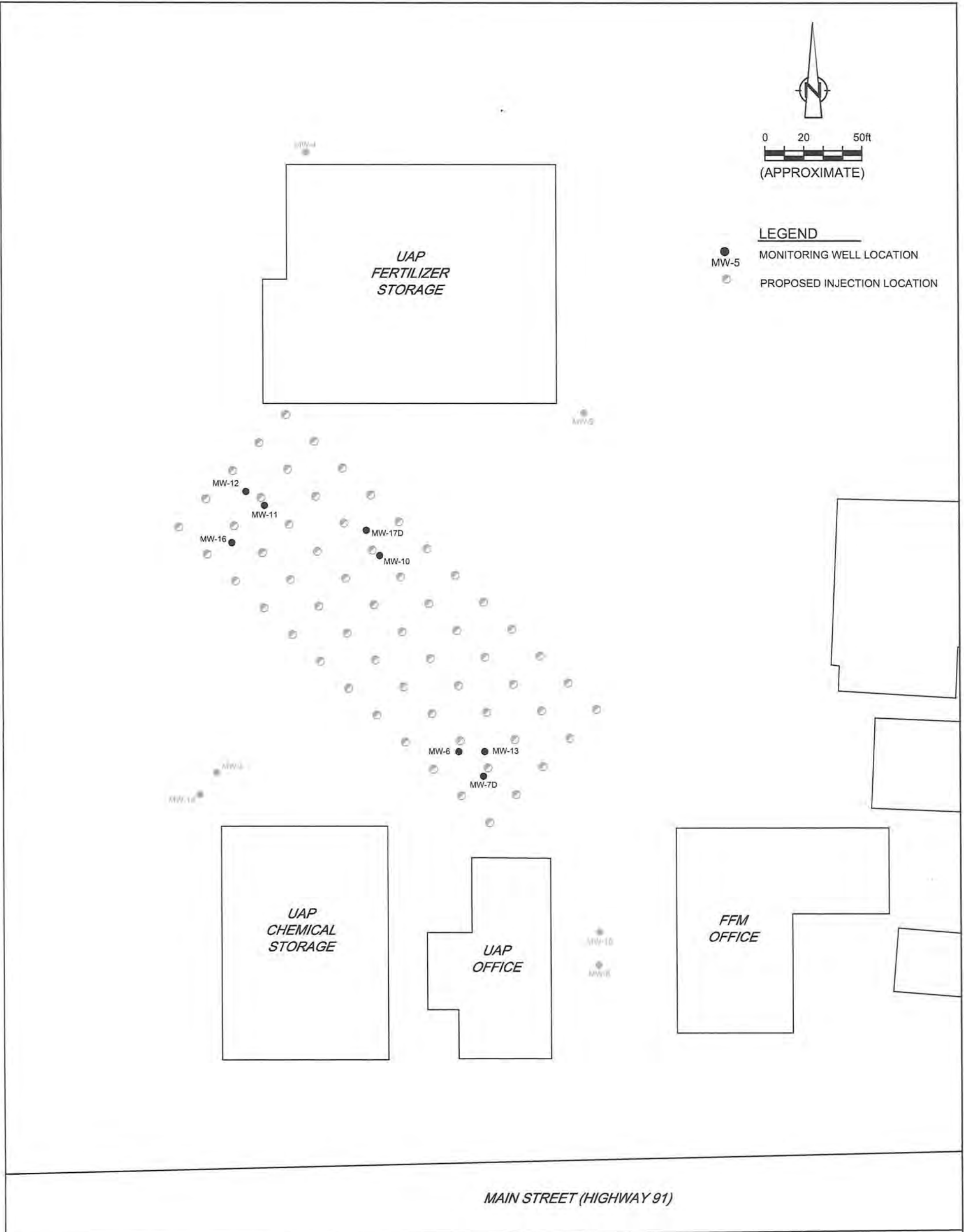


figure 5
PERFORMANCE MONITORING LOCATIONS
BIRDSONG PEANUT PLANT
FARMERS FEED AND MILLING COMPANY
Colquitt, Georgia

TABLE 1

GROUNDWATER ELEVATIONS (MARCH 2011)
ANNUAL GROUNDWATER MONITORING AND SAMPLING
BIRDSONG PEANUT PROPERTY (HSI NO. 10710)
COLQUITT, GEORGIA

Well ID	Date	Top of Casing Elevation (feet AMSL)	Depth to Groundwater (feet below TOC)	Groundwater Elevation (feet AMSL)
MW-4	03/29/2011	92.70	6.83	85.87
MW-5	03/29/2011	95.57	21.41	74.16
MW-6	03/29/2011	94.26	20.01	74.25
MW-7D	03/29/2011	93.75	19.43	74.32
MW-8	03/29/2011	93.57	19.35	74.22
MW-9	03/29/2011	92.85	9.48	83.37
MW-10	03/29/2011	93.41	12.10	81.31
MW-11	03/29/2011	94.44	9.78	84.66
MW-12	03/29/2011	95.46	—	—
MW-13	03/29/2011	93.76	11.59	82.17
MW-14	03/29/2011	96.72	5.48	91.24
MW-15	03/29/2011	93.30	11.23	82.07
MW-16	03/29/2011	96.34	—	—
MW-17D	03/29/2011	93.40	19.10	74.30

Notes:

AMSL- Above Mean Sea Level

TOC- Top of Casing

Monitoring wells MW-12 and MW-16 not found

MW-5 - monitoring wells sample in March 2011

TABLE 2

**SUMMARY OF GROUNDWATER ANALYTICAL RESULTS ANNUAL GROUNDWATER MONITORING AND SAMPLING
BIRDSONG PEANUT PROPERTY (HSI NO. 10710)
COLQUITT, GEORGIA**

		<i>Sample Location:</i>		<i>MW-5</i>	<i>MW-5</i>	<i>MW-5</i>	<i>MW-5</i>	<i>MW-6</i>
		<i>Sample ID:</i>		<i>GW-030509-DJB-005</i>	<i>GW-032410-DJB-001</i>	<i>GW-032911-DJB-001</i>	<i>GW-032911-DJB-002</i>	<i>GW-030509-DJB-001</i>
		<i>Sample Date:</i>		<i>3/5/2009</i>	<i>3/24/2010</i>	<i>3/29/2011</i>	<i>3/29/2011</i>	<i>3/5/2009</i>
							<i>Duplicate</i>	
		<i>Criteria</i>						
<i>Parameters</i>	<i>Units</i>	<i>Type 1 RRS</i>	<i>Type 4 RRS</i>					
		a	b					
Total Metals								
Arsenic	mg/L	0.01	0.01	0.0500 U	0.005 U	0.005 U	0.005 U	0.0500 U
Cadmium	mg/L	0.005	0.0511	0.0050 U	0.000126 J	0.0007 U	0.0007 U	0.0004 J
Chromium	mg/L	0.1	NC	0.0057 J	0.0267	0.005 U	0.005 U	0.298
Copper	mg/L	1.3	4.09	-	0.000288 J	0.002 U	0.002 U	-
Lead	mg/L	0.015	0.015	0.0100 U	0.001 U	0.001 U	0.001 U	0.0100 U
Manganese	mg/L	NC	NC	0.175 J	2.23	0.0502	0.0517	4.05
Potassium	mg/L	NC	NC	6.09	29.6	3.7	3.65	51.4
Selenium	mg/L	0.05	0.511	0.0200 U	0.005 U	0.005 U	0.005 U	0.0140 J
Silver	mg/L	0.1	0.511	0.0004 J	0.001 U	0.001 U	0.001 U	0.0100 U
Dissolved Metals								
Arsenic (dissolved)	mg/L	0.01	0.01	0.0500 U	0.00748 J	0.005 U	0.005 U	0.0500 U
Cadmium (dissolved)	mg/L	0.005	0.0511	0.0050 U	0.0007 U	0.0007 U	0.0007 U	0.0050 U
Chromium Total (dissolved)	mg/L	0.1	NC	0.0056 J	0.0286 J	0.005 U	0.005 U	0.298
Copper (dissolved)	mg/L	1.3	4.09	-	0.02 U	0.002 U	0.002 U	-
Lead (dissolved)	mg/L	0.015	0.015	0.0100 U	0.01 U	0.001 U	0.001 U	0.0100 U
Manganese (dissolved)	mg/L	NC	NC	0.376 J	1.46	0.005 U	0.005 U	3.42
Potassium (dissolved)	mg/L	NC	NC	8.52	27.4	3.72	3.57	60.6
Selenium (dissolved)	mg/L	0.05	0.511	0.0200 U	0.05 U	0.005 U	0.005 U	0.0200 U
Silver (dissolved)	mg/L	0.1	0.511	0.0005 J	0.01 U	0.001 U	0.001 U	0.0007 J
Speciated Chromium								
Chromium III (trivalent)	mg/L	0.01	153	-	0.0100 U	0.0100 U	0.0100 U	-
Chromium III (trivalent) (dissolved)	mg/L	0.01	153	-	0.00740 J	0.0100 U	0.0100 U	-
Chromium VI (hexavalent)	mg/L	0.01	0.01	-	0.0246 ^{ab}	0.0100 U	0.0100 U	-
Chromium VI (hexavalent) (dissolved)	mg/L	0.01	0.01	-	0.0212 ^{ab}	0.0100 U	0.0100 U	-

Notes:

J - Estimated concentration.

NC - No criteria.

U - Not present at or above the associated value.

1. Exceedences of Georgia HSRA Type 1 RRS (a) and Type 4 RRS (b) are shaded, bordered and denoted in red, bold font with the appropriate superscript.

TABLE 2

**SUMMARY OF GROUNDWATER ANALYTICAL RESULTS ANNUAL GROUNDWATER MONITORING AND SAMPLING
BIRDSONG PEANUT PROPERTY (HSI NO. 10710)
COLQUITT, GEORGIA**

				Sample Location:		MW-6	MW-6	MW-6	MW-6	MW-10
				Sample ID:		GW-030509-DJB-002	GW-032410-DJB-004	GW-032410-DJB-005	GW-032911-DJB-005	GW-030509-DJB-003
				Sample Date:		3/5/2009	3/24/2010	3/24/2010	3/29/2011	3/5/2009
						Duplicate		Duplicate		
Parameters	Units	Criteria								
		Type 1 RRS	Type 4 RRS							
a										
b										
Total Metals										
Arsenic	mg/L	0.01	0.01	0.0500 U	0.005 U	0.005 U	0.005 U	0.0500 U		
Cadmium	mg/L	0.005	0.0511	0.0007 J	0.000692 J	0.00126	0.00223	0.0014 J		
Chromium	mg/L	0.1	NC	0.294	0.172	0.172	0.217	0.0760		
Copper	mg/L	1.3	4.09	-	0.000176 J	0.000229 J	0.002 U	-		
Lead	mg/L	0.015	0.015	0.0100 U	0.001 U	0.00018 J	0.001 U	0.0077 J		
Manganese	mg/L	NC	NC	4.07	0.473	0.483	0.0718	1.31		
Potassium	mg/L	NC	NC	53.2	58.1	65.3	70.6	788		
Selenium	mg/L	0.05	0.511	0.0156 J	0.005 U	0.000922 J	0.005 U	0.0586 ^a		
Silver	mg/L	0.1	0.511	0.0009 J	0.000219 J	0.000014 J	0.001 U	0.0100 U		
Dissolved Metals										
Arsenic (dissolved)	mg/L	0.01	0.01	-	0.005 U	0.005 U	0.005 U	0.0500 U		
Cadmium (dissolved)	mg/L	0.005	0.0511	-	0.000444 J	0.000391 J	0.00133	0.0011 J		
Chromium Total (dissolved)	mg/L	0.1	NC	-	0.16	0.165	0.209	0.0805		
Copper (dissolved)	mg/L	1.3	4.09	-	0.002 U	0.002 U	0.00504	-		
Lead (dissolved)	mg/L	0.015	0.015	-	0.001 U	0.001 U	0.001 U	0.0031 J		
Manganese (dissolved)	mg/L	NC	NC	-	0.526	0.522	0.0213	0.880		
Potassium (dissolved)	mg/L	NC	NC	-	56.7	55.7	64.8	712		
Selenium (dissolved)	mg/L	0.05	0.511	-	0.005 U	0.005 U	0.005 U	0.0527 ^a		
Silver (dissolved)	mg/L	0.1	0.511	-	0.001 U	0.001 U	0.001 U	0.0100 U		
Speciated Chromium										
Chromium III (trivalent)	mg/L	0.01	153	-	0.0100 U	0.0100 U	0.0248 ^a	-		
Chromium III (trivalent) (dissolved)	mg/L	0.01	153	-	0.0100 U	0.0100 U	0.0178 ^a	-		
Chromium VI (hexavalent)	mg/L	0.01	0.01	-	0.170 ^{ab}	0.174 ^{ab}	0.192 ^{ab}	-		
Chromium VI (hexavalent) (dissolved)	mg/L	0.01	0.01	-	0.172 ^{ab}	0.178 ^{ab}	0.191 ^{ab}	-		

Notes:

J - Estimated concentration.

NC - No criteria.

U - Not present at or above the associated value.

1. Exceedences of Georgia HSRA Type 1 RRS (a) and Type 4 RRS (b) are shaded, bordered and denoted in red, bold font with the appropriate superscript.

TABLE 2

**SUMMARY OF GROUNDWATER ANALYTICAL RESULTS ANNUAL GROUNDWATER MONITORING AND SAMPLING
BIRDSONG PEANUT PROPERTY (HSI NO. 10710)
COLQUITT, GEORGIA**

				Sample Location: MW-10	MW-10	MW-11	MW-11	MW-11
				Sample ID: GW-032410-DJB-002	GW-032911-DJB-003	GW-030509-DJB-004	GW-032410-DJB-003	GW-032911-DJB-004
				Sample Date: 3/24/2010	3/29/2011	3/5/2009	3/24/2010	3/29/2011
Parameters	Units	Criteria						
		Type 1 RRS	Type 4 RRS					
		a	b					
Total Metals								
Arsenic	mg/L	0.01	0.01	0.005 U	0.005 U	0.0500 U	0.005 U	0.005 U
Cadmium	mg/L	0.005	0.0511	0.00938 ^a	0.00387	0.0050 U	0.00144	0.00366
Chromium	mg/L	0.1	NC	0.0866	0.113	0.279	0.266	0.163
Copper	mg/L	1.3	4.09	0.00572	0.00701	-	0.00908	0.00303
Lead	mg/L	0.015	0.015	0.00125	0.001 U	0.0038 J	0.00144	0.001 U
Manganese	mg/L	NC	NC	4.01	4.78	3.94	2.93	0.564
Potassium	mg/L	NC	NC	737	638	129	140	151
Selenium	mg/L	0.05	0.511	0.0592 ^a	0.0441	0.0151 J	0.00658	0.005 U
Silver	mg/L	0.1	0.511	0.000729 J	0.001 U	0.0100 U	0.000031 J	0.001 U
Dissolved Metals								
Arsenic (dissolved)	mg/L	0.01	0.01	0.00251 J	0.005 U	0.0500 U	0.05 U	0.005 U
Cadmium (dissolved)	mg/L	0.005	0.0511	0.00489 J	0.00361	0.0050 U	0.007 U	0.00148
Chromium Total (dissolved)	mg/L	0.1	NC	0.0923	0.102	0.292	0.217	0.179
Copper (dissolved)	mg/L	1.3	4.09	0.02 U	0.00827	-	0.02 U	0.00697
Lead (dissolved)	mg/L	0.015	0.015	0.01 U	0.001 U	0.0100 U	0.01 U	0.001 U
Manganese (dissolved)	mg/L	NC	NC	1.34	5.19	2.22	0.346	0.591
Potassium (dissolved)	mg/L	NC	NC	702	559	123	127	115
Selenium (dissolved)	mg/L	0.05	0.511	0.0673 ^a	0.0433	0.0200 U	0.05 U	0.005 U
Silver (dissolved)	mg/L	0.1	0.511	0.01 U	0.001 U	0.0100 U	0.01 U	0.001 U
Speciated Chromium								
Chromium III (trivalent)	mg/L	0.01	153	0.0262 ^a	0.0218 ^a	-	0.0100 U	0.0105 ^a
Chromium III (trivalent) (dissolved)	mg/L	0.01	153	0.0205 ^a	0.0145 ^a	-	0.0222 ^a	0.0276 ^a
Chromium VI (hexavalent)	mg/L	0.01	0.01	0.0605 ^{ab}	0.0909 ^{ab}	-	0.265 ^{ab}	0.152 ^{ab}
Chromium VI (hexavalent) (dissolved)	mg/L	0.01	0.01	0.0718 ^{ab}	0.0874 ^{ab}	-	0.195 ^{ab}	0.151 ^{ab}

Notes:

J - Estimated concentration.

NC - No criteria.

U - Not present at or above the associated value.

1. Exceedences of Georgia HSRA Type 1 RRS (a) and Type 4 RRS (b) are shaded, bordered and denoted in red, bold font with the appropriate superscript.

TABLE 3

INJECTION VOLUMES
BIRDSONG PEANUT SITE
COLQUITT, GEORGIA

<i>Reagents</i>	<i>Number of Intervals per Inj Pt.</i>	<i>Amount of Reagent per injection Point (lb)</i>	<i>Amount of Reagent per Interval (lb)</i>	<i>Injected Material</i>	<i>Volume Injected per Interval (gal)</i>	<i>Volume Injected per Point (gal)</i>
sodium thiosulfate	6	42	7	0.24% Na thiosulfate	350	2100
ferrous sulfate	6	42	7	0.24% ferrous sulfate		

Notes:

lb - pounds

gal - gallons

Total depth extends to 40 feet bgs

APPENDIX A

SAMPLE KEY, DATA VALIDATION MEMORANDUM AND ANALYTICAL REPORT



**CONESTOGA-ROVERS
& ASSOCIATES**

2055 Niagara Falls Blvd., Suite #3
Niagara Falls, New York 14304
Telephone: (716) 297-6150 Fax: (716) 297-2265
www.CRAworld.com

MEMORANDUM

TO: Bob Pyle

FROM: Paul McMahon/bjw/4 *PM*

CC: Dave Brytowski

RE: **Data Quality Assessment and Validation**
Birdsong Peanut
Colquitt, Georgia
March 2011

REF. NO.: 018283

DATE: April 21, 2011

E-Mail and Hard Copy if Requested

INTRODUCTION

The following details a quality assessment and validation of the analytical data resulting from the collection of five water samples from the Birdsong Peanut site in Colquitt, Georgia, March 29, 2011. The sample summary detailing sample identification, sample location, and analytical parameters is presented in Table 1. Sample analysis was completed at Analytical Environmental Services, in Atlanta, Georgia, in accordance with the methodologies presented in Table 2. The analytical results summary is presented in Table 3. The quality control (QC) criteria used to assess the data were established by the methods and the document, "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review," United States Environmental Protection Agency (USEPA) 540/R-94-013, February 1994.

A data quality assessment and validation was performed based on the sample results and supporting quality assurance/quality control (QA/QC) provided.

HOLDING TIME PERIOD AND SAMPLE ANALYSIS

The holding time periods are presented in the analytical methods. All samples were prepared and analyzed within the method-required holding times. All samples were properly cooled to 4°C (±2°C) after collection.

METHOD BLANK SAMPLES

Method blanks are prepared and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the preparation and analytical procedures.

For this study, method blanks were analyzed at a minimum frequency of one per analytical batch. The blank results were non-detect for all analytes of interest.

LABORATORY CONTROL SAMPLE (LCS) ANALYSIS

The LCS serves as a measure of overall analytical performance. LCSs are prepared with all analytes of interest and analyzed with each sample batch. The LCS recoveries were within the laboratory specified control limits for all analytes of interest, demonstrating acceptable overall analytical accuracy.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) ANALYSES

MS/MSD samples are prepared and analyzed with the samples for each metal. The recoveries of spike analyses are used to assess the analytical accuracy achieved on individual sample matrices. If the original sample concentration is significantly greater than the spike concentration, the recovery is not assessed. The relative percent difference (RPD) between the MS and MSD is used to assess analytical precision.

MS/MSD analyses were performed by the laboratory as indicated in Table 1. All results were within the laboratory control limits, indicating acceptable analytical accuracy and precision.

FIELD DUPLICATE

As summarized in Table 1, one sample was collected in duplicate and was submitted to the laboratory for analysis. All sample results showed acceptable sampling and analytical precision.

OVERALL ASSESSMENT

The data were found to exhibit acceptable levels of accuracy and precision, based on the provided information, and may be used as reported without qualification.

TABLE 1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
 BIRDSONG PEANUT
 COLQUITT, GEORGIA
 MARCH 2011

Sample ID	Location ID	Collection Date (mm/dd/yy)	Collection Time (hr:min)	Analysis/Parameters		Comments
				Total Metals & Hexavalent Chromium	Dissolved Metals & Hexavalent Chromium	
GW-032911-DJB-001	MW-5	03/29/11	11:15	X	X	MS/MSD
GW-032911-DJB-002	MW-5	03/29/11	11:45	X	X	Duplicate of GW-032911-DJB-001
GW-032911-DJB-003	MW-10	03/29/11	12:30	X	X	
GW-032911-DJB-004	MW-11	03/29/11	14:30	X	X	
GW-032911-DJB-005	MW-6	03/29/11	14:15	X	X	

Notes:

MS Matrix Spike.
 MSD Matrix soike Duplicate.

TABLE 2

SUMMARY OF ANALYTICAL METHODOLOGIES
BIRDSONG PEANUT
COLQUITT, GEORGIA
MARCH 2011

<i>Parameter</i>	<i>Method</i> ¹
Total and Dissolved Metals	SW-846 6020A
Total and Dissolved Hexavalent Chromium	SW-846 7196

Notes:

- ¹ "Test Methods for Solid Waste Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 (with subsequent revisions).

TABLE 3

**ANALYTICAL RESULTS SUMMARY
BIRDSONG PEANUT
COLQUITT, GEORGIA
MARCH 2011**

		Location ID:	MW-5	MW-5	MW-6	MW-10	MW-11
		Sample Name:	GW-032911-DJB-001	GW-032911-DJB-002	GW-032911-DJB-005	GW-032911-DJB-003	GW-032911-DJB-004
		Sample Date:	3/29/2011	3/29/2011 Duplicate	3/29/2011	3/29/2011	3/29/2011
Parameters	Units						
Metals							
Arsenic	mg/L		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Cadmium	mg/L		0.0007 U	0.0007 U	0.00223	0.00387	0.00366
Chromium	mg/L		0.005 U	0.005 U	0.217	0.113	0.163
Chromium III (trivalent)	mg/L		0.0100 U	0.0100 U	0.0248	0.0218	0.0105
Chromium VI (hexavalent)	mg/L		0.0100 U	0.0100 U	0.192	0.0909	0.152
Copper	mg/L		0.002 U	0.002 U	0.002 U	0.00701	0.00303
Lead	mg/L		0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Manganese	mg/L		0.0502	0.0517	0.0718	4.78	0.564
Potassium	mg/L		3.7	3.65	70.6	638	151
Selenium	mg/L		0.005 U	0.005 U	0.005 U	0.0441	0.005 U
Silver	mg/L		0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Metals (Dissolved)							
Arsenic (dissolved)	mg/L		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Cadmium (dissolved)	mg/L		0.0007 U	0.0007 U	0.00133	0.00361	0.00148
Chromium Total (dissolved)	mg/L		0.005 U	0.005 U	0.209	0.102	0.179
Chromium III (trivalent) (dissolved)	mg/L		0.0100 U	0.0100 U	0.0178	0.0145	0.0276
Chromium VI (hexavalent) (dissolved)	mg/L		0.0100 U	0.0100 U	0.191	0.0874	0.151
Copper (dissolved)	mg/L		0.002 U	0.002 U	0.00504	0.00827	0.00697
Lead (dissolved)	mg/L		0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Manganese (dissolved)	mg/L		0.005 U	0.005 U	0.0213	5.19	0.591
Potassium (dissolved)	mg/L		3.72	3.57	64.8	559	115
Selenium (dissolved)	mg/L		0.005 U	0.005 U	0.005 U	0.0433	0.005 U
Silver (dissolved)	mg/L		0.001 U	0.001 U	0.001 U	0.001 U	0.001 U

Note:

U - Non-detect at the associated value.



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

April 13, 2011

Bob Pyle
Conestoga, Rovers, & Associates, Inc.
3075 Breckinridge Blvd., Suite 470
Duluth GA 30096

TEL: (770) 441-0027
FAX: (770) 441-2050

RE: Birdsong Peanut

Dear Bob Pyle:

Order No: 1103022

Analytical Environmental Services, Inc. received 5 samples on 3/30/2011 8:10:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/10-06/30/11.

-AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/11.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager

CHAIN OF CUSTODY RECORD

1103Q22



CONESTOGA-ROVERS & ASSOCIATES
Duluth, GA

SHIPPED TO (Laboratory Name):

AES

REFERENCE NUMBER:

18283

Birdsong Peanut

SAMPLER'S
SIGNATURE:

David Brytowski

PRINTED
NAME:

David Brytowski

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE TYPE	No. of Containers	PARAMETERS	REMARKS
	3/29	11:15	GW-032911-DJB-001	GW	4	X X X X X X	Standard TAT
		11:45	GW-032911-DJB-002		4	X X X X X X	
		12:30	GW-032911-DJB-003		4	X X X X X X	See SSW
		14:30	GW-032911-DJB-004		4	X X X X X X	
	3/29	14:15	GW-032911-DJB-005	GW	4	X X X X X X	SSP Metals =
							Arsenic
							Cadmium
							Chromium
							Copper
							Lead
							Manganese
							Potassium
							Selenium
							Silver

TOTAL NUMBER OF CONTAINERS

HEALTH/CHEMICAL HAZARDS

RELINQUISHED BY:

① *David Brytowski*

DATE: 3/30/11

TIME: 8:10

RECEIVED BY:

①

DATE:

TIME:

RELINQUISHED BY:

②

DATE:

TIME:

RECEIVED BY:

②

DATE:

TIME:

RELINQUISHED BY:

③

DATE:

TIME:

RECEIVED BY:

③

DATE:

TIME:

METHOD OF SHIPMENT:

WAY BILL No.

White
Yellow
Pink
Goldenrod

—Fully Executed Copy
—Receiving Laboratory Copy
—Shipper Copy
—Sampler Copy

SAMPLE TEAM:

RECEIVED FOR LABORATORY BY:

David Brytowski

Nº CRA 24212

DATE: 3/30/11 TIME: 8:10

Analytical Environmental Services, Inc

Date: 13-Apr-11

Client: Conestoga, Rovers, & Associates, Inc.
 Project Name: Birdsong Peanut
 Lab ID: 1103Q22-001

Client Sample ID: GW-032911-DJB-001
 Collection Date: 3/29/2011 11:15:00 AM
 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A					(SW3005A)			
Arsenic	BRL	5.00		ug/L	144406	1	04/04/2011 19:29	JY
Cadmium	BRL	0.700		ug/L	144406	1	04/04/2011 19:29	JY
Chromium	BRL	5.00		ug/L	144406	1	04/04/2011 19:29	JY
Copper	BRL	2.00		ug/L	144406	1	04/04/2011 19:29	JY
Lead	BRL	1.00		ug/L	144406	1	04/04/2011 19:29	JY
Manganese	50.2	5.00		ug/L	144406	1	04/05/2011 10:41	JY
Potassium	3700	100		ug/L	144406	1	04/05/2011 10:41	JY
Selenium	BRL	5.00		ug/L	144406	1	04/04/2011 19:29	JY
Silver	BRL	1.00		ug/L	144406	1	04/04/2011 19:29	JY
Hexavalent Chromium, Dissolved SW7196								
Chromium as Cr+3	BRL	0.0100		mg/L	R194010	1	03/30/2011 10:10	CG
Chromium, Hexavalent	BRL	0.0100		mg/L	R194010	1	03/30/2011 10:10	CG
Hexavalent Chromium in Water SW7196								
Chromium as Cr+3	BRL	0.0100		mg/L	R194005	1	03/30/2011 10:10	CG
Chromium, Hexavalent	BRL	0.0100		mg/L	R194005	1	03/30/2011 10:10	CG
Dissolved Metals by ICP/MS SW6020A					(SAMP FILT)			
Arsenic	BRL	5.00		ug/L	144294	1	03/31/2011 17:54	JY
Cadmium	BRL	0.700		ug/L	144294	1	03/31/2011 17:54	JY
Chromium	BRL	5.00		ug/L	144294	1	03/31/2011 17:54	JY
Copper	BRL	2.00		ug/L	144294	1	03/31/2011 17:54	JY
Lead	BRL	1.00		ug/L	144294	1	03/31/2011 17:54	JY
Manganese	BRL	5.00		ug/L	144294	1	03/31/2011 17:54	JY
Potassium	3720	100		ug/L	144294	1	04/01/2011 15:07	JY
Selenium	BRL	5.00		ug/L	144294	1	03/31/2011 17:54	JY
Silver	BRL	1.00		ug/L	144294	1	03/31/2011 17:54	JY

Qualifiers:

* Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 13-Apr-11

Client: Conestoga, Rovers, & Associates, Inc.
Project Name: Birdsong Peanut
Lab ID: 1103Q22-002

Client Sample ID: GW-032911-DJB-002
Collection Date: 3/29/2011 11:45:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A				(SW3005A)				
Arsenic	BRL	5.00		ug/L	144406	1	04/04/2011 20:19	JY
Cadmium	BRL	0.700		ug/L	144406	1	04/04/2011 20:19	JY
Chromium	BRL	5.00		ug/L	144406	1	04/04/2011 20:19	JY
Copper	BRL	2.00		ug/L	144406	1	04/04/2011 20:19	JY
Lead	BRL	1.00		ug/L	144406	1	04/04/2011 20:19	JY
Manganese	51.7	5.00		ug/L	144406	1	04/05/2011 10:47	JY
Potassium	3650	100		ug/L	144406	1	04/05/2011 10:47	JY
Selenium	BRL	5.00		ug/L	144406	1	04/04/2011 20:19	JY
Silver	BRL	1.00		ug/L	144406	1	04/04/2011 20:19	JY
Hexavalent Chromium, Dissolved SW7196								
Chromium as Cr+3	BRL	0.0100		mg/L	R194010	1	03/30/2011 10:10	CG
Chromium, Hexavalent	BRL	0.0100		mg/L	R194010	1	03/30/2011 10:10	CG
Hexavalent Chromium in Water SW7196								
Chromium as Cr+3	BRL	0.0100		mg/L	R194005	1	03/30/2011 10:10	CG
Chromium, Hexavalent	BRL	0.0100		mg/L	R194005	1	03/30/2011 10:10	CG
Dissolved Metals by ICP/MS SW6020A				(SAMP FILT)				
Arsenic	BRL	5.00		ug/L	144294	1	03/31/2011 18:44	JY
Cadmium	BRL	0.700		ug/L	144294	1	03/31/2011 18:44	JY
Chromium	BRL	5.00		ug/L	144294	1	03/31/2011 18:44	JY
Copper	BRL	2.00		ug/L	144294	1	03/31/2011 18:44	JY
Lead	BRL	1.00		ug/L	144294	1	03/31/2011 18:44	JY
Manganese	BRL	5.00		ug/L	144294	1	03/31/2011 18:44	JY
Potassium	3570	100		ug/L	144294	1	04/01/2011 15:13	JY
Selenium	BRL	5.00		ug/L	144294	1	03/31/2011 18:44	JY
Silver	BRL	1.00		ug/L	144294	1	03/31/2011 18:44	JY

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 13-Apr-11

Client: Conestoga, Rovers, & Associates, Inc.
Project Name: Birdsong Peanut
Lab ID: 1103Q22-003

Client Sample ID: GW-032911-DJB-003
Collection Date: 3/29/2011 12:30:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A				(SW3005A)				
Arsenic	BRL	5.00		ug/L	144406	1	04/04/2011 20:25	JY
Cadmium	3.87	0.700		ug/L	144406	1	04/05/2011 10:54	JY
Chromium	113	5.00		ug/L	144406	1	04/05/2011 10:54	JY
Copper	7.01	2.00		ug/L	144406	1	04/05/2011 10:54	JY
Lead	BRL	1.00		ug/L	144406	1	04/04/2011 20:25	JY
Manganese	4780	5.00		ug/L	144406	1	04/05/2011 10:54	JY
Potassium	638000	1000		ug/L	144406	10	04/05/2011 11:00	JY
Selenium	44.1	5.00		ug/L	144406	1	04/05/2011 10:54	JY
Silver	BRL	1.00		ug/L	144406	1	04/04/2011 20:25	JY
Hexavalent Chromium, Dissolved SW7196								
Chromium as Cr+3	0.0145	0.0100		mg/L	R194010	1	03/30/2011 10:10	CG
Chromium, Hexavalent	0.0874	0.0100		mg/L	R194010	1	03/30/2011 10:10	CG
Hexavalent Chromium in Water SW7196								
Chromium as Cr+3	0.0218	0.0100		mg/L	R194005	1	03/30/2011 10:10	CG
Chromium, Hexavalent	0.0909	0.0100		mg/L	R194005	1	03/30/2011 10:10	CG
Dissolved Metals by ICP/MS SW6020A				(SAMP FILT)				
Arsenic	BRL	5.00		ug/L	144294	1	03/31/2011 18:50	JY
Cadmium	3.61	0.700		ug/L	144294	1	04/01/2011 15:19	JY
Chromium	102	5.00		ug/L	144294	1	03/31/2011 18:50	JY
Copper	8.27	2.00		ug/L	144294	1	03/31/2011 18:50	JY
Lead	BRL	1.00		ug/L	144294	1	03/31/2011 18:50	JY
Manganese	5190	5.00		ug/L	144294	1	04/01/2011 15:19	JY
Potassium	559000	1000		ug/L	144294	10	04/01/2011 15:25	JY
Selenium	43.3	5.00		ug/L	144294	1	04/01/2011 15:19	JY
Silver	BRL	1.00		ug/L	144294	1	03/31/2011 18:50	JY

Qualifiers:

- + Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- I Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 13-Apr-11

Client: Conestoga, Rovers, & Associates, Inc.
Project Name: Birdsong Peanut
Lab ID: 1103Q22-004

Client Sample ID: GW-032911-DJB-004
Collection Date: 3/29/2011 2:30:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A					(SW3005A)			
Arsenic	BRL	5.00		ug/L	144406	1	04/04/2011 20:37	JY
Cadmium	3.66	0.700		ug/L	144406	1	04/05/2011 11:06	JY
Chromium	163	5.00		ug/L	144406	1	04/05/2011 11:06	JY
Copper	3.03	2.00		ug/L	144406	1	04/05/2011 11:06	JY
Lead	BRL	1.00		ug/L	144406	1	04/04/2011 20:37	JY
Manganese	564	5.00		ug/L	144406	1	04/05/2011 11:06	JY
Potassium	151000	1000		ug/L	144406	10	04/05/2011 11:12	JY
Selenium	BRL	5.00		ug/L	144406	1	04/04/2011 20:37	JY
Silver	BRL	1.00		ug/L	144406	1	04/04/2011 20:37	JY
Hexavalent Chromium, Dissolved SW7196								
Chromium as Cr+3	0.0276	0.0100		mg/L	R194010	1	03/30/2011 10:10	CG
Chromium, Hexavalent	0.151	0.0100		mg/L	R194010	1	03/30/2011 10:10	CG
Hexavalent Chromium in Water SW7196								
Chromium as Cr+3	0.0105	0.0100		mg/L	R194005	1	03/30/2011 10:10	CG
Chromium, Hexavalent	0.152	0.0100		mg/L	R194005	1	03/30/2011 10:10	CG
Dissolved Metals by ICP/MS SW6020A					(SAMP FILT)			
Arsenic	BRL	5.00		ug/L	144294	1	03/31/2011 18:56	JY
Cadmium	1.48	0.700		ug/L	144294	1	04/01/2011 15:31	JY
Chromium	179	5.00		ug/L	144294	1	03/31/2011 18:56	JY
Copper	6.97	2.00		ug/L	144294	1	03/31/2011 18:56	JY
Lead	BRL	1.00		ug/L	144294	1	03/31/2011 18:56	JY
Manganese	591	5.00		ug/L	144294	1	04/01/2011 15:31	JY
Potassium	115000	1000		ug/L	144294	10	04/01/2011 15:38	JY
Selenium	BRL	5.00		ug/L	144294	1	04/01/2011 15:31	JY
Silver	BRL	1.00		ug/L	144294	1	03/31/2011 18:56	JY

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 13-Apr-11

Client: Conestoga, Rovers, & Associates, Inc.
Project Name: Birdsong Peanut
Lab ID: 1103Q22-005

Client Sample ID: GW-032911-DJB-005
Collection Date: 3/29/2011 2:15:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A					(SW3005A)			
Arsenic	BRL	5.00		ug/L	144406	1	04/04/2011 20:50	JY
Cadmium	2.23	0.700		ug/L	144406	1	04/05/2011 11:18	JY
Chromium	217	5.00		ug/L	144406	1	04/05/2011 11:18	JY
Copper	BRL	2.00		ug/L	144406	1	04/04/2011 20:50	JY
Lead	BRL	1.00		ug/L	144406	1	04/04/2011 20:50	JY
Manganese	71.8	5.00		ug/L	144406	1	04/05/2011 11:18	JY
Potassium	70600	100		ug/L	144406	1	04/05/2011 11:18	JY
Selenium	BRL	5.00		ug/L	144406	1	04/04/2011 20:50	JY
Silver	BRL	1.00		ug/L	144406	1	04/04/2011 20:50	JY
Hexavalent Chromium, Dissolved SW7196								
Chromium as Cr+3	0.0178	0.0100		mg/L	R194010	1	03/30/2011 10:10	CG
Chromium, Hexavalent	0.191	0.0100		mg/L	R194010	1	03/30/2011 10:10	CG
Hexavalent Chromium in Water SW7196								
Chromium as Cr+3	0.0248	0.0100		mg/L	R194005	1	03/30/2011 10:10	CG
Chromium, Hexavalent	0.192	0.0100		mg/L	R194005	1	03/30/2011 10:10	CG
Dissolved Metals by ICP/MS SW6020A					(SAMP FILT)			
Arsenic	BRL	5.00		ug/L	144294	1	03/31/2011 19:02	JY
Cadmium	1.33	0.700		ug/L	144294	1	04/01/2011 15:44	JY
Chromium	209	5.00		ug/L	144294	1	03/31/2011 19:02	JY
Copper	5.04	2.00		ug/L	144294	1	03/31/2011 19:02	JY
Lead	BRL	1.00		ug/L	144294	1	03/31/2011 19:02	JY
Manganese	21.3	5.00		ug/L	144294	1	04/01/2011 15:44	JY
Potassium	64800	100		ug/L	144294	1	04/01/2011 15:44	JY
Selenium	BRL	5.00		ug/L	144294	1	03/31/2011 19:02	JY
Silver	BRL	1.00		ug/L	144294	1	03/31/2011 19:02	JY

Qualifiers: + Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Conestoga Work Order Number 1103Q22
 Checklist completed by PM Date 3/30/11
 Signature Date

Carrier name: FedEx ☐ UPS ☐ Courier ☐ Client ☒ US Mail ☐ Other ☐

Shipping container/cooler in good condition? Yes ☒ No ☐ Not Present ☐

Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☒

Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒

Container/Temp Blank temperature in compliance? (4°C±2)* Yes ☒ No ☐

Cooler #1 3.4°C Cooler #2 ☐ Cooler #3 ☐ Cooler #4 ☐ Cooler #5 ☐ Cooler #6 ☐

Chain of custody present? Yes ☒ No ☐

Chain of custody signed when relinquished and received? Yes ☒ No ☐

Chain of custody agrees with sample labels? Yes ☒ No ☐

Samples in proper container/bottle? Yes ☒ No ☐

Sample containers intact? Yes ☒ No ☐

Sufficient sample volume for indicated test? Yes ☒ No ☐

All samples received within holding time? Yes ☒ No ☐

Was TAT marked on the COC? Yes ☒ No ☐

Proceed with Standard TAT as per project history? Yes ☐ No ☐ Not Applicable ☒

Water - VOA vials have zero headspace? No VOA vials submitted ☒ Yes ☐ No ☐

Water - pH acceptable upon receipt? Yes ☒ No ☐ Not Applicable ☐

Adjusted? ☐ Checked by PT

Sample Condition: Good ☒ Other(Explain) ☐

(For diffusive samples or AIHA lead) Is a known blank included? Yes ☐ No ☒

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: Conestoga, Rovers, & Associates, Inc.
 Project: Birdsong Peanut
 Lab Order: 1103Q22

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1103Q22-001A	GW-032911-DJB-001	3/29/2011 11:15:00AM	Groundwater	Total Metals by ICP/MS		04/04/2011	04/04/2011
1103Q22-001A	GW-032911-DJB-001	3/29/2011 11:15:00AM	Groundwater	Total Metals by ICP/MS		04/04/2011	04/05/2011
1103Q22-001B	GW-032911-DJB-001	3/29/2011 11:15:00AM	Groundwater	Dissolved Metals by ICP/MS		03/31/2011	03/31/2011
1103Q22-001B	GW-032911-DJB-001	3/29/2011 11:15:00AM	Groundwater	Dissolved Metals by ICP/MS		03/31/2011	04/01/2011
1103Q22-001C	GW-032911-DJB-001	3/29/2011 11:15:00AM	Groundwater	Hexavalent Chromium			03/30/2011
1103Q22-001D	GW-032911-DJB-001	3/29/2011 11:15:00AM	Groundwater	Hexavalent Chromium, Dissolved			03/30/2011
1103Q22-002A	GW-032911-DJB-002	3/29/2011 11:45:00AM	Groundwater	Total Metals by ICP/MS		04/04/2011	04/04/2011
1103Q22-002A	GW-032911-DJB-002	3/29/2011 11:45:00AM	Groundwater	Total Metals by ICP/MS		04/04/2011	04/05/2011
1103Q22-002B	GW-032911-DJB-002	3/29/2011 11:45:00AM	Groundwater	Dissolved Metals by ICP/MS		03/31/2011	03/31/2011
1103Q22-002B	GW-032911-DJB-002	3/29/2011 11:45:00AM	Groundwater	Dissolved Metals by ICP/MS		03/31/2011	04/01/2011
1103Q22-002C	GW-032911-DJB-002	3/29/2011 11:45:00AM	Groundwater	Hexavalent Chromium			03/30/2011
1103Q22-002D	GW-032911-DJB-002	3/29/2011 11:45:00AM	Groundwater	Hexavalent Chromium, Dissolved			03/30/2011
1103Q22-003A	GW-032911-DJB-003	3/29/2011 12:30:00PM	Groundwater	Total Metals by ICP/MS		04/04/2011	04/04/2011
1103Q22-003A	GW-032911-DJB-003	3/29/2011 12:30:00PM	Groundwater	Total Metals by ICP/MS		04/04/2011	04/05/2011
1103Q22-003B	GW-032911-DJB-003	3/29/2011 12:30:00PM	Groundwater	Dissolved Metals by ICP/MS		03/31/2011	03/31/2011
1103Q22-003B	GW-032911-DJB-003	3/29/2011 12:30:00PM	Groundwater	Dissolved Metals by ICP/MS		03/31/2011	04/01/2011
1103Q22-003C	GW-032911-DJB-003	3/29/2011 12:30:00PM	Groundwater	Hexavalent Chromium			03/30/2011
1103Q22-003D	GW-032911-DJB-003	3/29/2011 12:30:00PM	Groundwater	Hexavalent Chromium, Dissolved			03/30/2011
1103Q22-004A	GW-032911-DJB-004	3/29/2011 2:30:00PM	Groundwater	Total Metals by ICP/MS		04/04/2011	04/04/2011
1103Q22-004A	GW-032911-DJB-004	3/29/2011 2:30:00PM	Groundwater	Total Metals by ICP/MS		04/04/2011	04/05/2011
1103Q22-004B	GW-032911-DJB-004	3/29/2011 2:30:00PM	Groundwater	Dissolved Metals by ICP/MS		03/31/2011	03/31/2011
1103Q22-004B	GW-032911-DJB-004	3/29/2011 2:30:00PM	Groundwater	Dissolved Metals by ICP/MS		03/31/2011	04/01/2011
1103Q22-004C	GW-032911-DJB-004	3/29/2011 2:30:00PM	Groundwater	Hexavalent Chromium			03/30/2011
1103Q22-004D	GW-032911-DJB-004	3/29/2011 2:30:00PM	Groundwater	Hexavalent Chromium, Dissolved			03/30/2011
1103Q22-005A	GW-032911-DJB-005	3/29/2011 2:15:00PM	Groundwater	Total Metals by ICP/MS		04/04/2011	04/04/2011
1103Q22-005A	GW-032911-DJB-005	3/29/2011 2:15:00PM	Groundwater	Total Metals by ICP/MS		04/04/2011	04/05/2011
1103Q22-005B	GW-032911-DJB-005	3/29/2011 2:15:00PM	Groundwater	Dissolved Metals by ICP/MS		03/31/2011	03/31/2011
1103Q22-005B	GW-032911-DJB-005	3/29/2011 2:15:00PM	Groundwater	Dissolved Metals by ICP/MS		03/31/2011	04/01/2011
1103Q22-005C	GW-032911-DJB-005	3/29/2011 2:15:00PM	Groundwater	Hexavalent Chromium			03/30/2011

Client: Conestoga, Rovers, & Associates, Inc.
Project: Birdsong Peanut
Lab Order: 1103Q22

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1103Q22-005D	GW-032911-DJB-005	3/29/2011 2:15:00PM	Groundwater	Hexavalent Chromium, Dissolved			03/30/2011

Client: Conestoga, Rovers, & Associates, Inc.
 Project Name: Birdsong Peanut
 Workorder: 1103Q22

ANALYTICAL QC SUMMARY REPORT

BatchID: 144294

Sample ID: MB-144294	Client ID:				Units: ug/L	Prep Date: 03/31/2011	Run No: 193856				
SampleType: MBLK	TestCode: Dissolved Metals by ICP/MS SW6020A				BatchID: 144294	Analysis Date: 03/31/2011	Seq No: 4044544				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	BRL	5.00	0	0	0	0	0	0	0	0	
Cadmium	BRL	0.700	0	0	0	0	0	0	0	0	
Chromium	BRL	5.00	0	0	0	0	0	0	0	0	
Copper	BRL	2.00	0	0	0	0	0	0	0	0	
Lead	BRL	1.00	0	0	0	0	0	0	0	0	
Manganese	BRL	5.00	0	0	0	0	0	0	0	0	
Potassium	BRL	100	0	0	0	0	0	0	0	0	
Selenium	BRL	5.00	0	0	0	0	0	0	0	0	
Silver	BRL	1.00	0	0	0	0	0	0	0	0	

Sample ID: LCS-144294	Client ID:	Units: ug/L				Prep Date: 03/31/2011	Run No: 193856				
SampleType: LCS	TestCode: Dissolved Metals by ICP/MS SW6020A	BatchID: 144294				Analysis Date: 03/31/2011	Seq No: 4044540				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	102.0	5.00	100	0	102	80	120	0	0	0	
Cadmium	102.5	0.700	100	0	102	80	120	0	0	0	
Chromium	104.8	5.00	100	0.2080	105	80	120	0	0	0	
Copper	101.5	2.00	100	0	102	80	120	0	0	0	
Lead	101.7	1.00	100	0	102	80	120	0	0	0	
Manganese	103.9	5.00	100	0	104	80	120	0	0	0	
Potassium	1063	100	1000	0	106	80	120	0	0	0	
Selenium	101.6	5.00	100	2.210	99.4	80	120	0	0	0	
Silver	10.20	1.00	10	0	102	80	120	0	0	0	

Sample ID: 1103Q22-001BMS	Client ID: GW-032911-DJB-001	Units: ug/L	Prep Date: 03/31/2011	Run No: 193856							
SampleType: MS	TestCode: Dissolved Metals by ICP/MS SW6020A	BatchID: 144294	Analysis Date: 03/31/2011	Seq No: 4044549							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Qualifiers: > Greater than Result value
 BRL Below reporting limit
 J Estimated value detected below Reporting Limit
 Rpt Lim Reporting Limit

< Less than Result value
 E Estimated (value above quantitation range)
 N Analyte not NELAC certified
 S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank
 H Holding times for preparation or analysis exceeded
 R RPD outside limits due to matrix

Client: Conestoga, Rovers, & Associates, Inc.
 Project Name: Birdsong Peanut
 Workorder: 1103Q22

ANALYTICAL QC SUMMARY REPORT

BatchID: 144294

Sample ID: 1103Q22-001BMS	Client ID: GW-032911-DJB-001	Units: ug/L			Prep Date: 03/31/2011	Run No: 193856					
SampleType: MS	TestCode: Dissolved Metals by ICP/MS SW6020A	BatchID: 144294			Analysis Date: 03/31/2011	Seq No: 4044549					
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	107.6	5.00	100	0	108	75	125	0	0	0	
Cadmium	106.9	0.700	100	0.04000	107	75	125	0	0	0	
Chromium	110.5	5.00	100	4.008	106	75	125	0	0	0	
Copper	103.8	2.00	100	0	104	75	125	0	0	0	
Lead	106.1	1.00	100	0	106	75	125	0	0	0	
Manganese	107.9	5.00	100	2.174	106	75	125	0	0	0	
Potassium	4955	100	1000	3975	98	75	125	0	0	0	
Selenium	107.9	5.00	100	0	108	75	125	0	0	0	
Silver	9.110	1.00	10	0	91.1	75	125	0	0	0	

Sample ID: 1103Q22-001BMSD	Client ID: GW-032911-DJB-001	Units: ug/L				Prep Date: 03/31/2011	Run No: 193856				
SampleType: MSD	TestCode: Dissolved Metals by ICP/MS SW6020A	BatchID: 144294				Analysis Date: 03/31/2011	Seq No: 4044554				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	109.2	5.00	100	0	109	75	125	107.6	1.48	20	
Cadmium	108.4	0.700	100	0.04000	108	75	125	106.9	1.39	20	
Chromium	112.4	5.00	100	4.008	108	75	125	110.5	1.7	20	
Copper	105.5	2.00	100	0	106	75	125	103.8	1.62	20	
Lead	107.5	1.00	100	0	108	75	125	106.1	1.31	20	
Manganese	111.2	5.00	100	2.174	109	75	125	107.9	3.01	20	
Potassium	4927	100	1000	3975	95.2	75	125	4955	0.567	20	
Selenium	112.3	5.00	100	0	112	75	125	107.9	4	20	
Silver	8.817	1.00	10	0	88.2	75	125	9.110	3.27	20	

Qualifiers: > Greater than Result value
 BRL Below reporting limit
 J Estimated value detected below Reporting Limit
 Rpt Lim Reporting Limit

< Less than Result value
 E Estimated (value above quantitation range)
 N Analyte not NELAC certified
 S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank
 H Holding times for preparation or analysis exceeded
 R RPD outside limits due to matrix

Client: Conestoga, Rovers, & Associates, Inc.
 Project Name: Birdsong Peanut
 Workorder: 1103Q22

ANALYTICAL QC SUMMARY REPORT

BatchID: 144406

Sample ID: MB-144406	Client ID:				Units: ug/L	Prep Date: 04/04/2011	Run No: 194057				
SampleType: MBLK	TestCode: Total Metals by ICP/MS SW6020A				BatchID: 144406	Analysis Date: 04/04/2011	Seq No: 4049013				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	BRL	5.00	0	0	0	0	0	0	0	0	
Cadmium	BRL	0.700	0	0	0	0	0	0	0	0	
Chromium	BRL	5.00	0	0	0	0	0	0	0	0	
Copper	BRL	2.00	0	0	0	0	0	0	0	0	
Lead	BRL	1.00	0	0	0	0	0	0	0	0	
Manganese	BRL	5.00	0	0	0	0	0	0	0	0	
Potassium	BRL	100	0	0	0	0	0	0	0	0	
Selenium	BRL	5.00	0	0	0	0	0	0	0	0	
Silver	BRL	1.00	0	0	0	0	0	0	0	0	

Sample ID: LCS-144406	Client ID:				Units: ug/L	Prep Date: 04/04/2011	Run No: 194057				
SampleType: LCS	TestCode: Total Metals by ICP/MS SW6020A				BatchID: 144406	Analysis Date: 04/04/2011	Seq No: 4049011				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	108.8	5.00	100	0	109	80	120	0	0	0	
Cadmium	108.8	0.700	100	0	109	80	120	0	0	0	
Chromium	110.0	5.00	100	0	110	80	120	0	0	0	
Copper	110.4	2.00	100	0	110	80	120	0	0	0	
Lead	109.0	1.00	100	0	109	80	120	0	0	0	
Manganese	109.8	5.00	100	0	110	80	120	0	0	0	
Potassium	1110	100	1000	0	111	80	120	0	0	0	
Selenium	106.9	5.00	100	0	107	80	120	0	0	0	
Silver	10.79	1.00	10	0	108	80	120	0	0	0	

Sample ID: 1103Q22-001AMS	Client ID: GW-032911-DJB-001	Units: ug/L	Prep Date: 04/04/2011	Run No: 194057							
SampleType: MS	TestCode: Total Metals by ICP/MS SW6020A	BatchID: 144406	Analysis Date: 04/04/2011	Seq No: 4049018							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Qualifiers: > Greater than Result value
 BRL Below reporting limit
 J Estimated value detected below Reporting Limit
 Rpt Lim Reporting Limit

< Less than Result value
 E Estimated (value above quantitation range)
 N Analyte not NELAC certified
 S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank
 H Holding times for preparation or analysis exceeded
 R RPD outside limits due to matrix

Client: Conestoga, Rovers, & Associates, Inc.
 Project Name: Birdsong Peanut
 Workorder: 1103Q22

ANALYTICAL QC SUMMARY REPORT

BatchID: 144406

Sample ID: 1103Q22-001AMS	Client ID: GW-032911-DJB-001	Units: ug/L	Prep Date: 04/04/2011	Run No: 194057							
SampleType: MS	TestCode: Total Metals by ICP/MS SW6020A	BatchID: 144406	Analysis Date: 04/04/2011	Seq No: 4049018							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	110.9	5.00	100	0	111	75	125	0	0	0	
Cadmium	110.2	0.700	100	0.1100	110	75	125	0	0	0	
Chromium	113.4	5.00	100	3.288	110	75	125	0	0	0	
Copper	109.9	2.00	100	0.6300	109	75	125	0	0	0	
Lead	110.5	1.00	100	0	110	75	125	0	0	0	
Manganese	160.1	5.00	100	50.21	110	75	125	0	0	0	
Potassium	4897	100	1000	3813	108	75	125	0	0	0	
Selenium	114.3	5.00	100	0	114	75	125	0	0	0	
Silver	10.83	1.00	10	0	108	75	125	0	0	0	

Sample ID: 1103Q22-001AMSD	Client ID: GW-032911-DJB-001	Units: ug/L	Prep Date: 04/04/2011	Run No: 194057							
SampleType: MSD	TestCode: Total Metals by ICP/MS SW6020A	BatchID: 144406	Analysis Date: 04/04/2011	Seq No: 4049021							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	112.9	5.00	100	0	113	75	125	110.9	1.79	20	
Cadmium	113.3	0.700	100	0.1100	113	75	125	110.2	2.77	20	
Chromium	115.9	5.00	100	3.288	113	75	125	113.4	2.18	20	
Copper	113.2	2.00	100	0.6300	113	75	125	109.9	2.96	20	
Lead	113.6	1.00	100	0	114	75	125	110.5	2.77	20	
Manganese	164.2	5.00	100	50.21	114	75	125	160.1	2.53	20	
Potassium	5018	100	1000	3813	120	75	125	4897	2.44	20	
Selenium	115.4	5.00	100	0	115	75	125	114.3	0.958	20	
Silver	11.10	1.00	10	0	111	75	125	10.83	2.46	20	

Qualifiers: > Greater than Result value
 BRL Below reporting limit
 J Estimated value detected below Reporting Limit
 Rpt Lim Reporting Limit

< Less than Result value
 E Estimated (value above quantitation range)
 N Analyte not NELAC certified
 S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank
 H Holding times for preparation or analysis exceeded
 R RPD outside limits due to matrix

Client: Conestoga, Rovers, & Associates, Inc.
 Project Name: Birdsong Peanut
 Workorder: 1103Q22

ANALYTICAL QC SUMMARY REPORT

BatchID: R194005

Sample ID: MB-R194005	Client ID:	Units: mg/L				Prep Date:		Run No: 194005			
SampleType: MBLK	TestCode: Hexavalent Chromium in Water SW7196	BatchID: R194005				Analysis Date: 03/30/2011		Seq No: 4047785			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium as Cr+3	BRL	0.0100	0	0	0	0	0	0	0	0	
Chromium, Hexavalent	BRL	0.0100	0	0	0	0	0	0	0	0	

Sample ID: LCS-R194005	Client ID:	Units: mg/L				Prep Date:		Run No: 194005			
SampleType: LCS	TestCode: Hexavalent Chromium in Water SW7196	BatchID: R194005				Analysis Date: 03/30/2011		Seq No: 4047786			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.4991	0.0100	0.5	0	99.8	90	110	0	0	0	

Sample ID: 1103Q22-001CMS	Client ID: GW-032911-DJB-001	Units: mg/L				Prep Date:		Run No: 194005			
SampleType: MS	TestCode: Hexavalent Chromium in Water SW7196	BatchID: R194005				Analysis Date: 03/30/2011		Seq No: 4047803			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.4931	0.0100	0.5	0	98.6	85	115	0	0	0	

Sample ID: 1103Q22-001CMSD	Client ID: GW-032911-DJB-001	Units: mg/L				Prep Date:		Run No: 194005			
SampleType: MSD	TestCode: Hexavalent Chromium in Water SW7196	BatchID: R194005				Analysis Date: 03/30/2011		Seq No: 4047804			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.5015	0.0100	0.5	0	100	85	115	0.4931	1.69	20	

Qualifiers: > Greater than Result value
 BRL Below reporting limit
 J Estimated value detected below Reporting Limit
 Rpt Lim Reporting Limit

< Less than Result value
 E Estimated (value above quantitation range)
 N Analyte not NELAC certified
 S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank
 H Holding times for preparation or analysis exceeded
 R RPD outside limits due to matrix

Client: Conestoga, Rovers, & Associates, Inc.
 Project Name: Birdsong Peanut
 Workorder: 1103Q22

ANALYTICAL QC SUMMARY REPORT

BatchID: R194010

Sample ID: MB-R194010		Client ID:				Units: mg/L		Prep Date:		Run No: 194010	
SampleType: MBLK		TestCode: Hexavalent Chromium, Dissolved SW7196				BatchID: R194010		Analysis Date: 03/30/2011		Seq No: 4047842	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium as Cr+3	BRL	0.0100	0	0	0	0	0	0	0	0	
Chromium, Hexavalent	BRL	0.0100	0	0	0	0	0	0	0	0	

Sample ID: LCS-R194010		Client ID:				Units: mg/L		Prep Date:		Run No: 194010	
SampleType: LCS		TestCode: Hexavalent Chromium, Dissolved SW7196				BatchID: R194010		Analysis Date: 03/30/2011		Seq No: 4047843	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.5050	0.0100	0.5	0	101	90	110	0	0	0	

Sample ID: 1103Q22-001DMS		Client ID: GW-032911-DJB-001				Units: mg/L		Prep Date:		Run No: 194010	
SampleType: MS		TestCode: Hexavalent Chromium, Dissolved SW7196				BatchID: R194010		Analysis Date: 03/30/2011		Seq No: 4047851	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.4812	0.0100	0.5	0	96.2	85	115	0	0	0	

Sample ID: 1103Q22-001DMSD		Client ID: GW-032911-DJB-001				Units: mg/L		Prep Date:		Run No: 194010	
SampleType: MSD		TestCode: Hexavalent Chromium, Dissolved SW7196				BatchID: R194010		Analysis Date: 03/30/2011		Seq No: 4047852	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.4794	0.0100	0.5	0	95.9	85	115	0.4812	0.375	20	

Qualifiers: > Greater than Result value
 BRL Below reporting limit
 J Estimated value detected below Reporting Limit
 Rpt Lim Reporting Limit

< Less than Result value
 E Estimated (value above quantitation range)
 N Analyte not NELAC certified
 S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank
 H Holding times for preparation or analysis exceeded
 R RPD outside limits due to matrix

APPENDIX B

MEMORANDUM ON LABORATORY BENCH SCALE TESTING



**CONESTOGA-ROVERS
& ASSOCIATES**

2055 Niagara Falls Blvd., Suite #3
Niagara Falls, New York 14304
Telephone: (716) 297-6150 Fax: (716) 297-2265
www.CRAworld.com

MEMORANDUM

Sent via email

TO: Bob Pyle REF. NO.: 018283

FROM: Alan Weston/Sophia Dore/adh/5 DATE: May 17, 2011

RE: **Reduction of Hexavalent Chromium and Residual Potassium Permanganate in Groundwater and Soil, Treatability Study Report, Birdsong Peanut, Colquitt, Georgia**

INTRODUCTION

A limited Phase II Environmental Site Assessment (ESA) was conducted at the Birdsong Peanut property, Colquitt, Georgia (Site) in August and September 2000. Laboratory analysis of groundwater samples from three monitoring wells detected tetrachloroethylene (PCE) in monitoring well MW-6 at 28 micrograms per liter ($\mu\text{g/L}$), which was above the Maximum Contaminant Level (MCL) of 5 $\mu\text{g/L}$ for drinking water. No other volatile organic compounds (VOCs) were detected in the groundwater samples. Later sampling showed that PCE was detected in a total of only 12 of 46 soil samples at concentrations ranging from 3.2 micrograms per kilogram ($\mu\text{g/kg}$) to 29 $\mu\text{g/kg}$, well below the Type 1 RRS of 500 $\mu\text{g/kg}$. The stratigraphy at the Site consists of about 100 feet of soil aquitard above limestone bedrock (artesian aquifer). The PCE is found in small discontinuous perched zones in the soil (also under pressure). Typical pH of the shallow water is about 6-7. Groundwater is mildly anoxic, with dissolved oxygen (DO) around 2-4 and oxidation reduction potential (ORP) in the 200-300 range.

In situ chemical oxidation (ISCO) was selected as an interim remedial measure to treat the PCE impacted groundwater at the Site. Potassium permanganate (KMnO_4) was selected as the oxidant. Four treatments were made. The first injection was conducted in May 2002, at ten direct push technology (DPT) boring locations across the Site. Approximately 50 gallons of permanganate (a 1-percent solution by weight) were injected at each of the injection points, at depths of 25 to 35 feet. Monitoring well sampling indicated that the PCE in the vicinity of MW-6 had been oxidized. However, the PCE detected in MW-5 (8 $\mu\text{g/L}$) was slightly above the MCL for PCE of 5 $\mu\text{g/L}$. A second injection was performed on September 4 and 5, 2002. PCE had been detected at a concentration of 130 $\mu\text{g/L}$ in a new monitoring well (MW-10). One hundred gallons of KMnO_4 at 5 percent by weight were pressure-injected into the subsurface using DPT at ten boring locations focused between MW-5, MW-6, and well MW-10. After MW-11 was installed on August 12, 2003, approximately 250 gallons of a 6-percent KMnO_4 solution were injected in each of ten injection borings located along a line running northwest-southeast from MW-10 to MW-6. On September 30, 2003, confirmatory groundwater sampling showed no detection of PCE in MW-7D and MW-10, but showed detections in MW-5, MW-6, and MW-11 of 8 $\mu\text{g/L}$, 20 $\mu\text{g/L}$, and 430 $\mu\text{g/L}$, respectively. A fourth, focused injection of KMnO_4 was performed during the week of May 3, 2004. Two hundred fifty gallons of 6 percent KMnO_4 solution were injected in each of ten injection borings oriented in a grid pattern starting from 11 feet west of MW-11 leading to the east by MW-10; injection also was performed near MW-6 and adjacent to MW-5. By 2005, the overall concentrations of PCE in the limited groundwater contaminant plume had been

significantly reduced, at least by an order of magnitude, through the use of KMnO_4 injection. Recent sampling has shown that the PCE has been treated to below the MCL at all well locations.

It appears that the presence of PCE in the localized perched zones made it difficult to get the KMnO_4 to all the zones that were impacted. Therefore, a very large excess of KMnO_4 was used to treat the PCE. Some 6-percent KMnO_4 solution injections were used. Six percent is above the solubility of KMnO_4 at normal temperatures and is obtained by heating the solution with steam. When the heated solution disperses into the soil, it loses heat rapidly and the KMnO_4 can be precipitated in the formation. Once precipitated, it can take a very long time to redissolve and react with organic material in the soil. A brown coloration in the groundwater was observed suggesting that there likely are residual levels of KMnO_4 in the groundwater and soil.

Hexavalent chromium was also identified in the groundwater. Conestoga-Rovers & Associates' (CRA's) Innovative Technology Group (ITG) was requested to assess technologies to remove hexavalent chromium and residual KMnO_4 from the soil and groundwater and to perform a treatability study to test the effectiveness of the technology. This memo contains the results of the treatability study.

TREATABILITY STUDY OBJECTIVES

The primary objectives of this laboratory treatability study were to gather the data necessary to:

- i) Determine whether KMnO_4 remaining in the aquifer can be reduced to manganese dioxide
- ii) Determine whether hexavalent chromium in the groundwater can be reduced to trivalent chromium
- iii) Identify the most effective reducing agent(s) and optimum doses to perform the above treatments

TREATABILITY STUDY WORK PLAN

Task 1: Initial Characterization

Groundwater samples were collected from two wells (MW-5 and MW-6) that showed KMnO_4 coloration and a soil sample was collected from the saturated zone adjacent to the wells. Samples were received at the CRA's laboratory in Niagara Falls, New York on February 3, 2011. Two groundwater samples and one soil sample were received; however, visual observation of the soil sample showed that some of the soil had a pink color and some did not, therefore, the sample was separated based on color and analyzed as two samples.

Upon arrival at the laboratory, the groundwater samples were analyzed for the following parameters:

- pH
- ORP
- DO
- Residual permanganate
- Total and Hexavalent Chromium (using a Hach Test)
- Total and Hexavalent Chromium (USEPA 6010B/SW7196A)

The results of these analyses are shown in Table 1. The pH of both water samples was close to neutral, and both samples had a high positive ORP and high DO, which suggested that oxidizing conditions were present. The sample from well MW-5 contained 12.3 µg/L of chromium, most of which appeared to be dissolved. It was pink in color and contained 52 milligrams per liter (mg/L) residual KMnO_4 . The sample from well MW-6 contained 167 µg/L chromium, which appeared to be almost entirely in the hexavalent dissolved form. No residual permanganate was detected in the well MW-6 sample.

The soil samples were analyzed for:

- pH
- Residual permanganate
- Total Chromium (SW3050B/SW6010B)
- Hexavalent Chromium (SW3060A/SW7196A)

Both the colored and non-colored soil samples had an acidic pH below pH 5. The colored soil contained 25 milligrams per kilogram (mg/kg) chromium, and the non-colored soil contained 43 mg/kg chromium. Very little of the chromium in the soils appeared to be in the hexavalent form, which was expected since hexavalent chromium is highly soluble and does not sorb to soil. Despite the pink color observed, no residual permanganate was measured in either of the soil samples.

Task 2: Screening of Reducing Agents

The following reducing agents were screened to assess their ability to reduce KMnO_4 and hexavalent chromium:

- Sodium Thiosulfate
- Ferrous sulfate
- Acetic acid
- Sodium Dithionite

One hundred milliliters (mL) of groundwater were placed in a beaker with a magnetic stirrer. A 10-percent solution of reducing agent was added to the beaker drop wise. DO and ORP were monitored during the addition of the reducing agent. When the brown/pink color was observed to have been lost from the groundwater, the groundwater was analyzed for residual KMnO_4 and dissolved chromium.

The results of the reagent screening for the sample from well MW-5 are shown in Table 3. Sodium dithionite appeared to be the most effective reagent, removing the purple color from the KMnO_4 after just four drops. The analyses showed that 0.12 gram (g)/L of sodium dithionite removed all of the residual KMnO_4 from the groundwater and reduced the dissolved chromium from 11 µg/L to 4.3 µg/L (61 percent removal).

Sodium thiosulfate and ferrous sulfate were also effective in removing the residual KMnO_4 from the groundwater. However, larger doses were required and dissolved chromium levels were not reduced. Acetic acid did not treat either the KMnO_4 or the dissolved chromium.

Additional testing was performed to further reduce the dissolved chromium concentration in the groundwater. The addition of higher doses of sodium thiosulfate and sodium dithionite were tested as were combinations of reducing agents. The results of these tests are shown in Table 4. Higher doses of

sodium dithionite or sodium thiosulfate did not appear to increase chromium removal. The most effective combination of reducing agents appeared to be sodium thiosulfate and ferrous sulfate. This combination of reagents reduced the ORP to -69 millivolts (mV) and reduced the dissolved chromium concentration to 0.75 µg/L. The dose rate used in this test was 0.24 g/L sodium thiosulfate and 0.24 g/L ferrous sulfate.

The screening test was repeated for the sample from well MW-6. No residual KMnO_4 was present in the initial well MW-6 sample; therefore, this parameter was not measured during the screening. Acetic acid was not screened since it was not effective in treating the groundwater from well MW-5. The results of the screening tests are shown in Table 5. Sodium dithionite was the most effective reagent when used alone. It reduced chromium concentrations to below 10 µg/L at a dose of 0.12 g/L. Sodium thiosulfate and ferrous sulfate also reduced the chromium concentration significantly.

Further testing was performed to further reduce the chromium concentration using combinations of reducing agents. As with the well MW-5 sample, sodium dithionite and sodium thiosulfate tested in combination were not effective. These two reducing agents do not appear to work well together. However, as with the well MW-5 sample, sodium thiosulfate in combination with ferrous sulfate was very effective. These reagents reduced the dissolved chromium concentration to less than 5 µg/L. These results are shown in Table 6. The dose rate used in this test was the same as for the well MW-5 sample: 0.24 g/L sodium thiosulfate and 0.24 g/L ferrous sulfate.

Task 3: Soil Testing

In order to determine whether the soil was a possible source of KMnO_4 or chromium impacts to groundwater, a leaching test was performed on the soil. Ten grams of the pink colored soil were placed in a jar with MW-6 groundwater, which did not initially contain residual KMnO_4 . Ten grams of the pink colored soil were also placed in jar with distilled water. After 24 hours, hexavalent chromium and residual KMnO_4 were measured in the aqueous phases. The results of these analyses are shown in Table 7. In well MW-6 groundwater, the hexavalent chromium concentration decreased and residual KMnO_4 was not detected. Neither hexavalent chromium nor residual KMnO_4 were detected in the test containing distilled water. These data indicated that chromium and KMnO_4 did not leach from the soil but that some precipitation of chromium from the groundwater may occur on contact with soil.

Further leach testing was performed on both pink and non-pink soil samples using Toxicity Characteristic Leaching Procedures (TCLP). The samples were leached with acetic acid for 17 hours and then analyzed for hexavalent chromium and residual KMnO_4 . The results of these analyses are shown in Table 8. Neither hexavalent chromium nor residual KMnO_4 were detected in the leachate from either of the soil samples. This test confirms the results of the previous test, which indicated that chromium and KMnO_4 did not leach from the soil.

Finally, the soil samples were digested using a magnesium chloride/sodium hydroxide/sodium carbonate/phosphate buffer digestion at 95°. This is a very rigorous extraction procedure. The extraction fluid was analyzed for dissolved chromium, dissolved iron, and dissolved manganese. Chromium was present in the extraction fluid at between 22 and 31 µg/L, iron at between 187 and 266 µg/L, and manganese at between 7.2 and 12 µg/L. These results indicated that the soil was not a significant source of either chromium or KMnO_4 . Iron was present in the soil and may be the reason for the observed pink color.

SUMMARY

- For groundwater treatment, a dose of 0.24 g/L sodium thiosulfate and 0.24 g/L ferrous sulfate removed chromium and residual KMnO_4 from both groundwater samples.
- Although the soil sample had a pink color, it was not a source of either KMnO_4 or chromium to groundwater. The pink color may be caused by iron.

RECOMMENDATION

Based on the results of the treatability study, the Site soil does not require treatment because it does not appear to contain chromium or residual KMnO_4 . Groundwater can be treated with a mixture of sodium thiosulfate and ferrous sulfate. The required dose would be 0.12 pound of sodium thiosulfate and 0.12 pound of ferrous sulfate per cubic yard of saturated matrix. The cost for these reagents would be and \$0.40 per cubic yard of saturated matrix.

The use of these reagents should not have any adverse effects on the Site. Both reagents are mild and are expected to create conditions that are sufficiently reducing to precipitate the chromium and KMnO_4 without creating the highly reducing conditions that are associated with stronger reagents such as sodium dithionite. Therefore, there should be minimal perturbation to the Site.

TABLE 1

INITIAL CHARACTERIZATION OF GROUNDWATER SAMPLES
LABORATORY TREATABILITY STUDY
BIRDSONG
GEORGIA

<i>Parameters</i>	<i>Units</i>	<i>MW-5</i>	<i>MW-6</i>
pH	S.U.	7.09	6.94
ORP	mV	550	232
Dissolved Oxygen	mg/L	4.40	6.30
Total Chromium	µg/L	12.3 J	167
Dissolved Chromium	µg/L	11.0	163
Hexavalent Chromium	mg/L	ND (0.01)	0.160
Hexavalent Chromium (HACH)	mg/L	ND (0.01)	0.180
Residual Permanganate	mg/L	51.5	ND (0.125)

TABLE 2

INITIAL CHARACTERIZATION OF SOIL SAMPLE
LABORATORY TREATABILITY STUDY
BIRDSONG
GEORGIA

<i>Parameters</i>	<i>Units</i>	<i>Near MW-6 (Pink)</i>	<i>Near MW-6 (Not Pink)</i>
pH	S.U.	4.06	4.80
Total Chromium	mg/kg	24.7	42.5
Hexavalent Chromium	mg/kg	2.40	0.74
Residual Permanganate	mg/kg	ND (0.125)	ND (0.125)

TABLE 3

REDUCING AGENT SCREENING TEST FOR GROUNDWATER MW-5
LABORATORY TREATABILITY STUDY
BIRDSONG
GEORGIA

	ORP (mV)	DO (mg/L)	Residual KMnO ₄ (mg/L)	Dissolved Chromium (µg/L)	Observations
Initial	550	4.4	51.5	11.0	
Sodium Thiosulfate					
1 drop (0.02mL)	210	2.60	X	X	Color changed to red then orange
2 drops (0.04mL)	171	2.30	X	X	Same color, but solids formed
3 drops (0.06mL)	152	3.00	X	X	No changes
4 drops (0.1mL)	137	3.40	ND (0.125)	16.5	No changes
Ferrous Sulfate					
2 drops (0.05mL)	542	4.30	X	X	Color change pinkish red, solids formed
4 drops (0.11mL)	544	4.60	X	X	Color change to red
6 drops (0.17mL)	546	5.20	X	X	Color change to orange, more solids
8 drops (0.23mL)	453	5.30	X	X	Color change to yellow
10 drops (0.29mL)	388	5.80	X	X	No changes
12 drops (0.35mL)	250	6.20	ND (0.125)	13.3	No changes
Acetic Acid					
22 drops (0.6mL)	730	6.80	X	X	No changes
29 drops (1.6mL)	761	7.30	X	X	No changes
61 drops (2.6mL)	783	7.30	X	X	No changes
96 drops (3.6mL)	801	7.80	X	X	No changes
201 drops (6.6mL)	815	7.90	X	X	No changes
306 drops (9.6mL)	830	7.70	X	X	No changes
516 drops (15.6mL)	849	7.90	X	X	Since no changes-this does not work
Sodium Dithionite					
2 drops (0.06mL)	585	5.2	X	X	Color change to orange
3 drops (0.09mL)	494	0.1	X	X	Color change to yellow, solids formed
4 drops (0.12mL)	420	0.1	ND (0.125)	4.3 J	No changes

Notes:

J - Estimated value.

TABLE 4

ADDITIONAL REDUCING AGENT SCREENING TEST FOR GROUNDWATER MW-5
LABORATORY TREATABILITY STUDY
BIRDSONG
GEORGIA

	ORP (mV)	DO (mg/L)	Residual KMnO ₄ (mg/L)	Dissolved Chromium (µg/L)	Observations
Initial	550	4.4	51.5	11.0	
Sodium Thiosulfate					
1 drop (0.03mL)	221	7.40	X	X	Color changed to red, then orange
2 drops (0.06mL)	209	7.40	X	X	Solids formed, color yellowish orange
3 drops (0.09mL)	199	7.30	X	X	No change
4 drops (0.12mL)	188	7.30	X	X	No change
5 drops (0.15mL)	174	7.40	X	X	No change
6 drops (0.18mL)	158	7.50	X	X	No change
7 drops (0.21mL)	154	7.60	ND (0.125)	12.9	No change
Sodium Dithionite					
1 drop (0.03mL)	510	7.10	X	X	Color changed to red
2 drops (0.06mL)	450	5.60	X	X	Color changed to orange
3 drops (0.09mL)	418	3.80	X	X	Solids formed, color yellowish orange
4 drops (0.12mL)	350	3.00	X	X	No change
5 drops (0.15mL)	210	1.00	X	X	No change
6 drops (0.18mL)	160	0.500	ND (0.125)	5	No change
7 drops Sodium Thiosulfate (0.24mL)					
2 Drops Sodium Dithionite (0.12mL)	169	7.90		12.2	Orangish, yellow color with solids
7 drops Sodium Thiosulfate (0.24mL)					
4 drops Ferrous Sulfate (0.06mL)	173	8.50		12.5	Orangish, yellow color with solids
7 drops Sodium Thiosulfate (0.24mL)					
7 Drops Sodium Dithionite (0.24mL)	79.0	8.70		12.9	Light yellow color with solids
7 drops Sodium Thiosulfate (0.24mL)					
7 drops Ferrous Sulfate (0.24mL)	-69.0	7.30		0.75 J	Orangish, yellow color with solids

Notes:

J - Estimated result.

CRA 018283-Memo-5

TABLE 5

REDUCING AGENT SCREENING TEST FOR GROUNDWATER MW-6
LABORATORY TREATABILITY STUDY
BIRDSONG
GEORGIA

	<i>ORP (mV)</i>	<i>DO (mg/L)</i>	<i>Hexavalent Chromium (µg/L)</i>	<i>Observations</i>
Initial	232	6.3	163	
Sodium Thiosulfate				
1 drop (0.02mL)	345	8.50	X	No visible changes
2 drops (0.04mL)	324	8.50	X	No visible changes
3 drops (0.06mL)	315	8.20	X	No visible changes
4 drops (0.1mL)	294	8.50	40	No visible changes
5 drops (0.13mL)	283	8.50	30	No visible changes
6 drops (0.16mL)	264	8.10	20	No visible changes
7 drops (0.19mL)	235	8.00	20	No visible changes
Ferrous Sulfate				
2 drops (0.06mL)	38.0	8.20	X	No visible changes
4 drops (0.12mL)	31.0	7.60	X	Yellow, green color change
6 drops (0.18mL)	18.0	6.80	X	No visible changes
8 drops (0.24mL)	11.0	6.40	X	Solids form
10 drops (0.30mL)	25.0	5.60	X	No visible changes
12 drops (0.36mL)	34.0	5.40	ND (10)	No visible changes
Sodium Dithionite				
1 drop (0.03mL)	195	8.20	X	No visible changes
2 drops (0.06mL)	177	7.90	X	No visible changes
3 drops (0.09mL)	164	7.70	X	No visible changes
4 drops (0.12mL)	149	7.40	ND (10)	No visible changes

TABLE 6

ADDITIONAL REDUCING AGENT SCREENING TEST FOR GROUNDWATER MW-6
LABORATORY TREATABILITY STUDY
BIRDSONG
GEORGIA

	<i>ORP (mV)</i>	<i>DO (mg/L)</i>	<i>Hexavalent Chromium (µg/L)</i>	<i>Observations</i>
Initial	232	6.3	163	
7 drops Sodium Thiosulfate (0.24mL) 2 Drops Sodium Dithionite (0.12mL)	155	9.50	158	No changes
7 drops Sodium Thiosulfate (0.24mL) 4 drops Ferrous Sulfate (0.06mL)	15	8.90	9.3	No Changes
7 drops Sodium Thiosulfate (0.24mL) 7 Drops Sodium Dithionite (0.24mL)	40.0	8.80	156	No changes
7 drops Sodium Thiosulfate (0.24mL) 7 drops Ferrous Sulfate (0.24mL)	-76.0	8.80	ND (5.0)	Yellow color with solids

TABLE 7

LEACHING TEST USING NEAR MW-6 SOIL AND MW-6 GROUNDWATER
LABORATORY TREATABILITY STUDY
BIRDSONG
GEORGIA

<i>Parameters</i>	<i>Units</i>	<i>GW-MW-6 Initial</i>	<i>GW-MW-6 After 24 Hours</i>	<i>DI WATER After 24 Hours</i>
Hexavalent Chromium	µg/L	170	100	ND (10)
Residual Permanganate	mg/L	ND (0.125)	ND (0.125)	ND (0.125)

TABLE 8

TCLP LEACHING TEST ON SOIL SAMPLES
LABORATORY TREATABILITY STUDY
BIRDSONG
GEORGIA

<i>Parameters</i>	<i>Units</i>	<i>Near MW-6 (Pink)</i>	<i>Near MW-6 (Not Pink)</i>
Hexavalent Chromium	µg/L	ND (10)	ND (10)
Residual Permanganate	mg/L	ND (0.125)	ND (0.125)

TABLE 9

DIGESTION OF SOIL SAMPLES
LABORATORY TREATABILITY STUDY
BIRDSONG
GEORGIA

<i>Parameters</i>	<i>Units</i>	<i>Near MW-6 (Pink)</i>	<i>Near MW-6 (Not Pink)</i>
Dissolved Chromium	µg/L	30.6	22.3
Dissolved Iron	µg/L	266 B	187 B, J
Dissolved Manganese	µg/L	12.0 B, J	7.2 B, J

Notes:

B - Analyte detected in the associated blank.

J - Estimated.

APPENDIX C
PUBLIC NOTICE DOCUMENTS

PUBLIC NOTICE
Birdsong Peanut (Former Farmers Feed and Milling Company)
608 East Main Street
Colquitt, Georgia

The Georgia Environmental Protection Division, Department of Natural Resources, State of Georgia (EPD) has placed this site on the Hazardous Site Inventory pursuant to its authority under the Hazardous Site Response Act and Rules promulgated there under. The Director of EPD has determined that this site needs corrective action and has required the responsible party for this site to submit to EPD a proposed corrective action plan that describes the corrective action the responsible party has determined is necessary to comply with the risk reduction standards of EPD's Rules for Hazardous Site Response. Before EPD decides whether to approve this corrective action plan, the public has the opportunity to review the corrective action plan and provide comments to EPD about the plan.

The 30-day public comment period begins August 8, 2011. Oral and written comments can be made to:

Mr. Greg Gilmore
Georgia Environmental Protection Division
Response and Remediation Program
2 Martin Luther King Drive, SE Suite 1462 East
Atlanta, Georgia 30334
(404) 657-8600

The designated contact for the parties who developed the report is:

Bob Pyle
Conestoga-Rovers & Associates, Inc.
3075 Breckinridge Blvd, Suite 470
Duluth, Georgia 30096
(770) 441-0027

APPENDIX V

2012 CRA STATUS UPDATE LETTER



**CONESTOGA-ROVERS
& ASSOCIATES**

File EDC Man
3075 Breckinridge Blvd., Suite 470. Duluth, GA 30096
Telephone: (770) 441-0027 Fax: (770) 441-2050
www.CRAworld.com

June 27, 2012

Reference No. 018283

Mr. Greg Gilmore
Response and Remediation Program
ENVIRONMENTAL PROTECTION DIVISION
2 Martin Luther King Drive, S.E., Suite 1462 East
Atlanta, Georgia 30334

Dear Mr. Gilmore:

Re: Status Update - Pilot Injection and Performance Monitoring; and
Annual Groundwater Monitoring and Reporting
Birdsong Peanut Plant
Colquitt, Georgia
HSI Site No. 10710

Conestoga-Rovers & Associates (CRA), on behalf of Man Investment Holdings, Inc. (MIHI; formerly ED&F & Man Group, Inc.), has prepared the following Status Update and Annual Report for work performed at the Birdsong Peanut Facility in Colquitt, Georgia (Property). Since the last annual report was submitted on May 31, 2011, CRA implemented a voluntary pilot scale chemical injection of sodium thiosulfate and ferrous sulfate at the southwest quarter of the Property and completed annual monitoring pursuant to the September 2009 Corrective Action Plan (CAP). This letter has been prepared to:

- Describe the voluntary pilot injection and monitoring conducted pursuant to a revised CAP (August 2011); and,
- Report the annual groundwater sampling and land use certification performed pursuant to the September 2009 CAP.

1.0 INTRODUCTION

CRA conducted in-situ chemical oxidation (ISCO) using potassium permanganate beginning in May 2002 and extending through May 2004. ISCO was performed to remediate volatile organic compounds (VOCs) in the groundwater per the voluntary interim remedial corrective action which was verbally approved by the Georgia Environmental Protection Division (EPD). The ISCO injection was effective in remediating the VOCs in groundwater to below the maximum

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contaminant level (MCL). The oxidation process, as anticipated, resulted in the temporary increase in metal concentrations (specifically Cr [III] and Cr [VI]) in the active treatment zone. Overall, site conditions improved since the elevated metal concentrations are not expected to migrate beyond the treatment zone. The general sequence of actions taken at the Site is as follows:

- A corrective action plan (CAP), which called for annual groundwater sampling and certification of land use, was submitted to EPD in September 2009;
- Although no additional active remediation was required, MIHI requested that CRA evaluate options to remediate localized metals in groundwater to accelerate delisting of the Site;
- CRA conducted a treatability study/bench scale test to evaluate alternative remedial options for the metals and submitted a revised CAP to EPD in August 2011;
- EPD advised CRA that CAP approval was not required and MIHI was free to voluntarily implement the proposed corrective action;
- CRA proceeded with the voluntary pilot injection and associated performance monitoring in October 2011; and
- CRA completed the annual groundwater monitoring and land use certification in March 2012.

The voluntary pilot injection and annual monitoring program scope and results are presented in the Sections that follow.

2.0 VOLUNTARY PILOT-INJECTION PROGRAM

A pilot scale injection of sodium thiosulfate and ferrous sulfate solution was performed at the southwest portion of the Birdsong Site based on the findings of the May 2011 treatability study /bench scale test which was included in Appendix B of the August 2011 Revised Corrective Action Plan (CAP). The pilot injection locations are shown on Figure 1.



The pilot scale injection program in the designated area included the following:

- Pre-injection groundwater sampling;
- Advancement of temporary injection points by direct push technology (DPT);
- Injection of sodium thiosulfate and ferrous sulfate solution into the temporary injection points; and
- Post-injection groundwater performance sampling events.

Baseline groundwater sampling was completed on October 4 and 5, 2011 from monitoring wells MW-6, MW-7D, MW-10, MW-11, and MW-17D. Locations of the monitoring wells in relation to the injection grid are shown on Figure 2.

2.1 PILOT INJECTION

A pilot test underground injection notification was submitted to Georgia Environmental Protection Division (EPD), underground injection control (UIC) program on August 5, 2011. Atlas Geo-Sampling Company (Atlas) mobilized to the Site on October 25, 2011 following notification and the first round of the pilot scale injection was completed between October 25 and November 3, 2011. Fifty-five (55) temporary injection DPT points were completed for the pilot injection. The temporary injection points were spaced on approximately 20-foot centers. The injection area covered approximately 75-feet by 215-feet as presented on Figure 1. The 55 temporary injection points were arranged in a grid consisting of five columns (A through E) to the northeast and 12 rows (1 through 12) to the northwest for a total of 60 potential injection points. Select injection locations could not be completed due to access limitations (A6 and A7 locations inside an AST tank farm; A12 close to a rail road; and D10 was under water). Shallow refusal of 16 and 17-feet was encountered at D3. The injection consisted of 0.5 percent (%) weight by volume (w/v) sodium thiosulfate and ferrous sulfate solution. Forty-two (42) pounds (lb) of sodium thiosulfate and 42 lbs of ferrous sulfate were mixed with 525-gallons of water to create the 0.5% solution.

Each injection point was advanced using DPT to a maximum depth of 40-feet below ground surface (bgs) and the injection was performed at six intervals (40, 35, 30, 25, 20, and 15-feet bgs). Each injection point received approximately 1,050-gallons of mixture (distributed amongst the



six intervals). A total of 55,550-gallons of solution was injected amongst the 55-locations completed. Depth to groundwater ranged from 16 to 27-feet bgs at the injection area during the baseline groundwater sampling. There was minimal increase (less than 1.0 foot) in groundwater elevation during the injection event and between the performance sampling events. Details of the injections which included depth of injection, flow rate, injection pressure and total volume injected at each location are summarized on the Daily Injection Data Collection Sheet included as Attachment A. All injection points were abandoned with bentonite chips after completion of each location.

2.2 GROUNDWATER PERFORMANCE MONITORING

Pre- and post-injection groundwater sampling was performed at the well locations listed above. The pre-injection groundwater sampling was completed on October 4 and 5, 2011 to establish baseline conditions before the injection was conducted. Post-injection groundwater monitoring events were completed on November 29, 2011 approximately five weeks after the start of the injection and on December 29, 2011 five weeks after completion of the injection. In addition, the annual monitoring event was conducted on March 14, 2012 (refer to Section 4). The groundwater performance monitoring locations are provided on Figure 2.

All the groundwater sampling was conducted in general accordance with the United States Environmental Protection Agency (EPA) Region 4 Field Branches Quality System and Technical Procedures (FBQSTP) guidance documents. Records of the monitoring well purging and sampling data for the pre-injection (October 2011) and post-injection (November and December 2011) groundwater sampling are presented in Attachment B.

The groundwater samples were analyzed for total and dissolved chromium, speciated trivalent chromium (Cr [III]) and hexavalent chromium (Cr [VI]).

2.3 GROUNDWATER ANALYTICAL RESULTS

Total and dissolved chromium and Cr [VI] were detected in the baseline/pre-injection groundwater samples collected from monitoring wells MW-6, MW-10 and MW-11 at concentrations in excess of the Georgia Hazardous Site Response Act (HSRA) Type 1 Risk Reduction Standards (RRS). Cr [III] was only detected in MW-10 above the Type 1 RRS. No



residual potassium permanganate from prior injection events was reported in any of the monitoring wells.

The analytical results for the two post-injection sampling events conducted in November and December 2011 are summarized below. During the first performance monitoring, total and dissolved chromium and Cr [VI] were reported at lower concentrations than the baseline concentrations detected prior to the injection with the exception of the: total chromium concentration in MW-6 (0.199 mg/L); dissolved Cr [VI] in MW-10 (0.0932 mg/L); and, total and dissolved chromium in MW-11; all of which were reported slightly greater than the baseline value. Cr [III] in MW-11 was also reported above the baseline value.

During the second (December 2011) post-injection event, chromium and Cr [VI] concentrations were all below the baseline values except those at MW-11 which slightly exceeded the baseline concentrations. Overall, most of the monitoring wells showed a decreasing trend during the December 2011 sampling event except MW-11. Cr [III] concentration at MW-10 was reported above the baseline and the November 2011 values.

During the annual (March 2012) sampling event, the Cr [VI] concentrations stayed slightly below or at the baseline concentrations but above the previous (December 2011) performance event, showing a rebound. At monitoring well MW-10, Cr [VI] concentrations were below the baseline, but slightly above the December 2011 concentrations. Cr [III] at MW-11 during this event was below both the baseline and the December 2011 concentrations.

The groundwater analytical results for all events, pre-injection (October 2011) and post-injections (November and December 2011 and March 2012), are summarized in Table 1. The sample keys, data quality assessment and validation memorandums, and complete analytical data reports for the baseline and two post-injection events are included in Attachment C.

2.4 SUMMARY OF PERFORMANCE MONITORING RESULTS

Comparisons of the concentrations of the chromium and Cr [VI] prior to and following the pilot injection are presented in Table 1. Reductions in the concentrations of Cr [VI] were observed at



three monitoring well locations (MW-6, MW-10 and MW-11) during the November and December 2011 post-injection event except the total Cr [VI] in December 2011 at MW-11.

During the December 2011 event, Cr [VI] concentrations at MW-6 and MW-10 had shown a reduction of approximately 43% and 31% respectively. March 2012 concentrations at MW-6 rebounded to pre-injection values and showed slight increase at MW-10 compared to the December event but stayed below the baseline value. The Cr [VI] concentration at MW-11 has shown reduction during the November sampling event and a slight increase during the December 2011 event.

This increase may be partially attributed to desorption of Cr [VI] during and after the injection activity. The overall success of the pilot injection remained inconclusive at this point. Groundwater elevation increased between 3.0 and 4.5 feet since March 2011. The increase in groundwater elevation since the injection event may have contributed to increased concentration of metals observed in some wells.

During the bench scale test, a dose of 0.24 g/L sodium thiosulfate and 0.24 g/L ferrous sulfate removed all the chromium and residual KMnO_4 from both groundwater samples tested. The reduction rate during the pilot injection was between 31% and 43 %. The change in reduction may be attributed to the application method and/or distribution factors.

3.0 ANNUAL MONITORING

The annual monitoring program included an inspection to confirm the current use of the Site and groundwater monitoring. Based on the Site inspection, the use of the Site has not changed since the last annual inspection and remains consistent with commercial/industrial uses.

Specific activities performed as part of the annual groundwater monitoring event consisted of: inspection of the existing monitoring well network; measurement of depth to groundwater in the monitoring well network; purging and collection of groundwater samples from the four designated monitoring wells located within and near the primary groundwater treatment zone (MW-5, MW-6, MW-10, and MW-11).



Twelve monitoring wells were located during the inspection and each well appeared to be in satisfactory condition with the exception of monitoring well MW-4, which had a damaged surface casing. Monitoring wells MW-12 and MW-16 were not found and have presumably been covered with local soil. A metal detector was used to search for these wells during previous Site visits. The search was abandoned when no evidence of the wells was found. The locations of the monitoring wells designated for inspection and sampling are shown on Figure 2.

3.1 GROUNDWATER SAMPLING PROCEDURES

Depths to groundwater were measured relative to the top of casing (TOC) at each accessible monitoring well with an electronic water level meter. The March 2012 depths to groundwater and associated groundwater elevations are listed in Table 2. Overall, the groundwater has risen an average of 4-feet since March 2011 and at least 10 to 11-feet since the pilot injection event in November 2011.

Following measurement of the depths to groundwater, monitoring wells MW-5, MW-6, MW-10, and MW-11 were purged using low flow purge and sampling techniques. Each sampling location was purged using a peristaltic pump fitted with dedicated ¼-inch outer diameter (¼"-OD) polyethylene tubing. Field parameters (i.e., pH, temperature, conductivity, turbidity, dissolved oxygen [DO], and oxidation-reduction potential [ORP]) were measured in the flow-through cell of a calibrated, multi-parameter water quality meter¹ and the depth to groundwater was monitored with an electronic water level meter. Purging was complete when three consecutive readings were stable for all of the field parameters. The stabilization of the field parameters indicated entry of representative formation water into the screened interval. Stable field parameters were achieved during purging from MW-5, MW-6 and MW-10. Monitoring well MW-11 was purged dry following removal of approximately 1.3 well volumes. Upon stabilization of the field parameters at monitoring wells MW-5 MW-6 and MW-10 and following an adequate recovery period in MW-11, sampling was performed with the same equipment used for purging. Records of the monitoring well purging data, including visual observations such as groundwater color, are presented in Attachment D.

¹ Horiba U-53 water quality meter.



Five groundwater samples, including one field duplicate, were collected from MW-5, MW-6, MW-10, and MW-11 for analysis of the following parameters with the associated analytical methods:

- *Total and Dissolved Metals*, including: arsenic, cadmium, chromium, copper, lead, manganese, potassium, selenium, and silver (EPA Method 6020A).
- *Speciated Chromium*, including: *total* and *dissolved* Cr [III] and Cr [VI] (EPA Method 7196).

Samples collected for analysis of total metals and total speciated chromium (Cr [III] and Cr [VI]) were transferred directly into preserved and unpreserved sample bottles, respectively, provided by the laboratory. Each sample collected for analysis of dissolved parameters was filtered directly into the preserved (dissolved total metals) and unpreserved (dissolved Cr [III] and Cr [VI]) sample bottles through a dedicated in-line 0.45-micron filter.

All groundwater samples were preserved on ice in a cooler and were submitted to Analytical Environmental Services, Inc. (AES) in Atlanta, Georgia under standard chain of custody protocols on March 14, 2012. One blind duplicate sample was collected from monitoring well MW-6 (GW-031312-DJB-005) and was submitted to AES for an internal quality assurance/quality control assessment.

3.2 GROUNDWATER ANALYTICAL RESULTS

The March 2012 groundwater analytical results are summarized in Table 3. A sample key, data quality assessment and validation memorandum, and complete analytical data report are provided as Attachment E. Prior year's data are summarized in Table 4 along with current data for comparison.

The historical (March 2010 and 2011) and recent (March 2012) groundwater analytical results were evaluated with respect to the RRS presented in Table 3 and Table 4. The criteria consist of Type 1 RRS and Type 4 RRS, which represent the concentrations of regulated substances, which pose no significant risk for residential and non-residential land uses, respectively. Groundwater Type 1 RRS are listed in Georgia Rule 391-3-19-Appendix III; the non-residential criteria, or Type 4 RRS, are determined based upon site-specific data. As described in correspondence dated January 15, 2010, CRA evaluated historical analytical data and the



anticipated land use of the Property to calculate the Type 4 RRS presented in Table 3. The March 2012 groundwater results exceeded the Type 1 and Type 4 RRS for hexavalent chromium in the three monitoring wells within the primary groundwater treatment zone; chromium concentrations in monitoring well MW-5, located outside the primary treatment zone, were below the Type 1 RRS. The cadmium and selenium groundwater concentrations were below the Type 1 RRS in all wells except MW-6 for the March 2012 event.

Historical concentrations of chromium, particularly in monitoring well MW-6, exceeded Type 4 RRS; therefore, additional samples were collected in March 2010, March 2011 and March 2012 for analysis of speciated chromium. Groundwater results as summarized in Tables 3 and 4 indicate the following:

- Total and dissolved concentrations of trivalent chromium (Cr [III]) in all groundwater samples were reported below the Type 4 RRS (153 mg/L). Trivalent chromium did exceed the Type 1 RRS of 0.01 mg/L at monitoring well locations MW-10 and MW-11.
- The March 2012 results for samples collected from monitoring wells MW-6, MW-10 and MW-11 indicated that Cr [VI] was detected in the filtered and unfiltered groundwater samples at concentrations which exceeded the Type 1 (0.01 mg/L) and Type 4 RRS (0.01 mg/L).
- Detected concentrations of total and dissolved cadmium and selenium were also reported to have fallen below the Type 1 RRS for the March 2012 groundwater sampling event except at MW-6. No other exceedences of the RRS were reported for these analytes in the current or prior events.

None of the four wells sampled during the March 2012 sampling event showed visual evidence of residual potassium permanganate.

4.0 CONCLUSIONS

Based on the overall results of the pilot injection, the reduction of the Cr [VI] in groundwater at the Site observed during the two post-injection events after injection of the sodium thiosulfate and ferrous sulfate mixture was inconsistent. After initial reductions, rebound of the Cr [VI] concentration was observed at MW-6 and MW-11 (dissolved only) during the March 2012 annual monitoring event. The groundwater level has risen approximately 10 to 11-feet since the



**CONESTOGA-ROVERS
& ASSOCIATES**

June 27, 2012

Reference No. 018283

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injection event in November 2011. Although chemical injection occurred in the Vadose zone, the distribution in this zone may have been inconsistent resulting in a rebound in chromium concentrations when the water levels increased. The shallow injection interval was 15-feet bgs, which was below the current (March 2012) groundwater level in MW-10 at 7.40-feet bgs and in MW-11 at 5.82-feet bgs. Additional groundwater monitoring may be performed if groundwater conditions stabilize or be deferred until the next annual event in March 2013 to assess conditions at that time.

CRA recommends no further injection until the next round of annual groundwater monitoring is performed and groundwater condition evaluated.

Land use at the Site remains unchanged based on observations from the March 2012 sampling event.

Please do not hesitate to contact the undersigned at (770) 441-0027 if you have any questions.

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES

Terefe Mazengia, PG

Robert (Bob) T. Pyle

TBM/tb/02

Encl.

cc: Bijan Rahbar, Underground Injection Control Program, EPD
Emma Dickson, MIHI
Les Oaks, King & Spalding LLP
Bob Norman, Jones, Cork & Miller LLP

FIGURES

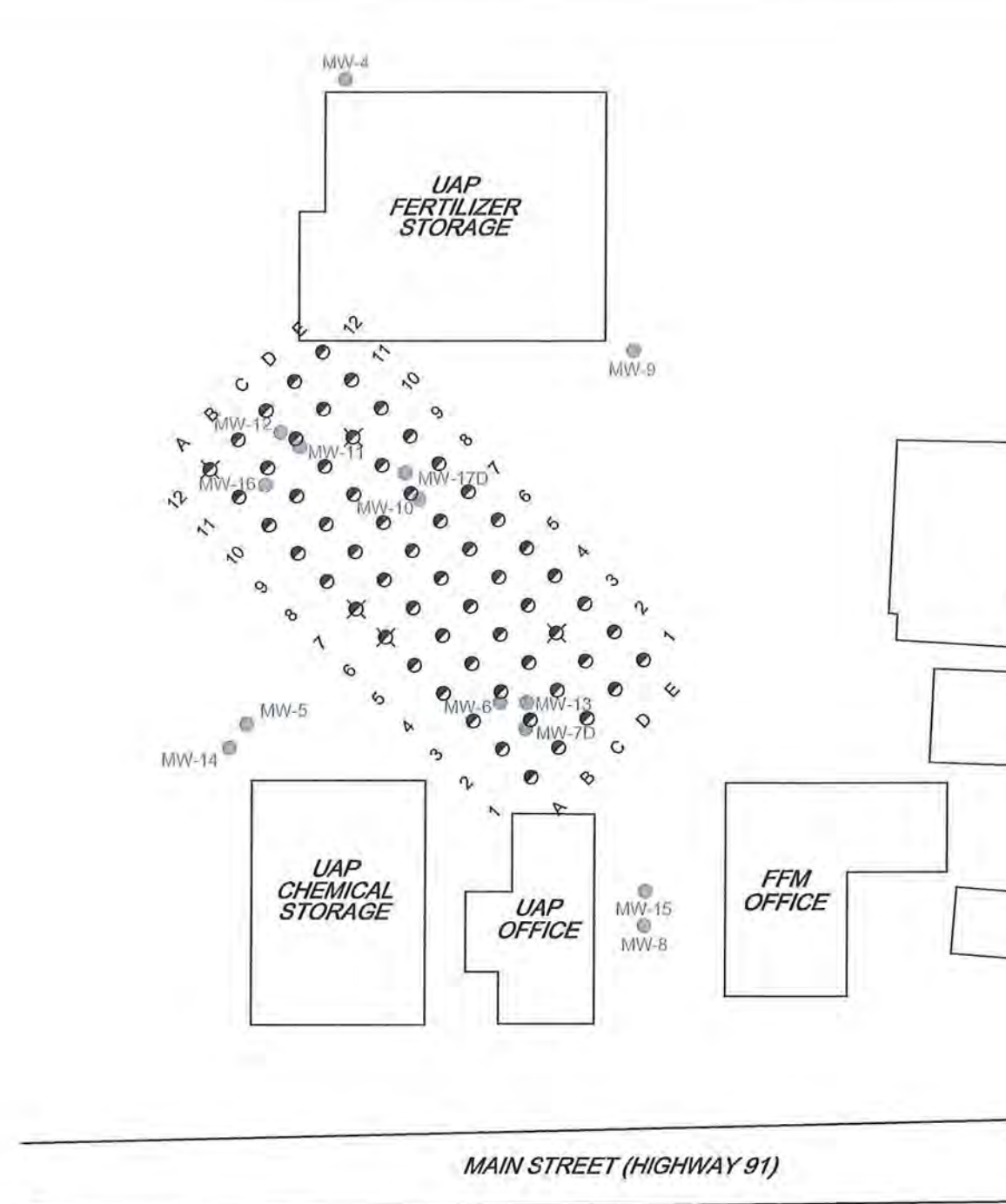
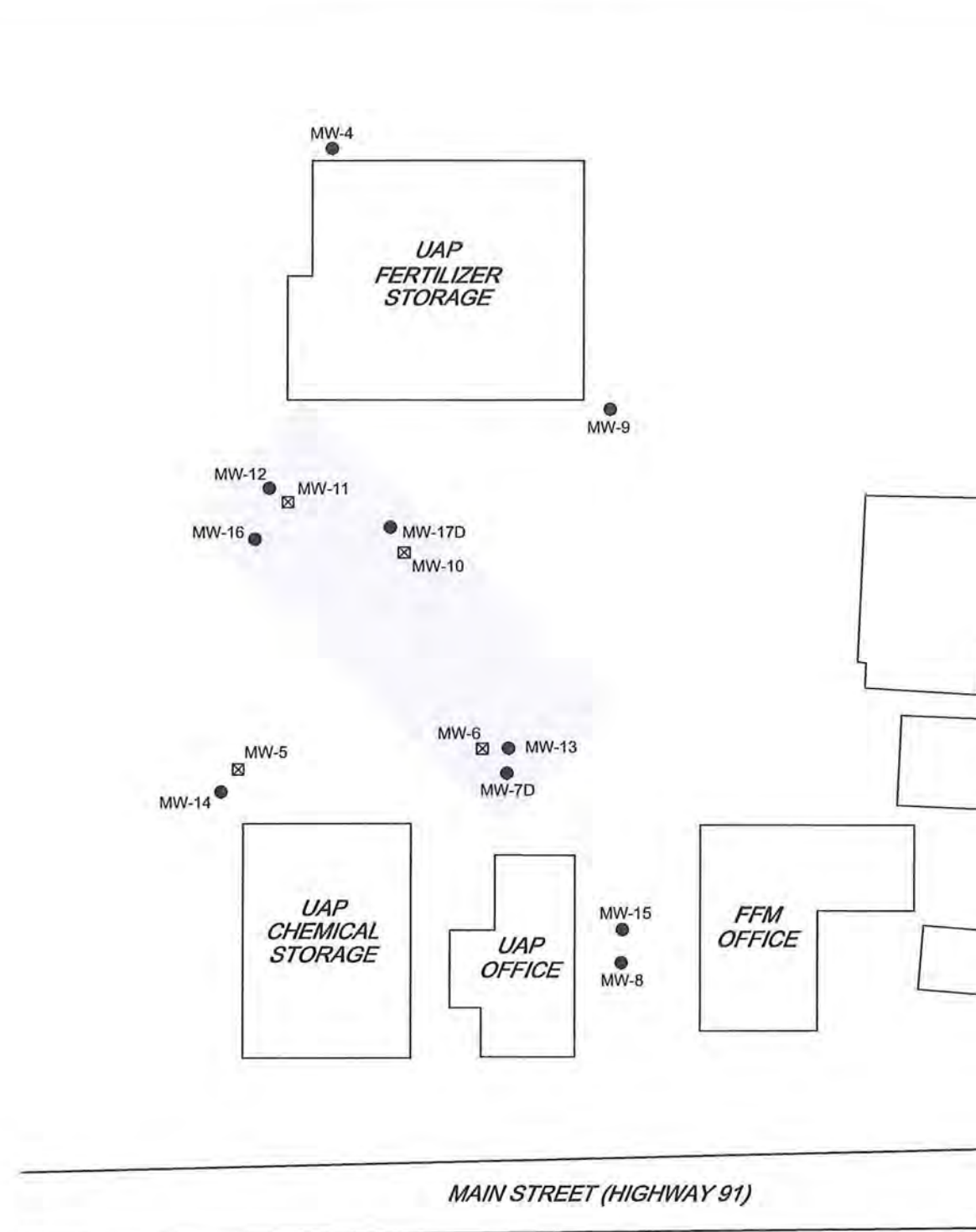


Figure 1

PILOT INJECTION LOCATIONS
 BIRDSONG PEANUT PLANT
 FARMERS FEED AND MILLING COMPANY
 Colquitt, Georgia



DIGITIZED FROM AERIAL PHOTOGRAPH, SOURCE: MICROSOFT TERRASERVER/USGS



LEGEND

- MONITORING WELL LOCATION
- ⊠ MONITORING WELL LOCATION (SAMPLED)
- PILOT SCALE INJECTION AREA

Figure 2
 PILOT INJECTION LOCATIONS
 BIRDSONG PEANUT PLANT
 FARMERS FEED AND MILLING COMPANY
 Colquitt, Georgia



DIGITIZED FROM AERIAL PHOTOGRAPH, SOURCE: MICROSOFT TERRASERVER/USGS

TABLES

TABLE 1
PRE- AND POST-INJECTION PERFORMANCE MONITORING
ANALYTICAL RESULTS SUMMARY - OCTOBER - DECEMBER 2011
BIRDSONG PEANUT PROPERTY
COLQUITT, GEORGIA

Location ID:				MW-6	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6	MW-7D	MW-7D	MW-7D	
Sample Name:				GW-100511-SAG-005	GW-100511-SAG-006	GW-112911-SAG-001	GW-122911-SAG-001	GW-122911-SAG-002	GW-031312-DJB-004	GW-031312-DJB-005	GW-100511-SAG-004	GW-112911-SAG-002	GW-122911-SAG-003	
Sample Date:				10/5/2011	10/5/2011	11/29/11	12/29/2011	12/29/2011	3/13/2012	3/13/2012	10/5/2011	11/29/11	12/29/2011	
Parameters		Georgia HSRA RRS												
		Units	Type 1											Type 4
			a	b										
Metals(Total)														
Chromium	mg/L	0.1	NC	0.191 ^a	0.193 ^a	0.199 ^a	0.11 ^a	0.111 ^a	0.189 ^a	0.192 ^a	0.00658	0.005 U	0.005 U	
Chromium III (trivalent)	mg/L	0.01	153.3	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	
Chromium VI (hexavalent)	mg/L	0.01	0.01	0.193 ^{2b}	0.199 ^{2b}	0.125 ^{2b}	0.110 ^{2b}	0.113 ^{2b}	0.193 ^{2b}	0.202 ^{2b}	0.0100 U	0.0100 U	0.0100 U	
Metals (Dissolved)														
Chromium (dissolved)	mg/L	0.1	NC	0.19 ^a	0.192 ^a	0.117 ^a	0.11 ^a	0.117 ^a	0.186 ^a	0.186 ^a	0.00642	0.005 U	0.005 U	
Chromium III (trivalent) (dissolved)	mg/L	0.01	153.3	0.0100 U	0.0100 U	0.0100 U	0.0100 U	-	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	
Chromium VI (hexavalent) (dissolved)	mg/L	0.01	0.01	0.192 ^{2b}	0.194 ^{2b}	0.126 ^{2b}	0.104 ^{2b}	-	0.193 ^{2b}	0.199 ^{2b}	0.0100 U	0.0100 U	0.0100 U	
Residual KMNO3	mg/L	NC	NC	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)			ND (0.25)	ND (0.25)	ND (0.25)	

Notes:

Injection started on October 26 and completed on November 18, 2011.

0.5% concentrated sodium thiosulfate and ferrous sulfate solution was injected in 56 DPT points

mg/L - milligram per liter

U - Non-detect at the associated value.

NC - No established Criteria

0.193^a - exceeds Type 1 Risk Reduction Standard (RRS)

0.193^b - exceeds Type 4 Risk Reduction Standard (RRS)

TABLE 1
PRE- AND POST-INJECTION PERFORMANCE MONITORING
ANALYTICAL RESULTS SUMMARY - OCTOBER - DECEMBER 2011
BIRDSONG PEANUT PROPERTY
COLQUITT, GEORGIA

Location ID:				MW-10	MW-10	MW-10	MW-10	MW-11	MW-11	MW-11	MW-11	MW-17D	MW-17D	MW-17D	MW-17D
Sample Name:				GW-100511-SAG-001	GW-112911-SAG-003	GW-122911-SAG-004	GW-031312-DJB-001	GW-100511-SAG-003	GW-112911-SAG-006	GW-122911-SAG-006	GW-031312-DJB-002	GW-100511-SAG-002	GW-112911-SAG-004	GW-112911-SAG-005	GW-122911-SAG-005
Sample Date:				10/5/2011	11/29/11	12/29/2011	3/13/2012	10/5/2011	11/29/11	12/29/2011	3/13/2012	10/5/2011	11/29/11	11/29/11	12/29/2011
Parameters	Units	Georgia HSRA RRS													
		Type 1	Type 4												
				a	b										
Metals(Total)															
Chromium	mg/L	0.1	NC	0.118 ^a	0.099	0.0884	0.0928	0.199 ^a	0.211 ^a	0.204 ^a	0.207 ^a	0.005 U	0.005 U	0.005 U	0.005 U
Chromium III (trivalent)	mg/L	0.01	153.3	0.0162 ^a	0.0100 U	0.0184 ^a	0.0128 ^a	0.0100 U	0.0433 ^a	0.0100 U	0.0433 ^a	0.0100 U	0.0100 U	0.0100 U	0.0100 U
Chromium VI (hexavalent)	mg/L	0.01	0.01	0.102 ^{ab}	0.0943 ^{ab}	0.0700 ^{ab}	0.080 ^{ab}	0.215 ^{ab}	0.168 ^{ab}	0.240 ^{ab}	0.163 J ^{ab}	0.0100 U	0.0100 U	0.0100 U	0.0100 U
Metals (Dissolved)															
Chromium (dissolved)	mg/L	0.1	NC	0.0988	0.0875	0.0792	0.0891	0.174 ^a	0.194 ^a	0.187 ^a	0.146 ^a	0.005 U	0.005 U	0.005 U	0.005 U
Chromium III (trivalent) (dissolved)	mg/L	0.01	153.3	0.0140 ^a	0.0100 U	0.0180 ^a	0.0100 U	0.0100 U	0.0259 ^a	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U
Chromium VI (hexavalent) (dissolved)	mg/L	0.01	0.01	0.0848 ^{ab}	0.0932 ^{ab}	0.0612 ^{ab}	0.080 ^{ab}	0.184 ^{ab}	0.168 ^{ab}	0.178 ^{ab}	0.217 J ^{ab}	0.0100 U	0.0100 U	0.0100 U	0.0100 U
Residual KMNO3	mg/L	NC	NC	ND (0.25)	ND (0.25)	ND (0.25)		ND (0.25)	ND (0.25)	ND (0.25)		ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)

Notes:

Injection started on October 26 and completed on November 18, 2011.

0.5% concentrated sodium thiosulfate and ferrous sulfate solution was injected i

mg/L - milligram per liter

U - Non-detect at the associated value.

NC - No established Criteria

0.193^a - exceeds Type 1 Risk Reduction Standard (RRS)

0.193^b - exceeds Type 4 Risk Reduction Standard (RRS)

TABLE 2

GROUNDWATER ELEVATIONS (MARCH 2012)
ANNUAL GROUNDWATER MONITORING AND SAMPLING
BIRDSONG PEANUT PROPERTY (HSI NO. 10710)
COLQUITT, GEORGIA

Well ID	Date	Top of Casing Elevation (feet AMSL)	Depth to Groundwater (feet below TOC)	Groundwater Elevation (feet AMSL)
MW-4	03/13/2012	92.70		92.70
MW-5	03/13/2012	95.57	18.57	77.00
MW-6	03/13/2012	94.26	16.97	77.29
MW-7D	03/13/2012	93.75	16.50	77.25
MW-8	03/13/2012	93.57	16.39	77.18
MW-9	03/13/2012	92.85	7.52	85.33
MW-10	03/13/2012	93.41	7.48	85.93
MW-11	03/13/2012	94.44	5.82	88.62
MW-12	03/13/2012	95.46	covered	—
MW-13	03/13/2012	93.76	8.47	85.29
MW-14	03/13/2012	96.72	6.22	90.50
MW-15	03/13/2012	93.30	7.75	85.55
MW-16	03/13/2012	96.34	covered	—
MW-17D	03/13/2012	93.40	16.18	77.22

Notes:

AMSL- Above Mean Sea Level

TOC- Top of Casing

Monitoring wells MW-12 and MW-16 not found

TABLE 3

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS (MARCH 2012)
ANNUAL GROUNDWATER MONITORING AND SAMPLING
BIRDSONG PEANUT PROPERTY (HSI NO. 10710)
COLQUITT, GEORGIA

		Sample Location:		MW-5	MW-6	MW-6	MW-10	MW-11
		Sample ID:	GW-031312-DJB-003	GW-031312-DJB-004	GW-031312-DJB-005	GW-031312-DJB-001	GW-031312-DJB-002	GW-031312-DJB-002
		Sample Date:	3/13/2012	3/13/2012	3/13/2012	3/13/2012	3/13/2012	3/13/2012
					Duplicate			
		Criteria						
Parameters	Units	Type 1 RRS	Type 4 RRS					
		a	b					
Total Metals								
Arsenic	mg/L	0.01	0.01	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Cadmium	mg/L	0.005	0.0511	0.0007 U	0.00951 ^a	0.00964 ^a	0.00405	0.00112
Chromium	mg/L	0.1	NC	0.005 U	0.189 ^a	0.192 ^a	0.0928	0.207 ^a
Copper	mg/L	1.3	4.09	0.002 U	0.00252	0.00265	0.0266	0.0053
Lead	mg/L	0.015	0.015	0.001 U	0.001 U	0.001 U	0.00118	0.00127
Manganese	mg/L	NC	NC	0.0408	0.212	0.216	14.5	0.685 J
Potassium	mg/L	NC	NC	1.22	56.5	57.7	475	121
Selenium	mg/L	0.05	0.511	0.005 U	0.005 U	0.005 U	0.0457	0.005 U
Silver	mg/L	0.1	0.511	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Dissolved Metals								
Arsenic (dissolved)	mg/L	0.01	0.01	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Cadmium (dissolved)	mg/L	0.005	0.0511	0.0007 U	0.00889 ^a	0.00862 ^a	0.00384	0.00102
Chromium Total (dissolved)	mg/L	0.1	NC	0.005 U	0.186 ^a	0.186 ^a	0.0891	0.144 ^a
Copper (dissolved)	mg/L	1.3	4.09	0.002 U	0.00203	0.002 U	0.023	0.00304
Lead (dissolved)	mg/L	0.015	0.015	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Manganese (dissolved)	mg/L	NC	NC	0.017	0.198	0.194	15	1.43 J
Potassium (dissolved)	mg/L	NC	NC	1.29	55.3	55.1	487	108
Selenium (dissolved)	mg/L	0.05	0.511	0.005 U	0.005 U	0.005 U	0.0389	0.005 U
Silver (dissolved)	mg/L	0.1	0.511	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Speciated Chromium								
Chromium III (trivalent)	mg/L	0.01	153	0.0100 U	0.0100 U	0.0100 U	0.0128 ^a	0.0433 ^a
Chromium III (trivalent) (dissolved)	mg/L	0.01	153	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U
Chromium VI (hexavalent)	mg/L	0.01	0.01	0.0100 U	0.193 ^{ab}	0.202 ^{ab}	0.0800 ^{ab}	0.163 J ^{ab}
Chromium VI (hexavalent) (dissolved)	mg/L	0.01	0.01	0.0100 U	0.193 ^{ab}	0.199 ^{ab}	0.0800 ^{ab}	0.217 J ^{ab}

Notes:

J - Estimated concentration.

NC - No criteria.

U - Not present at or above the associated value.

1. Exceedences of Georgia HSRA Type 1 RRS (a) and Type 4 RRS (b) are shaded, bordered and denoted in red, bold font with the appropriate superscript(s).

TABLE 4

SUMMARY OF HISTORICAL GROUNDWATER ANALYTICAL RESULTS
ANNUAL GROUNDWATER MONITORING AND SAMPLING
BIRDSONG PEANUT PROPERTY (HSI NO. 10710)
COLQUITT, GEORGIA

Sample Location:				MW-5	MW-5	MW-5	MW-5	MW-5	MW-6	MW-6	
Sample ID:				GW-030509-DJB-005	GW-032410-DJB-001	GW-032911-DJB-001	GW-032911-DJB-002	GW-031312-DJB-003	GW-030509-DJB-001	GW-030509-DJB-002	
Sample Date:				3/5/2009	3/24/2010	3/29/2011	3/29/2011 Duplicate	3/13/2012	3/5/2009	3/5/2009 Duplicate	
Parameters	Units	Criteria									
		Type 1 RRS a	Type 4 RRS b								
Total Metals											
Arsenic	mg/L	0.01	0.01	0.0500 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0500 U	0.0500 U	
Cadmium	mg/L	0.005	0.0511	0.0050 U	0.000126 J	0.0007 U	0.0007 U	0.0007 U	0.0004 J	0.0007 J	
Chromium	mg/L	0.1	NC	0.0057 J	0.0267	0.005 U	0.005 U	0.005 U	0.298 ^a	0.294 ^a	
Copper	mg/L	1.3	4.09	-	0.000288 J	0.002 U	0.002 U	0.002 U	-	-	
Lead	mg/L	0.015	0.015	0.0100 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0100 U	0.0100 U	
Manganese	mg/L	NC	NC	0.175 J	2.23	0.0502	0.0517	0.0408	4.05	4.07	
Potassium	mg/L	NC	NC	6.09	29.6	3.7	3.65	1.22	51.4	53.2	
Selenium	mg/L	0.05	0.511	0.0200 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0140 J	0.0156 J	
Silver	mg/L	0.1	0.511	0.0004 J	0.001 U	0.001 U	0.001 U	0.001 U	0.0100 U	0.0009 J	
Dissolved Metals											
Arsenic (dissolved)	mg/L	0.01	0.01	0.0500 U	0.00748 J	0.005 U	0.005 U	0.005 U	0.0500 U	-	
Cadmium (dissolved)	mg/L	0.005	0.0511	0.0050 U	0.0007 U	0.0007 U	0.0007 U	0.0007 U	0.0050 U	-	
Chromium Total (dissolved)	mg/L	0.1	NC	0.0056 J	0.0286 J	0.005 U	0.005 U	0.005 U	0.298 ^a	-	
Copper (dissolved)	mg/L	1.3	4.09	-	0.02 U	0.002 U	0.002 U	0.002 U	-	-	
Lead (dissolved)	mg/L	0.015	0.015	0.0100 U	0.01 U	0.001 U	0.001 U	0.001 U	0.0100 U	-	
Manganese (dissolved)	mg/L	NC	NC	0.376 J	1.46	0.005 U	0.005 U	0.017	3.42	-	
Potassium (dissolved)	mg/L	NC	NC	8.52	27.4	3.72	3.57	1.29	60.6	-	
Selenium (dissolved)	mg/L	0.05	0.511	0.0200 U	0.05 U	0.005 U	0.005 U	0.005 U	0.0200 U	-	
Silver (dissolved)	mg/L	0.1	0.511	0.0005 J	0.01 U	0.001 U	0.001 U	0.001 U	0.0007 J	-	
Speciated Chromium											
Chromium III (trivalent)	mg/L	0.01	153	-	0.0100 U	0.0100 U	0.0100 U	0.0100 U	-	-	
Chromium III (trivalent) (dissolved)	mg/L	0.01	153	-	0.00740 J	0.0100 U	0.0100 U	0.0100 U	-	-	
Chromium VI (hexavalent)	mg/L	0.01	0.01	-	0.0246 ^{ab}	0.0100 U	0.0100 U	0.0100 U	-	-	
Chromium VI (hexavalent) (dissolved)	mg/L	0.01	0.01	-	0.0212 ^{ab}	0.0100 U	0.0100 U	0.0100 U	-	-	

Notes:

J - Estimated concentration.

NC - No criteria.

U - Not present at or above the associated value.

1. Exceedences of Georgia HSRA Type 1 RRS (a) and Type 4 RRS (b) are shaded, bordered and denoted in red, bold font with the appropriate superscript.

TABLE 4

SUMMARY OF HISTORICAL GROUNDWATER ANALYTICAL RESULTS
ANNUAL GROUNDWATER MONITORING AND SAMPLING
BIRDSONG PEANUT PROPERTY (HSI NO. 10710)
COLQUITT, GEORGIA

Sample Location:				MW-6	MW-6	MW-6	MW-6	MW-6	MW-10	MW-10	
Sample ID:				GW-032410-DJB-004	GW-032410-DJB-005	GW-032911-DJB-005	GW-031312-DJB-004	GW-031312-DJB-005	GW-030509-DJB-003	GW-032410-DJB-002	
Sample Date:				3/24/2010	3/24/2010 Duplicate	3/29/2011	3/13/2012	3/13/2012 Duplicate	3/5/2009	3/24/2010	
Parameters	Units	Criteria									
		Type 1 RRS a	Type 4 RRS b								
Total Metals											
Arsenic	mg/L	0.01	0.01	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0500 U	0.005 U	
Cadmium	mg/L	0.005	0.0511	0.000692 J	0.00126	0.00223	0.00951 ^a	0.00964 ^a	0.0014 J	0.00938 ^a	
Chromium	mg/L	0.1	NC	0.172 ^a	0.172 ^a	0.217 ^a	0.189 ^a	0.192 ^a	0.0760	0.0866	
Copper	mg/L	1.3	4.09	0.000176 J	0.000229 J	0.002 U	0.00252	0.00265	-	0.00572	
Lead	mg/L	0.015	0.015	0.001 U	0.00018 J	0.001 U	0.001 U	0.001 U	0.0077 J	0.00125	
Manganese	mg/L	NC	NC	0.473	0.483	0.0718	0.212	0.216	1.31	4.01	
Potassium	mg/L	NC	NC	58.1	65.3	70.6	56.5	57.7	788	737	
Selenium	mg/L	0.05	0.511	0.005 U	0.000922 J	0.005 U	0.005 U	0.005 U	0.0586 ^a	0.0592 ^a	
Silver	mg/L	0.1	0.511	0.000219 J	0.000014 J	0.001 U	0.001 U	0.001 U	0.0100 U	0.000729 J	
Dissolved Metals											
Arsenic (dissolved)	mg/L	0.01	0.01	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0500 U	0.00251 J	
Cadmium (dissolved)	mg/L	0.005	0.0511	0.000444 J	0.000391 J	0.00133	0.00889 ^a	0.00862 ^a	0.0011 J	0.00489 J	
Chromium Total (dissolved)	mg/L	0.1	NC	0.16 ^a	0.165 ^a	0.209 ^a	0.186 ^a	0.186 ^a	0.0805	0.0923	
Copper (dissolved)	mg/L	1.3	4.09	0.002 U	0.002 U	0.00504	0.00203	0.002 U	-	0.02 U	
Lead (dissolved)	mg/L	0.015	0.015	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0031 J	0.01 U	
Manganese (dissolved)	mg/L	NC	NC	0.526	0.522	0.0213	0.198	0.194	0.880	1.34	
Potassium (dissolved)	mg/L	NC	NC	56.7	55.7	64.8	55.3	55.1	712	702	
Selenium (dissolved)	mg/L	0.05	0.511	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0527 ^a	0.0673 ^a	
Silver (dissolved)	mg/L	0.1	0.511	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0100 U	0.01 U	
Speciated Chromium											
Chromium III (trivalent)	mg/L	0.01	153	0.0100 U	0.0100 U	0.0248 ^a	0.0100 U	0.0100 U	-	0.0262 ^a	
Chromium III (trivalent) (dissolved)	mg/L	0.01	153	0.0100 U	0.0100 U	0.0178 ^a	0.0100 U	0.0100 U	-	0.0205 ^a	
Chromium VI (hexavalent)	mg/L	0.01	0.01	0.170 ^{ab}	0.174 ^{ab}	0.192 ^{ab}	0.193 ^{ab}	0.202 ^{ab}	-	0.0605 ^{ab}	
Chromium VI (hexavalent) (dissolved)	mg/L	0.01	0.01	0.172 ^{ab}	0.178 ^{ab}	0.191 ^{ab}	0.193 ^{ab}	0.199 ^{ab}	-	0.0718 ^{ab}	

Notes:

J - Estimated concentration.

NC - No criteria.

U - Not present at or above the associated value.

1. Exceedences of Georgia HSRA Type 1 RRS (a) and Type 4 RRS (b) are shaded, bordered and denoted in red, bold font with the appropriate superscript.

TABLE 4

SUMMARY OF HISTORICAL GROUNDWATER ANALYTICAL RESULTS
ANNUAL GROUNDWATER MONITORING AND SAMPLING
BIRDSONG PEANUT PROPERTY (HSI NO. 10710)
COLQUITT, GEORGIA

		Sample Location:		MW-10	MW-10	MW-11	MW-11	MW-11	MW-11
		Sample ID:		GW-032911-DJB-003	GW-031312-DJB-001	GW-030509-DJB-004	GW-032410-DJB-003	GW-032911-DJB-004	GW-031312-DJB-002
		Sample Date:		3/29/2011	3/13/2012	3/5/2009	3/24/2010	3/29/2011	3/13/2012
Parameters	Units	Criteria							
		Type 1 RRS	Type 4 RRS						
		a	b						
Total Metals									
Arsenic	mg/L	0.01	0.01	0.005 U	0.005 U	0.0500 U	0.005 U	0.005 U	0.005 U
Cadmium	mg/L	0.005	0.0511	0.00387	0.00405	0.0050 U	0.00144	0.00366	0.00112
Chromium	mg/L	0.1	NC	0.113^a	0.0928	0.279^a	0.266^a	0.163^a	0.207^a
Copper	mg/L	1.3	4.09	0.00701	0.0266	-	0.00908	0.00303	0.0053
Lead	mg/L	0.015	0.015	0.001 U	0.00118	0.0038 J	0.00144	0.001 U	0.00127
Manganese	mg/L	NC	NC	4.78	14.5	3.94	2.93	0.564	0.685 J
Potassium	mg/L	NC	NC	638	475	129	140	151	121
Selenium	mg/L	0.05	0.511	0.0441	0.0457	0.0151 J	0.00658	0.005 U	0.005 U
Silver	mg/L	0.1	0.511	0.001 U	0.001 U	0.0100 U	0.000031 J	0.001 U	0.001 U
Dissolved Metals									
Arsenic (dissolved)	mg/L	0.01	0.01	0.005 U	0.005 U	0.0500 U	0.05 U	0.005 U	0.005 U
Cadmium (dissolved)	mg/L	0.005	0.0511	0.00361	0.00384	0.0050 U	0.007 U	0.00148	0.00102
Chromium Total (dissolved)	mg/L	0.1	NC	0.102^a	0.0891	0.292^a	0.217^a	0.179^a	0.146^a
Copper (dissolved)	mg/L	1.3	4.09	0.00827	0.023	-	0.02 U	0.00697	0.00304
Lead (dissolved)	mg/L	0.015	0.015	0.001 U	0.001 U	0.0100 U	0.01 U	0.001 U	0.001 U
Manganese (dissolved)	mg/L	NC	NC	5.19	15	2.22	0.346	0.591	1.43 J
Potassium (dissolved)	mg/L	NC	NC	559	487	123	127	115	108
Selenium (dissolved)	mg/L	0.05	0.511	0.0433	0.0389	0.0200 U	0.05 U	0.005 U	0.005 U
Silver (dissolved)	mg/L	0.1	0.511	0.001 U	0.001 U	0.0100 U	0.01 U	0.001 U	0.001 U
Speciated Chromium									
Chromium III (trivalent)	mg/L	0.01	153	0.0218^a	0.0128^a	-	0.0100 U	0.0105^a	0.0433^a
Chromium III (trivalent) (dissolved)	mg/L	0.01	153	0.0145^a	0.0100 U	-	0.0222^a	0.0276^a	0.0100 U
Chromium VI (hexavalent)	mg/L	0.01	0.01	0.0909^{ab}	0.0800^{ab}	-	0.265^{ab}	0.152^{ab}	0.163 J^{ab}
Chromium VI (hexavalent) (dissolved)	mg/L	0.01	0.01	0.0874^{ab}	0.0800^{ab}	-	0.195^{ab}	0.151^{ab}	0.217 J^{ab}

Notes:
J - Estimated concentration.
NC - No criteria.
U - Not present at or above the associated value.
1. Exceedences of Georgia HSRA Type 1 RRS (a) and Type 4 RRS (b) are shaded, bordered and denoted in red, bold font with the appropriate superscript.

ATTACHMENTS

ATTACHMENT A

DAILY INJECTION DATA COLLECTION SHEET

Daily Injection Data Collection Sheet

Date:	10/25/2011		Data Taker:	Steven Grace			
Client:	MIHI		Site Name:	Birdsong Peanut			Page 1 of 20
Inj. Tool:	DPT						Location: Colquitt, GA
Pipe Diam:							
Fluid Injected:	Sodium Thiosulfate, Ferrous Sulfate		Fluid Conc.:	0.50%			
Time Start/Stop	Injection Point	Depth (ft bgs)	Flow rate (gpm or strokes/min)	Injection Pressure (psi)/Temp (deg)	Concen (%)	Volume (gal)	Notes (flow change, etc.)
15:09/15:13	D1	40-35	2.5 gpm	75-85 psi	0.50%	10	no flow 40-35
	D1	40-35	2.5 gpm	75-85 psi	0.50%	10	no flow 40-36, rods plugged
15:17/15:19	D2	35-30	2.5 gpm	75-85 psi	0.50%	10	no flow 40-36, rods plugged
	D2	35-30	2.5 gpm	75-85 psi	0.50%	10	no flow 40-36, rods plugged

Daily Injection Data Collection Sheet

Date: 10/26/2011
Client: MIHI
Inj. Tool: DPT
Pipe Diam:

Data Taker: Steven Grace
Site Name: Birdsong Peanut

Page 2 of 20
Location: Colquitt, GA

Fluid Injected: Sodium Thiosulfate, Ferrous Sulfate

Fluid Conc.: 0.50%

Time Start/Stop	Injection Point	Depth (ft bgs)	Flow rate (gpm or strokes/min)	Injection Pressure (psi)/Temp (deg)	Concen (%)	Volume (gal)	Notes (flow change, etc.)
8:47/9:05	D2	40	8.75 gpm	30 psi	0.50%	175	
9:05/9:25	D2	35	9 gpm	30 psi	0.50%	175	
9:31/9:54	D2	30	10 gpm	60 psi	0.50%	250	
9:57/10:14	D2	25	10 gpm	45-30 psi	0.50%	175	
10:15/10:37	D2	20	8.5 gpm	30 psi	0.50%	175	
10:41/10:48	D2	15	10 gpm	30 psi	0.50%	75	
							*1050 gal total into D2
11:23/11:49	E5	40	7.5 gpm	30 psi	0.50%	200	
11:52/12:14	E5	35	8 gpm	60 psi	0.50%	175	
12:15/12:46	E5	30	6 gpm	80 psi	0.50%	175	
12:51/13:09	E5	25	10 gpm	30 psi	0.50%	175	
13:13/13:26	E5	20	11.5 gpm	40 psi	0.50%	150	
13:28/13:50	E5	15	6.8 gpm	30 psi	0.50%	150	
							*1025 gal total into E5
14:32/14:57	B1	40	8 gpm	30 psi	0.50%	200	
15:00/15:20	B1	35	10 gpm	30 psi	0.50%	200	
15:22/15:42	B1	30	8.75 gpm	30 psi	0.50%	175	
15:54/16:13	B1	25	8.75 gpm	30 psi	0.50%	125	
16:14/16:45	B1	20	5 gpm	30 psi	0.50%	150	
16:47/17:00	B1	15	10 gpm	40 psi	0.50%	125	
							*1050 gal total into B1

Daily Injection Data Collection Sheet

Date: 10/27/2011
Client: MIHI
Inj. Tool: DPT
Pipe Diam:

Data Taker: Steven Grace
Site Name: Birdsong Peanut

Page 3 of 20
Location: Colquitt, GA

Fluid Injected: Sodium Thiosulfate, Ferrous Sulfate Fluid Conc.: 0.50%

Time Start/Stop	Injection Point	Depth (ft bgs)	Flow rate (gpm or strokes/min)	Injection Pressure (psi)/Temp (deg)	Concen (%)	Volume (gal)	Notes (flow change, etc.)
8:32/8:56	E2	40	7.3 gpm	30 psi	0.50%	175	
8:58/9:22	E2	35	10 gpm	30 psi	0.50%	175	
9:25/9:50	E2	30	8 gpm	40 psi	0.50%	200	
9:52/10:10	E2	25	10 gpm	30 psi	0.50%	175	
10:13/10:33	E2	20	9 gpm	30 psi	0.50%	175	
10:35/10:53	E2	15	8 gpm	30 psi	0.50%	150	
							*1050 gal total into E2
11:38/11:55	A1	35	10 gpm	30 psi	0.50%	175	lost 40' interval; tip struck
11:56/12:20	A1	30	7.3 gpm	30 psi	0.50%	175	
12:20/12:56	A1	25	10 gpm	30 psi	0.50%	350	
12:57/13:09	A1	20	13.5 gpm	30 psi	0.50%	175	
13:13/13:32	A1	15	8 gpm	30 psi	0.50%	175	
							*1050 gal total into A1
14:06/14:24	E1	40	10 gpm	30 psi	0.50%	175	
14:28/14:45	E1	35	10 gpm	30 psi	0.50%	175	
14:46/15:03	E1	30	10 gpm	30 psi	0.50%	175	
15:07/15:25	E1	25	10 gpm	30 psi	0.50%	175	
15:26/15:52	E1	20	6.75 gpm	30 psi	0.50%	175	
15:53/16:15	E1	15	7 gpm	30 psi	0.50%	175	
							*1050 gal total into E1

Daily Injection Data Collection Sheet

Date: 10/28/2011

Client: **MIHI**

Inj. Tool: DPT

Pipe Diam:

Data Taker: Steven Grace & David Brytowski

Site Name: Birdsong Peanut

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Location: Colquitt, GA

Sodium Thiosulfate, Ferrous

Fluid Injected: Sulfate

Fluid Conc.: 0.50%

Time Start/Stop	Injection Point	Depth (ft bgs)	Flow rate (gpm or strokes/min)	Injection Pressure (psi)/Temp (deg)	Concen (%)	Volume (gal)	Notes (flow change, etc.)
8:20/8:38	C1	40	10 gpm	30 psi	0.50%	175	
8:41/9:01	C1	35	10 gpm	30 psi	0.50%	200	
9:02/9:17	C1	30	11.5 gpm	30 psi	0.50%	175	
9:20/9:38	C1	25	10 gpm	30 psi	0.50%	175	
9:39/9:55	C1	20	11 gpm	30 psi	0.50%	175	
9:58/10:13	C1	15	9 gpm	30 psi	0.50%	175	
							*1025 gal total into C1
10:50/11:05	D1	40	11.5 gpm	30 psi	0.50%	175	
11:05/11:25	D1	35	8.8 gpm	30 psi	0.50%	175	
11:25/11:40	D1	30	11.5 gpm	30 psi	0.50%	175	
11:40/12:05	D1	25	7 gpm	30 psi	0.50%	175	
12:05/12:20	D1	20	11.5 gpm	30 psi	0.50%	175	
12:20/12:40	D1	15	8.8 gpm	30 psi	0.50%	175	
							*1050 gal total into D1
13:35/14:04	C2	40	5.8 gpm	30 psi	0.50%	175	
14:10/14:42	C2	35	5.5 gpm	30 psi	0.50%	175	
14:42/15:00	C2	30	9.7 gpm	30 psi	0.50%	175	
15:05/15:10	C2	25	15 gpm	30 psi	0.50%	75	daylighting @ 25'
15:20/15:25	C2	20	5 gpm	30 psi	0.50%	25	still daylighting @ 20'
							* 450 gal total into C2

Daily Injection Data Collection Sheet

Date: 10/29/2011
Client: MIHI
Inj. Tool: DPT
Pipe Diam:

Data Taker: David Brytowski
Site Name: Birdsong Peanut

Page 5 of 20
Location: Colquitt, GA

Fluid Injected: Sodium Thiosulfate, Ferrous Sulfate

Fluid Conc.: 0.50%

Time Start/Stop	Injection Point	Depth (ft bgs)	Flow rate (gpm or strokes/min)	Injection Pressure (psi)/Temp (deg)	Concent. (%)	Volume (gal)	Notes (flow change, etc.)
8:25/8:45	A3	40	8.8 gpm	30 psi	0.50%	175	
8:50/9:05	A3	35	11.7 gpm	30 psi	0.50%	175	
9:06/9:25	A3	30	9.2 gpm	30 psi	0.50%	175	
9:27/9:50	A3	25	8 gpm	30 psi	0.50%	175	
9:55/10:10	A3	20	11.6 gpm	30 psi	0.50%	175	
10:13/10:30	A3	15	10.3 gpm	30 psi	0.50%	175	
							*1050 gal total into A3
11:10/11:35	A5	40	7 gpm	30 psi	0.50%	175	
12:20/12:40	A5	35	10 gpm	30 psi	0.50%	175	
12:45/13:00	A5	30	10 gpm	30 psi	0.50%	200	
13:05/13:20	A5	25	11.6 gpm	30 psi	0.50%	150	
13:23/13:50	A5	20	11.5 gpm	30 psi	0.50%	175	
13:53/14:10	A5	15	10.3 gpm	30 psi	0.50%	175	
							*1050 gal total into A5
14:40/15:00	C4	40	8.8 gpm	30 psi	0.50%	175	
15:04/15:25	C4	35	8.8 gpm	30 psi	0.50%	175	
15:32/15:45	C4	30	8 gpm	30 psi	0.50%	175	
15:48/16:00	C4	25	14.5 gpm	30 psi	0.50%	175	
16:05/16:25	C4	20	8.8 gpm	30 psi	0.50%	175	
16:27/16:45	C4	20	9.7 gpm	30 psi	0.50%	175	
							* 1050 gal total into C4

Daily Injection Data Collection Sheet

Date: 10/30/2011

Client: MIHI

Inj. Tool: DPT

Pipe Diam:

Data Taker: David Brytowski

Site Name: Birdsong Peanut

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Location: Colquitt, GA

Fluid Injected: Sodium Thiosulfate, Ferrous Sulfate

Fluid Conc.: 0.50%

Time Start/Stop	Injection Point	Depth (ft bgs)	Flow rate (gpm or strokes/min)	Injection Pressure (psi)/Temp (deg)	Concen (%)	Volume (gal)	Notes (flow change, etc.)
8:40/9:20	B7	40	8.8 gpm	30 psi	0.50%	350	
9:22/10:10	B7	35	9.2 gpm	30 psi	0.50%	350	
10:14/10:45	B7	30	9.1 gpm	30 psi	0.50%	300	
10:46/11:30	B7	25	9.5 gpm	30 psi	0.50%	400	
11:33/12:10	B7	20	9.2 gpm	30 psi	0.50%	350	
12:12/12:50	B7	15	10.3 gpm	30 psi	0.50%	350	
							*2100 gal total into B7
13:30/13:50	E6	40	8.8 gpm	30 psi	0.50%	175	
13:52/14:10	E6	35	9.7 gpm	30 psi	0.50%	175	
14:14/14:30	E6	30	10.9 gpm	30 psi	0.50%	175	
14:33/14:50	E6	25	10.3 gpm	30 psi	0.50%	175	
14:53/15:10	E6	20	10.3 gpm	30 psi	0.50%	175	
15:13/15:35	E6	15	8 gpm	30 psi	0.50%	175	
							*1050 gal total into E6

Daily Injection Data Collection Sheet

Date: 10/30/2011
Client: MIHI
Inj. Tool: DPT
Pipe Diam:

Data Taker: David Brytowski
Site Name: Birdsong Peanut

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Location: Colquitt, GA

Fluid Injected: Sodium Thiosulfate, Ferrous Sulfate Fluid Conc.: 0.50%

Time Start/Stop	Injection Point	Depth (ft bgs)	Flow rate (gpm or strokes/min)	Injection Pressure (psi)/Temp (deg)	Concen (%)	Volume (gal)	Notes (flow change, etc.)
8:20/8:35	D5	40	11.7 gpm	30 psi	0.50%	175	
8:37/8:55	D5	35	9.7 gpm	30 psi	0.50%	175	
8:58/9:20	D5	30	8 gpm	30 psi	0.50%	175	
9:23/9:38	D5	25	11.7 gpm	30 psi	0.50%	175	
9:40/9:55	D5	20	11.7 gpm	30 psi	0.50%	175	
9:58/10:20	D5	15	8 gpm	30 psi	0.50%	175	
							*1050 gal total into D5
11:00/11:20	D8	40	8 gpm	30 psi	0.50%	175	
11:22/11:40	D8	35	9.7 gpm	30 psi	0.50%	175	
11:42/12:00	D8	30	9.7 gpm	30 psi	0.50%	175	
12:02/12:25	D8	25	8.7 gpm	30 psi	0.50%	200	
12:40/12:55	D8	20	10 gpm	30 psi	0.50%	150	
13:00/13:18	D8	15	9.7 gpm	30 psi	0.50%	175	
							*1050 gal total into D8
13:50/14:10	C5	40	8.8 gpm	30 psi	0.50%	175	
14:12/14:30	C5	35	9.7 gpm	30 psi	0.50%	175	
14:33/14:50	C5	30	10.3 gpm	30 psi	0.50%	175	
14:53/15:10	C5	25	10.3 gpm	30 psi	0.50%	175	
15:13/15:30	C5	20	10.3 gpm	30 psi	0.50%	175	
15:33/15:50	C5	15	11.8 gpm	30 psi	0.50%	200	
							*1100 gal total into C5

Daily Injection Data Collection Sheet

Date: 11/1/2011
Client: MIHI
Inj. Tool: DPT
Pipe Diam:

Data Taker: David Brytowski
Site Name: Birdsong Peanut

Page 8 of 20
Location: Colquitt, GA

Fluid Injected:	Sodium Thiosulfate, Ferrous Sulfate	Fluid Conc.:	0.50%
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Time Start/Stop	Injection Point	Depth (ft bgs)	Flow rate (gpm or strokes/min)	Injection Pressure (psi)/Temp (deg)	Concen (%)	Volume (gal)	Notes (flow change, etc.)
8:35/9:00	E3	40	7 gpm	30 psi	0.50%	175	
9:03/9:20	E3	35	10.3 gpm	30 psi	0.50%	175	
9:23/9:45	E3	30	8 gpm	30 psi	0.50%	175	
9:48/10:05	E3	25	10.3 gpm	30 psi	0.50%	175	
10:08/10:30	E3	20	8 gpm	30 psi	0.50%	175	
10:32/10:55	E3	15	7.6 gpm	30 psi	0.50%	175	
							*1050 gal total into E3
11:35/11:35	B2	40	0 gpm	0 psi	0.50%	0	no flow at 40'
11:40/12:15	B2	35	10 gpm	30 psi	0.50%	350	
12:20/12:40	B2	30	8.8 gpm	30 psi	0.50%	175	
12:42/13:00	B2	25	9.7 gpm	30 psi	0.50%	175	
13:03/13:30	B2	20	8.3 gpm	30 psi	0.50%	225	
13:35/13:40	B2	15	17.8 gpm	30 psi	0.50%	125	
							*1050 gal total into B2
14:15/14:35	D4	40	8.8 gpm	30 psi	0.50%	175	
14:37/14:55	D4	35	11.1 gpm	30 psi	0.50%	200	
15:00/15:10	D4	30	15 gpm	30 psi	0.50%	150	
15:12/15:30	D4	25	9.7 gpm	30 psi	0.50%	175	
15:35/15:55	D4	20	8.8 gpm	30 psi	0.50%	175	
15:57/16:15	D4	15	9.7 gpm	30 psi	0.50%	175	
							*1100 gal total into D4

Daily Injection Data Collection Sheet

Date: 11/2/2011
Client: MIHI
Inj. Tool: DPT
Pipe Diam:

Data Taker: David Brytowski
Site Name: Birdsong Peanut

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Location: Colquitt, GA

Fluid Injected: Sodium Thiosulfate, Ferrous Sulfate

Fluid Conc.: 0.50%

Time Start/Stop	Injection Point	Depth (ft bgs)	Flow rate (gpm or strokes/min)	Injection Pressure (psi)/Temp (deg)	Concen (%)	Volume (gal)	Notes (flow change, etc.)
8:20/8:20	D3	--	--	--	--	--	Refusal @ 17' and 16'
8:50/9:35	C3	15	6.6 gpm	30 psi	0.50%	300	Refusal @ 19'
							*300 gal total into C3
10:10/10:45	B3	40	8.6 gpm	30 psi	0.50%	300	
10:47/11:15	B3	35	11.6 gpm	30 psi	0.50%	325	
11:20/11:50	B3	30	103 gpm	30 psi	0.50%	300	
11:53/12:20	B3	25	11.1 gpm	30 psi	0.50%	300	
12:22/12:55	B3	20	9.1 gpm	30 psi	0.50%	300	
12:58/13:10	B3	15	14.6 gpm	30 psi	0.50%	175	
							*1700 gal total into B3
13:40/14:00	A2	40	8.8 gpm	30 psi	0.50%	175	
14:03/14:30	A2	35	6.5 gpm	30 psi	0.50%	175	
14:32/14:50	A2	30	9.7 gpm	30 psi	0.50%	175	
14:52/15:15	A2	25	8.7 gpm	30 psi	0.50%	200	
15:18/15:40	A2	20	8 gpm	30 psi	0.50%	175	
15:42/16:00	A2	15	9.7 gpm	30 psi	0.50%	175	
							*1075 gal total into A2

Daily Injection Data Collection Sheet

Date: 11/3/2011
Client: MIHI
Inj. Tool: DPT
Pipe Diam:

Data Taker: David Brytowski
Site Name: Birdsong Peanut

Page 10 of 20
Location: Colquitt, GA

Fluid Injected: Sodium Thiosulfate, Ferrous Sulfate

Fluid Conc.: 0.50%

Time Start/Stop	Injection Point	Depth (ft bgs)	Flow rate (gpm or strokes/min)	Injection Pressure (psi)/Temp (deg)	Concen (%)	Volume (gal)	Notes (flow change, etc.)
8:15/8:20	D6	40	--	--	--	--	No flow
8:25/9:00	D6	35	10 gpm	30 psi	0.50%	350	
9:05/9:22	D6	30	10.3 gpm	30 psi	0.50%	175	
9:25/9:40	D6	25	11.6 gpm	30 psi	0.50%	175	
9:43/9:55	D6	20	14.6 gpm	30 psi	0.50%	175	
9:57/10:45	D6	15	7.3 gpm	30 psi	0.50%	350	
							*1225 gal total into D6
11:15/11:15	E4	40	--	--	--	--	No flow
11:40/12:10	E4	35	12.5 gpm	30 psi	0.50%	375	
12:12/12:25	E4	30	13.5 gpm	30 psi	0.50%	175	
12:30/12:42	E4	25	14.5 gpm	30 psi	0.50%	175	
12:45/13:00	E4	20	11.6 gpm	30 psi	0.50%	175	
13:02/13:15	E4	15	13.5 gpm	30 psi	0.50%	175	
							*1075 gal total into E3

Daily Injection Data Collection Sheet

Date: 11/9/2011
Client: MIHI
Inj. Tool: DPT
Pipe Diam:

Data Taker: Steven Grace
Site Name: Birdsong Peanut

Page 11 of 20
Location: Colquitt, GA

Fluid Injected: Sodium Thiosulfate,
Ferrous Sulfate

Fluid Conc.: 0.50%

Time Start/Stop	Injection Point	Depth (ft bgs)	Flow rate (gpm or strokes/min)	Injection Pressure (psi)/Temp (deg)	Concent (%)	Volume (gal)	Notes (flow change, etc.)
13:37/14:43	C6	28	8 gpm	30 psi	0.50%	525	
14:44/15:00	C6	25	11.5 gpm	30 psi	0.50%	125	
15:04/15:27	C6	20	7.5 gpm	30 psi	0.50%	175	
15:28/15:50	C6	15	7.5 gpm	30 psi	0.50%	175	
							*1050 gal total into E3

Daily Injection Data Collection Sheet

Date: 11/10/2011
Client: MIHI
Inj. Tool: DPT
Pipe Diam:

Data Taker: Steven Grace
Site Name: Birdsong Peanut

Page 12 of 20
Location: Colquitt, GA

Fluid Injected: Sodium Thiosulfate, Ferrous Sulfate

Fluid Conc.: 0.50%

Time Start/Stop	Injection Point	Depth (ft bgs)	Flow rate (gpm or strokes/min)	Injection Pressure (psi)/Temp (deg)	Concen (%)	Volume (gal)	Notes (flow change, etc.)
8:20/8:50	B6	40	6.5 gpm	30 psi	0.50%	200	
9:04/9:25	B6	35	8.3 gpm	30 psi	0.50%	175	
9:29/9:50	B6	30	8.3 gpm	30 psi	0.50%	175	
9:53/10:12	B6	25	9.25 gpm	30 psi	0.50%	175	
10:15/10:33	B6	20	9.75 gpm	30 psi	0.50%	175	
10:34/10:49	B6	15	10 gpm	30 psi	0.50%	150	
							*1050 gal total into B6
11:32/11:48	E7	40	11 gpm	30 psi	0.50%	175	
11:51/12:05	E7	35	12.5 gpm	30 psi	0.50%	175	
12:25/12:42	E7	30	8.8 gpm	30 psi	0.50%	150	
12:45/13:02	E7	25	11.75 gpm	30 psi	0.50%	200	
13:10/13:26	E7	20	10.5 gpm	30 psi	0.50%	175	
13:27/13:44	E7	15	10 gpm	30 psi	0.50%	175	
							*1050 gal total into E7
14:32/14:49	D7	40	10 gpm	30 psi	0.50%	175	
14:50/15:05	D7	35	11.5 gpm	30 psi	0.50%	175	
15:07/15:23	D7	30	11 gpm	30 psi	0.50%	200	
15:25/15:43	D7	25	10 gpm	30 psi	0.50%	175	
15:45/16:00	D7	20	11.5 gpm	30 psi	0.50%	175	
16:01/16:16	D7	15	11.5 gpm	30 psi	0.50%	175	
							*1075 gal total into D7

Daily Injection Data Collection Sheet

Date: 11/11/2011
Client: MIHI
Inj. Tool: DPT
Pipe Diam:

Data Taker: Steven Grace
Site Name: Birdsong Peanut

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Location: Colquitt, GA

Fluid Injected: Sodium Thiosulfate, Ferrous Sulfate Fluid Conc.: 0.50%

Time Start/Stop	Injection Point	Depth (ft bgs)	Flow rate (gpm or strokes/min)	Injection Pressure (psi)/Temp (deg)	Concen (%)	Volume (gal)	Notes (flow change, etc.)
7:55/8:10	C7	40	11.5 gpm	30 psi	0.50%	175	
8:11/8:26	C7	35	11.5 gpm	30 psi	0.50%	175	
8:31/8:47	C7	30	11 gpm	30 psi	0.50%	175	
8:50/9:06	C7	25	11 gpm	30 psi	0.50%	200	
9:08/9:23	C7	20	11.5 gpm	30 psi	0.50%	175	
9:24/9:39	C7	15	11.5 gpm	30 psi	0.50%	150	
							*1050 gal total into C7
10:21/10:40	C8	40	9 gpm	30 psi	0.50%	175	
10:43/10:56	C8	35	11.75 gpm	30 psi	0.50%	175	
10:58/11:15	C8	30	10 gpm	30 psi	0.50%	175	
11:17/11:35	C8	25	10.5 gpm	30 psi	0.50%	200	
11:37/11:52	C8	20	13.3 gpm	30 psi	0.50%	200	
12:03/12:13	C8	15	12.5 gpm	30 psi	0.50%	125	
							*1050 gal total into C8
13:05/13:40	B8	36	10 gpm	30 psi	0.50%	350	
13:43/13:56	B8	30	13.5 gpm	30 psi	0.50%	175	
13:59/14:17	B8	35	10.5 gpm	30 psi	0.50%	200	
14:20/14:35	B8	20	11.5 gpm	30 psi	0.50%	175	
14:36/14:48	B8	15	12.5 gpm	30 psi	0.50%	150	
							*1050 gal total into B8
15:21/15:34	C9	40	13.5 gpm	30 psi	0.50%	175	
15:35/15:50	C9	35	11.5 gpm	30 psi	0.50%	175	
15:54/16:09	C9	30	11.5 gpm	30 psi	0.50%	175	
16:10/16:25	C9	25	11.5 gpm	30 psi	0.50%	175	
16:30/16:45	C9	20	11.5 gpm	30 psi	0.50%	175	
16:46/17:01	C9	15	11.5 gpm	30 psi	0.50%	175	
							*1050 gal total into C9

Daily Injection Data Collection Sheet

Date: 11/12/2011
Client: MIHI
Inj. Tool: DPT
Pipe Diam:

Data Taker: Steven Grace
Site Name: Birdsong Peanut

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Location: Colquitt, GA

Fluid Injected: Sodium Thiosulfate, Ferrous Sulfate Fluid Conc.: 0.50%

Time Start/Stop	Injection Point	Depth (ft bgs)	Flow rate (gpm or strokes/min)	Injection Pressure (psi)/Temp (deg)	Concen (%)	Volume (gal)	Notes (flow change, etc.)
8:00/8:25	B4	40	7 gpm	40 psi	0.50%	175	
8:26/8:43	B4	35	10 gpm	30 psi	0.50%	175	
8:46/9:04	B4	30	10 gpm	30 psi	0.50%	175	
9:08/9:25	B4	25	10 gpm	30 psi	0.50%	175	
9:28/9:45	B4	20	10 gpm	30 psi	0.50%	200	
9:46/10:00	B4	15	10.5 gpm	30 psi	0.50%	150	
							*1050 gal total into B4
10:37/11:00	B5	40	7.5 gpm	30 psi	0.50%	175	
11:01/11:22	B5	35	8 gpm	30 psi	0.50%	175	
11:25/11:41	B5	30	11 gpm	30 psi	0.50%	175	
11:44/12:01	B5	25	10 gpm	30 psi	0.50%	175	
12:05/12:24	B5	20	9 gpm	30 psi	0.50%	175	
12:25/12:43	B5	15	9 gpm	30 psi	0.50%	125	
							*1050 gal total into B5
13:20/13:35	A4	40	11.5 gpm	30 psi	0.50%	175	
13:37/13:52	A4	35	11.5 gpm	30 psi	0.50%	175	
13:55/14:11	A4	30	11 gpm	30 psi	0.50%	175	
14:14/14:27	A4	25	11 gpm	30 psi	0.50%	150	
14:30/14:48	A4	20	11 gpm	30 psi	0.50%	200	
14:49/14:58	A4	15	11 gpm	30 psi	0.50%	175	
							*1050 gal total into A4

Daily Injection Data Collection Sheet

Date: 11/13/2011
Client: MIHI
Inj. Tool: DPT
Pipe Diam:

Data Taker: Steven Grace
Site Name: Birdsong Peanut

Page 15 of 20
Location: Colquitt, GA

Fluid Injected: Sodium Thiosulfate, Ferrous Sulfate Fluid Conc.: 0.50%

Time Start/Stop	Injection Point	Depth (ft bgs)	Flow rate (gpm or strokes/min)	Injection Pressure (psi)/Temp (deg)	Concen (%)	Volume (gal)	Notes (flow change, etc.)
7:57/8:28	E9	40	6 gpm	30 psi	0.50%	175	
8:29/8:51	E9	35	8 gpm	30 psi	0.50%	175	
8:55/9:20	E9	30	7 gpm	30 psi	0.50%	175	
9:24/9:49	E9	25	7 gpm	30 psi	0.50%	175	
9:53/10:12	E9	20	9.5 gpm	30 psi	0.50%	175	
10:13/10:36	E9	15	7.5 gpm	30 psi	0.50%	175	
							*1050 gal total into E9
11:20/11:46	E10	35	6.5 gpm	30 psi	0.50%	175	
11:50/12:12	E10	30	8 gpm	30 psi	0.50%	175	
12:15/12:33	E10	25	10 gpm	30 psi	0.50%	175	
12:36/12:55	E10	20	9 gpm	30 psi	0.50%	175	
12:56/13:15	E10	15	9 gpm	30 psi	0.50%	175	
							*975 gal total into E10
13:34/14:06	E11	18	6.5 gpm	30 psi	0.50%	200	
14:07/14:38	E11	15	6 gpm	30 psi	0.50%	175	
							*375 gal total into E11
15:05/15:32	E12	40	6.5 gpm	30 psi	0.50%	175	
15:33/15:57	E12	35	7.5 gpm	30 psi	0.50%	175	
16:00/16:20	E12	30	9 gpm	30 psi	0.50%	175	
16:23/16:45	E12	25	8 gpm	30 psi	0.50%	175	
16:47/17:06	E12	20	8.5 gpm	30 psi	0.50%	175	
17:07/17:27	E12	15	10 gpm	30 psi	0.50%	200	
							*1075 gal total into E12

Daily Injection Data Collection Sheet

Date: 11/14/2011
Client: MIHI
Inj. Tool: DPT
Pipe Diam:

Data Taker: Steven Grace
Site Name: Birdsong Peanut

Page 16 of 20
Location: Colquitt, GA

Fluid Injected: Sodium Thiosulfate, Ferrous Sulfate

Fluid Conc.: 0.50%

Time Start/Stop	Injection Point	Depth (ft bgs)	Flow rate (gpm or strokes/min)	Injection Pressure (psi)/Temp (deg)	Concen (%)	Volume (gal)	Notes (flow change, etc.)
7:42/8:00	E8	40	12.5 gpm	30 psi	0.50%	225	
8:01/8:17	E8	35	11 gpm	30 psi	0.50%	175	
8:20/8:35	E8	30	11.5 gpm	30 psi	0.50%	175	
8:38/8:52	E8	25	12.5 gpm	30 psi	0.50%	175	
8:56/9:08	E8	20	12.5 gpm	30 psi	0.50%	150	
9:09/9:24	E8	15	10 gpm	30 psi	0.50%	150	
							*1050 gal total into E8
9:52/10:17	D9	35	8 gpm	30 psi	0.50%	200	
10:19/10:39	D9	30	8.5 gpm	30 psi	0.50%	175	
10:42/11:07	D9	25	9 gpm	30 psi	0.50%	225	
11:10/11:25	D9	20	10 gpm	30 psi	0.50%	150	
11:26/1:39	D9	15	11 gpm	30 psi	0.50%	150	
							*900 gal total into D9
12:28/12:46	D11	40	10 gpm	30 psi	0.50%	175	
12:52/13:07	D11	35	11.5 gpm	30 psi	0.50%	175	
13:12/13:29	D11	30	10.5 gpm	30 psi	0.50%	200	
13:32/13:48	D11	25	11 gpm	30 psi	0.50%	175	
13:51/14:05	D11	20	12 gpm	30 psi	0.50%	175	
14:06/14:19	D11	15	11.5 gpm	30 psi	0.50%	150	
							*1050 gal total into D11
14:46/15:07	C10	40	8 gpm	30 psi	0.50%	175	
15:08/15:36	C10	35	6 gpm	30 psi	0.50%	175	
15:39/16:02	C10	30	7.5 gpm	30 psi	0.50%	175	
16:05/16:24	C10	25	9 gpm	30 psi	0.50%	175	
16:27/16:43	C10	20	10.5 gpm	30 psi	0.50%	175	
16:44/17:03	C10	15	9.5 gpm	30 psi	0.50%	175	
							*1050 gal total into C10

Daily Injection Data Collection Sheet

Date: 11/15/2011
Client: MIHI
Inj. Tool: DPT
Pipe Diam:

Data Taker: Steven Grace
Site Name: Birdsong Peanut

Page 17 of 20
Location: Colquitt, GA

Fluid Injected: Sodium Thiosulfate, Ferrous Sulfate Fluid Conc.: 0.50%

Time Start/Stop	Injection Point	Depth (ft bgs)	Flow rate (gpm or strokes/min)	Injection Pressure (psi)/Temp (deg)	Concen (%)	Volume (gal)	Notes (flow change, etc.)
8:02/8:24	D12	40	6.5 gpm	30 psi	0.50%	175	
8:25/8:43	D12	35	8 gpm	30 psi	0.50%	150	
8:46/9:06	D12	30	10 gpm	30 psi	0.50%	200	
9:09/9:28	D12	25	9 gpm	30 psi	0.50%	175	
9:32/9:48	D12	20	11 gpm	30 psi	0.50%	175	
9:49/10:05	D12	15	11 gpm	30 psi	0.50%	175	
							*1050 gal total into D12
10:39/11:02	C12	40	8 gpm	30 psi	0.50%	175	
11:03/11:26	C12	35	8 gpm	30 psi	0.50%	175	
11:28/11:53	C12	30	7 gpm	30 psi	0.50%	175	
11:56/12:10	C12	25	10.5 gpm	30 psi	0.50%	175	
12:13/12:35	C12	20	8.5 gpm	30 psi	0.50%	175	
12:36/12:56	C12	15	9 gpm	30 psi	0.50%	175	
							*1050 gal total into C12
13:32/13:49	B12	40	10 gpm	30 psi	0.50%	175	
13:52/14:08	B12	35	10.5 gpm	30 psi	0.50%	175	
14:11/14:30	B12	30	19 gpm	30 psi	0.50%	175	
14:33/14:48	B12	25	13 gpm	30 psi	0.50%	200	
14:51/15:07	B12	20	10.5 gpm	30 psi	0.50%	175	
15:09/15:19	B12	15	15 gpm	30 psi	0.50%	150	
							*1050 gal total into B12

Daily Injection Data Collection Sheet

Date: 11/16/2011
Client: MIHI
Inj. Tool: DPT
Pipe Diam:

Data Taker: Steven Grace
Site Name: Birdsong Peanut

Page 18 of 20
Location: Colquitt, GA

Fluid Injected: Sodium Thiosulfate, Ferrous Sulfate Fluid Conc.: 0.50%

Time Start/Stop	Injection Point	Depth (ft bgs)	Flow rate (gpm or strokes/min)	Injection Pressure (psi)/Temp (deg)	Concen (%)	Volume (gal)	Notes (flow change, etc.)
7:56/8:24	C11	40	6.5 gpm	40 psi	0.50%	175	
8:25/8:44	C11	35	9 gpm	30 psi	0.50%	175	
8:46/9:08	C11	30	8.5 gpm	30 psi	0.50%	175	
9:11/9:32	C11	25	8.5 gpm	30 psi	0.50%	175	
9:35/9:53	C11	20	10.5 gpm	30 psi	0.50%	175	
9:54/10:10	C11	15	11.5 gpm	30 psi	0.50%	175	
							*1050 gal total into C11
10:43/11:05	A11	40	8.5 gpm	30 psi	0.50%	175	
11:06/11:22	A11	35	11.5 gpm	30 psi	0.50%	175	
11:25/11:44	A11	30	9 gpm	30 psi	0.50%	175	
11:46/11:59	A11	25	13 gpm	30 psi	0.50%	175	
12:03/12:20	A11	20	10 gpm	30 psi	0.50%	175	
12:21/12:37	A11	15	10.5 gpm	30 psi	0.50%	175	
							*1050 gal total into A11
13:05/13:20	B11	40	11.5 gpm	30 psi	0.50%	175	
13:21/13:37	B11	35	11 gpm	30 psi	0.50%	175	
13:39/13:56	B11	30	10 gpm	30 psi	0.50%	175	
13:58/14:13	B11	25	12.5 gpm	30 psi	0.50%	175	
14:18/14:34	B11	20	11 gpm	30 psi	0.50%	175	
14:35/14:53	B11	15	8 gpm	30 psi	0.50%	175	
							*1050 gal total into B11

Daily Injection Data Collection Sheet

Date: 11/17/2011
Client: MIHI
Inj. Tool: DPT
Pipe Diam:

Data Taker: Steven Grace
Site Name: Birdsong Peanut

Page 19 of 20
Location: Colquitt, GA

Fluid Injected:	Sodium Thiosulfate, Ferrous Sulfate	Fluid Conc.:	0.50%
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[illegible]

Daily Injection Data Collection Sheet

Date: 11/18/2011
Client: MIHI
Inj. Tool: DPT
Pipe Diam:

Data Taker: Steven Grace
Site Name: Birdsong Peanut

Page 20 of 20
Location: Colquitt, GA

Fluid Injected: Sodium Thiosulfate,
Ferrous Sulfate Fluid Conc.: 1.00%

[illegible]

ATTACHMENT B

RECORDS OF THE MONITORING WELL PURGING

RECORDS OF THE MONITORING WELL PURGING

LFP FORMS 10-2011

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Birdsong - Colquitt, GA
 Ref. No.: 18283

Date: 10/4/11 - 10/5/11
 Personnel: Steven Grace

Monitoring Well Data:

Well No.:	MW-6	Screen Length (ft):	5
Measurement Point:	TOC	Depth to Pump Intake (ft) ⁽¹⁾ :	53
Constructed Well Depth (ft):	55.00	Well Diameter, D (in):	2
Measured Well Depth (ft):		Well Screen Volume, V _s (mL):	
Depth of Sediment (ft):		Initial Depth to Water (ft):	27.11

	Pumping Rate	Depth to Water	Drawdown from Initial Water Level ⁽²⁾		Temperature	Conductivity	ORP	DO	Turbidity
Time	(mL/min)	(ft)	(ft)	pH	° C	(S/m)	(mV)	(mg/L)	(NTU)
16:15	100	27.13	0.02	7.03	30.27	1.31	148	2.23	36.0
16:20	100	27.15	0.04	7.38	31.29	1.29	129	0.63	32.2
16:25	100	27.16	0.05	7.36	31.25	1.40	122	0.35	29.3
16:30	100	27.17	0.06	7.37	31.29	1.39	114	0.39	27.1
16:35	100	27.17	0.06	7.37	31.43	1.38	111	0.42	26.6
16:40	100	27.18	0.07	7.38	31.48	1.38	106	0.36	23.9
16:45	100	27.19	0.08	7.37	31.45	1.38	104	0.34	21.7
16:50	100	27.19	0.08	7.39	31.51	1.39	101	0.33	22.8
11:40 and 11:50	Sample Time								
Sample ID:	GW-100511-SAG-005 and Duplicate GW-100511-SAG-006								
	Total Chrome (Incl. Trivalent) bot total and Dissolved, Hex Chrome total and dissolved, permanganate								

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.
- (2) The drawdown from the initial water level should not exceed 0.3 ft.
- (3) This well was purged 10/4/11 due to short hold times for Hexavalent Chrome

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Birdsong - Colquitt, GA
 Ref. No.: 18283

Date: 10/4/11 - 10/5/11
 Personnel: Steven Grace

Monitoring Well Data:

Well No.: MW-7D Screen Length (ft): 5'
 Measurement Point: TOC Depth to Pump Intake (ft)⁽¹⁾: 75'
 Constructed Well Depth (ft): 78 Well Diameter, D (in): 2"
 Measured Well Depth (ft): _____ Well Screen Volume, V_s (mL): _____
 Depth of Sediment (ft): _____ Initial Depth to Water (ft): 26.60

	Pumping Rate	Depth to Water	Drawdown from Initial Water Level ⁽²⁾		Temperature	Conductivity	ORP	DO	Turbidity
Time	(mL/inin)	(ft)	(ft)	pH	° C	(S/m)	(mV)	(mg/L)	(NTU)
15:25	100	26.60	0.00	6.91	26.04	0.337	1856	2.94	1.89
15:30	100	26.60	0.00	5.81	28.21	0.356	214	1.88	0.00
15:35	100	26.60	0.00	6.22	28.35	0.333	188	1.25	0.01
15:40	100	26.60	0.00	6.08	28.44	0.326	195	1.02	0.00
15:45	100	26.60	0.00	6.01	28.52	0.319	199	0.91	0.21
15:50	100	26.60	0.00	6.01	28.60	0.317	199	0.88	0.00
15:55	100	26.60	0.00	6.01	28.65	0.315	197	0.85	0.00
11:15	Sample Time								
Sample ID:	GW-100511-SAG-004								
	Total Chrome (Incl. Trivalent) bot total and Dissolved, Hex Chrome total and dissolved, permanganate								

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.
- (2) The drawdown from the initial water level should not exceed 0.3 ft.
- (3) This well was purged 10/4/11 due to short hold times for Hexavalent Chrome and sample 10/5/11

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Birdsong - Colquitt, GA

Date: October 5, 2011

Ref. No.: 18283

Personnel: Steven Grace

Monitoring Well Data:

Well No.: MW-10

Screen Length (ft): 10'

Measurement Point: TOC

Depth to Pump Intake (ft)⁽¹⁾: 25'

Constructed Well Depth (ft): 29'

Well Diameter, D (in): 1"

Measured Well Depth (ft):

Well Screen Volume, V_s (mL):

Depth of Sediment (ft):

Initial Depth to Water (ft): 18.02

Time	Pumping	Depth to	Drawdown	pH	Temperature	Conductivity	ORP	DO	Turbidity
	Rate	Water	from Initial						
	(mL/min)	(ft)	(ft)		° C	(S/m)	(mV)	(mg/L)	(NTU)
8:10	80	18.34	0.32	5.73	18.30	11.2	265	3.61	334
8:15	80	18.38	0.36	5.31	20.02	12.0	273	0.90	425
8:20	80	18.40	0.38	5.33	20.35	11.9	269	0.85	617
8:25	80	18.40	0.38	5.60	20.88	10.0	255	0.74	607
8:30	80	18.40	0.38	5.75	21.53	7.86	247	0.76	385
8:35	80	18.40	0.38	5.72	21.79	7.80	246	0.77	319
8:40	80	18.40	0.38	5.71	22.06	7.81	247	0.77	323
8:45	80	18.40	0.38	5.70	22.21	7.83	247	0.78	317
8:50	Sample Time								
Sample ID:	GW-100511-SAG-001								
	Total Chrome (Incl. Trivalent) bot total and Dissolved, Hex Chrome total and dissolved, permanganate								

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.
- (2) The drawdown from the initial water level should not exceed 0.3 ft.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Birdsong - Colquitt, GA
 Ref. No.: 18283

Date: 10/4/11 - 10/5/11
 Personnel: Steven Grace

Monitoring Well Data:

Well No.: MW-11
 Measurement Point: TOC
 Constructed Well Depth (ft): 30.00
 Measured Well Depth (ft):
 Depth of Sediment (ft):
 Screen Length (ft): 10'
 Depth to Pump Intake (ft)⁽¹⁾: 25' - 30'
 Well Diameter, D (in): 1"
 Well Screen Volume, V_s (mL):
 Initial Depth to Water (ft): 15.95

	Pumping Rate	Depth to Water	Drawdown from Initial Water Level ⁽²⁾		Temperature	Conductivity	ORP	DO	Turbidity
Time	(mL/min)	(ft)	(ft)	pH	° C	(S/m)	(mV)	(mg/L)	(NTU)
17:10	75	19.60	3.65	7.03	30.27	1.31	148	2.23	36.0
17:15	75	20.82	4.87	7.38	31.29	1.29	129	0.63	32.2
17:20	75	22.83	6.88	7.36	31.25	1.40	122	0.35	29.3
17:25	75	25.87	9.92	7.37	31.29	1.39	114	0.39	27.1
17:30	75	26.97	11.02	7.37	31.43	1.38	111	0.42	26.6
17:32	75	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
10:40	Sample Time								
Sample ID:	GW-100511-SAG-003								
	Total Chrome (Incl. Trivalent) bot total and Dissolved, Hex Chrome total and dissolved, permanganate								

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.
- (2) The drawdown from the initial water level should not exceed 0.3 ft.
- (3) This well was purged 10/4/11 due to short hold times for Hexavalent Chrome

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Birdsong - Colquitt, GA
 Ref. No.: 18283

Date: October 5, 2011
 Personnel: Steven Grace

Monitoring Well Data:

Well No.: MW-17D Screen Length (ft): 10'
 Measurement Point: TOC Depth to Pump Intake (ft)⁽¹⁾: 69'
 Constructed Well Depth (ft): 74' Well Diameter, D (in): 2"
 Measured Well Depth (ft): _____ Well Screen Volume, V_s (mL): _____
 Depth of Sediment (ft): _____ Initial Depth to Water (ft): 26.25

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽²⁾ (ft)	pH	Temperature ° C	Conductivity (S/m)	ORP (mV)	DO (mg/L)	Turbidity (NTU)
9:15	100	26.28	0.03	6.65	22.66	0.484	179	3.96	12.4
9:20	100	26.28	0.03	6.92	23.07	0.421	160	1.89	7.29
9:25	100	26.28	0.03	7.11	23.44	0.365	154	1.68	3.43
9:30	100	26.28	0.03	7.21	23.74	0.333	144	0.89	0.91
9:35	100	26.28	0.03	7.25	23.99	0.334	137	0.75	1.79
9:40	100	26.28	0.03	7.27	24.22	0.328	130	0.67	0.00
9:45	100	26.28	0.03	7.28	24.49	0.322	124	0.62	0.00
9:50	100	26.28	0.03	7.29	24.77	0.320	121	0.66	0.00
9:55	100	26.28	0.03	7.30	24.98	0.320	120	0.63	0.00
10:00	Sample Time								
Sample ID: <u>GW-100511-SAG-002</u>									
Total Chrome (Incl. Trivalent) bot total and Dissolved, Hex Chrome total and dissolved, permanganate									

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.
- (2) The drawdown from the initial water level should not exceed 0.3 ft.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Birdsong - Colquitt, GA
 Ref. No.: 18283

Date: 10/4/11 - 10/5/11
 Personnel: Steven Grace

Monitoring Well Data:

Well No.:	MW-6	Screen Length (ft):	5
Measurement Point:	TOC	Depth to Pump Intake (ft) ⁽¹⁾ :	53
Constructed Well Depth (ft):	55.00	Well Diameter, D (in):	2
Measured Well Depth (ft):		Well Screen Volume, V _s (mL):	
Depth of Sediment (ft):		Initial Depth to Water (ft):	27.11

Time	Pumping	Depth to	Drawdown	pH	Temperature	Conductivity	ORP	DO	Turbidity
	Rate	Water	from Initial						
	(mL/min)	(ft)	Water Level ⁽²⁾		° C	(S/m)	(mV)	(mg/L)	(NTU)
16:15	100	27.13	0.02	7.03	30.27	1.31	148	2.23	36.0
16:20	100	27.15	0.04	7.38	31.29	1.29	129	0.63	32.2
16:25	100	27.16	0.05	7.36	31.25	1.40	122	0.35	29.3
16:30	100	27.17	0.06	7.37	31.29	1.39	114	0.39	27.1
16:35	100	27.17	0.06	7.37	31.43	1.38	111	0.42	26.6
16:40	100	27.18	0.07	7.38	31.48	1.38	106	0.36	23.9
16:45	100	27.19	0.08	7.37	31.45	1.38	104	0.34	21.7
16:50	100	27.19	0.08	7.39	31.51	1.39	101	0.33	22.8
11:40 and 11:50	Sample Time								
Sample ID:	GW-100511-SAG-005 and Duplicate GW-100511-SAG-006								
	Total Chrome (Incl. Trivalent) bot total and Dissolved, Hex Chrome total and dissolved, permanganate								

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.
- (2) The drawdown from the initial water level should not exceed 0.3 ft.
- (3) This well was purged 10/4/11 due to short hold times for Hexavalent Chrome

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Birdsong - Colquitt, GA
 Ref. No.: 18283

Date: 10/4/11 - 10/5/11
 Personnel: Steven Grace

Monitoring Well Data:

Well No.: MW-7D Screen Length (ft): 5'
 Measurement Point: TOC Depth to Pump Intake (ft)⁽¹⁾: 75'
 Constructed Well Depth (ft): 78 Well Diameter, D (in): 2"
 Measured Well Depth (ft): Well Screen Volume, V_s (mL):
 Depth of Sediment (ft): Initial Depth to Water (ft): 26.60

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽²⁾ (ft)	pH	Temperature °C	Conductivity (S/m)	ORP (mV)	DO (mg/L)	Turbidity (NTU)
15:25	100	26.60	0.00	6.91	26.04	0.337	1856	2.94	1.89
15:30	100	26.60	0.00	5.81	28.21	0.356	214	1.88	0.00
15:35	100	26.60	0.00	6.22	28.35	0.333	188	1.25	0.01
15:40	100	26.60	0.00	6.08	28.44	0.326	195	1.02	0.00
15:45	100	26.60	0.00	6.01	28.52	0.319	199	0.91	0.21
15:50	100	26.60	0.00	6.01	28.60	0.317	199	0.88	0.00
15:55	100	26.60	0.00	6.01	28.65	0.315	197	0.85	0.00
11:15	Sample Time								
Sample ID: GW-100511-SAG-004									
Total Chrome (Incl. Trivalent) bot total and Dissolved, Hex Chrome total and dissolved, permanganate									

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.
- (2) The drawdown from the initial water level should not exceed 0.3 ft.
- (3) This well was purged 10/4/11 due to short hold times for Hexavalent Chrome and sample 10/5/11

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Birdsong - Colquitt, GA
 Ref. No.: 18283

Date: October 5, 2011
 Personnel: Steven Grace

Monitoring Well Data:

Well No.: MW-10 Screen Length (ft): 10'
 Measurement Point: TOC Depth to Pump Intake (ft)⁽¹⁾: 25'
 Constructed Well Depth (ft): 29' Well Diameter, D (in): 1"
 Measured Well Depth (ft): Well Screen Volume, V_s (mL):
 Depth of Sediment (ft): Initial Depth to Water (ft): 18.02

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽²⁾ (ft)	pH	Temperature ° C	Conductivity (S/m)	ORP (mV)	DO (mg/L)	Turbidity (NTU)
8:10	80	18.34	0.32	5.73	18.30	11.2	265	3.61	334
8:15	80	18.38	0.36	5.31	20.02	12.0	273	0.90	425
8:20	80	18.40	0.38	5.33	20.35	11.9	269	0.85	617
8:25	80	18.40	0.38	5.60	20.88	10.0	255	0.74	607
8:30	80	18.40	0.38	5.75	21.53	7.86	247	0.76	385
8:35	80	18.40	0.38	5.72	21.79	7.80	246	0.77	319
8:40	80	18.40	0.38	5.71	22.06	7.81	247	0.77	323
8:45	80	18.40	0.38	5.70	22.21	7.83	247	0.78	317
8:50	Sample Time								
Sample ID: GW-100511-SAG-001									
Total Chrome (Incl. Trivalent) bot total and Dissolved, Hex Chrome total and dissolved, permanganate									

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.
- (2) The drawdown from the initial water level should not exceed 0.3 ft.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Birdsong - Colquitt, GA

Ref. No.: 18283

Date: 10/4/11 - 10/5/11

Personnel: Steven Grace

Monitoring Well Data:

Well No.: MW-11

Screen Length (ft): 10'

Measurement Point: TOC

Depth to Pump Intake (ft)⁽¹⁾: 25' - 30'

Constructed Well Depth (ft): 30.00

Well Diameter, D (in): 1"

Measured Well Depth (ft):

Well Screen Volume, V_s (mL):

Depth of Sediment (ft):

Initial Depth to Water (ft): 15.95

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽²⁾ (ft)	pH	Temperature °C	Conductivity (S/m)	ORP (mV)	DO (mg/L)	Turbidity (NTU)
17:10	75	19.60	3.65	7.03	30.27	1.31	148	2.23	36.0
17:15	75	20.82	4.87	7.38	31.29	1.29	129	0.63	32.2
17:20	75	22.83	6.88	7.36	31.25	1.40	122	0.35	29.3
17:25	75	25.87	9.92	7.37	31.29	1.39	114	0.39	27.1
17:30	75	26.97	11.02	7.37	31.43	1.38	111	0.42	26.6
17:32	75	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
10:40	Sample Time								
Sample ID: GW-100511-SAG-003									
Total Chrome (Incl. Trivalent) bot total and Dissolved, Hex Chrome total and dissolved, permanganate									

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.
- (2) The drawdown from the initial water level should not exceed 0.3 ft.
- (3) This well was purged 10/4/11 due to short hold times for Hexavalent Chrome

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Birdsong - Colquitt, GA

Date: October 5, 2011

Ref. No.: 18283

Personnel: Steven Grace

Monitoring Well Data:

Well No.: MW-17D

Screen Length (ft): 10'

Measurement Point: TOC

Depth to Pump Intake (ft)⁽¹⁾: 69'

Constructed Well Depth (ft): 74'

Well Diameter, D (in): 2"

Measured Well Depth (ft): _____

Well Screen Volume, V_s (mL): _____

Depth of Sediment (ft): _____

Initial Depth to Water (ft): 26.25

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽²⁾ (ft)	pH	Temperature °C	Conductivity (S/m)	ORP (mV)	DO (mg/L)	Turbidity (NTU)
9:15	100	26.28	0.03	6.65	22.66	0.484	179	3.96	12.4
9:20	100	26.28	0.03	6.92	23.07	0.421	160	1.89	7.29
9:25	100	26.28	0.03	7.11	23.44	0.365	154	1.68	3.43
9:30	100	26.28	0.03	7.21	23.74	0.333	144	0.89	0.91
9:35	100	26.28	0.03	7.25	23.99	0.334	137	0.75	1.79
9:40	100	26.28	0.03	7.27	24.22	0.328	130	0.67	0.00
9:45	100	26.28	0.03	7.28	24.49	0.322	124	0.62	0.00
9:50	100	26.28	0.03	7.29	24.77	0.320	121	0.66	0.00
9:55	100	26.28	0.03	7.30	24.98	0.320	120	0.63	0.00
10:00	Sample Time								
Sample ID: <u>GW-100511-SAG-002</u>									
Total Chrome (Incl. Trivalent) bot total and Dissolved, Hex Chrome total and dissolved, permanganate									

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.
- (2) The drawdown from the initial water level should not exceed 0.3 ft.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Birdsong - Colquitt, GA
 Ref. No.: 18283

Date: 10/4/11 - 10/5/11
 Personnel: Steven Grace

Monitoring Well Data:

Well No.:	<u>MW-6</u>	Screen Length (ft):	<u>5</u>
Measurement Point:	<u>TOC</u>	Depth to Pump Intake (ft) ⁽¹⁾ :	<u>53</u>
Constructed Well Depth (ft):	<u>55.00</u>	Well Diameter, D (in):	<u>2</u>
Measured Well Depth (ft):	<u></u>	Well Screen Volume, V _s (mL):	<u></u>
Depth of Sediment (ft):	<u></u>	Initial Depth to Water (ft):	<u>27.11</u>

	Pumping Rate	Depth to Water	Drawdown from Initial Water Level ⁽²⁾		Temperature	Conductivity	ORP	DO	Turbidity
Time	(mL/min)	(ft)	(ft)	pH	° C	(S/m)	(mV)	(mg/L)	(NTU)
16:15	100	27.13	0.02	7.03	30.27	1.31	148	2.23	36.0
16:20	100	27.15	0.04	7.38	31.29	1.29	129	0.63	32.2
16:25	100	27.16	0.05	7.36	31.25	1.40	122	0.35	29.3
16:30	100	27.17	0.06	7.37	31.29	1.39	114	0.39	27.1
16:35	100	27.17	0.06	7.37	31.43	1.38	111	0.42	26.6
16:40	100	27.18	0.07	7.38	31.48	1.38	106	0.36	23.9
16:45	100	27.19	0.08	7.37	31.45	1.38	104	0.34	21.7
16:50	100	27.19	0.08	7.39	31.51	1.39	101	0.33	22.8
11:40 and 11:50	Sample Time								
Sample ID:	GW-100511-SAG-005 and Duplicate GW-100511-SAG-006								
	Total Chrome (Incl. Trivalent) bot total and Dissolved, Hex Chrome total and dissolved, permanganate								

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.
- (2) The drawdown from the initial water level should not exceed 0.3 ft.
- (3) This well was purged 10/4/11 due to short hold times for Hexavalent Chrome

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Birdsong - Colquitt, GA
Ref. No.: 18283

Date: 10/4/11 - 10/5/11
Personnel: Steven Grace

Monitoring Well Data:

Well No.: MW-7D Screen Length (ft): 5'
Measurement Point: TOC Depth to Pump Intake (ft)⁽¹⁾: 75'
Constructed Well Depth (ft): 78 Well Diameter, D (in): 2"
Measured Well Depth (ft): Well Screen Volume, V_s (mL):
Depth of Sediment (ft): Initial Depth to Water (ft): 26.60

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽²⁾ (ft)	pH	Temperature °C	Conductivity (S/m)	ORP (mV)	DO (mg/L)	Turbidity (NTU)
15:25	100	26.60	0.00	6.91	26.04	0.337	1856	2.94	1.89
15:30	100	26.60	0.00	5.81	28.21	0.356	214	1.88	0.00
15:35	100	26.60	0.00	6.22	28.35	0.333	188	1.25	0.01
15:40	100	26.60	0.00	6.08	28.44	0.326	195	1.02	0.00
15:45	100	26.60	0.00	6.01	28.52	0.319	199	0.91	0.21
15:50	100	26.60	0.00	6.01	28.60	0.317	199	0.88	0.00
15:55	100	26.60	0.00	6.01	28.65	0.315	197	0.85	0.00
11:15	Sample Time								
Sample ID: GW-100511-SAG-004									
Total Chrome (Incl. Trivalent) bot total and Dissolved, Hex Chrome total and dissolved, permanganate									

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.
- (2) The drawdown from the initial water level should not exceed 0.3 ft.
- (3) This well was purged 10/4/11 due to short hold times for Hexavalent Chrome and sample 10/5/11

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Birdsong - Colquitt, GA
 Ref. No.: 18283

Date: October 5, 2011
 Personnel: Steven Grace

Monitoring Well Data:

Well No.: MW-10 Screen Length (ft): 10'
 Measurement Point: TOC Depth to Pump Intake (ft)⁽¹⁾: 25'
 Constructed Well Depth (ft): 29' Well Diameter, D (in): 1"
 Measured Well Depth (ft): Well Screen Volume, V_s (mL):
 Depth of Sediment (ft): Initial Depth to Water (ft): 18.02

Time	Pumping	Depth to	Drawdown	pH	Temperature	Conductivity	ORP	DO	Turbidity
	Rate	Water	from Initial						
	(mL/min)	(ft)	(ft)		° C	(S/m)	(mV)	(mg/L)	(NTU)
8:10	80	18.34	0.32	5.73	18.30	11.2	265	3.61	334
8:15	80	18.38	0.36	5.31	20.02	12.0	273	0.90	425
8:20	80	18.40	0.38	5.33	20.35	11.9	269	0.85	617
8:25	80	18.40	0.38	5.60	20.88	10.0	255	0.74	607
8:30	80	18.40	0.38	5.75	21.53	7.86	247	0.76	385
8:35	80	18.40	0.38	5.72	21.79	7.80	246	0.77	319
8:40	80	18.40	0.38	5.71	22.06	7.81	247	0.77	323
8:45	80	18.40	0.38	5.70	22.21	7.83	247	0.78	317
8:50	Sample Time								
Sample ID:	GW-100511-SAG-001								
	Total Chrome (Incl. Trivalent) bot total and Dissolved, Hex Chrome total and dissolved, permanganate								

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.
- (2) The drawdown from the initial water level should not exceed 0.3 ft.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Birdsong - Colquitt, GA
 Ref. No.: 18283

Date: 10/4/11 - 10/5/11
 Personnel: Steven Grace

Monitoring Well Data:

Well No.: MW-11
 Measurement Point: TOC
 Constructed Well Depth (ft): 30.00
 Measured Well Depth (ft):
 Depth of Sediment (ft):

Screen Length (ft): 10'
 Depth to Pump Intake (ft)⁽¹⁾: 25' - 30'
 Well Diameter, D (in): 1"
 Well Screen Volume, V_s (mL):
 Initial Depth to Water (ft): 15.95

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽²⁾		pH	Temperature °C	Conductivity (S/m)	ORP (mV)	DO (mg/L)	Turbidity (NTU)
			Depth to Water (ft)	Drawdown (ft)						
17:10	75	19.60		3.65	7.03	30.27	1.31	148	2.23	36.0
17:15	75	20.82		4.87	7.38	31.29	1.29	129	0.63	32.2
17:20	75	22.83		6.88	7.36	31.25	1.40	122	0.35	29.3
17:25	75	25.87		9.92	7.37	31.29	1.39	114	0.39	27.1
17:30	75	26.97		11.02	7.37	31.43	1.38	111	0.42	26.6
17:32	75	DRY		DRY	DRY	DRY	DRY	DRY	DRY	DRY
10:40	Sample Time									
Sample ID:	GW-100511-SAG-003									
	Total Chrome (Incl. Trivalent) bot total and Dissolved, Hex Chrome total and dissolved, permanganate									

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.
- (2) The drawdown from the initial water level should not exceed 0.3 ft.
- (3) This well was purged 10/4/11 due to short hold times for Hexavalent Chrome

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Birdsong - Colquitt, GA
 Ref. No.: 18283

Date: October 5, 2011
 Personnel: Steven Grace

Monitoring Well Data:

Well No.: MW-17D Screen Length (ft): 10'
 Measurement Point: TOC Depth to Pump Intake (ft)⁽¹⁾: 69'
 Constructed Well Depth (ft): 74' Well Diameter, D (in): 2"
 Measured Well Depth (ft): _____ Well Screen Volume, V_s (mL): _____
 Depth of Sediment (ft): _____ Initial Depth to Water (ft): 26.25

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽²⁾ (ft)	pH	Temperature ° C	Conductivity (S/m)	ORP (mV)	DO (mg/L)	Turbidity (NTU)
9:15	100	26.28	0.03	6.65	22.66	0.484	179	3.96	12.4
9:20	100	26.28	0.03	6.92	23.07	0.421	160	1.89	7.29
9:25	100	26.28	0.03	7.11	23.44	0.365	154	1.68	3.43
9:30	100	26.28	0.03	7.21	23.74	0.333	144	0.89	0.91
9:35	100	26.28	0.03	7.25	23.99	0.334	137	0.75	1.79
9:40	100	26.28	0.03	7.27	24.22	0.328	130	0.67	0.00
9:45	100	26.28	0.03	7.28	24.49	0.322	124	0.62	0.00
9:50	100	26.28	0.03	7.29	24.77	0.320	121	0.66	0.00
9:55	100	26.28	0.03	7.30	24.98	0.320	120	0.63	0.00
10:00	Sample Time								
Sample ID: <u>GW-100511-SAG-002</u>									
Total Chrome (Incl. Trivalent) bot total and Dissolved, Hex Chrome total and dissolved, permanganate									

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.
- (2) The drawdown from the initial water level should not exceed 0.3 ft.

RECORDS OF THE MONITORING WELL PURGING

LFP FORMS 11-2011

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Birdsong - Colquitt, GA
 Ref. No.: 18283

Date: 11/29/2011
 Personnel: Steven Grace

Monitoring Well Data:

Well No.: MW-6
 Measurement Point: TOC
 Constructed Well Depth (ft): 55'
 Measured Well Depth (ft):
 Depth of Sediment (ft):

Screen Length (ft): 5'
 Depth to Pump Intake (ft)⁽¹⁾: 53'
 Well Diameter, D (in): 2"
 Well Screen Volume, V_s (mL):
 Initial Depth to Water (ft): 26.45

	Pumping Rate	Depth to Water	Drawdown from Initial Water Level ⁽²⁾		Temperature	Conductivity	ORP	DO	Turbidity
Time	(mL/min)	(ft)	(ft)	pH	° C	(S/m)	(mV)	(mg/L)	(NTU)
8:15	90	26.48	0.03	7.19	14.99	1.41	226	2.95	23.6
8:20	90	26.49	0.04	7.80	16.43	1.39	209	1.74	11.5
8:25	90	26.49	0.04	7.86	16.87	1.39	205	1.30	7.12
8:30	90	26.49	0.04	7.90	17.15	1.38	202	1.19	3.99
8:35	90	26.49	0.04	7.94	17.47	1.37	196	1.08	2.16
8:40	90	26.49	0.04	7.96	17.84	1.37	193	1.02	1.21
8:45	90	26.49	0.04	7.96	17.99	1.37	192	0.96	1.82
8:50	90	26.49	0.04	7.97	18.08	1.35	190	0.92	1.36
8:55	Sample Time								
Sample ID:	GW-112911-SAG-001								
	Total Chrome (Incl. Trivalent) bot total and Dissolved, Hex Chrome total and dissolved, permanganate								

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Birdsong - Colquitt, GA
 Ref. No.: 18283

Date: 11/29/2011
 Personnel: Steven Grace

Monitoring Well Data:

Well No.: MW-7D
 Measurement Point: TOC
 Constructed Well Depth (ft): 78
 Measured Well Depth (ft):
 Depth of Sediment (ft):

Screen Length (ft): 5'
 Depth to Pump Intake (ft)⁽¹⁾: 75'
 Well Diameter, D (in): 2"
 Well Screen Volume, V_s (mL):
 Initial Depth to Water (ft): 26.06

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽²⁾ (ft)	pH	Temperature °C	Conductivity (S/m)	ORP (mV)	DO (mg/L)	Turbidity (NTU)
9:25	100	26.08	0.02	8.32	17.72	0.327	168	2.46	1.36
9:30	100	26.08	0.02	7.10	19.18	0.311	202	2.07	0.00
9:35	100	26.08	0.02	6.93	19.42	0.306	204	1.88	0.00
9:40	100	26.08	0.02	6.86	19.57	0.301	205	1.81	0.00
9:45	100	26.08	0.02	6.75	19.43	0.299	210	1.81	0.00
9:50	100	26.08	0.02	6.73	19.53	0.298	209	1.78	0.00
9:55	100	26.08	0.02	6.71	19.57	0.299	210	1.79	0.00
10:00	100	26.08	0.02	6.70	19.64	0.299	210	1.76	0.00
10:05	100	26.08	0.02	6.70	19.72	0.298	210	1.74	0.00
10:10	Sample Time								
Sample ID: GW-112911-SAG-002									
Total Chrome (Incl. Trivalent) bot total and Dissolved, Hex Chrome total and dissolved, permanganate									

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.
- (2) The drawdown from the initial water level should not exceed 0.3 ft.
- (3) This well was purged 10/4/11 due to short hold times for Hexavalent Chrome and sample 10/5/11.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Birdsong - Colquitt, GA
 Ref. No.: 18283

Date: 11/28/2011 - 11/29/11
 Personnel: Steven Grace

Monitoring Well Data:

Well No.: MW-10
 Measurement Point: TOC
 Constructed Well Depth (ft): 29'
 Measured Well Depth (ft):
 Depth of Sediment (ft):

Screen Length (ft): 10'
 Depth to Pump Intake (ft)⁽¹⁾: 25'
 Well Diameter, D (in): 1"
 Well Screen Volume, V_s (mL):
 Initial Depth to Water (ft): 18.46

	Pumping Rate	Depth to Water	Drawdown from Initial Water Level ⁽²⁾		Temperature	Conductivity	ORP	DO	Turbidity
Time	(mL/min)	(ft)	(ft)	pH	° C	(S/m)	(mV)	(mg/L)	(NTU)
14:55	75	21.08	2.62	5.50	20.42	9.9	193	1.81	222
15:00	75	22.10	3.64	5.67	20.97	8.7	192	1.29	174
15:05	75	23.22	4.76	5.78	21.41	8.1	190	5.14	146
15:10	75	24.39	5.93	5.82	21.67	7.9	189	4.83	138
15:15	75	25.54	7.08	5.84	21.83	7.86	188	4.79	140
15:20	75	26.76	8.30	5.70	21.90	7.79	189	4.60	140
15:25	75	27.90	9.44	5.64	21.97	7.75	191	4.37	151
15:30	75	28.98	10.52	5.61	22.00	7.73	192	4.00	160
15:35	dry	dry	dry	dry	dry	dry	dry	dry	dry
10:50	Sample Time								
Sample ID:	GW-112911-SAG-003								
	Total Chrome (Incl. Trivalent) bot total and Dissolved, Hex Chrome total and dissolved, permanganate								

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Birdsong - Colquitt, GA

Ref. No.: 18283

Date: 11/28/11 -11/29/11

Personnel: Steven Grace

Monitoring Well Data:

Well No.: MW-11

Screen Length (ft): 10'

Measurement Point: TOC

Depth to Pump Intake (ft)⁽¹⁾: 25' - 30'

Constructed Well Depth (ft): 30.00

Well Diameter, D (in): 1"

Measured Well Depth (ft):

Well Screen Volume, V_s (mL):

Depth of Sediment (ft):

Initial Depth to Water (ft): 17.37

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽²⁾ (ft)	pH	Temperature °C	Conductivity (S/m)	ORP (mV)	DO (mg/L)	Turbidity (NTU)
16:30	75	20.62	3.25	5.82	21.17	0.314	221	1.78	5.70
16:35	75	23.81	6.44	5.73	20.95	0.382	214	1.55	1.06
16:40	75	27.13	9.76	5.60	20.84	0.405	216	1.45	0.00
16:45	dry	dry	dry	dry	dry	dry	dry	dry	dry
11:30	Sample Time								
Sample ID:	<u>GW-112911-SAG-006</u>								
	Total Chrome (Incl. Trivalent) bot total and Dissolved, Hex Chrome total and dissolved, permanganate								

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.
- (2) The drawdown from the initial water level should not exceed 0.3 ft.
- (3) This well was purged 10/4/11 due to short hold times for Hexavalent Chrome

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Birdsong - Colquitt, GA
 Ref. No.: 18283

Date: 11/28/11 - 11/29/11
 Personnel: Steven Grace

Monitoring Well Data:

Well No.: MW-17D Screen Length (ft): 10'
 Measurement Point: TOC Depth to Pump Intake (ft)⁽¹⁾: 69'
 Constructed Well Depth (ft): 74' Well Diameter, D (in): 2"
 Measured Well Depth (ft): _____ Well Screen Volume, V_s (mL): _____
 Depth of Sediment (ft): _____ Initial Depth to Water (ft): 25.69

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽²⁾ (ft)	pH	Temperature °C	Conductivity (S/m)	ORP (mV)	DO (mg/L)	Turbidity (NTU)
15:40	100	25.70	0.01	6.52	22.03	2.130	172	4.31	57.4
15:45	100	25.70	0.01	6.55	21.94	0.921	163	4.27	12.3
15:50	100	25.70	0.01	6.78	21.88	0.428	158	4.23	7.24
15:55	100	25.70	0.01	6.84	21.83	0.376	158	4.21	3.76
16:00	100	25.70	0.01	6.92	21.79	0.334	156	4.15	1.89
16:05	100	25.70	0.01	6.85	21.62	0.280	159	3.93	0.76
16:10	100	25.70	0.01	6.82	21.62	0.274	162	3.90	0.00
16:15	100	25.70	0.01	6.80	21.51	0.270	164	3.86	0.00
16:20	100	25.70	0.01	6.79	21.43	0.270	167	3.74	0.00
11:05 and 11:10	Sample Time								
Sample ID:	GW-112911-SAG-004 and (duplicate) GW-112911-SAG-005								
	Total Chrome (Incl. Trivalent) bot total and Dissolved, Hex Chrome total and dissolved, permanganate								

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

RECORDS OF THE MONITORING WELL PURGING

LFP FORMS 12-2011

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Birdsong - Colquitt, GA
Ref. No.: 18283

Date: 12/29/2011
Personnel: Steven Grace

Monitoring Well Data:

Well No.: MW-6
Screen Length (ft): 5'
Measurement Point: TOC
Depth to Pump Intake (ft)⁽¹⁾: 53'
Constructed Well Depth (ft): 55'
Well Diameter, D (in): 2"
Measured Well Depth (ft):
Well Screen Volume, V_s (mL):
Depth of Sediment (ft):
Initial Depth to Water (ft): 25.41

	Pumping Rate	Depth to Water	Drawdown from Initial Water Level ⁽²⁾		Temperature	Conductivity	ORP	DO	Turbidity
Time	(mL/min)	(ft)	(ft)	pH	° C	(S/m)	(mV)	(mg/L)	(NTU)
8:30	100	25.46	0.05	8.04	9.86	1.72	143	2.76	7.80
8:35	100	25.46	0.05	8.01	13.16	1.60	128	1.29	4.42
8:40	100	25.46	0.05	8.00	14.94	1.57	118	1.07	2.30
8:45	100	25.46	0.05	7.99	15.04	1.56	110	1.02	2.61
8:50	100	25.46	0.05	8.02	15.58	1.56	114	0.98	3.70
8:55	100	25.46	0.05	8.01	16.03	1.54	111	1.00	3.26
9:00	100	25.46	0.05	7.99	16.52	1.53	108	1.02	3.15
9:05	100	25.46	0.05	7.99	16.74	1.52	107	0.98	3.33
9:10 and 9:15	Sample Time								
Sample ID:	GW-122911-SAG-001 and GW-122911-SAG-002 (duplicate)								
	Total Chrome (Incl. Trivalent) both total and Dissolved, Hex Chrome total and dissolved, permanganate								

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Birdsong - Colquitt, GA

Date: 12/29/2011

Ref. No.: 18283

Personnel: Steven Grace

Monitoring Well Data:

Well No.: MW-7D

Screen Length (ft): 5'

Measurement Point: TOC

Depth to Pump Intake (ft)⁽¹⁾: 75'

Constructed Well Depth (ft): 78

Well Diameter, D (in): 2"

Measured Well Depth (ft):

Well Screen Volume, V_s (mL):

Depth of Sediment (ft):

Initial Depth to Water (ft): 25.05

Drawdown

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽²⁾ (ft)	pH	Temperature °C	Conductivity (S/m)	ORP (mV)	DO (mg/L)	Turbidity (NTU)
9:50	100	25.06	0.01	6.85	17.91	0.334	182	2.39	5.28
9:55	100	25.06	0.01	6.82	19.62	0.301	149	2.21	2.33
10:00	100	25.06	0.01	6.83	20.32	0.291	92	1.68	2.19
10:05	100	25.06	0.01	6.85	20.64	0.286	72	1.32	4.17
10:10	100	25.06	0.01	6.86	20.99	0.283	67	0.96	2.08
10:15	100	25.06	0.01	6.87	21.38	0.281	63	0.84	1.49
10:20	100	25.06	0.01	6.88	21.57	0.279	69	0.80	2.40
10:25	100	25.06	0.01	6.89	21.88	0.279	72	0.77	1.33
10:30	100	25.06	0.01	6.89	22.09	0.279	75	0.81	1.79
10:35	100	25.06	0.01	6.89	22.13	0.279	76	0.83	1.27
10:40	Sample Time								
Sample ID: <u>GW-122911-SAG-003</u>									
Total Chrome (Incl. Trivalent) both total and Dissolved, Hex Chrome total and dissolved, permanganate									

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.
- (2) The drawdown from the initial water level should not exceed 0.3 ft.
- (3) This well was purged 10/4/11 due to short hold times for Hexavalent Chrome and sample 10/5/11

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Birdsong - Colquitt, GA
 Ref. No.: 18283

Date: 12/28/2011 - 12/29/11
 Personnel: Steven Grace

Monitoring Well Data:

Well No.: MW-10 Screen Length (ft): 10'
 Measurement Point: TOC Depth to Pump Intake (ft)⁽¹⁾: 25'
 Constructed Well Depth (ft): 29' Well Diameter, D (in): 1"
 Measured Well Depth (ft): _____ Well Screen Volume, V_s (mL): _____
 Depth of Sediment (ft): _____ Initial Depth to Water (ft): 17.79

Time	Pumping	Depth to	Drawdown	pH	Temperature	Conductivity	ORP	DO	Turbidity
	Rate	Water	from Initial						
	(mL/min)	(ft)	(ft)						
14:40	75	21.08	3.29	5.50	20.42	9.9	193	1.81	222
14:45	75	22.10	4.31	5.67	20.97	8.7	192	1.29	174
14:50	75	23.22	5.43	5.78	21.41	8.1	190	5.14	146
14:55	75	24.39	6.60	5.82	21.67	7.9	189	4.83	138
15:00	dry	dry	dry	dry	dry	dry	dry	dry	dry
10:55	Sample Time								
Sample ID:	GW-122911-SAG-004								
	Total Chrome (Incl. Trivalent) both total and Dissolved, Hex Chrome total and dissolved, permanganate								

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Birdsong - Colquitt, GA
 Ref. No.: 18283

Date: 12/28/11 -12/29/11
 Personnel: Steven Grace

Monitoring Well Data:

Well No.: MW-11 Screen Length (ft): 10'
 Measurement Point: TOC Depth to Pump Intake (ft)⁽¹⁾: 25' - 30'
 Constructed Well Depth (ft): 30.00 Well Diameter, D (in): 1"
 Measured Well Depth (ft): _____ Well Screen Volume, V_s (mL): _____
 Depth of Sediment (ft): _____ Initial Depth to Water (ft): 14.20

Time	Pumping Rate (mL/min)	Drawdown		pH	Temperature °C	Conductivity (S/m)	ORP (mV)	DO (mg/L)	Turbidity (NTU)
		Depth to Water (ft)	from Initial Water Level ⁽²⁾ (ft)						
16:00	75	17.72	3.52	6.29	22.55	1.78	192	4.27	79.3
16:05	75	20.96	6.76	5.18	22.15	1.71	237	4.01	59.6
16:10	75	23.91	9.71	5.41	21.82	1.64	231	3.90	43.9
16:15	dry	27.04	12.84	5.24	21.75	1.60	233	3.79	50.9
16:20	75	dry	dry	dry	dry	dry	dry	dry	dry
11:20	Sample Time								
Sample ID:	<u>GW-122911-SAG-006</u>								
	Total Chrome (Incl. Trivalent) both total and Dissolved, Hex Chrome total and dissolved, permanganate								

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.
- (2) The drawdown from the initial water level should not exceed 0.3 ft.
- (3) This well was purged 10/4/11 due to short hold times for Hexavalent Chrome

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Birdsong - Colquitt, GA
 Ref. No.: 18283

Date: 12/28/11 - 12/29/11
 Personnel: Steven Grace

Monitoring Well Data:

Well No.: MW-17D Screen Length (ft): 10'
 Measurement Point: TOC Depth to Pump Intake (ft)⁽¹⁾: 69'
 Constructed Well Depth (ft): 74' Well Diameter, D (in): 2"
 Measured Well Depth (ft): _____ Well Screen Volume, V_s (mL): _____
 Depth of Sediment (ft): _____ Initial Depth to Water (ft): 24.62

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽²⁾ (ft)	pH	Temperature °C	Conductivity (S/m)	ORP (mV)	DO (mg/L)	Turbidity (NTU)
15:10	100	24.64	0.02	6.87	21.74	0.501	145	1.21	6.93
15:15	100	24.64	0.02	7.04	21.86	0.376	147	2.42	5.10
15:20	100	24.64	0.02	7.08	22.05	0.313	147	2.60	3.15
15:25	100	24.64	0.02	7.19	22.12	0.304	145	2.71	2.18
15:30	100	24.64	0.02	7.24	22.20	0.297	142	2.90	1.37
15:35	100	24.64	0.02	7.26	22.25	0.294	139	2.92	1.55
15:40	100	24.64	0.02	7.26	22.39	0.295	137	3.00	0.69
15:45	100	24.64	0.02	7.27	22.48	0.296	135	3.03	0.47
11:10	Sample Time								
Sample ID: <u>GW-122911-SAG-005</u>									
Total Chrome (Incl. Trivalent) bot total and Dissolved, Hex Chrome total and dissolved, permanganate									

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

ATTACHMENT C

DATA QUALITY ASSESSMENT AND VALIDATION MEMORANDUMS
ANALYTICAL DATA REPORTS



**CONESTOGA-ROVERS
& ASSOCIATES**

9033 Meridian Way, West Chester, Ohio 45069
Telephone: (513) 942-4750 Fax: (513) 942-8585
www.CRAworld.com

MEMORANDUM

TO: Bob Pyle

FROM: Angela Bown/bjw/6-NF *AB/bjw*

CC: Dave Brytowski

RE: Data Quality Assessment and Validation
Birdsong Peanut
Colquitt, Georgia
October 2011

REF. NO.: 018283

DATE: October 31, 2011

E-Mail and Hard Copy if Requested

INTRODUCTION

The following details a quality assessment and validation of the analytical data resulting from the collection of six water samples from the Birdsong Peanut site in Colquitt, Georgia, October 5, 2011. The sample summary detailing sample identification, sample location, and analytical parameters is presented in Table 1. Sample analysis was completed at Analytical Environmental Services, in Atlanta, Georgia, in accordance with the methodologies presented in Table 2. The analytical results summary is presented in Table 3. The quality control (QC) criteria used to assess the data were established by the methods and the document, "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review," United States Environmental Protection Agency (USEPA) 540/R-94-013, February 1994.

A data quality assessment and validation was performed based on the sample results and supporting quality assurance/quality control (QA/QC) provided.

HOLDING TIME PERIOD AND SAMPLE ANALYSIS

The holding time periods are presented in the analytical methods. All samples were prepared and analyzed within the method-required holding times. All samples were properly cooled to 4°C (±2°C) after collection.

METHOD BLANK SAMPLES

Method blanks are prepared and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the preparation and analytical procedures.

For this study, method blanks were analyzed at a minimum frequency of one per analytical batch. The blank results were non-detect for all analytes of interest.

LABORATORY CONTROL SAMPLE (LCS) ANALYSIS

The LCS serves as a measure of overall analytical performance. LCSs are prepared with all analytes of interest and analyzed with each sample batch. The LCS recoveries were within the laboratory specified control limits for all analytes of interest, demonstrating acceptable overall analytical accuracy.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) ANALYSES

MS/MSD samples are prepared and analyzed with the samples for each metal. The recoveries of spike analyses are used to assess the analytical accuracy achieved on individual sample matrices. If the original sample concentration is significantly greater than the spike concentration, the recovery is not assessed. The relative percent difference (RPD) between the MS and MSD is used to assess analytical precision.

MS/MSD analyses were performed by the laboratory as indicated in Table 1. All results were within the laboratory control limits, indicating acceptable analytical accuracy and precision.

FIELD DUPLICATE

As summarized in Table 1, one sample was collected in duplicate and was submitted to the laboratory for analysis. All sample results showed acceptable sampling and analytical precision.

OVERALL ASSESSMENT

The data were found to exhibit acceptable levels of accuracy and precision, based on the provided information, and may be used as reported without qualification.

TABLE 1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
 BIRDSONG PEANUT
 COLQUITT, GEORGIA
 OCTOBER 2011

Sample ID	Location ID	Collection Date (mm/dd/yy)	Collection Time (hr:min)	Analysis/Parameters		Comments
				Total Cr, Cr ⁺⁶ & Cr ⁺³	Dissolved Cr, Cr ⁺⁶ & Cr ⁺³	
GW-100511-SAG-001	MW-10	10/05/11	8:50	X	X	MS/MSD
GW-100511-SAG-002	MW-17D	10/05/11	10:00	X	X	MS/MSD
GW-100511-SAG-003	MW-11	10/05/11	10:40	X	X	
GW-100511-SAG-004	MW-7D	10/05/11	11:15	X	X	
GW-100511-SAG-005	MW-6	10/05/11	11:40	X	X	
GW-100511-SAG-006	MW-6	10/05/11	11:50	X	X	GW-100511-SAG-005

Notes:

Cr Chromium.
 Cr⁺³ Trivalent Chromium.
 Cr⁺⁶ Hexavalent Chromium.
 MS Matrix Spike.
 MSD Matrix Spike Duplicate.

TABLE 2

SUMMARY OF ANALYTICAL METHODOLOGIES
 BIRDSONG PEANUT
 COLQUITT, GEORGIA
 OCTOBER 2011

<i>Parameter</i>	<i>Method¹</i>
Total and Dissolved Cr	SW-846 6020A
Total and Dissolved Cr ⁺⁶ & Cr ⁺³	SW-846 7196

Notes:

- 1 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods,"
 SW-846, 3rd Edition, September 1986 (with all subsequent revisions).
 Cr Chromium.
 Cr⁺³ Trivalent Chromium.
 Cr⁺⁶ Hexavalent Chromium.

TABLE 3
ANALYTICAL RESULTS SUMMARY
BIRDSONG PEANUT
COLQUITT, GEORGIA
OCTOBER 2011

<i>Location ID:</i>				MW-6	MW-6	MW-7D	MW-10	MW-11	MW-17D
<i>Sample Name:</i>				GW-100511-SAG-005	GW-100511-SAG-006	GW-100511-SAG-004	GW-100511-SAG-001	GW-100511-SAG-003	GW-100511-SAG-002
<i>Sample Date:</i>				10/5/2011	10/5/2011	10/5/2011	10/5/2011	10/5/2011	10/5/2011
<i>Parameters</i>	<i>Units</i>	<i>Georgia HSRA RRS</i>		<i>Duplicate</i>					
		<i>Type 1</i>	<i>Type 4</i>						
		<i>a</i>	<i>b</i>						
<i>Metals</i>									
Chromium	mg/L	NC	NC	0.191	0.193	0.00658	0.118	0.199	0.005 U
Chromium III (trivalent)	mg/L	0.01	153.3	0.0100 U	0.0100 U	0.0100 U	0.0162 ^u	0.0100 U	0.0100 U
Chromium VI (hexavalent)	mg/L	0.01	0.01	0.193 ^u	0.199 ^u	0.0100 U	0.102 ^u	0.215 ^u	0.0100 U
<i>Metals (Dissolved)</i>									
Chromium Total (dissolved)	mg/L	NC	NC	0.19	0.192	0.00642	0.0988	0.174	0.005 U
Chromium III (trivalent) (dissolved)	mg/L	0.01	153.3	0.0100 U	0.0100 U	0.0100 U	0.0140 ^u	0.0100 U	0.0100 U
Chromium VI (hexavalent) (dissolved)	mg/L	0.01	0.01	0.192 ^u	0.194 ^u	0.0100 U	0.0848 ^u	0.184 ^u	0.0100 U

Notes:

U - Non-detect at the associated value.

 - Value Outside of associated control limits.



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

October 14, 2011

Bob Pyle
Conestoga, Rovers, & Associates, Inc.
3075 Breckinridge Blvd., Suite 470
Duluth GA 30096

TEL: (770) 441-0027
FAX: (770) 441-2050

RE: Birdsong Peanut

Dear Bob Pyle:

Order No: 1110256

Analytical Environmental Services, Inc. received 6 samples on 10/5/2011 3:56:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/11-06/30/12.
- AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/13.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3785 Presidential Parkway, Atlanta GA 30340-3704

AES

TEL: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order:

1110256

Date: 10/5/11

Page 1 of 1

COMPANY		ADDRESS:		ANALYSIS REQUESTED										Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		No # of Containers	
PHONE:		FAX:		Total Hex Chrom	Dissolved Hex Chrom	Total Metals	dissolved metals	MS/MSD	PRESERVATION (See codes)						REMARKS		
SAMPLED BY:		SIGNATURE:							DATE	TIME	Grab	Composite	Matrix (See codes)				
CRA		3015 Breckinridge Blvd. Suite 470 Duluth, GA 30096															
770-441-0027		770-441-2050															
Shuren Grou																	
#	SAMPLE ID	DATE	TIME	Grab	Composite	Matrix (See codes)	Total Hex Chrom	Dissolved Hex Chrom	Total Metals	dissolved metals	MS/MSD						
1	GW-100511-SAG-001	10/5/11	850	X		GW	X	X	X	X							4
2	" " " -002		1000	X			X	X	X	X	X						8
3	" " " -003		1040	X			X	X	X	X							4
4	" " " -004		1115	X			X	X	X	X							4
5	" " " -005		1140	X			X	X	X	X							4
6	" " " -006		1150	X			X	X	X	X							4
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
RELINQUISHED BY:		DATE/TIME	RECEIVED BY:	DATE/TIME	PROJECT INFORMATION										RECEIPT		
1: Shuren Grou		10/5/11 1556	1: [Signature]	10/5/11 3:56	PROJECT NAME: Birdsong - Colquitt										Total # of Containers 28		
2:			2:		PROJECT #: 18283										Turnaround Time Request		
3:			3:		SITE ADDRESS: Colquitt, GA										<input checked="" type="radio"/> Standard 5 Business Days <input type="radio"/> 2 Business Day Rush <input type="radio"/> Next Business Day Rush <input type="radio"/> Same Day Rush (auth req.) <input type="radio"/> Other		
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD		INVOICE TO:		SEND REPORT TO: See SSO W										STATE PROGRAM (if any)	
See SSO W		OUT 1 1 VIA:		IN VIA:		See SSO W										E-mail? Y/N, Fax? Y/N	
		CLIENT FedEx UPS MAIL COURIER				QUOTE #: PO#:										DATA PACKAGE: I II III IV	
		GREYHOUND OTHER															

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES.

SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water

PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc
Date: 14-Oct-11

Client:	Conestoga, Rovers, & Associates, Inc.	Client Sample ID:	GW-100511-SAG-001
Project Name:	Birdsong Peanut	Collection Date:	10/5/2011 8:50:00 AM
Lab ID:	1110256-001	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A					(SW3005A)			
Chromium	118	5.00		ug/L	152603	1	10/11/2011 21:50	JY
Hexavalent Chromium, Dissolved SW7196								
Chromium as Cr+3	0.0140	0.0100		mg/L	R206920	1	10/06/2011 08:40	CG
Chromium, Hexavalent	0.0848	0.0100		mg/L	R206920	1	10/06/2011 08:40	CG
Hexavalent Chromium in Water SW7196								
Chromium as Cr+3	0.0162	0.0100		mg/L	R206923	1	10/06/2011 08:40	CG
Chromium, Hexavalent	0.102	0.0100		mg/L	R206923	1	10/06/2011 08:40	CG
Dissolved Metals by ICP/MS SW6020A					(SW3005A)			
Chromium	98.8	5.00		ug/L	152586	1	10/11/2011 16:34	JY

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 14-Oct-11

Client: Conestoga, Rovers, & Associates, Inc.
Project Name: Birdsong Peanut
Lab ID: 1110256-002

Client Sample ID: GW-100511-SAG-002
Collection Date: 10/5/2011 10:00:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A					(SW3005A)			
Chromium	BRL	5.00		ug/L	152603	1	10/11/2011 21:12	JY
Hexavalent Chromium, Dissolved SW7196								
Chromium as Cr+3	BRL	0.0100		mg/L	R206920	1	10/06/2011 08:40	CG
Chromium, Hexavalent	BRL	0.0100		mg/L	R206920	1	10/06/2011 08:40	CG
Hexavalent Chromium in Water SW7196								
Chromium as Cr+3	BRL	0.0100		mg/L	R206923	1	10/06/2011 08:40	CG
Chromium, Hexavalent	BRL	0.0100		mg/L	R206923	1	10/06/2011 08:40	CG
Dissolved Metals by ICP/MS SW6020A					(SW3005A)			
Chromium	BRL	5.00		ug/L	152586	1	10/11/2011 16:03	JY

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 14-Oct-11

Client:	Conestoga, Rovers, & Associates, Inc.	Client Sample ID:	GW-100511-SAG-003
Project Name:	Birdsong Peanut	Collection Date:	10/5/2011 10:40:00 AM
Lab ID:	1110256-003	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A					(SW3005A)			
Chromium	199	5.00		ug/L	152603	1	10/11/2011 21:56	JY
Hexavalent Chromium, Dissolved SW7196								
Chromium as Cr+3	BRL	0.0100		mg/L	R206920	1	10/06/2011 08:40	CG
Chromium, Hexavalent	0.184	0.0100		mg/L	R206920	1	10/06/2011 08:40	CG
Hexavalent Chromium in Water SW7196								
Chromium as Cr+3	BRL	0.0100		mg/L	R206923	1	10/06/2011 08:40	CG
Chromium, Hexavalent	0.215	0.0100		mg/L	R206923	1	10/06/2011 08:40	CG
Dissolved Metals by ICP/MS SW6020A					(SW3005A)			
Chromium	174	5.00		ug/L	152586	1	10/11/2011 16:40	JY

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- II Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 14-Oct-11

Client: Conestoga, Rovers, & Associates, Inc.
Project Name: Birdsong Peanut
Lab ID: 1110256-004

Client Sample ID: GW-100511-SAG-004
Collection Date: 10/5/2011 11:15:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A					(SW3005A)			
Chromium	6.58	5.00		ug/L	152603	1	10/11/2011 22:02	JY
Hexavalent Chromium, Dissolved SW7196								
Chromium as Cr+3	BRL	0.0100		mg/L	R206920	1	10/06/2011 08:40	CG
Chromium, Hexavalent	BRL	0.0100		mg/L	R206920	1	10/06/2011 08:40	CG
Hexavalent Chromium in Water SW7196								
Chromium as Cr+3	BRL	0.0100		mg/L	R206923	1	10/06/2011 08:40	CG
Chromium, Hexavalent	BRL	0.0100		mg/L	R206923	1	10/06/2011 08:40	CG
Dissolved Metals by ICP/MS SW6020A					(SW3005A)			
Chromium	6.42	5.00		ug/L	152586	1	10/11/2011 17:05	JY

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 14-Oct-11

Client:	Conestoga, Rovers, & Associates, Inc.	Client Sample ID:	GW-100511-SAG-005
Project Name:	Birdsong Peanut	Collection Date:	10/5/2011 11:40:00 AM
Lab ID:	1110256-005	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A					(SW3005A)			
Chromium	191	5.00		ug/L	152603	1	10/11/2011 22:27	JY
Hexavalent Chromium, Dissolved SW7196								
Chromium as Cr+3	BRL	0.0100		mg/L	R206920	1	10/06/2011 08:40	CG
Chromium, Hexavalent	0.192	0.0100		mg/L	R206920	1	10/06/2011 08:40	CG
Hexavalent Chromium in Water SW7196								
Chromium as Cr+3	BRL	0.0100		mg/L	R206923	1	10/06/2011 08:40	CG
Chromium, Hexavalent	0.193	0.0100		mg/L	R206923	1	10/06/2011 08:40	CG
Dissolved Metals by ICP/MS SW6020A					(SW3005A)			
Chromium	190	5.00		ug/L	152586	1	10/11/2011 17:11	JY

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- II Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 14-Oct-11

Client: Conestoga, Rovers, & Associates, Inc.
Project Name: Birdsong Peanut
Lab ID: 1110256-006

Client Sample ID: GW-100511-SAG-006
Collection Date: 10/5/2011 11:50:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A					(SW3005A)			
Chromium	193	5.00		ug/L	152603	1	10/11/2011 22:33	JY
Hexavalent Chromium, Dissolved SW7196								
Chromium as Cr+3	BRL	0.0100		mg/L	R206920	1	10/06/2011 08:40	CG
Chromium, Hexavalent	0.194	0.0100		mg/L	R206920	1	10/06/2011 08:40	CG
Hexavalent Chromium in Water SW7196								
Chromium as Cr+3	BRL	0.0100		mg/L	R206923	1	10/06/2011 08:40	CG
Chromium, Hexavalent	0.199	0.0100		mg/L	R206923	1	10/06/2011 08:40	CG
Dissolved Metals by ICP/MS SW6020A					(SW3005A)			
Chromium	192	5.00		ug/L	152586	1	10/11/2011 17:17	JY

Qualifiers:

* Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client CRA Work Order Number 1110256

Checklist completed by PT Date 10/5/14
Signature Date

Carrier name: FedEx ☐ UPS ☐ Courier ☐ Client ☒ US Mail ☐ Other ☐

Shipping container/cooler in good condition? Yes ☒ No ☐ Not Present ☐

Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☒

Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒

Container/Temp Blank temperature in compliance? ($4^{\circ}\text{C} \pm 2$) * Yes ☒ No ☐

Cooler #1 3.1°C Cooler #2 ☐ Cooler #3 ☐ Cooler #4 ☐ Cooler #5 ☐ Cooler #6 ☐

Chain of custody present? Yes ☒ No ☐

Chain of custody signed when relinquished and received? Yes ☒ No ☐

Chain of custody agrees with sample labels? Yes ☒ No ☐

Samples in proper container/bottle? Yes ☒ No ☐

Sample containers intact? Yes ☒ No ☐

Sufficient sample volume for indicated test? Yes ☒ No ☐

All samples received within holding time? Yes ☒ No ☐

Was TAT marked on the COC? Yes ☒ No ☐

Proceed with Standard TAT as per project history? Yes ☐ No ☐ Not Applicable ☒

Water - VOA vials have zero headspace? No VOA vials submitted ☒ Yes ☐ No ☐

Water - pH acceptable upon receipt? Yes ☒ No ☐ Not Applicable ☐

Adjusted? ☐ Checked by PT

Sample Condition: Good ☒ Other(Explain) ☐

(For diffusive samples or AIHA lead) Is a known blank included? Yes ☐ No ☒

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

\\Quality Assurance\\Checklists Procedures Sign-Off Templates\\Checklists\\Sample Receipt Checklists\\Sample_Cooler_Receipt_Checklist

Client: Conestoga, Rovers, & Associates, Inc.
 Project: Birdsong Peanut
 Lab Order: 1110256

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1110256-001A	GW-100511-SAG-001	10/5/2011 8:50:00AM	Groundwater	Total Metals by ICP/MS		10/08/2011	10/11/2011
1110256-001B	GW-100511-SAG-001	10/5/2011 8:50:00AM	Groundwater	Dissolved Metals by ICP/MS		10/10/2011	10/11/2011
1110256-001C	GW-100511-SAG-001	10/5/2011 8:50:00AM	Groundwater	Hexavalent Chromium			10/06/2011
1110256-001D	GW-100511-SAG-001	10/5/2011 8:50:00AM	Groundwater	Hexavalent Chromium, Dissolved			10/06/2011
1110256-002A	GW-100511-SAG-002	10/5/2011 10:00:00AM	Groundwater	Total Metals by ICP/MS		10/08/2011	10/11/2011
1110256-002B	GW-100511-SAG-002	10/5/2011 10:00:00AM	Groundwater	Dissolved Metals by ICP/MS		10/10/2011	10/11/2011
1110256-002C	GW-100511-SAG-002	10/5/2011 10:00:00AM	Groundwater	Hexavalent Chromium			10/06/2011
1110256-002D	GW-100511-SAG-002	10/5/2011 10:00:00AM	Groundwater	Hexavalent Chromium, Dissolved			10/06/2011
1110256-003A	GW-100511-SAG-003	10/5/2011 10:40:00AM	Groundwater	Total Metals by ICP/MS		10/08/2011	10/11/2011
1110256-003B	GW-100511-SAG-003	10/5/2011 10:40:00AM	Groundwater	Dissolved Metals by ICP/MS		10/10/2011	10/11/2011
1110256-003C	GW-100511-SAG-003	10/5/2011 10:40:00AM	Groundwater	Hexavalent Chromium			10/06/2011
1110256-003D	GW-100511-SAG-003	10/5/2011 10:40:00AM	Groundwater	Hexavalent Chromium, Dissolved			10/06/2011
1110256-004A	GW-100511-SAG-004	10/5/2011 11:15:00AM	Groundwater	Total Metals by ICP/MS		10/08/2011	10/11/2011
1110256-004B	GW-100511-SAG-004	10/5/2011 11:15:00AM	Groundwater	Dissolved Metals by ICP/MS		10/10/2011	10/11/2011
1110256-004C	GW-100511-SAG-004	10/5/2011 11:15:00AM	Groundwater	Hexavalent Chromium			10/06/2011
1110256-004D	GW-100511-SAG-004	10/5/2011 11:15:00AM	Groundwater	Hexavalent Chromium, Dissolved			10/06/2011
1110256-005A	GW-100511-SAG-005	10/5/2011 11:40:00AM	Groundwater	Total Metals by ICP/MS		10/08/2011	10/11/2011
1110256-005B	GW-100511-SAG-005	10/5/2011 11:40:00AM	Groundwater	Dissolved Metals by ICP/MS		10/10/2011	10/11/2011
1110256-005C	GW-100511-SAG-005	10/5/2011 11:40:00AM	Groundwater	Hexavalent Chromium			10/06/2011
1110256-005D	GW-100511-SAG-005	10/5/2011 11:40:00AM	Groundwater	Hexavalent Chromium, Dissolved			10/06/2011
1110256-006A	GW-100511-SAG-006	10/5/2011 11:50:00AM	Groundwater	Total Metals by ICP/MS		10/08/2011	10/11/2011
1110256-006B	GW-100511-SAG-006	10/5/2011 11:50:00AM	Groundwater	Dissolved Metals by ICP/MS		10/10/2011	10/11/2011
1110256-006C	GW-100511-SAG-006	10/5/2011 11:50:00AM	Groundwater	Hexavalent Chromium			10/06/2011
1110256-006D	GW-100511-SAG-006	10/5/2011 11:50:00AM	Groundwater	Hexavalent Chromium, Dissolved			10/06/2011

Client: Conestoga, Rovers, & Associates, Inc.
 Project Name: Birdsong Peanut
 Workorder: 1110256

ANALYTICAL QC SUMMARY REPORT

BatchID: 152586

Sample ID: MB-152586	Client ID:					Units: ug/L	Prep Date: 10/10/2011		Run No: 207008		
SampleType: MBLK	TestCode:	Dissolved Metals by ICP/MS SW6020A				BatchID: 152586	Analysis Date: 10/11/2011		Seq No: 4326093		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium	BRL	5.00	0	0	0	0	0	0	0	0	

Sample ID: LCS-152586	Client ID:					Units: ug/L	Prep Date: 10/10/2011		Run No: 207008		
SampleType: LCS	TestCode:	Dissolved Metals by ICP/MS SW6020A				BatchID: 152586	Analysis Date: 10/11/2011		Seq No: 4326092		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium	93.85	5.00	100	0.1040	93.7	80	120	0	0	0	

Sample ID: 1110256-002BMS	Client ID: GW-100511-SAG-002					Units: ug/L	Prep Date: 10/10/2011		Run No: 207008		
SampleType: MS	TestCode:	Dissolved Metals by ICP/MS SW6020A				BatchID: 152586	Analysis Date: 10/11/2011		Seq No: 4326096		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium	97.63	5.00	100	1.369	96.3	75	125	0	0	0	

Sample ID: 1110256-002BMSD	Client ID: GW-100511-SAG-002					Units: ug/L	Prep Date: 10/10/2011		Run No: 207008		
SampleType: MSD	TestCode:	Dissolved Metals by ICP/MS SW6020A				BatchID: 152586	Analysis Date: 10/11/2011		Seq No: 4326097		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium	95.79	5.00	100	1.369	94.4	75	125	97.63	1.9	20	

Qualifiers: > Greater than Result value
 BRL Below reporting limit
 J Estimated value detected below Reporting Limit
 Rpt Lim Reporting Limit

< Less than Result value
 E Estimated (value above quantitation range)
 N Analyte not NELAC certified
 S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank
 H Holding times for preparation or analysis exceeded
 R RPD outside limits due to matrix

Client: Conestoga, Rovers, & Associates, Inc.
 Project Name: Birdsong Peanut
 Workorder: 1110256

ANALYTICAL QC SUMMARY REPORT

BatchID: 152603

Sample ID: MB-152603	Client ID:					Units: ug/L	Prep Date: 10/08/2011		Run No: 207016		
SampleType: MBLK	TestCode:	Total Metals by ICP/MS SW6020A				BatchID: 152603	Analysis Date: 10/11/2011		Seq No: 4326303		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium	BRL	5.00	0	0	0	0	0	0	0	0	

Sample ID: LCS-152603	Client ID:					Units: ug/L	Prep Date: 10/08/2011		Run No: 207016		
SampleType: LCS	TestCode:	Total Metals by ICP/MS SW6020A				BatchID: 152603	Analysis Date: 10/11/2011		Seq No: 4326297		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium	100.2	5.00	100	0	100	80	120	0	0	0	

Sample ID: 1110256-002AMS	Client ID: GW-100511-SAG-002					Units: ug/L	Prep Date: 10/08/2011		Run No: 207016		
SampleType: MS	TestCode:	Total Metals by ICP/MS SW6020A				BatchID: 152603	Analysis Date: 10/11/2011		Seq No: 4326308		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium	99.72	5.00	100	1.313	98.4	75	125	0	0	0	

Sample ID: 1110256-002AMSD	Client ID: GW-100511-SAG-002					Units: ug/L	Prep Date: 10/08/2011		Run No: 207016		
SampleType: MSD	TestCode:	Total Metals by ICP/MS SW6020A				BatchID: 152603	Analysis Date: 10/11/2011		Seq No: 4326310		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium	102.2	5.00	100	1.313	101	75	125	99.72	2.46	20	

Qualifiers: > Greater than Result value
 BRL Below reporting limit
 J Estimated value detected below Reporting Limit
 Rpt Lim Reporting Limit

< Less than Result value
 E Estimated (value above quantitation range)
 N Analyte not NELAC certified
 S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank
 H Holding times for preparation or analysis exceeded
 R RPD outside limits due to matrix

Client: Conestoga, Rovers, & Associates, Inc.
 Project Name: Birdsong Peanut
 Workorder: 1110256

ANALYTICAL QC SUMMARY REPORT

BatchID: R206920

Sample ID: MB-R206920	Client ID:					Units: mg/L	Prep Date:		Run No: 206920		
SampleType: MBLK	TestCode: Hexavalent Chromium, Dissolved	SW7196				BatchID: R206920	Analysis Date: 10/06/2011		Seq No: 4324401		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	BRL	0.0100	0	0	0	0	0	0	0	0	

Sample ID: LCS-R206920	Client ID:					Units: mg/L	Prep Date:		Run No: 206920		
SampleType: LCS	TestCode: Hexavalent Chromium, Dissolved	SW7196				BatchID: R206920	Analysis Date: 10/06/2011		Seq No: 4324402		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.5231	0.0100	0.5	0	105	90	110	0	0	0	

Sample ID: 1110256-001DMS	Client ID: GW-100511-SAG-001					Units: mg/L	Prep Date:		Run No: 206920		
SampleType: MS	TestCode: Hexavalent Chromium, Dissolved	SW7196				BatchID: R206920	Analysis Date: 10/06/2011		Seq No: 4324411		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.5449	0.0100	0.5	0.08480	92	85	115	0	0	0	

Sample ID: 1110256-001DMSD	Client ID: GW-100511-SAG-001					Units: mg/L	Prep Date:		Run No: 206920		
SampleType: MSD	TestCode: Hexavalent Chromium, Dissolved	SW7196				BatchID: R206920	Analysis Date: 10/06/2011		Seq No: 4324412		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.5414	0.0100	0.5	0.08480	91.3	85	115	0.5449	0.644	20	

Qualifiers: > Greater than Result value
 BRL Below reporting limit
 J Estimated value detected below Reporting Limit
 Rpt Lim Reporting Limit

< Less than Result value
 E Estimated (value above quantitation range)
 N Analyte not NELAC certified
 S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank
 H Holding times for preparation or analysis exceeded
 R RPD outside limits due to matrix

Client: Conestoga, Rovers, & Associates, Inc.
 Project Name: Birdsong Peanut
 Workorder: 1110256

ANALYTICAL QC SUMMARY REPORT

BatchID: R206923

Sample ID: MB-R206923	Client ID:					Units: mg/L	Prep Date:		Run No: 206923		
SampleType: MBLK	TestCode: Hexavalent Chromium in Water	SW7196				BatchID: R206923	Analysis Date: 10/06/2011		Seq No: 4324426		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	BRL	0.0100	0	0	0	0	0	0	0	0	

Sample ID: LCS-R206923	Client ID:					Units: mg/L	Prep Date:		Run No: 206923		
SampleType: LCS	TestCode: Hexavalent Chromium in Water	SW7196				BatchID: R206923	Analysis Date: 10/06/2011		Seq No: 4324427		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.5266	0.0100	0.5	0	105	90	110	0	0	0	

Sample ID: 1110256-001CMS	Client ID: GW-100511-SAG-001					Units: mg/L	Prep Date:		Run No: 206923		
SampleType: MS	TestCode: Hexavalent Chromium in Water	SW7196				BatchID: R206923	Analysis Date: 10/06/2011		Seq No: 4324435		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.5473	0.0100	0.5	0.1019	89.1	85	115	0	0	0	

Sample ID: 1110256-001CMSD	Client ID: GW-100511-SAG-001					Units: mg/L	Prep Date:		Run No: 206923		
SampleType: MSD	TestCode: Hexavalent Chromium in Water	SW7196				BatchID: R206923	Analysis Date: 10/06/2011		Seq No: 4324436		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.5467	0.0100	0.5	0.1019	89	85	115	0.5473	0.11	20	

Qualifiers: > Greater than Result value
 BRL Below reporting limit
 J Estimated value detected below Reporting Limit
 Rpt Lim Reporting Limit

< Less than Result value
 E Estimated (value above quantitation range)
 N Analyte not NELAC certified
 S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank
 H Holding times for preparation or analysis exceeded
 R RPD outside limits due to matrix

KMnO₄ Analysis for Sample Collected October 5, 2011

Birdsong Peanut Plant

Colquitt, GA

Project # 18283

Location ID:	MW-10	MW-17D	MW-11	MW-7D	MW-6	MW-6
Sample Name:	GW-100511-SAG-001	GW-100511-SAG-002	GW-100511-SAG-003	GW-100511-SAG-004	GW-100511-SAG-005	GW-100511-SAG-006
Sample Date:	10/5/2011	10/5/2011	10/5/2011	10/5/2011	10/5/2011	10/5/2011
Parameter	Units					
KMnO ₄	(mg/L)	ND(0.25)	ND(0.25)	ND(0.25)	ND(0.25)	ND(0.25)



**CONESTOGA-ROVERS
& ASSOCIATES**

2055 Niagara Falls Blvd., Suite #3
Niagara Falls, New York 14304
Telephone: (716) 297-6150 Fax: (716) 297-2265
www.CRAworld.com

MEMORANDUM

TO: Bob Pyle

FROM: Paul McMahon/bjw/7 *PM*

CC: Terefe Mazengia

RE: Data Quality Assessment and Validation
Birdsong Peanut
Colquitt, Georgia
November 2011

REF. NO.: 018283

DATE: December 15, 2011

E-Mail and Hard Copy if Requested

INTRODUCTION

The following details a quality assessment and validation of the analytical data resulting from the collection of groundwater samples from the Birdsong Peanut site in Colquitt, Georgia, November 29, 2011. The sample summary detailing sample identification, sample location, and analytical parameters is presented in Table 1. Sample analysis was completed at Analytical Environmental Services, in Atlanta, Georgia, in accordance with the methodologies presented in Table 2. The analytical results summary is presented in Table 3. The quality control (QC) criteria used to assess the data were established by the methods and the document, "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review," United States Environmental Protection Agency (USEPA) 540/R-94-013, February 1994.

A data quality assessment and validation was performed based on the sample results and supporting quality assurance/quality control (QA/QC) provided.

HOLDING TIME PERIOD AND SAMPLE ANALYSIS

The holding time periods are presented in the analytical methods. All samples were prepared and analyzed within the method-required holding times. All samples were properly cooled to 4°C ($\pm 2^\circ\text{C}$) after collection.

METHOD BLANK SAMPLES

Method blanks are prepared and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the preparation and analytical procedures.

For this study, method blanks were analyzed at a minimum frequency of one per analytical batch. The blank results were non-detect for all analytes of interest.

LABORATORY CONTROL SAMPLE (LCS) ANALYSIS

The LCS serves as a measure of overall analytical performance. LCSs are prepared with all analytes of interest and analyzed with each sample batch. The LCS recoveries were within the laboratory specified control limits for all analytes of interest, demonstrating acceptable overall analytical accuracy.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) ANALYSES

MS/MSD samples are prepared and analyzed with the samples for each metal. The recoveries of spike analyses are used to assess the analytical accuracy achieved on individual sample matrices. If the original sample concentration is significantly greater than the spike concentration, the recovery is not assessed. The relative percent difference (RPD) between the MS and MSD is used to assess analytical precision.

MS/MSD analyses were performed by the laboratory as indicated in Table 1. All results were within the laboratory control limits, indicating acceptable analytical accuracy and precision.

FIELD DUPLICATE

As summarized in Table 1, one sample was collected in duplicate and was submitted to the laboratory for analysis. All sample results showed acceptable sampling and analytical precision.

OVERALL ASSESSMENT

The data were found to exhibit acceptable levels of accuracy and precision, based on the provided information, and may be used as reported without qualification.

TABLE 1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
 BIRDSONG PEANUT
 COLQUITT, GEORGIA
 NOVEMBER 2011

Sample ID	Location ID	Collection Date (mm/dd/yy)	Collection Time (hr:min)	Analysis/Parameters		Comments
				Total Chromium & Hexavalent Chromium	Dissolved Chromium & Hexavalent Chromium	
GW-112911-SAG-001	MW-6	11/29/11	8:55	X	X	MS/MSD
GW-112911-SAG-002	MW-7D	11/29/11	10:10	X	X	
GW-112911-SAG-003	MW-10	11/29/11	10:50	X	X	
GW-112911-SAG-004	MW-17D	11/29/11	11:05	X	X	Duplicate of GW-112911-SAG-004
GW-112911-SAG-005	MW-17D	11/29/11	11:10	X	X	
GW-112911-SAG-006	MW-11	11/29/11	11:30	X	X	

Notes:

MS Matrix Spike.

MSD Matrix Spike Duplicate.

TABLE 2

SUMMARY OF ANALYTICAL METHODOLOGIES
BIRDSONG PEANUT
COLQUITT, GEORGIA
NOVEMBER 2011

<i>Parameter</i>	<i>Method¹</i>
Total and Dissolved Chromium	SW-846 6020A
Total and Dissolved Hexavalent Chromium	SW-846 7196

Notes:

- ¹ "Test Methods for Solid Waste Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 (with subsequent revisions).

TABLE 3

ANALYTICAL RESULTS SUMMARY
 BIRDSONG PEANUT
 COLQUITT, GEORGIA
 NOVEMBER 2011

	Location ID:	MW-6	MW-7D	MW-10
	Sample Name:	GW-112911-SAG-001	GW-112911-SAG-002	GW-112911-SAG-003
	Sample Date:	11/29/2011	11/29/2011	11/29/2011
Parameters	Units			
<i>Metals</i>				
Chromium	mg/L	0.119	0.005 U	0.099
Chromium (Dissolved)	mg/L	0.117	0.005 U	0.0875
Chromium VI (hexavalent)	mg/L	0.125	0.0100 U	0.0943
Chromium VI (hexavalent) (dissolved)	mg/L	0.126	0.0100 U	0.0932
Chromium III (trivalent)	mg/L	0.0100 U	0.0100 U	0.0100 U
Chromium III (trivalent) (dissolved)	mg/L	0.0100 U	0.0100 U	0.0100 U

TABLE 3

ANALYTICAL RESULTS SUMMARY
 BIRDSONG PEANUT
 COLQUITT, GEORGIA
 NOVEMBER 2011

	<i>Location ID:</i>	<i>MW-11</i>	<i>MW-17D</i>	<i>MW-17D</i>
	<i>Sample Name:</i>	<i>GW-112911-SAG-006</i>	<i>GW-112911-SAG-004</i>	<i>GW-112911-SAG-005</i>
	<i>Sample Date:</i>	<i>11/29/2011</i>	<i>11/29/2011</i>	<i>11/29/2011</i>
				<i>Duplicate</i>
Parameters	Units			
<i>Metals</i>				
Chromium	mg/L	0.211	0.005 U	0.005 U
Chromium (Dissolved)	mg/L	0.194	0.005 U	0.005 U
Chromium VI (hexavalent)	mg/L	0.168	0.0100 U	0.0100 U
Chromium VI (hexavalent) (dissolved)	mg/L	0.168	0.0100 U	0.0100 U
Chromium III (trivalent)	mg/L	0.0433	0.0100 U	0.0100 U
Chromium III (trivalent) (dissolved)	mg/L	0.0259	0.0100 U	0.0100 U

Note:

U - Non-detect at the associated value.



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

December 08, 2011

Bob Pyle
Conestoga, Rovers, & Associates, Inc.
3075 Breckinridge Blvd., Suite 470
Duluth GA 30096

TEL: (770) 441-0027
FAX: (770) 441-2050

RE: Birdsong Peanut

Dear Bob Pyle:

Order No: 1111L39

Analytical Environmental Services, Inc. received 6 samples on 11/29/2011 4:00:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/11-06/30/12.
- AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/13.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3785 Presidential Parkway, Atlanta GA 30340-3704

AES TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1111239

Date: 11/29/11 Page 1 of 1

COMPANY: CRA		ADDRESS: 3075 Breckenridge Blvd. Suite 470 Duluth, GA 30096		ANALYSIS REQUESTED								Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		No # of Containers			
PHONE: 770-441-0067		FAX: 770-441-2050		<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-size: small;">Total metals</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-size: small;">dissolved metals</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-size: small;">Total Hex Chrom</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-size: small;">dissolved Hex Chrom</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-size: small;">MS/LMSB</div> </div>													
SAMPLED BY: Steven Grou		SIGNATURE: <i>[Signature]</i>															
#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)	PRESERVATION (See codes)								REMARKS		
		DATE	TIME														
1	GW-112911-SAG-001	11/29/11	855	X		GW	X	X	X	X							4
2	" " " -002		1010	X			X	X	X	X	X						12
3	" " " -003		1050	X			X	X	X	X							4
4	" " " -004		1105	X			X	X	X	X							4
5	" " " -005		1110	X			X	X	X	X							4
6	" " " -006		1130	X			X	X	X	X							4
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	

RELINQUISHED BY		DATE/TIME		RECEIVED BY		DATE/TIME		PROJECT INFORMATION				RECEIPT	
1: <i>[Signature]</i>		11/29/11 1600		1: <i>[Signature]</i>		11/29/2011 16:00 pm		PROJECT NAME: Birdsong - Colquitt				Total # of Containers 32	
2:				2:				PROJECT #: 18283				Turnaround Time Request <input checked="" type="radio"/> Standard 5 Business Days <input type="radio"/> 2 Business Day Rush <input type="radio"/> Next Business Day Rush <input type="radio"/> Same Day Rush (auth req.) <input type="radio"/> Other _____	
3:				3:				SITE ADDRESS: Colquitt, GA					
								SEND REPORT TO: See SSOW					
SPECIAL INSTRUCTIONS/COMMENTS: dissolved metals to be filtered by AES Hex. Cr. dissolved field filtered See SSOW				SHIPMENT METHOD OUT / / VIA: IN <input checked="" type="radio"/> CHENT FedEx UPS MAIL COURIER GREYHOUND OTHER _____				INVOICE TO: (IF DIFFERENT FROM ABOVE) See SSOW				STATE PROGRAM (if any): _____ E-mail? Y/N; Fax? Y/N DATA PACKAGE: I II III IV	

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES.
SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water

PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Client: Conestoga, Rovers, & Associates, Inc.
Project: Birdsong Peanut
Lab ID: 1111L39

Case Narrative

At the client's request, Trivalent Chromium was also reported for all of the samples.

Hexavalent Chromium Analysis by Methods 7196:

Please note the Total Hexavalent Chromium values are reported as greater than Total Chromium values for sample 1111L39-001 and the Dissolved Hexavalent Chromium values are reported as greater than Dissolved Chromium values for samples 1111L39-001 and -003. The values are within the expected reproducibility limits for the test methods used and the results are suspected to be due to differences between the sample aliquots used for analysis. The data indicates that all Chromium present is in the Hexavalent oxidation state.

Analytical Environmental Services, Inc
Date: 8-Dec-11

Client: Conestoga, Rovers, & Associates, Inc.
Project Name: Birdsong Peanut
Lab ID: 1111L39-001

Client Sample ID: GW-112911-SAG-001
Collection Date: 11/29/2011 8:55:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A					(SW3005A)			
Chromium	119	5.00		ug/L	154824	1	12/02/2011 14:08	JY
Hexavalent Chromium, Dissolved SW7196								
Chromium as Cr+3	BRL	0.0100		mg/L	R210475	1	11/30/2011 08:15	CG
Chromium, Hexavalent	0.126	0.0100		mg/L	R210475	1	11/30/2011 08:15	CG
Hexavalent Chromium in Water SW7196								
Chromium as Cr+3	BRL	0.0100		mg/L	R210477	1	11/30/2011 08:15	CG
Chromium, Hexavalent	0.125	0.0100		mg/L	R210477	1	11/30/2011 08:15	CG
Dissolved Metals by ICP/MS SW6020A					(SW3005A)			
Chromium	117	5.00		ug/L	154773	1	12/02/2011 11:15	JY

Qualifiers:

* Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 8-Dec-11

Client:	Conestoga, Rovers, & Associates, Inc.	Client Sample ID:	GW-112911-SAG-002
Project Name:	Birdsong Peanut	Collection Date:	11/29/2011 10:10:00 AM
Lab ID:	1111L39-002	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A					(SW3005A)			
Chromium	BRL	5.00		ug/L	154824	1	12/02/2011 12:17	JY
Hexavalent Chromium, Dissolved SW7196								
Chromium as Cr+3	BRL	0.0100		mg/L	R210475	1	11/30/2011 08:15	CG
Chromium, Hexavalent	BRL	0.0100		mg/L	R210475	1	11/30/2011 08:15	CG
Hexavalent Chromium in Water SW7196								
Chromium as Cr+3	BRL	0.0100		mg/L	R210477	1	11/30/2011 08:15	CG
Chromium, Hexavalent	BRL	0.0100		mg/L	R210477	1	11/30/2011 08:15	CG
Dissolved Metals by ICP/MS SW6020A					(SW3005A)			
Chromium	BRL	5.00		ug/L	154773	1	12/01/2011 15:10	JY

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- II Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 8-Dec-11

Client: Conestoga, Rovers, & Associates, Inc.
Project Name: Birdsong Peanut
Lab ID: 1111L39-003

Client Sample ID: GW-112911-SAG-003
Collection Date: 11/29/2011 10:30:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A					(SW3005A)			
Chromium	99.0	25.0		ug/L	154824	5	12/02/2011 16:18	JY
Hexavalent Chromium, Dissolved SW7196								
Chromium as Cr+3	BRL	0.0100		mg/L	R210475	1	11/30/2011 08:15	CG
Chromium, Hexavalent	0.0932	0.0100		mg/L	R210475	1	11/30/2011 08:15	CG
Hexavalent Chromium in Water SW7196								
Chromium as Cr+3	BRL	0.0100		mg/L	R210477	1	11/30/2011 08:15	CG
Chromium, Hexavalent	0.0943	0.0100		mg/L	R210477	1	11/30/2011 08:15	CG
Dissolved Metals by ICP/MS SW6020A					(SW3005A)			
Chromium	87.5	10.0		ug/L	154773	2	12/02/2011 11:21	JY

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 8-Dec-11

Client:	Conestoga, Rovers, & Associates, Inc.	Client Sample ID:	GW-112911-SAG-004
Project Name:	Birdsong Peanut	Collection Date:	11/29/2011 11:05:00 AM
Lab ID:	1111L39-004	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A					(SW3005A)			
Chromium	BRL	5.00		ug/L	154824	1	12/02/2011 14:39	JY
Hexavalent Chromium, Dissolved SW7196								
Chromium as Cr+3	BRL	0.0100		mg/L	R210475	1	11/30/2011 08:15	CG
Chromium, Hexavalent	BRL	0.0100		mg/L	R210475	1	11/30/2011 08:15	CG
Hexavalent Chromium in Water SW7196								
Chromium as Cr+3	BRL	0.0100		mg/L	R210477	1	11/30/2011 08:15	CG
Chromium, Hexavalent	BRL	0.0100		mg/L	R210477	1	11/30/2011 08:15	CG
Dissolved Metals by ICP/MS SW6020A					(SW3005A)			
Chromium	BRL	5.00		ug/L	154773	1	12/02/2011 11:27	JY

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 8-Dec-11

Client: Conestoga, Rovers, & Associates, Inc.
Project Name: Birdsong Peanut
Lab ID: 1111L39-005

Client Sample ID: GW-112911-SAG-005
Collection Date: 11/29/2011 11:10:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A					(SW3005A)			
Chromium	BRL	5.00		ug/L	154824	1	12/02/2011 14:45	JY
Hexavalent Chromium, Dissolved SW7196								
Chromium as Cr+3	BRL	0.0100		mg/L	R210475	1	11/30/2011 08:15	CG
Chromium, Hexavalent	BRL	0.0100		mg/L	R210475	1	11/30/2011 08:15	CG
Hexavalent Chromium in Water SW7196								
Chromium as Cr+3	BRL	0.0100		mg/L	R210477	1	11/30/2011 08:15	CG
Chromium, Hexavalent	BRL	0.0100		mg/L	R210477	1	11/30/2011 08:15	CG
Dissolved Metals by ICP/MS SW6020A					(SW3005A)			
Chromium	BRL	5.00		ug/L	154773	1	12/02/2011 11:52	JY

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 8-Dec-11

Client:	Conestoga, Rovers, & Associates, Inc.	Client Sample ID:	GW-112911-SAG-006
Project Name:	Birdsong Peanut	Collection Date:	11/29/2011 11:30:00 AM
Lab ID:	1111L39-006	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A					(SW3005A)			
Chromium	211	10.0		ug/L	154824	2	12/02/2011 16:02	JY
Hexavalent Chromium, Dissolved SW7196								
Chromium as Cr+3	0.0259	0.0100		mg/L	R210475	1	11/30/2011 08:15	CG
Chromium, Hexavalent	0.168	0.0100		mg/L	R210475	1	11/30/2011 08:15	CG
Hexavalent Chromium in Water SW7196								
Chromium as Cr+3	0.0433	0.0100		mg/L	R210477	1	11/30/2011 08:15	CG
Chromium, Hexavalent	0.168	0.0100		mg/L	R210477	1	11/30/2011 08:15	CG
Dissolved Metals by ICP/MS SW6020A					(SW3005A)			
Chromium	194	5.00		ug/L	154773	1	12/02/2011 11:58	JY

Qualifiers:

* Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client CRA Work Order Number 1111L 39

Checklist completed by N. M. H. Date 11/29/11
Signature Date

Carrier name: FedEx ☐ UPS ☐ Courier ☐ Client ☒ US Mail ☐ Other ☐

Shipping container/cooler in good condition? Yes ☒ No ☐ Not Present ☐

Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☒

Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒

Container/Temp Blank temperature in compliance? ($4^{\circ}\text{C} \pm 2$)* Yes ☒ No ☐

Cooler #1 3-3 Cooler #2 ☐ Cooler #3 ☐ Cooler #4 ☐ Cooler #5 ☐ Cooler #6 ☐

Chain of custody present? Yes ☒ No ☐

Chain of custody signed when relinquished and received? Yes ☒ No ☐

Chain of custody agrees with sample labels? Yes ☒ No ☐

Samples in proper container/bottle? Yes ☐ No ☐

Sample containers intact? Yes ☒ No ☐

Sufficient sample volume for indicated test? Yes ☒ No ☐

All samples received within holding time? Yes ☒ No ☐

Was TAT marked on the COC? Yes ☒ No ☐

Proceed with Standard TAT as per project history? Yes ☐ No ☐ Not Applicable ☒

Water - VOA vials have zero headspace? No VOA vials submitted ☒ Yes ☐ No ☐

Water - pH acceptable upon receipt? Yes ☒ No ☐ Not Applicable ☐

Adjusted? ☐ Checked by N. M. H.

Sample Condition: Good ☒ Other(Explain) ☐

(For diffusive samples or AIHA lead) Is a known blank included? Yes ☐ No ☒

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

\\L\Quality Assurance\Checklists Procedures Sign-Off Templates\Checklists\Sample Receipt Checklists\Sample_Cooler_Receipt_Checklist

Analytical Environmental Services, Inc

Date: 6-Dec-11

Client: Conestoga, Rovers, & Associates, Inc.
Project: Birdsong Peanut
Lab Order: 1111L39

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1111L39-001A	GW-112911-SAG-001	11/29/2011 8:55:00AM	Groundwater	Total Metals by ICP/MS		12/01/2011	12/02/2011
1111L39-001B	GW-112911-SAG-001	11/29/2011 8:55:00AM	Groundwater	Dissolved Metals by ICP/MS		11/30/2011	12/02/2011
1111L39-001C	GW-112911-SAG-001	11/29/2011 8:55:00AM	Groundwater	Hexavalent Chromium			11/30/2011
1111L39-001D	GW-112911-SAG-001	11/29/2011 8:55:00AM	Groundwater	Hexavalent Chromium, Dissolved			11/30/2011
1111L39-002A	GW-112911-SAG-002	11/29/2011 10:10:00AM	Groundwater	Total Metals by ICP/MS		12/01/2011	12/02/2011
1111L39-002B	GW-112911-SAG-002	11/29/2011 10:10:00AM	Groundwater	Dissolved Metals by ICP/MS		11/30/2011	12/01/2011
1111L39-002C	GW-112911-SAG-002	11/29/2011 10:10:00AM	Groundwater	Hexavalent Chromium			11/30/2011
1111L39-002D	GW-112911-SAG-002	11/29/2011 10:10:00AM	Groundwater	Hexavalent Chromium, Dissolved			11/30/2011
1111L39-003A	GW-112911-SAG-003	11/29/2011 10:30:00AM	Groundwater	Total Metals by ICP/MS		12/01/2011	12/02/2011
1111L39-003B	GW-112911-SAG-003	11/29/2011 10:30:00AM	Groundwater	Dissolved Metals by ICP/MS		11/30/2011	12/02/2011
1111L39-003C	GW-112911-SAG-003	11/29/2011 10:30:00AM	Groundwater	Hexavalent Chromium			11/30/2011
1111L39-003D	GW-112911-SAG-003	11/29/2011 10:30:00AM	Groundwater	Hexavalent Chromium, Dissolved			11/30/2011
1111L39-004A	GW-112911-SAG-004	11/29/2011 11:05:00AM	Groundwater	Total Metals by ICP/MS		12/01/2011	12/02/2011
1111L39-004B	GW-112911-SAG-004	11/29/2011 11:05:00AM	Groundwater	Dissolved Metals by ICP/MS		11/30/2011	12/02/2011
1111L39-004C	GW-112911-SAG-004	11/29/2011 11:05:00AM	Groundwater	Hexavalent Chromium			11/30/2011
1111L39-004D	GW-112911-SAG-004	11/29/2011 11:05:00AM	Groundwater	Hexavalent Chromium, Dissolved			11/30/2011
1111L39-005A	GW-112911-SAG-005	11/29/2011 11:10:00AM	Groundwater	Total Metals by ICP/MS		12/01/2011	12/02/2011
1111L39-005B	GW-112911-SAG-005	11/29/2011 11:10:00AM	Groundwater	Dissolved Metals by ICP/MS		11/30/2011	12/02/2011
1111L39-005C	GW-112911-SAG-005	11/29/2011 11:10:00AM	Groundwater	Hexavalent Chromium			11/30/2011
1111L39-005D	GW-112911-SAG-005	11/29/2011 11:10:00AM	Groundwater	Hexavalent Chromium, Dissolved			11/30/2011
1111L39-006A	GW-112911-SAG-006	11/29/2011 11:30:00AM	Groundwater	Total Metals by ICP/MS		12/01/2011	12/02/2011
1111L39-006B	GW-112911-SAG-006	11/29/2011 11:30:00AM	Groundwater	Dissolved Metals by ICP/MS		11/30/2011	12/02/2011
1111L39-006C	GW-112911-SAG-006	11/29/2011 11:30:00AM	Groundwater	Hexavalent Chromium			11/30/2011
1111L39-006D	GW-112911-SAG-006	11/29/2011 11:30:00AM	Groundwater	Hexavalent Chromium, Dissolved			11/30/2011

Client: Conestoga, Rovers, & Associates, Inc.
 Project Name: Birdsong Peanut
 Workorder: 1111L39

ANALYTICAL QC SUMMARY REPORT

BatchID: 154773

Sample ID: MB-154773	Client ID:					Units: ug/L	Prep Date: 11/30/2011		Run No: 210497		
SampleType: MBLK	TestCode: Dissolved Metals by ICP/MS	SW6020A				BatchID: 154773	Analysis Date: 12/01/2011		Seq No: 4399796		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium	BRL	5.00	0	0	0	0	0	0	0	0	

Sample ID: LCS-154773	Client ID:					Units: ug/L	Prep Date: 11/30/2011		Run No: 210497		
SampleType: LCS	TestCode: Dissolved Metals by ICP/MS	SW6020A				BatchID: 154773	Analysis Date: 12/01/2011		Seq No: 4399794		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium	98.51	5.00	100	0	98.5	80	120	0	0	0	

Sample ID: 1111L39-002BMS	Client ID: GW-112911-SAG-002					Units: ug/L	Prep Date: 11/30/2011		Run No: 210497		
SampleType: MS	TestCode: Dissolved Metals by ICP/MS	SW6020A				BatchID: 154773	Analysis Date: 12/01/2011		Seq No: 4399802		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium	100.5	5.00	100	4.792	95.7	75	125	0	0	0	

Sample ID: 1111L39-002BMSD	Client ID: GW-112911-SAG-002					Units: ug/L	Prep Date: 11/30/2011		Run No: 210497		
SampleType: MSD	TestCode: Dissolved Metals by ICP/MS	SW6020A				BatchID: 154773	Analysis Date: 12/01/2011		Seq No: 4399803		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium	99.64	5.00	100	4.792	94.8	75	125	100.5	0.859	20	

Qualifiers: > Greater than Result value
 BRL Below reporting limit
 J Estimated value detected below Reporting Limit
 Rpt Lim Reporting Limit

< Less than Result value
 E Estimated (value above quantitation range)
 N Analyte not NELAC certified
 S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank
 H Holding times for preparation or analysis exceeded
 R RPD outside limits due to matrix

Client: Conestoga, Rovers, & Associates, Inc.
 Project Name: Birdsong Peanut
 Workorder: 1111L39

ANALYTICAL QC SUMMARY REPORT

BatchID: 154824

Sample ID: MB-154824	Client ID:					Units: ug/L	Prep Date: 12/01/2011		Run No: 210560		
SampleType: MBLK	TestCode: Total Metals by ICP/MS	SW6020A				BatchID: 154824	Analysis Date: 12/02/2011		Seq No: 4401028		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium	BRL	5.00	0	0	0	0	0	0	0	0	

Sample ID: LCS-154824	Client ID:					Units: ug/L	Prep Date: 12/01/2011		Run No: 210560		
SampleType: LCS	TestCode: Total Metals by ICP/MS	SW6020A				BatchID: 154824	Analysis Date: 12/02/2011		Seq No: 4401027		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium	104.1	5.00	100	0	104	80	120	0	0	0	

Sample ID: 1111L39-002AMS	Client ID: GW-112911-SAG-002					Units: ug/L	Prep Date: 12/01/2011		Run No: 210560		
SampleType: MS	TestCode: Total Metals by ICP/MS	SW6020A				BatchID: 154824	Analysis Date: 12/02/2011		Seq No: 4401030		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium	108.3	5.00	100	4.815	103	75	125	0	0	0	

Sample ID: 1111L39-002AMSD	Client ID: GW-112911-SAG-002					Units: ug/L	Prep Date: 12/01/2011		Run No: 210560		
SampleType: MSD	TestCode: Total Metals by ICP/MS	SW6020A				BatchID: 154824	Analysis Date: 12/02/2011		Seq No: 4401031		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium	108.3	5.00	100	4.815	103	75	125	108.3	0	20	

Qualifiers: > Greater than Result value
 BRL Below reporting limit
 J Estimated value detected below Reporting Limit
 Rpt.Lim Reporting Limit

< Less than Result value
 E Estimated (value above quantitation range)
 N Analyte not NELAC certified
 S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank
 H Holding times for preparation or analysis exceeded
 R RPD outside limits due to matrix

Client: Conestoga, Rovers, & Associates, Inc.
 Project Name: Birdsong Peanut
 Workorder: 1111L39

ANALYTICAL QC SUMMARY REPORT

BatchID: R210475

Sample ID: MB-R210475	Client ID:					Units: mg/L	Prep Date:		Run No: 210475		
SampleType: MBLK	TestCode: Hexavalent Chromium, Dissolved	SW7196					BatchID: R210475	Analysis Date: 11/30/2011		Seq No: 4399423	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium as Cr+3	BRL	0.0100	0	0	0	0	0	0	0	0	
Chromium, Hexavalent	BRL	0.0100	0	0	0	0	0	0	0	0	

Sample ID: LCS-R210475	Client ID:					Units: mg/L	Prep Date:		Run No: 210475		
SampleType: LCS	TestCode: Hexavalent Chromium, Dissolved	SW7196					BatchID: R210475	Analysis Date: 11/30/2011		Seq No: 4399424	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.5165	0.0100	0.5	0	103	90	110	0	0	0	

Sample ID: 1111L39-002DMS	Client ID: GW-112911-SAG-002					Units: mg/L	Prep Date:		Run No: 210475		
SampleType: MS	TestCode: Hexavalent Chromium, Dissolved	SW7196					BatchID: R210475	Analysis Date: 11/30/2011		Seq No: 4399431	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.4994	0.0100	0.5	0.005500	98.8	85	115	0	0	0	

Sample ID: 1111L39-002DMSD	Client ID: GW-112911-SAG-002					Units: mg/L	Prep Date:		Run No: 210475		
SampleType: MSD	TestCode: Hexavalent Chromium, Dissolved	SW7196					BatchID: R210475	Analysis Date: 11/30/2011		Seq No: 4399433	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.5038	0.0100	0.5	0.005500	99.7	85	115	0.4994	0.877	20	

Qualifiers: > Greater than Result value
 BRL Below reporting limit
 J Estimated value detected below Reporting Limit
 Rpt Lim Reporting Limit

< Less than Result value
 E Estimated (value above quantitation range)
 N Analyte not NELAC certified
 S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank
 H Holding times for preparation or analysis exceeded
 R RPD outside limits due to matrix

Client: Conestoga, Rovers, & Associates, Inc.
 Project Name: Birdsong Peanut
 Workorder: 1111L39

ANALYTICAL QC SUMMARY REPORT

BatchID: R210477

Sample ID: MB-R210477		Client ID:				Units: mg/L		Prep Date:		Run No: 210477	
SampleType: MBLK		TestCode: Hexavalent Chromium in Water SW7196				BatchID: R210477		Analysis Date: 11/30/2011		Seq No: 4399446	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium as Cr+3	BRL	0.0100	0	0	0	0	0	0	0	0	
Chromium, Hexavalent	BRL	0.0100	0	0	0	0	0	0	0	0	

Sample ID: LCS-R210477		Client ID:				Units: mg/L		Prep Date:		Run No: 210477	
SampleType: LCS		TestCode: Hexavalent Chromium in Water SW7196				BatchID: R210477		Analysis Date: 11/30/2011		Seq No: 4399447	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.5165	0.0100	0.5	0	103	90	110	0	0	0	

Sample ID: 1111L39-002CMS		Client ID: GW-112911-SAG-002				Units: mg/L		Prep Date:		Run No: 210477	
SampleType: MS		TestCode: Hexavalent Chromium in Water SW7196				BatchID: R210477		Analysis Date: 11/30/2011		Seq No: 4399456	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.5000	0.0100	0.5	0.008200	98.4	85	115	0	0	0	

Sample ID: 1111L39-002CMSD		Client ID: GW-112911-SAG-002				Units: mg/L		Prep Date:		Run No: 210477	
SampleType: MSD		TestCode: Hexavalent Chromium in Water SW7196				BatchID: R210477		Analysis Date: 11/30/2011		Seq No: 4399458	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.4994	0.0100	0.5	0.008200	98.2	85	115	0.5000	0.12	20	

Qualifiers: > Greater than Result value
 BRL Below reporting limit
 J Estimated value detected below Reporting Limit
 Rpt Lim Reporting Limit

< Less than Result value
 E Estimated (value above quantitation range)
 N Analyte not NELAC certified
 S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank
 H Holding times for preparation or analysis exceeded
 R RPD outside limits due to matrix

KMnO₄ Analysis for Sample Collected November 29, 2011

Birdsong Peanut Plant

Colquitt, GA

Project # 18283

<i>Sample/Parameter</i>	<i>Units</i>	<i>GW-112911-SAG-001</i> <i>11/29/2011</i>	<i>GW-112911-SAG-002</i> <i>11/29/2011</i>	<i>GW-112911-SAG-003</i> <i>11/29/2011</i>	<i>GW-112911-SAG-004</i> <i>11/29/2011</i>	<i>GW-112911-SAG-005</i> <i>11/29/2011</i>	<i>GW-112911-SAG-006</i> <i>11/29/2011</i>
<i>KMnO₄</i>	<i>(mg/L)</i>	ND(0.25)	ND(0.25)	ND(0.25)	ND(0.25)	ND(0.25)	ND(0.25)



**CONESTOGA-ROVERS
& ASSOCIATES**

2055 Niagara Falls Blvd., Suite #3
Niagara Falls, New York 14304
Telephone: (716) 297-6150 Fax: (716) 297-2265
www.CRAworld.com

MEMORANDUM

TO: Bob Pyle

FROM: Paul McMahon/bjw/8 *PM*

CC: Terefe Mazengia

RE: Data Quality Assessment and Validation
Birdsong Peanut
Colquitt, Georgia
December 2011

REF. NO.: 018283

DATE: January 20, 2012

E-Mail and Hard Copy if Requested

INTRODUCTION

The following details a quality assessment and validation of the analytical data resulting from the collection of groundwater samples from the Birdsong Peanut site in Colquitt, Georgia, December 29, 2011. The sample summary detailing sample identification, sample location, and analytical parameters is presented in Table 1. Sample analysis was completed at Analytical Environmental Services, in Atlanta, Georgia, in accordance with the methodologies presented in Table 2. The analytical results summary is presented in Table 3. The quality control (QC) criteria used to assess the data were established by the methods and the document, "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review," United States Environmental Protection Agency (USEPA) 540/R-94-013, February 1994.

A data quality assessment and validation was performed based on the sample results and supporting quality assurance/quality control (QA/QC) provided.

HOLDING TIME PERIOD AND SAMPLE ANALYSIS

The holding time periods are presented in the analytical methods. All samples were prepared and analyzed within the method-required holding times. All samples were properly cooled to 4°C ($\pm 2^\circ\text{C}$) after collection.

METHOD BLANK SAMPLES

Method blanks are prepared and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the preparation and analytical procedures.

For this study, method blanks were analyzed at a minimum frequency of one per analytical batch. The blank results were non-detect for all analytes of interest.

LABORATORY CONTROL SAMPLE (LCS) ANALYSIS

The LCS serves as a measure of overall analytical performance. LCSs are prepared with all analytes of interest and analyzed with each sample batch. The LCS recoveries were within the laboratory specified control limits for all analytes of interest, demonstrating acceptable overall analytical accuracy.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) ANALYSES

MS/MSD samples are prepared and analyzed with the samples for each metal. The recoveries of spike analyses are used to assess the analytical accuracy achieved on individual sample matrices. If the original sample concentration is significantly greater than the spike concentration, the recovery is not assessed. The relative percent difference (RPD) between the MS and MSD is used to assess analytical precision.

Some site-specific MS/MSD analyses were performed by the laboratory internally. All results were within the laboratory control limits, indicating acceptable analytical accuracy and precision.

FIELD DUPLICATE

As summarized in Table 1, one sample was collected in duplicate and was submitted to the laboratory for analysis. Most sample results showed acceptable sampling and analytical precision. The dissolved hexavalent chromium results for the field duplicate sample did not agree at all with either the original sample result or historical data for the well. The laboratory and field procedures were evaluated, and no discernable cause for the discrepancy could be identified. Based on this, the dissolved hexavalent and trivalent chromium results for the field duplicate sample were not used for this investigation.

OVERALL ASSESSMENT

The data reported in Table 3 were found to exhibit acceptable levels of accuracy and precision, based on the provided information, and may be used as reported without qualification.

TABLE 1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
 BIRDSONG PEANUT
 COLQUITT, GEORGIA
 DECEMBER 2011

Sample ID	Location ID	Collection Date (mm/dd/yy)	Collection Time (hr:min)	Analysis/Parameters		Comments
				Total Chromium & Hexavalent Chromium(1)	Dissolved Chromium & Hexavalent Chromium(1)	
GW-122911-SAG-001	MW-6	12/29/11	9:10	X	X	Duplicate of GW-122911-SAG-001
GW-122911-SAG-002	MW-6	12/29/11	9:15	X	X	
GW-122911-SAG-003	MW-7D	12/29/11	10:40	X	X	
GW-122911-SAG-004	MW-10	12/29/11	10:55	X	X	
GW-122911-SAG-005	MW-17D	12/29/11	11:10	X	X	
GW-112911-SAG-006	MW-11	12/29/11	11:20	X	X	

Note:

(1) Trivalent Chromium determined by difference.

TABLE 2
SUMMARY OF ANALYTICAL METHODOLOGIES
BIRDSONG PEANUT
COLQUITT, GEORGIA
DECEMBER 2011

<i>Parameter</i>	<i>Method</i> ¹
Total and Dissolved Chromium	SW-846 6020A
Total and Dissolved Hexavalent Chromium	SW-846 7196

Notes:

- ¹ "Test Methods for Solid Waste Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 (with subsequent revisions).

TABLE 3

**ANALYTICAL RESULTS SUMMARY
BIRDSONG PEANUT
COLQUITT, GEORGIA
DECEMBER 2011**

		<i>Location ID:</i>	MW-6	MW-6	MW-7D	MW-10	MW-11	MW-17D
		<i>Sample Name:</i>	GW-122911-SAG-001	GW-122911-SAG-002	GW-122911-SAG-003	GW-122911-SAG-004	GW-122911-SAG-006	GW-122911-SAG-005
		<i>Sample Date:</i>	12/29/2011	12/29/2011	12/29/2011	12/29/2011	12/29/2011	12/29/2011
				<i>Duplicate</i>				
<i>Parameters</i>	<i>Units</i>							
<i>Metals</i>								
Chromium	mg/L		0.11	0.111	0.005 U	0.0884	0.204	0.005 U
Chromium (dissolved)	mg/L		0.11	0.117	0.005 U	0.0792	0.187	0.005 U
Chromium VI (hexavalent)	mg/L		0.110	0.113	0.0100 U	0.0700	0.240	0.0100 U
Chromium VI (hexavalent) (dissolved)	mg/L		0.104	-	0.0100 U	0.0612	0.178	0.0100 U
Chromium III (trivalent)	mg/L		0.0100 U	0.0100 U	0.0100 U	0.0184	0.0100 U	0.0100 U
Chromium III (trivalent) (dissolved)	mg/L		0.0100 U	-	0.0100 U	0.0180	0.0100 U	0.0100 U

Note:

U - Non-detect at the associated value.

- Not analyzed.



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

January 10, 2012

Bob Pyle
Conestoga, Rovers, & Associates, Inc.
3075 Breckinridge Blvd., Suite 470
Duluth GA 30096

TEL: (770) 441-0027
FAX: (770) 441-2050

RE: Birdsong Peanut

Dear Bob Pyle:

Order No: 1112056

Analytical Environmental Services, Inc. received 6 samples on 12/29/2011 3:20:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/11-06/30/12.
- AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/13.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager

111 2056

Page 2 of 15

Client: Conestoga, Rovers, & Associates, Inc.
Project: Birdsong Peanut
Lab ID: 1112O56

Case Narrative

The container submitted for Dissolved Hexavalent Chromium analysis for sample 1112O56-001 was labeled as "GW-122911-SAG-002" with a collection date and time of 12/29/2011 at 9:10AM. The sample was logged in according to the Chain of Custody.

Hexavalent Chromium by Method 7196:

Please note the Hexavalent Chromium values are reported as greater than Total Chromium values for samples 1112O56-002, -006. The values are within the expected reproducibility limits for the test methods used and the results are suspected to be due to differences between the sample aliquots used for analysis. The data indicates that all Chromium present is in the Hexavalent oxidation state.

Analytical Environmental Services, Inc
Date: 10-Jan-12

Client: Conestoga, Rovers, & Associates, Inc.
Project Name: Birdsong Peanut
Lab ID: 1112056-001

Client Sample ID: GW-122911-SAG-001
Collection Date: 12/29/2011 9:10:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A					(SW3005A)			
Chromium	110	5.00		ug/L	156098	1	01/04/2012 11:27	JY
Hexavalent Chromium, Dissolved SW7196								
Chromium as Cr+3	BRL	0.0100		mg/L	R212598	1	12/29/2011 17:00	CG
Chromium, Hexavalent	0.104	0.0100		mg/L	R212598	1	12/29/2011 17:00	CG
Hexavalent Chromium in Water SW7196								
Chromium as Cr+3	BRL	0.0100		mg/L	R212501	1	12/29/2011 17:00	CG
Chromium, Hexavalent	0.110	0.0100		mg/L	R212501	1	12/29/2011 17:00	CG
Dissolved Metals by ICP/MS SW6020A					(SW3005A)			
Chromium	110	5.00		ug/L	156064	1	01/03/2012 17:55	JY

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 10-Jan-12

Client:	Conestoga, Rovers, & Associates, Inc.	Client Sample ID:	GW-122911-SAG-002
Project Name:	Birdsong Peanut	Collection Date:	12/29/2011 9:15:00 AM
Lab ID:	1112056-002	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A					(SW3005A)			
Chromium	111	5.00		ug/L	156098	1	01/04/2012 11:34	JY
Hexavalent Chromium, Dissolved SW7196								
Chromium as Cr+3	0.112	0.0100		mg/L	R212598	1	12/29/2011 17:00	CG
Chromium, Hexavalent	BRL	0.0100		mg/L	R212598	1	12/29/2011 17:00	CG
Hexavalent Chromium in Water SW7196								
Chromium as Cr+3	BRL	0.0100		mg/L	R212501	1	12/29/2011 17:00	CG
Chromium, Hexavalent	0.113	0.0100		mg/L	R212501	1	12/29/2011 17:00	CG
Dissolved Metals by ICP/MS SW6020A					(SW3005A)			
Chromium	117	5.00		ug/L	156064	1	01/03/2012 18:01	JY

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 10-Jan-12

Client: Conestoga, Rovers, & Associates, Inc.
Project Name: Birdsong Peanut
Lab ID: 1112056-003

Client Sample ID: GW-122911-SAG-003
Collection Date: 12/29/2011 10:40:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A					(SW3005A)			
Chromium	BRL	5.00		ug/L	156098	1	01/04/2012 15:17	JY
Hexavalent Chromium, Dissolved SW7196								
Chromium as Cr+3	BRL	0.0100		mg/L	R212598	1	12/29/2011 17:00	CG
Chromium, Hexavalent	BRL	0.0100		mg/L	R212598	1	12/29/2011 17:00	CG
Hexavalent Chromium in Water SW7196								
Chromium as Cr+3	BRL	0.0100		mg/L	R212501	1	12/29/2011 17:00	CG
Chromium, Hexavalent	BRL	0.0100		mg/L	R212501	1	12/29/2011 17:00	CG
Dissolved Metals by ICP/MS SW6020A					(SW3005A)			
Chromium	BRL	5.00		ug/L	156064	1	01/03/2012 18:07	JY

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
 H Holding times for preparation or analysis exceeded
 N Analyte not NELAC certified
 B Analyte detected in the associated method blank
 > Greater than Result value

E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 10-Jan-12

Client:	Conestoga, Rovers, & Associates, Inc.	Client Sample ID:	GW-122911-SAG-004
Project Name:	Birdsong Peanut	Collection Date:	12/29/2011 11:10:00 AM
Lab ID:	1112056-004	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A					(SW3005A)			
Chromium	88.4	5.00		ug/L	156098	1	01/04/2012 15:23	JY
Hexavalent Chromium, Dissolved SW7196								
Chromium as Cr+3	0.0180	0.0100		mg/L	R212598	1	12/29/2011 17:00	CG
Chromium, Hexavalent	0.0612	0.0100		mg/L	R212598	1	12/29/2011 17:00	CG
Hexavalent Chromium in Water SW7196								
Chromium as Cr+3	0.0184	0.0100		mg/L	R212501	1	12/29/2011 17:00	CG
Chromium, Hexavalent	0.0700	0.0100		mg/L	R212501	1	12/29/2011 17:00	CG
Dissolved Metals by ICP/MS SW6020A					(SW3005A)			
Chromium	79.2	5.00		ug/L	156064	1	01/03/2012 18:32	JY

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- II Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 10-Jan-12

Client: Conestoga, Rovers, & Associates, Inc.
Project Name: Birdsong Peanut
Lab ID: 1112O56-005

Client Sample ID: GW-122911-SAG-005
Collection Date: 12/29/2011 11:20:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A					(SW3005A)			
Chromium	BRL	5.00		ug/L	156098	1	01/04/2012 15:30	JY
Hexavalent Chromium, Dissolved SW7196								
Chromium as Cr+3	BRL	0.0100		mg/L	R212598	1	12/29/2011 17:00	CG
Chromium, Hexavalent	BRL	0.0100		mg/L	R212598	1	12/29/2011 17:00	CG
Hexavalent Chromium in Water SW7196								
Chromium as Cr+3	BRL	0.0100		mg/L	R212501	1	12/29/2011 17:00	CG
Chromium, Hexavalent	BRL	0.0100		mg/L	R212501	1	12/29/2011 17:00	CG
Dissolved Metals by ICP/MS SW6020A					(SW3005A)			
Chromium	BRL	5.00		ug/L	156064	1	01/03/2012 18:38	JY

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 10-Jan-12

Client:	Conestoga, Rovers, & Associates, Inc.	Client Sample ID:	GW-122911-SAG-006
Project Name:	Birdsong Peanut	Collection Date:	12/29/2011 11:40:00 AM
Lab ID:	1112056-006	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A					(SW3005A)			
Chromium	204	5.00		ug/L	156098	1	01/04/2012 15:36	JY
Hexavalent Chromium, Dissolved SW7196								
Chromium as Cr+3	BRL	0.0100		mg/L	R212598	1	12/29/2011 17:00	CG
Chromium, Hexavalent	0.178	0.0100		mg/L	R212598	1	12/29/2011 17:00	CG
Hexavalent Chromium in Water SW7196								
Chromium as Cr+3	BRL	0.0100		mg/L	R212501	1	12/29/2011 17:00	CG
Chromium, Hexavalent	0.240	0.0100		mg/L	R212501	1	12/29/2011 17:00	CG
Dissolved Metals by ICP/MS SW6020A					(SW3005A)			
Chromium	187	5.00		ug/L	156064	1	01/03/2012 17:24	JY

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- II Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client CRA Work Order Number 1112056

Checklist completed by PT Date 12/29/11

Carrier name: FedEx ☐ UPS ☐ Courier ☐ Client ☒ US Mail ☐ Other ☐

Shipping container/cooler in good condition? Yes ☒ No ☐ Not Present ☐

Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☒

Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒

Container/Temp Blank temperature in compliance? (4°C±2)* Yes ☒ No ☐

Cooler #1 3.4°C Cooler #2 ☐ Cooler #3 ☐ Cooler #4 ☐ Cooler #5 ☐ Cooler #6 ☐

Chain of custody present? Yes ☒ No ☐

Chain of custody signed when relinquished and received? Yes ☒ No ☐

Chain of custody agrees with sample labels? PT 12/29/11 Yes ☒ No ☐

Samples in proper container/bottle? Yes ☒ No ☐

Sample containers intact? Yes ☒ No ☐

Sufficient sample volume for indicated test? Yes ☒ No ☐

All samples received within holding time? Yes ☒ No ☐

Was TAT marked on the COC? Yes ☐ No ☒

Proceed with Standard TAT as per project history? Yes ☒ No ☐ Not Applicable ☐

Water - VOA vials have zero headspace? No VOA vials submitted ☒ Yes ☐ No ☐

Water - pH acceptable upon receipt? Yes ☒ No ☐ Not Applicable ☐

Adjusted? ☐ Checked by PT

Sample Condition: Good ☒ Other(Explain) ☐

(For diffusive samples or AIHA lead) Is a known blank included? Yes ☐ No ☒

* Samples do not have to comply with the given range for certain parameters.

See Case Narrative for resolution of the Non-Conformance.

Client: Conestoga, Rovers, & Associates, Inc.
 Project: Birdsong Peanut
 Lab Order: 1112O56

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1112O56-001A	GW-122911-SAG-001	12/29/2011 9:10:00AM	Groundwater	Total Metals by ICP/MS		01/03/2012	01/04/2012
1112O56-001B	GW-122911-SAG-001	12/29/2011 9:10:00AM	Groundwater	Dissolved Metals by ICP/MS		12/30/2011	01/03/2012
1112O56-001C	GW-122911-SAG-001	12/29/2011 9:10:00AM	Groundwater	Hexavalent Chromium			12/29/2011
1112O56-001D	GW-122911-SAG-001	12/29/2011 9:10:00AM	Groundwater	Hexavalent Chromium, Dissolved			12/29/2011
1112O56-002A	GW-122911-SAG-002	12/29/2011 9:15:00AM	Groundwater	Total Metals by ICP/MS		01/03/2012	01/04/2012
1112O56-002B	GW-122911-SAG-002	12/29/2011 9:15:00AM	Groundwater	Dissolved Metals by ICP/MS		12/30/2011	01/03/2012
1112O56-002C	GW-122911-SAG-002	12/29/2011 9:15:00AM	Groundwater	Hexavalent Chromium			12/29/2011
1112O56-002D	GW-122911-SAG-002	12/29/2011 9:15:00AM	Groundwater	Hexavalent Chromium, Dissolved			12/29/2011
1112O56-003A	GW-122911-SAG-003	12/29/2011 10:40:00AM	Groundwater	Total Metals by ICP/MS		01/03/2012	01/04/2012
1112O56-003B	GW-122911-SAG-003	12/29/2011 10:40:00AM	Groundwater	Dissolved Metals by ICP/MS		12/30/2011	01/03/2012
1112O56-003C	GW-122911-SAG-003	12/29/2011 10:40:00AM	Groundwater	Hexavalent Chromium			12/29/2011
1112O56-003D	GW-122911-SAG-003	12/29/2011 10:40:00AM	Groundwater	Hexavalent Chromium, Dissolved			12/29/2011
1112O56-004A	GW-122911-SAG-004	12/29/2011 11:10:00AM	Groundwater	Total Metals by ICP/MS		01/03/2012	01/04/2012
1112O56-004B	GW-122911-SAG-004	12/29/2011 11:10:00AM	Groundwater	Dissolved Metals by ICP/MS		12/30/2011	01/03/2012
1112O56-004C	GW-122911-SAG-004	12/29/2011 11:10:00AM	Groundwater	Hexavalent Chromium			12/29/2011
1112O56-004D	GW-122911-SAG-004	12/29/2011 11:10:00AM	Groundwater	Hexavalent Chromium, Dissolved			12/29/2011
1112O56-005A	GW-122911-SAG-005	12/29/2011 11:20:00AM	Groundwater	Total Metals by ICP/MS		01/03/2012	01/04/2012
1112O56-005B	GW-122911-SAG-005	12/29/2011 11:20:00AM	Groundwater	Dissolved Metals by ICP/MS		12/30/2011	01/03/2012
1112O56-005C	GW-122911-SAG-005	12/29/2011 11:20:00AM	Groundwater	Hexavalent Chromium			12/29/2011
1112O56-005D	GW-122911-SAG-005	12/29/2011 11:20:00AM	Groundwater	Hexavalent Chromium, Dissolved			12/29/2011
1112O56-006A	GW-122911-SAG-006	12/29/2011 11:40:00AM	Groundwater	Total Metals by ICP/MS		01/03/2012	01/04/2012
1112O56-006B	GW-122911-SAG-006	12/29/2011 11:40:00AM	Groundwater	Dissolved Metals by ICP/MS		12/30/2011	01/03/2012
1112O56-006C	GW-122911-SAG-006	12/29/2011 11:40:00AM	Groundwater	Hexavalent Chromium			12/29/2011
1112O56-006D	GW-122911-SAG-006	12/29/2011 11:40:00AM	Groundwater	Hexavalent Chromium, Dissolved			12/29/2011

Client: Conestoga, Rovers, & Associates, Inc.
 Project Name: Birdsong Peanut
 Workorder: 1112056

ANALYTICAL QC SUMMARY REPORT

BatchID: 156064

Sample ID: MB-156064	Client ID:					Units: ug/L	Prep Date: 12/30/2011	Run No: 212466			
SampleType: MBLK	TestCode: Dissolved Metals by ICP/MS	SW6020A	BatchID: 156064				Analysis Date: 01/03/2012	Seq No: 4443333			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium	BRL	5.00	0	0	0	0	0	0	0	0	

Sample ID: LCS-156064	Client ID:					Units: ug/L	Prep Date: 12/30/2011	Run No: 212466			
SampleType: LCS	TestCode: Dissolved Metals by ICP/MS	SW6020A	BatchID: 156064				Analysis Date: 01/03/2012	Seq No: 4443332			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium	97.36	5.00	100	0	97.4	80	120	0	0	0	

Sample ID: 1112056-006BMS	Client ID: GW-122911-SAG-006					Units: ug/L	Prep Date: 12/30/2011	Run No: 212466			
SampleType: MS	TestCode: Dissolved Metals by ICP/MS	SW6020A	BatchID: 156064				Analysis Date: 01/03/2012	Seq No: 4443335			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium	274.2	5.00	100	187.3	86.9	75	125	0	0	0	

Sample ID: 1112056-006BMSD	Client ID: GW-122911-SAG-006					Units: ug/L	Prep Date: 12/30/2011	Run No: 212466			
SampleType: MSD	TestCode: Dissolved Metals by ICP/MS	SW6020A	BatchID: 156064				Analysis Date: 01/03/2012	Seq No: 4443336			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium	276.4	5.00	100	187.3	89.1	75	125	274.2	0.799	20	

Qualifiers: > Greater than Result value
 BRL Below reporting limit
 J Estimated value detected below Reporting Limit
 Rpt Lim Reporting Limit

< Less than Result value
 E Estimated (value above quantitation range)
 N Analyte not NELAC certified
 S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank
 H Holding times for preparation or analysis exceeded
 R RPD outside limits due to matrix

Client: Conestoga, Rovers, & Associates, Inc.
 Project Name: Birdsong Peanut
 Workorder: 1112056

ANALYTICAL QC SUMMARY REPORT

BatchID: 156098

Sample ID: MB-156098	Client ID:					Units: ug/L	Prep Date: 01/03/2012		Run No: 212492		
SampleType: MBLK	TestCode: Total Metals by ICP/MS	SW6020A				BatchID: 156098	Analysis Date: 01/04/2012		Seq No: 4443985		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium	BRL	5.00	0	0	0	0	0	0	0	0	

Sample ID: LCS-156098	Client ID:					Units: ug/L	Prep Date: 01/03/2012		Run No: 212492		
SampleType: LCS	TestCode: Total Metals by ICP/MS	SW6020A				BatchID: 156098	Analysis Date: 01/04/2012		Seq No: 4443982		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium	101.4	5.00	100	0	101	80	120	0	0	0	

Sample ID: 1112P89-006BMS	Client ID:					Units: ug/L	Prep Date: 01/03/2012		Run No: 212492		
SampleType: MS	TestCode: Total Metals by ICP/MS	SW6020A				BatchID: 156098	Analysis Date: 01/04/2012		Seq No: 4443989		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium	98.81	5.00	100	0.6480	98.2	75	125	0	0	0	

Sample ID: 1112P89-006BMSD	Client ID:					Units: ug/L	Prep Date: 01/03/2012		Run No: 212492		
SampleType: MSD	TestCode: Total Metals by ICP/MS	SW6020A				BatchID: 156098	Analysis Date: 01/04/2012		Seq No: 4443992		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium	99.18	5.00	100	0.6480	98.5	75	125	98.81	0.374	20	

Qualifiers: > Greater than Result value
 BRL Below reporting limit
 J Estimated value detected below Reporting Limit
 Rpt Lim Reporting Limit

< Less than Result value
 E Estimated (value above quantitation range)
 N Analyte not NELAC certified
 S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank
 H Holding times for preparation or analysis exceeded
 R RPD outside limits due to matrix

Client: Conestoga, Rovers, & Associates, Inc.
 Project Name: Birdsong Peanut
 Workorder: 1112056

ANALYTICAL QC SUMMARY REPORT

BatchID: R212501

Sample ID: MB-R212501	Client ID:					Units: mg/L	Prep Date:		Run No: 212501		
SampleType: MBLK	TestCode: Hexavalent Chromium in Water	SW7196				BatchID: R212501	Analysis Date: 12/29/2011		Seq No: 4444208		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	BRL	0.0100	0	0	0	0	0	0	0	0	

Sample ID: LCS-R212501	Client ID:					Units: mg/L	Prep Date:		Run No: 212501		
SampleType: LCS	TestCode: Hexavalent Chromium in Water	SW7196				BatchID: R212501	Analysis Date: 12/29/2011		Seq No: 4444209		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.4713	0.0100	0.5	0	94.3	90	110	0	0	0	

Sample ID: 1112056-001CMS	Client ID: GW-122911-SAG-001					Units: mg/L	Prep Date:		Run No: 212501		
SampleType: MS	TestCode: Hexavalent Chromium in Water	SW7196				BatchID: R212501	Analysis Date: 12/29/2011		Seq No: 4444216		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.5982	0.0100	0.5	0.1098	97.7	85	115	0	0	0	

Sample ID: 1112056-001CMSD	Client ID: GW-122911-SAG-001					Units: mg/L	Prep Date:		Run No: 212501		
SampleType: MSD	TestCode: Hexavalent Chromium in Water	SW7196				BatchID: R212501	Analysis Date: 12/29/2011		Seq No: 4444217		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.6037	0.0100	0.5	0.1098	98.8	85	115	0.5982	0.915	20	

Qualifiers: > Greater than Result value
 BRL Below reporting limit
 J Estimated value detected below Reporting Limit
 Rpt Lim Reporting Limit

< Less than Result value
 E Estimated (value above quantitation range)
 N Analyte not NELAC certified
 S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank
 H Holding times for preparation or analysis exceeded
 R RPD outside limits due to matrix

Client: Conestoga, Rovers, & Associates, Inc.
 Project Name: Birdsong Peanut
 Workorder: 1112056

ANALYTICAL QC SUMMARY REPORT

BatchID: R212598

Sample ID: MB-R212598	Client ID:					Units: mg/L	Prep Date:		Run No: 212598		
SampleType: MBLK	TestCode: Hexavalent Chromium, Dissolved	SW7196				BatchID: R212598	Analysis Date: 12/29/2011		Seq No: 4446183		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	BRL	0.0100	0	0	0	0	0	0	0	0	

Sample ID: LCS-R212598	Client ID:					Units: mg/L	Prep Date:		Run No: 212598		
SampleType: LCS	TestCode: Hexavalent Chromium, Dissolved	SW7196				BatchID: R212598	Analysis Date: 12/29/2011		Seq No: 4446184		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.4779	0.0100	0.5	0	95.6	90	110	0	0	0	

Sample ID: 1112056-001DMS	Client ID: GW-122911-SAG-001					Units: mg/L	Prep Date:		Run No: 212598		
SampleType: MS	TestCode: Hexavalent Chromium, Dissolved	SW7196				BatchID: R212598	Analysis Date: 12/29/2011		Seq No: 4446191		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.6076	0.0100	0.5	0.1043	101	85	115	0	0	0	

Sample ID: 1112056-001DMSD	Client ID: GW-122911-SAG-001					Units: mg/L	Prep Date:		Run No: 212598		
SampleType: MSD	TestCode: Hexavalent Chromium, Dissolved	SW7196				BatchID: R212598	Analysis Date: 12/29/2011		Seq No: 4446192		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.6065	0.0100	0.5	0.1043	100	85	115	0.6076	0.181	20	

Qualifiers: > Greater than Result value
 BRL Below reporting limit
 J Estimated value detected below Reporting Limit
 Rpt Lim Reporting Limit

< Less than Result value
 E Estimated (value above quantitation range)
 N Analyte not NELAC certified
 S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank
 H Holding times for preparation or analysis exceeded
 R RPD outside limits due to matrix

KMnO₄ Analysis for Sample Collected December 29, 2011

Birdsong Peanut Plant

Colquitt, GA

Project # 18283

Sample/Parameter	Units	GW-122911-SAG-001 12/29/11	GW-122911-SAG-002 12/29/11	GW-122911-SAG-003 12/29/11	GW-122911-SAG-004 12/29/11	GW-122911-SAG-005 12/29/11	GW-122911-SAG-006 12/29/11
KMnO ₄	(mg/L)	ND(0.25)	ND(0.25)	ND(0.25)	ND(0.25)	ND(0.25)	ND(0.25)

ATTACHMENT D

RECORDS OF THE MONITORING WELL PURGING DATA

LFP FORMS 03-2012

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Birdsong Peanut
 Ref. No.: 18283

Date: March 13, 2012
 Personnel: David Brytowski

Monitoring Well Data:

Well No.: MW-5
 Vapour PID (ppm): _____
 Measurement Point: TOC
 Constructed Well Depth (ft): _____
 Measured Well Depth (ft): _____
 Depth of Sediment (ft): _____

Saturated Screen Length (ft): _____
 Depth to Pump Intake (ft)⁽¹⁾: _____
 Well Diameter, D (in): _____
 Well Screen Volume, V_s (L)⁽²⁾: _____
 Initial Depth to Water (ft): 18.57

	Pumping	Depth to	Drawdown from Initial						
	Rate	Water	Water Level ⁽¹⁾	Temperature	Conductivity	Turbidity	DO	pH	ORP
Time	(mL/min)	(ft)	(ft)	° C	(mS/cm)	NTU	(mg/L)		(mV)
			Precision Required:	±3 %	±0.005 or 0.01 ⁽²⁾	±10 %	±10 %	±0.1 Units	±10 mV
14:35	80	18.58	0.01	32.36	0.631	0	0	7.30	122
14:40	80	18.58	0.01	32.11	0.627	0	0	7.33	117
14:45	80	18.58	0.01	32.05	0.625	0.9	0	7.34	112
14:50	80	18.58	0.01	32.33	0.618	0	0	7.36	108
14:55	80	18.58	0.01	32.36	0.617	0	0	7.35	107
15:00	80	18.58	0.01	32.39	0.617	0	0	7.35	105
15:30	Sample Time		GW-031312-DIB-003						
			1x250mL [HNO3]: Total SSPL Metals						
			1x500mL: Total Hexavalent & Trivalent Chromium						
			1x500mL: Dissolved Hexavalent & Trivalent Chromium						
			1x500mL: Dissolved SSPL Metals						

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- (2) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- (3) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Birdsong Peanut
 Ref. No.: 18283

Date: March 13, 2012
 Personnel: David Brytowski

Monitoring Well Data:

Well No.: MW-6
 Vapour PID (ppm): _____
 Measurement Point: TOC
 Constructed Well Depth (ft): _____
 Measured Well Depth (ft): _____
 Depth of Sediment (ft): _____

Saturated Screen Length (ft): _____
 Depth to Pump Intake (ft)⁽¹⁾: _____
 Well Diameter, D (in): _____
 Well Screen Volume, V_s (L)⁽²⁾: _____
 Initial Depth to Water (ft): 16.97

	Pumping Rate	Depth to Water	Drawdown from Initial Water Level ⁽³⁾	Temperature	Conductivity	Turbidity	DO	pH	ORP
Time	(mL/min)	(ft)	(ft)	°C	(mS/cm)	NTU	(mg/L)		(mV)
Precision Required:				±3 %	±0.005 or 0.01 °C	±10 %	±10 %	±0.1 Units	±10 mV
16:00	80	16.96	-0.01	29.30	1.410	0.0	0.58	7.10	143
16:05	80	16.96	-0.01	29.37	1.410	0.0	0.00	7.11	135
16:10	80	16.97	0.00	29.23	1.400	5.8	0.00	7.12	131
16:15	80	16.97	0.00	29.16	1.400	0.0	0.00	7.13	128
16:40	Sample Time	GW-031312-DIB-004							
		1x250mL [HNO3]: Total SSPL Metals							
		1x500mL: Total Hexavalent & Trivalent Chromium							
		1x500mL: Dissolved Hexavalent & Trivalent Chromium							
		1x500mL: Dissolved SSPL Metals							
17:00	Sample Time	GW-031312-DIB-005							
		1x250mL [HNO3]: Total SSPL Metals							
		1x500mL: Total Hexavalent & Trivalent Chromium							
		1x500mL: Dissolved Hexavalent & Trivalent Chromium							
		1x500mL: Dissolved SSPL Metals							

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- (2) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- (3) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Birdsong Peanut
 Ref. No.: 18283

Date: March 13, 2012
 Personnel: David Brytowski

Monitoring Well Data:

Well No.: MW-10
 Vapour PID (ppm): _____
 Measurement Point: TOC
 Constructed Well Depth (ft): _____
 Measured Well Depth (ft): _____
 Depth of Sediment (ft): _____

Saturated Screen Length (ft): _____
 Depth to Pump Intake (ft)⁽¹⁾: _____
 Well Diameter, D (in): 1
 Well Screen Volume, V_s (L)⁽²⁾: _____
 Initial Depth to Water (ft): 7.4

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽¹⁾	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)						
			Precision Required:							±3 %	±0.005 or 0.01 ⁽³⁾	±10 %	±10 %	±0.1 Units	±10 mV
										(ft)					
12:20	80	8.22	0.82	23.42	8.37	389	5.59	5.64	216						
12:25	80	8.31	0.91	23.60	7.86	196	1.89	5.63	214						
12:30	80	8.35	0.95	24.05	7.22	118	0	5.58	211						
12:35	80	8.37	0.97	24.47	6.82	63.3	0	5.50	211						
12:40	80	8.40	1.00	24.90	6.59	37.5	0	5.31	217						
12:45	80	8.42	1.02	25.08	6.53	33.3	0	5.26	219						
12:50	80	8.45	1.05	24.19	6.49	31.6	0	5.23	221						
13:00	Sample Time		<u>GW-031312-DIB-001</u>												
			1x250mL [HNO3]: Total SSPL Metals												
			1x500mL: Total Hexavalent & Trivalent Chromium												
			1x500mL: Dissolved Hexavalent & Trivalent Chromium												
			1x500mL: Dissolved SSPL Metals												

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- (2) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- (3) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Birdsong Peanut
Ref. No.: 18283

Date: March 13, 2012
Personnel: David Brytowski

Monitoring Well Data:

Well No.: MW-11
Vapour PID (ppm): _____
Measurement Point: TOC
Constructed Well Depth (ft): _____
Measured Well Depth (ft): _____
Depth of Sediment (ft): _____

Saturated Screen Length (ft): _____
Depth to Pump Intake (ft)⁽¹⁾: _____
Well Diameter, D (in): 1
Well Screen Volume, V_s (L)⁽²⁾: _____
Initial Depth to Water (ft): 5.82

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾	Temperature ° C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)
			Water Level (ft)						
Precision Required:				±3 %	±0.005 or 0.01 ⁽³⁾	±10 %	±10 %	±0.1 Units	±10 mV
13:25	80	—	—	28.30	0.729	31.7	0.64	6.41	186
13:30	80	—	—	28.27	0.706	231	0.32	6.32	194
13:35	80	—	—	28.43	0.733	3.4	0	6.01	206
13:40	*Well dry, sample after ample recharge time								
14:00	Sample Time		GW-031312-DIB-002						
			1x250mL [HNO3]: Total SSPL Metals						
			1x500mL: Total Hexavalent & Trivalent Chromium						
			1x500mL: Dissolved Hexavalent & Trivalent Chromium						
			1x500mL: Dissolved SSPL Metals						

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- (2) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- (3) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

ATTACHMENT E

DATA QUALITY ASSESSMENT AND VALIDATION MEMORANDUMS
ANALYTICAL DATA REPORTS



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

March 27, 2012

Bob Pyle
Conestoga, Rovers, & Associates, Inc.
3075 Breckinridge Blvd., Suite 470
Duluth GA 30096

TEL: (770) 441-0027
FAX: (770) 441-2050

RE: Birdsong Peanut

Dear Bob Pyle:

Order No: 1203B09

Analytical Environmental Services, Inc. received 5 samples on 3/14/2012 10:25:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/11-06/30/12.
- AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/13.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai
Project Manager



**CONESTOGA-ROVERS
& ASSOCIATES**

CHAIN OF CUSTODY RECORD

1203809

COC NO.: 33858

PAGE ____ OF ____

Address: _____

Phone: _____ Fax: _____

(See Reverse Side for Instructions)

Project No/ Phase/Task Code: 18283				Laboratory Name: AES				Lab Location: Atlanta GA				SSOW ID:												
Project Name: Birdsong				Lab Contact:				Lab Quote No: See SSOW				Cooler No: 1												
Project Location: Cogit, GA				SAMPLE TYPE				CONTAINER QUANTITY & PRESERVATION				ANALYSIS REQUESTED (See Back of COC for Definitions)				Carrier: Fed Ex								
Chemistry Contact: See SSOW																Airbill No: 847911982577								
Sampler(s): David Brytowski				Matrix Code (see back of COC)				Grab (G) or Comp (C)				Date Shipped: 3/13/12												
Item	SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)			DATE (mm/dd/yy)	TIME (hh:mm)	Matrix Code (see back of COC)	Grab (G) or Comp (C)	Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO ₃)	Sulfuric Acid (H ₂ SO ₄)	Sodium Hydroxide (NaOH)	Methanol/Water (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	Total SSP Metals	Total Hex Cr	Total Tri Cr	Dis. SSP Metals	Dis Hex Cr	Dis Tri Cr	MS/MSD Request	COMMENTS/ SPECIAL INSTRUCTIONS:
1	GW-031312-DJB-001			3/13/12	12:00	WG	X	X	X							4	X	X	X	X	X			See SSOW
2	GW-031312-DJB-002				14:00	WG	X	X	X							4	X	X	X	X	X			
3	GW-031312-DJB-003				15:30	WG	X	X	X							4	X	X	X	X	X			Dissolved
4	GW-031312-DJB-004				16:40	WG	X	X	X							4	X	X	X	X	X			samples have
5	GW-031312-DJB-005			3/13/12	17:00	WG	X	X	X							4	X	X	X	X	X			been Field
6																								Filtered .45
7																								micron
8																								
9																								
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TAT Required in business days (use separate COCs for different TATs): <input type="checkbox"/> 1 Day <input type="checkbox"/> 2 Days <input type="checkbox"/> 3 Days <input checked="" type="checkbox"/> 1 Week <input type="checkbox"/> 2 Week <input type="checkbox"/> Other:								Total Number of Containers:				Notes/ Special Requirements:												
All Samples in Cooler must be on COC																								
RELINQUISHED BY N. Brytowski				COMPANY CRA		DATE 3/13/12		TIME 17:30		RECEIVED BY S. H. H.				COMPANY AES		DATE 03/14/12		TIME 1025						

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT - ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution:

WHITE - Fully Executed Copy (CRA)

YELLOW - Receiving Laboratory Copy

PINK - Shipper

GOLDENROD - Sampling Crew

CRA Form: COC-10B (20110804)

Client: Conestoga, Rovers, & Associates, Inc.
Project: Birdsong Peanut
Lab ID: 1203B09

Case Narrative**Hexavalent Chromium Analysis by Method 7196:**

Please note the Hexavalent Chromium value is reported as greater than Total Chromium value for sample 1203B09-004 & -005. The values are within the expected reproducibility limits for the test methods used and the results are suspected to be due to differences between the sample aliquots used for analysis. The data indicates that all Chromium present is in the Hexavalent oxidation state.

Hexavalent Chromium Analysis by Method 7196:

Please note the Dissolved Hexavalent Chromium value is reported as greater than Total Hexavalent Chromium value for sample 1203B09-002, -004 & -005. The values are within the expected reproducibility limits for the test methods used and the results are suspected to be due to differences between the sample aliquots used for analysis. The data indicates that all Chromium present is in the Hexavalent oxidation state.

Analytical Environmental Services, Inc

Date: 27-Mar-12

Client: Conestoga, Rovers, & Associates, Inc.
 Project Name: Birdsong Peanut
 Lab ID: 1203B09-001

Client Sample ID: GW-031312-DJB-001
 Collection Date: 3/13/2012 1:00:00 PM
 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A					(SW3005A)			
Arsenic	BRL	5.00		ug/L	159029	1	03/19/2012 19:26	JY
Cadmium	4.05	0.700		ug/L	159029	1	03/19/2012 19:26	JY
Chromium	92.8	5.00		ug/L	159029	1	03/19/2012 19:26	JY
Copper	26.6	2.00		ug/L	159029	1	03/19/2012 19:26	JY
Lead	1.18	1.00		ug/L	159029	1	03/19/2012 19:26	JY
Manganese	14500	50.0		ug/L	159029	10	03/20/2012 12:51	JY
Potassium	475000	1000		ug/L	159029	10	03/20/2012 12:51	JY
Selenium	45.7	5.00		ug/L	159029	1	03/19/2012 19:26	JY
Silver	BRL	1.00		ug/L	159029	1	03/19/2012 19:26	JY
Hexavalent Chromium, Dissolved SW7196								
Chromium as Cr+3	BRL	0.0100		mg/L	R217381	1	03/14/2012 12:50	CG
Chromium, Hexavalent	0.0800	0.0100		mg/L	R217381	1	03/14/2012 12:50	CG
Hexavalent Chromium in Water SW7196								
Chromium as Cr+3	0.0128	0.0100		mg/L	R217360	1	03/14/2012 12:50	CG
Chromium, Hexavalent	0.0800	0.0100		mg/L	R217360	1	03/14/2012 12:50	CG
Dissolved Metals by ICP/MS SW6020A					(SW3005A)			
Arsenic	BRL	5.00		ug/L	159037	1	03/19/2012 20:59	JY
Cadmium	3.84	0.700		ug/L	159037	1	03/19/2012 20:59	JY
Chromium	89.1	5.00		ug/L	159037	1	03/19/2012 20:59	JY
Copper	23.0	2.00		ug/L	159037	1	03/19/2012 20:59	JY
Lead	BRL	1.00		ug/L	159037	1	03/19/2012 20:59	JY
Manganese	15000	50.0		ug/L	159037	10	03/20/2012 13:03	JY
Potassium	487000	1000		ug/L	159037	10	03/20/2012 13:03	JY
Selenium	38.9	5.00		ug/L	159037	1	03/19/2012 20:59	JY
Silver	BRL	1.00		ug/L	159037	1	03/19/2012 20:59	JY

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 27-Mar-12

Client:	Conestoga, Rovers, & Associates, Inc.	Client Sample ID:	GW-031312-DJB-002
Project Name:	Birdsong Peanut	Collection Date:	3/13/2012 2:00:00 PM
Lab ID:	1203B09-002	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A					(SW3005A)			
Arsenic	BRL	5.00		ug/L	159029	1	03/19/2012 19:33	JY
Cadmium	1.12	0.700		ug/L	159029	1	03/19/2012 19:33	JY
Chromium	207	5.00		ug/L	159029	1	03/19/2012 19:33	JY
Copper	5.30	2.00		ug/L	159029	1	03/19/2012 19:33	JY
Lead	1.27	1.00		ug/L	159029	1	03/19/2012 19:33	JY
Manganese	685	5.00		ug/L	159029	1	03/19/2012 19:33	JY
Potassium	121000	200		ug/L	159029	2	03/20/2012 12:57	JY
Selenium	BRL	5.00		ug/L	159029	1	03/19/2012 19:33	JY
Silver	BRL	1.00		ug/L	159029	1	03/19/2012 19:33	JY
Hexavalent Chromium, Dissolved SW7196								
Chromium as Cr+3	BRL	0.0100		mg/L	R217381	1	03/14/2012 12:50	CG
Chromium, Hexavalent	0.217	0.0100		mg/L	R217381	1	03/14/2012 12:50	CG
Hexavalent Chromium in Water SW7196								
Chromium as Cr+3	0.0433	0.0100		mg/L	R217360	1	03/14/2012 12:50	CG
Chromium, Hexavalent	0.163	0.0100		mg/L	R217360	1	03/14/2012 12:50	CG
Dissolved Metals by ICP/MS SW6020A					(SW3005A)			
Arsenic	BRL	5.00		ug/L	159037	1	03/19/2012 21:05	JY
Cadmium	1.02	0.700		ug/L	159037	1	03/19/2012 21:05	JY
Chromium	146	5.00		ug/L	159037	1	03/19/2012 21:05	JY
Copper	3.04	2.00		ug/L	159037	1	03/19/2012 21:05	JY
Lead	BRL	1.00		ug/L	159037	1	03/19/2012 21:05	JY
Manganese	1430	5.00		ug/L	159037	1	03/19/2012 21:05	JY
Potassium	108000	200		ug/L	159037	2	03/20/2012 13:09	JY
Selenium	BRL	5.00		ug/L	159037	1	03/19/2012 21:05	JY
Silver	BRL	1.00		ug/L	159037	1	03/19/2012 21:05	JY

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- II Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 27-Mar-12

Client: Conestoga, Rovers, & Associates, Inc.
 Project Name: Birdsong Peanut
 Lab ID: 1203B09-003

Client Sample ID: GW-031312-DJB-003
 Collection Date: 3/13/2012 3:30:00 PM
 Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A					(SW3005A)			
Arsenic	BRL	5.00		ug/L	159029	1	03/19/2012 19:39	JY
Cadmium	BRL	0.700		ug/L	159029	1	03/19/2012 19:39	JY
Chromium	BRL	5.00		ug/L	159029	1	03/19/2012 19:39	JY
Copper	BRL	2.00		ug/L	159029	1	03/19/2012 19:39	JY
Lead	BRL	1.00		ug/L	159029	1	03/19/2012 19:39	JY
Manganese	40.8	5.00		ug/L	159029	1	03/19/2012 19:39	JY
Potassium	1220	100		ug/L	159029	1	03/19/2012 19:39	JY
Selenium	BRL	5.00		ug/L	159029	1	03/19/2012 19:39	JY
Silver	BRL	1.00		ug/L	159029	1	03/19/2012 19:39	JY
Hexavalent Chromium, Dissolved SW7196								
Chromium as Cr+3	BRL	0.0100		mg/L	R217381	1	03/14/2012 12:50	CG
Chromium, Hexavalent	BRL	0.0100		mg/L	R217381	1	03/14/2012 12:50	CG
Hexavalent Chromium in Water SW7196								
Chromium as Cr+3	BRL	0.0100		mg/L	R217360	1	03/14/2012 12:50	CG
Chromium, Hexavalent	BRL	0.0100		mg/L	R217360	1	03/14/2012 12:50	CG
Dissolved Metals by ICP/MS SW6020A					(SW3005A)			
Arsenic	BRL	5.00		ug/L	159037	1	03/19/2012 21:11	JY
Cadmium	BRL	0.700		ug/L	159037	1	03/19/2012 21:11	JY
Chromium	BRL	5.00		ug/L	159037	1	03/19/2012 21:11	JY
Copper	BRL	2.00		ug/L	159037	1	03/19/2012 21:11	JY
Lead	BRL	1.00		ug/L	159037	1	03/19/2012 21:11	JY
Manganese	17.0	5.00		ug/L	159037	1	03/19/2012 21:11	JY
Potassium	1290	100		ug/L	159037	1	03/19/2012 21:11	JY
Selenium	BRL	5.00		ug/L	159037	1	03/19/2012 21:11	JY
Silver	BRL	1.00		ug/L	159037	1	03/19/2012 21:11	JY

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 27-Mar-12

Client:	Conestoga, Rovers, & Associates, Inc.	Client Sample ID:	GW-031312-DJB-004
Project Name:	Birdsong Peanut	Collection Date:	3/13/2012 4:40:00 PM
Lab ID:	1203B09-004	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A					(SW3005A)			
Arsenic	BRL	5.00		ug/L	159029	1	03/19/2012 19:45	JY
Cadmium	9.51	0.700		ug/L	159029	1	03/19/2012 19:45	JY
Chromium	189	5.00		ug/L	159029	1	03/19/2012 19:45	JY
Copper	2.52	2.00		ug/L	159029	1	03/19/2012 19:45	JY
Lead	BRL	1.00		ug/L	159029	1	03/19/2012 19:45	JY
Manganese	212	5.00		ug/L	159029	1	03/19/2012 19:45	JY
Potassium	56500	100		ug/L	159029	1	03/19/2012 19:45	JY
Selenium	BRL	5.00		ug/L	159029	1	03/19/2012 19:45	JY
Silver	BRL	1.00		ug/L	159029	1	03/19/2012 19:45	JY
Hexavalent Chromium, Dissolved SW7196								
Chromium as Cr+3	BRL	0.0100		mg/L	R217381	1	03/14/2012 12:50	CG
Chromium, Hexavalent	0.193	0.0100		mg/L	R217381	1	03/14/2012 12:50	CG
Hexavalent Chromium in Water SW7196								
Chromium as Cr+3	BRL	0.0100		mg/L	R217360	1	03/14/2012 12:50	CG
Chromium, Hexavalent	0.193	0.0100		mg/L	R217360	1	03/14/2012 12:50	CG
Dissolved Metals by ICP/MS SW6020A					(SW3005A)			
Arsenic	BRL	5.00		ug/L	159037	1	03/19/2012 21:17	JY
Cadmium	8.89	0.700		ug/L	159037	1	03/19/2012 21:17	JY
Chromium	186	5.00		ug/L	159037	1	03/19/2012 21:17	JY
Copper	2.03	2.00		ug/L	159037	1	03/19/2012 21:17	JY
Lead	BRL	1.00		ug/L	159037	1	03/19/2012 21:17	JY
Manganese	198	5.00		ug/L	159037	1	03/19/2012 21:17	JY
Potassium	55300	100		ug/L	159037	1	03/19/2012 21:17	JY
Selenium	BRL	5.00		ug/L	159037	1	03/19/2012 21:17	JY
Silver	BRL	1.00		ug/L	159037	1	03/19/2012 21:17	JY

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 27-Mar-12

Client: Conestoga, Rovers, & Associates, Inc.
Project Name: Birdsong Peanut
Lab ID: 1203B09-005

Client Sample ID: GW-031312-DJB-005
Collection Date: 3/13/2012 5:00:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A					(SW3005A)			
Arsenic	BRL	5.00		ug/L	159029	1	03/19/2012 19:51	JY
Cadmium	9.64	0.700		ug/L	159029	1	03/19/2012 19:51	JY
Chromium	192	5.00		ug/L	159029	1	03/19/2012 19:51	JY
Copper	2.65	2.00		ug/L	159029	1	03/19/2012 19:51	JY
Lead	BRL	1.00		ug/L	159029	1	03/19/2012 19:51	JY
Manganese	216	5.00		ug/L	159029	1	03/19/2012 19:51	JY
Potassium	57700	100		ug/L	159029	1	03/19/2012 19:51	JY
Selenium	BRL	5.00		ug/L	159029	1	03/19/2012 19:51	JY
Silver	BRL	1.00		ug/L	159029	1	03/19/2012 19:51	JY
Hexavalent Chromium, Dissolved SW7196								
Chromium as Cr+3	BRL	0.0100		mg/L	R217381	1	03/14/2012 12:50	CG
Chromium, Hexavalent	0.199	0.0100		mg/L	R217381	1	03/14/2012 12:50	CG
Hexavalent Chromium in Water SW7196								
Chromium as Cr+3	BRL	0.0100		mg/L	R217360	1	03/14/2012 12:50	CG
Chromium, Hexavalent	0.202	0.0100		mg/L	R217360	1	03/14/2012 12:50	CG
Dissolved Metals by ICP/MS SW6020A					(SW3005A)			
Arsenic	BRL	5.00		ug/L	159037	1	03/19/2012 21:23	JY
Cadmium	8.62	0.700		ug/L	159037	1	03/19/2012 21:23	JY
Chromium	186	5.00		ug/L	159037	1	03/19/2012 21:23	JY
Copper	BRL	2.00		ug/L	159037	1	03/19/2012 21:23	JY
Lead	BRL	1.00		ug/L	159037	1	03/19/2012 21:23	JY
Manganese	194	5.00		ug/L	159037	1	03/19/2012 21:23	JY
Potassium	55100	100		ug/L	159037	1	03/19/2012 21:23	JY
Selenium	BRL	5.00		ug/L	159037	1	03/19/2012 21:23	JY
Silver	BRL	1.00		ug/L	159037	1	03/19/2012 21:23	JY

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client CRA Work Order Number 1203 B09

Checklist completed by PT Date 3/14/12

Carrier name: FedEx ☒ UPS ☐ Courier ☐ Client ☐ US Mail ☐ Other ☐

Shipping container/cooler in good condition? Yes ☒ No ☐ Not Present ☐

Custody seals intact on shipping container/cooler? Yes ☒ No ☐ Not Present ☒ PT 3/14/12

Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒

Container/Temp Blank temperature in compliance? ($4^{\circ}\text{C} \pm 2$) * Yes ☒ No ☐

Cooler #1 3.1°C Cooler #2 ☐ Cooler #3 ☐ Cooler #4 ☐ Cooler #5 ☐ Cooler #6 ☐

Chain of custody present? Yes ☒ No ☐

Chain of custody signed when relinquished and received? Yes ☒ No ☐

Chain of custody agrees with sample labels? Yes ☒ No ☐

Samples in proper container/bottle? Yes ☒ No ☐

Sample containers intact? Yes ☒ No ☐

Sufficient sample volume for indicated test? Yes ☒ No ☐

All samples received within holding time? Yes ☒ No ☐

Was TAT marked on the COC? Yes ☒ No ☐

Proceed with Standard TAT as per project history? Yes ☐ No ☐ Not Applicable ☒

Water - VOA vials have zero headspace? No VOA vials submitted ☒ Yes ☐ No ☐

Water - pH acceptable upon receipt? Yes ☒ No ☐ Not Applicable ☐

Adjusted? ☐ Checked by PT

Sample Condition: Good ☒ Other(Explain) ☐

(For diffusive samples or AIHA lead) Is a known blank included? Yes ☐ No ☒

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

\\Quality Assurance\Checklists Procedures Sign-Off Templates\Checklists\Sample Receipt Checklists\Sample_Cooler_Receipt_Checklist

Client: Conestoga, Rovers, & Associates, Inc.
 Project: Birdsong Peanut
 Lab Order: 1203B09

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1203B09-001A	GW-031312-DJB-001	3/13/2012 1:00:00PM	Groundwater	Total Metals by ICP/MS		03/16/2012	03/19/2012
1203B09-001A	GW-031312-DJB-001	3/13/2012 1:00:00PM	Groundwater	Total Metals by ICP/MS		03/16/2012	03/20/2012
1203B09-001B	GW-031312-DJB-001	3/13/2012 1:00:00PM	Groundwater	Dissolved Metals by ICP/MS		03/16/2012	03/19/2012
1203B09-001B	GW-031312-DJB-001	3/13/2012 1:00:00PM	Groundwater	Dissolved Metals by ICP/MS		03/16/2012	03/20/2012
1203B09-001C	GW-031312-DJB-001	3/13/2012 1:00:00PM	Groundwater	Hexavalent Chromium			03/14/2012
1203B09-001D	GW-031312-DJB-001	3/13/2012 1:00:00PM	Groundwater	Hexavalent Chromium, Dissolved			03/14/2012
1203B09-002A	GW-031312-DJB-002	3/13/2012 2:00:00PM	Groundwater	Total Metals by ICP/MS		03/16/2012	03/19/2012
1203B09-002A	GW-031312-DJB-002	3/13/2012 2:00:00PM	Groundwater	Total Metals by ICP/MS		03/16/2012	03/20/2012
1203B09-002B	GW-031312-DJB-002	3/13/2012 2:00:00PM	Groundwater	Dissolved Metals by ICP/MS		03/16/2012	03/19/2012
1203B09-002B	GW-031312-DJB-002	3/13/2012 2:00:00PM	Groundwater	Dissolved Metals by ICP/MS		03/16/2012	03/20/2012
1203B09-002C	GW-031312-DJB-002	3/13/2012 2:00:00PM	Groundwater	Hexavalent Chromium			03/14/2012
1203B09-002D	GW-031312-DJB-002	3/13/2012 2:00:00PM	Groundwater	Hexavalent Chromium, Dissolved			03/14/2012
1203B09-003A	GW-031312-DJB-003	3/13/2012 3:30:00PM	Groundwater	Total Metals by ICP/MS		03/16/2012	03/19/2012
1203B09-003B	GW-031312-DJB-003	3/13/2012 3:30:00PM	Groundwater	Dissolved Metals by ICP/MS		03/16/2012	03/19/2012
1203B09-003C	GW-031312-DJB-003	3/13/2012 3:30:00PM	Groundwater	Hexavalent Chromium			03/14/2012
1203B09-003D	GW-031312-DJB-003	3/13/2012 3:30:00PM	Groundwater	Hexavalent Chromium, Dissolved			03/14/2012
1203B09-004A	GW-031312-DJB-004	3/13/2012 4:40:00PM	Groundwater	Total Metals by ICP/MS		03/16/2012	03/19/2012
1203B09-004B	GW-031312-DJB-004	3/13/2012 4:40:00PM	Groundwater	Dissolved Metals by ICP/MS		03/16/2012	03/19/2012
1203B09-004C	GW-031312-DJB-004	3/13/2012 4:40:00PM	Groundwater	Hexavalent Chromium			03/14/2012
1203B09-004D	GW-031312-DJB-004	3/13/2012 4:40:00PM	Groundwater	Hexavalent Chromium, Dissolved			03/14/2012
1203B09-005A	GW-031312-DJB-005	3/13/2012 5:00:00PM	Groundwater	Total Metals by ICP/MS		03/16/2012	03/19/2012
1203B09-005B	GW-031312-DJB-005	3/13/2012 5:00:00PM	Groundwater	Dissolved Metals by ICP/MS		03/16/2012	03/19/2012
1203B09-005C	GW-031312-DJB-005	3/13/2012 5:00:00PM	Groundwater	Hexavalent Chromium			03/14/2012
1203B09-005D	GW-031312-DJB-005	3/13/2012 5:00:00PM	Groundwater	Hexavalent Chromium, Dissolved			03/14/2012

Analytical Environmental Services, Inc

Date: 27-Mar-12

Client: Conestoga, Rovers, & Associates, Inc.
 Project Name: Birdsong Peanut
 Workorder: 1203B09

ANALYTICAL QC SUMMARY REPORT

BatchID: 159029

Sample ID: MB-159029		Client ID:				Units: ng/L		Prep Date: 03/16/2012		Run No: 217259	
SampleType: MBLK		TestCode: Total Metals by ICP/MS SW6020A				BatchID: 159029		Analysis Date: 03/17/2012		Seq No: 4542342	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	BRL	5.00	0	0	0	0	0	0	0	0	
Cadmium	BRL	0.700	0	0	0	0	0	0	0	0	
Chromium	BRL	5.00	0	0	0	0	0	0	0	0	
Copper	BRL	2.00	0	0	0	0	0	0	0	0	
Lead	BRL	1.00	0	0	0	0	0	0	0	0	
Manganese	BRL	5.00	0	0	0	0	0	0	0	0	
Potassium	BRL	100	0	0	0	0	0	0	0	0	
Selenium	BRL	5.00	0	0	0	0	0	0	0	0	
Silver	BRL	1.00	0	0	0	0	0	0	0	0	

Sample ID: LCS-159029		Client ID:				Units: ug/L		Prep Date: 03/16/2012		Run No: 217259	
SampleType: LCS		TestCode: Total Metals by ICP/MS SW6020A				BatchID: 159029		Analysis Date: 03/17/2012		Seq No: 4542338	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	102.7	5.00	100	0	103	80	120	0	0	0	
Cadmium	108.3	0.700	100	0.04500	108	80	120	0	0	0	
Chromium	103.2	5.00	100	0.1050	103	80	120	0	0	0	
Copper	100.1	2.00	100	0.1760	99.9	80	120	0	0	0	
Lead	106.1	1.00	100	0	106	80	120	0	0	0	
Manganese	106.6	5.00	100	0.7270	106	80	120	0	0	0	
Potassium	998.8	100	1000	5.931	99.3	80	120	0	0	0	
Selenium	107.9	5.00	100	0	108	80	120	0	0	0	
Silver	9.985	1.00	10	0.04400	99.4	80	120	0	0	0	

Sample ID: 1203983-001BMS		Client ID:			Units: ug/L		Prep Date: 03/16/2012		Run No: 217259		
SampleType: MS		TestCode: Total Metals by ICP/MS SW6020A			BatchID: 159029		Analysis Date: 03/17/2012		Seq No: 4542363		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Qualifiers: > Greater than Result value
 BRL Below reporting limit
 I Estimated value detected below Reporting Limit
 Rpt Lim Reporting Limit

< Less than Result value
 E Estimated (value above quantitation range)
 N Analyte not NELAC certified
 S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank
 H Holding times for preparation or analysis exceeded
 R RPD outside limits due to matrix

Client: Conestoga, Rovers, & Associates, Inc.
 Project Name: Birdsong Peanut
 Workorder: 1203B09

ANALYTICAL QC SUMMARY REPORT

BatchID: 159029

Sample ID: 1203983-001BMS	Client ID:					Units: ug/L	Prep Date: 03/16/2012	Run No: 217259			
SampleType: MS	TestCode: Total Metals by ICP/MS SW6020A					BatchID: 159029	Analysis Date: 03/17/2012	Seq No: 4542363			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	98.84	5.00	100	0	98.8	75	125	0	0	0	
Cadmium	106.8	0.700	100	0	107	75	125	0	0	0	
Chromium	99.91	5.00	100	0.6110	99.3	75	125	0	0	0	
Copper	98.73	2.00	100	0.2530	98.5	75	125	0	0	0	
Lead	106.4	1.00	100	0.7470	106	75	125	0	0	0	
Manganese	169.5	5.00	100	74.26	95.2	75	125	0	0	0	
Potassium	3411	100	1000	2288	112	75	125	0	0	0	
Selenium	102.9	5.00	100	0	103	75	125	0	0	0	
Silver	10.08	1.00	10	0.02700	101	75	125	0	0	0	

Sample ID: 1203983-001BMSD	Client ID:					Units: ug/L	Prep Date: 03/16/2012	Run No: 217259			
SampleType: MSD	TestCode: Total Metals by ICP/MS	SW6020A	BatchID: 159029				Analysis Date: 03/17/2012	Seq No: 4542371			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	99.47	5.00	100	0	99.5	75	125	98.84	0.635	20	
Cadmium	105.9	0.700	100	0	106	75	125	106.8	0.846	20	
Chromium	99.45	5.00	100	0.6110	98.8	75	125	99.91	0.461	20	
Copper	96.86	2.00	100	0.2530	96.6	75	125	98.73	1.91	20	
Lead	105.5	1.00	100	0.7470	105	75	125	106.4	0.849	20	
Manganese	173.2	5.00	100	74.26	98.9	75	125	169.5	2.16	20	
Potassium	3428	100	1000	2288	114	75	125	3411	0.497	20	
Selenium	103.0	5.00	100	0	103	75	125	102.9	0.097	20	
Silver	10.02	1.00	10	0.02700	99.9	75	125	10.08	0.597	20	

Qualifiers: > Greater than Result value

BRL Below reporting limit

J Estimated value detected below Reporting Limit

Rpt Lim Reporting Limit

< Less than Result value

E Estimated (value above quantitation range)

N Analyte not NELAC certified

S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank

H Holding times for preparation or analysis exceeded

R RPD outside limits due to matrix

Client: Conestoga, Rovers, & Associates, Inc.
 Project Name: Birdsong Peanut
 Workorder: 1203B09

ANALYTICAL QC SUMMARY REPORT

BatchID: 159037

Sample ID: MB-159037	Client ID:					Units: ug/L	Prep Date: 03/16/2012	Run No: 217374			
SampleType: MBLK	TestCode: Dissolved Metals by ICP/MS	SW6020A	BatchID: 159037				Analysis Date: 03/19/2012	Seq No: 4544613			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	BRL	5.00	0	0	0	0	0	0	0	0	
Cadmium	BRL	0.700	0	0	0	0	0	0	0	0	
Chromium	BRL	5.00	0	0	0	0	0	0	0	0	
Copper	BRL	2.00	0	0	0	0	0	0	0	0	
Lead	BRL	1.00	0	0	0	0	0	0	0	0	
Manganese	BRL	5.00	0	0	0	0	0	0	0	0	
Potassium	BRL	100	0	0	0	0	0	0	0	0	
Selenium	BRL	5.00	0	0	0	0	0	0	0	0	
Silver	BRL	1.00	0	0	0	0	0	0	0	0	

Sample ID: LCS-159037	Client ID:					Units: ug/L	Prep Date: 03/16/2012	Run No: 217374			
SampleType: LCS	TestCode: Dissolved Metals by ICP/MS	SW6020A	BatchID: 159037				Analysis Date: 03/19/2012	Seq No: 4544608			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	97.64	5.00	100	0	97.6	80	120	0	0	0	
Cadmium	103.0	0.700	100	0	103	80	120	0	0	0	
Chromium	105.4	5.00	100	0	105	80	120	0	0	0	
Copper	100.1	2.00	100	0	100	80	120	0	0	0	
Lead	101.3	1.00	100	0	101	80	120	0	0	0	
Manganese	102.3	5.00	100	0	102	80	120	0	0	0	
Potassium	1038	100	1000	18.20	102	80	120	0	0	0	
Selenium	99.37	5.00	100	0	99.4	80	120	0	0	0	
Silver	10.02	1.00	10	0.02900	99.9	80	120	0	0	0	

Sample ID: 1203C21-002CMS	Client ID:				Units: ug/L	Prep Date: 03/16/2012	Run No: 217374				
SampleType: MS	TestCode: Dissolved Metals by ICP/MS SW6020A				BatchID: 159037	Analysis Date: 03/19/2012	Seq No: 4544634				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Conestoga, Rovers, & Associates, Inc.
 Project Name: Birdsong Peanut
 Workorder: 1203B09

ANALYTICAL QC SUMMARY REPORT

BatchID: 159037

Sample ID: 1203C21-002CMS	Client ID:					Units: ug/L	Prep Date: 03/16/2012	Run No: 217374			
SampleType: MS	TestCode: Dissolved Metals by ICP/MS SW6020A					BatchID: 159037	Analysis Date: 03/19/2012	Seq No: 4544634			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	98.25	5.00	100	0.5660	97.7	75	125	0	0	0	
Cadmium	105.2	0.700	100	0	105	75	125	0	0	0	
Chromium	92.77	5.00	100	5.285	87.5	75	125	0	0	0	
Copper	96.85	2.00	100	1.608	95.2	75	125	0	0	0	
Lead	107.3	1.00	100	1.416	106	75	125	0	0	0	
Manganese	2243	5.00	100	2104	139	75	125	0	0	0	S
Potassium	3163	100	1000	2084	108	75	125	0	0	0	
Selenium	101.2	5.00	100	2.473	98.7	75	125	0	0	0	
Silver	6.384	1.00	10	0.09500	62.9	75	125	0	0	0	S

Sample ID: 1203C21-002CMSD	Client ID:					Units: ug/L	Prep Date: 03/16/2012	Run No: 217374			
SampleType: MSD	TestCode: Dissolved Metals by ICP/MS	SW6020A	BatchID: 159037				Analysis Date: 03/19/2012	Seq No: 4544637			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	95.79	5.00	100	0.5660	95.2	75	125	98.25	2.54	20	
Cadmium	102.2	0.700	100	0	102	75	125	105.2	2.89	20	
Chromium	91.27	5.00	100	5.285	86	75	125	92.77	1.63	20	
Copper	94.83	2.00	100	1.608	93.2	75	125	96.85	2.11	20	
Lead	104.5	1.00	100	1.416	103	75	125	107.3	2.64	20	
Manganese	2230	5.00	100	2104	126	75	125	2243	0.581	20	S
Potassium	3139	100	1000	2084	106	75	125	3163	0.762	20	
Selenium	99.44	5.00	100	2.473	97	75	125	101.2	1.75	20	
Silver	6.150	1.00	10	0.09500	60.6	75	125	6.384	3.73	20	S

Qualifiers: > Greater than Result value
 BRL Below reporting limit
 J Estimated value detected below Reporting Limit
 Rpt Lim Reporting Limit

< Less than Result value
 E Estimated (value above quantitation range)
 N Analyte not NELAC certified
 S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank
 H Holding times for preparation or analysis exceeded
 R RPD outside limits due to matrix

Client: Conestoga, Rovers, & Associates, Inc.
 Project Name: Birdsong Peanut
 Workorder: 1203B09

ANALYTICAL QC SUMMARY REPORT

BatchID: R217360

Sample ID: MB-R217360		Client ID:		Units: mg/L		Prep Date:		Run No: 217360			
SampleType: MBLK		TestCode: Hexavalent Chromium in Water SW7196		BatchID: R217360		Analysis Date: 03/14/2012		Seq No: 4544208			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium as Cr+3	BRL	0.0100	0	0	0	0	0	0	0	0	
Chromium, Hexavalent	BRL	0.0100	0	0	0	0	0	0	0	0	

Sample ID: LCS-R217360		Client ID:		Units: mg/L		Prep Date:		Run No: 217360			
SampleType: LCS		TestCode: Hexavalent Chromium in Water SW7196		BatchID: R217360		Analysis Date: 03/14/2012		Seq No: 4544209			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.4911	0.0100	0.5	0	98.2	90	110	0	0	0	

Sample ID: 1203B09-001CMS		Client ID: GW-031312-DJB-001		Units: mg/L		Prep Date:		Run No: 217360			
SampleType: MS		TestCode: Hexavalent Chromium in Water SW7196		BatchID: R217360		Analysis Date: 03/14/2012		Seq No: 4544215			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.5292	0.0100	0.5	0.08000	89.8	85	115	0	0	0	

Sample ID: 1203B09-001CMSD		Client ID: GW-031312-DJB-001		Units: mg/L		Prep Date:		Run No: 217360			
SampleType: MSD		TestCode: Hexavalent Chromium in Water SW7196		BatchID: R217360		Analysis Date: 03/14/2012		Seq No: 4544216			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.5314	0.0100	0.5	0.08000	90.3	85	115	0.5292	0.415	20	

Qualifiers: > Greater than Result value
 BRL Below reporting limit
 J Estimated value detected below Reporting Limit
 Rpt Lim Reporting Limit

< Less than Result value
 E Estimated (value above quantitation range)
 N Analyte not NELAC certified
 S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank
 H Holding times for preparation or analysis exceeded
 R RPD outside limits due to matrix

Client: Conestoga, Rovers, & Associates, Inc.
 Project Name: Birdsong Peanut
 Workorder: 1203B09

ANALYTICAL QC SUMMARY REPORT

BatchID: R217381

Sample ID: MB-R217381	Client ID:					Units: mg/L	Prep Date:		Run No: 217381		
SampleType: MBLK	TestCode: Hexavalent Chromium, Dissolved	SW7196				BatchID: R217381	Analysis Date: 03/14/2012		Seq No: 4544639		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium as Cr+3	BRL	0.0100	0	0	0	0	0	0	0	0	
Chromium, Hexavalent	BRL	0.0100	0	0	0	0	0	0	0	0	

Sample ID: LCS-R217381	Client ID:					Units: mg/L	Prep Date:		Run No: 217381		
SampleType: LCS	TestCode: Hexavalent Chromium, Dissolved	SW7196				BatchID: R217381	Analysis Date: 03/14/2012		Seq No: 4544640		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.4840	0.0100	0.5	0	96.8	90	110	0	0	0	

Sample ID: 1203B09-001DMS	Client ID: GW-031312-DJB-001					Units: mg/L	Prep Date:		Run No: 217381		
SampleType: MS	TestCode: Hexavalent Chromium, Dissolved	SW7196				BatchID: R217381	Analysis Date: 03/14/2012		Seq No: 4544653		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.5402	0.0100	0.5	0.08000	92	85	115	0	0	0	

Sample ID: 1203B09-001DMSD	Client ID: GW-031312-DJB-001					Units: mg/L	Prep Date:		Run No: 217381		
SampleType: MSD	TestCode: Hexavalent Chromium, Dissolved	SW7196				BatchID: R217381	Analysis Date: 03/14/2012		Seq No: 4544654		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.5391	0.0100	0.5	0.08000	91.8	85	115	0.5402	0.204	20	

Qualifiers: > Greater than Result value
 BRL Below reporting limit
 J Estimated value detected below Reporting Limit
 Rpt Lim Reporting Limit

< Less than Result value
 E Estimated (value above quantitation range)
 N Analyte not NELAC certified
 S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank
 H Holding times for preparation or analysis exceeded
 R RPD outside limits due to matrix



**CONESTOGA-ROVERS
& ASSOCIATES**

2055 Niagara Falls Blvd., Suite #3
Niagara Falls, New York 14304
Telephone: (716) 297-6150 Fax: (716) 297-2265
www.CRAworld.com

MEMORANDUM

TO: Bob Pyle

FROM: Paul McMahon/bjw/9 *pm*

CC: Terefe Mazengia

RE: **Data Quality Assessment and Validation
Birdsong Peanut
Colquitt, Georgia
March 2012**

REF. NO.: 018283

DATE: April 4, 2012

E-Mail and Hard Copy if Requested

INTRODUCTION

The following details a quality assessment and validation of the analytical data resulting from the collection of five water samples from the Birdsong Peanut site in Colquitt, Georgia, March 13, 2012. The sample summary detailing sample identification, sample location, and analytical parameters is presented in Table 1. Sample analysis was completed at Analytical Environmental Services, in Atlanta, Georgia, in accordance with the methodologies presented in Table 2. The analytical results summary is presented in Table 3. The quality control (QC) criteria used to assess the data were established by the methods and the document, "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review," United States Environmental Protection Agency (USEPA) 540/R-94-013, February 1994.

A data quality assessment and validation was performed based on the sample results and supporting quality assurance/quality control (QA/QC) provided.

HOLDING TIME PERIOD AND SAMPLE ANALYSIS

The holding time periods are presented in the analytical methods. All samples were prepared and analyzed within the method-required holding times. All samples were properly cooled to 4°C ($\pm 2^\circ\text{C}$) after collection.

METHOD BLANK SAMPLES

Method blanks are prepared and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the preparation and analytical procedures.

For this study, method blanks were analyzed at a minimum frequency of one per analytical batch. The blank results were non-detect for all analytes of interest.

LABORATORY CONTROL SAMPLE (LCS) ANALYSIS

The LCS serves as a measure of overall analytical performance. LCSs are prepared with all analytes of interest and analyzed with each sample batch. The LCS recoveries were within the laboratory specified control limits for all analytes of interest, demonstrating acceptable overall analytical accuracy.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) ANALYSES

MS/MSD samples are prepared and analyzed with the samples for each metal. The recoveries of spike analyses are used to assess the analytical accuracy achieved on individual sample matrices. If the original sample concentration is significantly greater than the spike concentration, the recovery is not assessed. The relative percent difference (RPD) between the MS and MSD is used to assess analytical precision.

No sample was specified for MS/MSD analyses. MS/MSD analyses were performed internally by the laboratory for hexavalent chromium. All results were within the laboratory control limits, indicating acceptable analytical accuracy and precision.

FIELD DUPLICATE

As summarized in Table 1, one sample was collected in duplicate and was submitted to the laboratory for analysis. All sample results showed acceptable sampling and analytical precision.

SPECIAL COMMENT

Two dissolved sample results were significantly greater in concentration than the associated total results. The associated sample results were qualified as estimated (see Table 4).

OVERALL ASSESSMENT

The data were found to exhibit acceptable levels of accuracy and precision, based on the provided information, and may be used as reported with the noted qualifications.

TABLE 1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
 BIRDSONG PEANUT
 COLQUITT, GEORGIA
 MARCH 2012

<i>Sample ID</i>	<i>Location ID</i>	<i>Collection Date (mm/dd/yy)</i>	<i>Collection Time (hr:min)</i>	<i>Analysis/Parameters</i>		<i>Comments</i>
				<i>Total Metals & Hexavalent Chromium</i>	<i>Dissolved Metals & Hexavalent Chromium</i>	
GW-031312-DJB-001	MW-10	03/13/12	13:00	X	X	
GW-031312-DJB-002	MW-11	03/13/12	14:00	X	X	
GW-031312-DJB-003	MW-5	03/13/12	15:30	X	X	
GW-031312-DJB-004	MW-6	03/13/12	16:40	X	X	
GW-031312-DJB-005	MW-6	03/13/12	17:00	X	X	Duplicate of GW-031312-DJB-004

TABLE 2
SUMMARY OF ANALYTICAL METHODOLOGIES
BIRDSONG PEANUT
COLQUITT, GEORGIA
MARCH 2012

<i>Parameter</i>	<i>Method</i> ¹
Total and Dissolved Metals	SW-846 6020A
Total and Dissolved Hexavalent Chromium	SW-846 7196

Note:

- ¹ "Test Methods for Solid Waste Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 (with subsequent revisions).

TABLE 3

**ANALYTICAL RESULTS SUMMARY
BIRDSONG PEANUT
COLQUITT, GEORGIA
MARCH 2012**

<i>Location:</i>		MW-5	MW-6	MW-6	MW-10	MW-11
<i>Sample Name:</i>		GW-031312-DJB-003	GW-031312-DJB-004	GW-031312-DJB-005	GW-031312-DJB-001	GW-031312-DJB-002
<i>Sample Date:</i>		3/13/2012	3/13/2012	3/13/2012	3/13/2012	3/13/2012
				<i>Duplicate</i>		
<i>Parameters</i>	<i>Units</i>					
<i>Metals</i>						
Arsenic	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Arsenic (dissolved)	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Cadmium	mg/L	0.0007 U	0.00951	0.00964	0.00405	0.00112
Cadmium (dissolved)	mg/L	0.0007 U	0.00889	0.00862	0.00384	0.00102
Chromium	mg/L	0.005 U	0.189	0.192	0.0928	0.207
Chromium (dissolved)	mg/L	0.005 U	0.186	0.186	0.0891	0.146
Chromium III (trivalent)	mg/L	0.0100 U	0.0100 U	0.0100 U	0.0128	0.0433
Chromium III (trivalent) (dissolved)	mg/L	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U
Chromium VI (hexavalent)	mg/L	0.0100 U	0.193	0.202	0.0800	0.163 J
Chromium VI (hexavalent) (dissolved)	mg/L	0.0100 U	0.193	0.199	0.0800	0.217 J
Copper	mg/L	0.002 U	0.00252	0.00265	0.0266	0.0053
Copper (dissolved)	mg/L	0.002 U	0.00203	0.002 U	0.023	0.00304
Lead	mg/L	0.001 U	0.001 U	0.001 U	0.00118	0.00127
Lead (dissolved)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Manganese	mg/L	0.0408	0.212	0.216	14.5	0.685 J
Manganese (dissolved)	mg/L	0.017	0.198	0.194	15	1.43 J
Potassium	mg/L	1.22	56.5	57.7	475	121
Potassium (dissolved)	mg/L	1.29	55.3	55.1	487	108
Selenium	mg/L	0.005 U	0.005 U	0.005 U	0.0457	0.005 U
Selenium (dissolved)	mg/L	0.005 U	0.005 U	0.005 U	0.0389	0.005 U
Silver	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Silver (dissolved)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U

Notes:

U - Non-detect at the associated value.

J - Estimated.

TABLE 4

QUALIFIED ANALYTICAL RESULTS DUE TO A DISCREPANCY IN THE TOTAL VS. DISSOLVED RESULTS
 BIRDSONG PEANUT
 COLQUITT, GEORGIA
 MARCH 2012

<i>Analyte</i>	<i>Sample ID</i>	<i>Total Result</i>	<i>Dissolved Result</i>	<i>Qualified Total Result</i>	<i>Qualified Dissolved Result</i>	<i>Units</i>
Manganese	GW-031312-DJB-002	685	1430	685 J	1430 J	µg/L
Hexavalent Chromium	GW-031312-DJB-002	0.163	0.217	0.163 J	0.217 J	mg/L

Note:

J Estimated.

APPENDIX W

2013 BBJ GROUP GROUNDWATER MONITORING REPORT



May 30, 2013

Jason Metzger, Unit Manager
Georgia Environmental Protection Department
Response & Remediation Program
4244 International Parkway, Suite 104
Atlanta, GA 30354

Re: **Groundwater Monitoring Report – April 2013**
Birdsong Peanut Plant
608 E Main Street (Hwy 91)
Colquitt, GA
BB&J Project No. R1306875

Dear Mr. Metzger:

Bradburne, Briller & Johnson, LLC (BB&J) is pleased to provide the Georgia Environmental Protection Department (GA EPD) with this *Groundwater Monitoring Report – April 2013* (Report) for the Birdsong Peanut Plant located at 608 E Main Street (Hwy 91) in Colquitt, Georgia. This Report is being submitted for the Subject Property to satisfy the GA EPD's annual groundwater sampling requirement for the year 2013.


If you have any questions or require additional information, please call Mr. Paul Owens of BB&J at (978) 834-0798.

Sincerely,

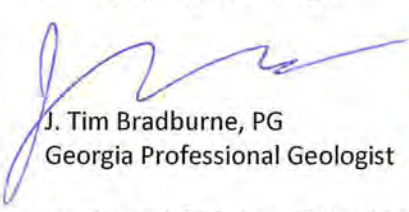
BRADBURNE, BRILLER & JOHNSON, LLC



Paul C. Owens, P.G.
Principal/Project Manager



Andrew Bajorat, CHMM
Principal



J. Tim Bradburne, PG
Georgia Professional Geologist



cc: Nancy J. Rich, Esq., Katten Muchin Rosenman LLP



May 30, 2013

Nancy J. Rich, Esq.
Katten Muchin Rosenman LLP
525 West Monroe Street
Chicago, Illinois 60661

Re: **Groundwater Monitoring Report – April 2013**
Birdsong Peanut Plant
608 E Main Street (Hwy 91)
Colquitt, GA
BB&J Project No. R1306875

Dear Ms. Rich:

Bradburne, Briller & Johnson, LLC (BB&J) is pleased to provide Katten Muchin Rosenman LLP (Katten) with this *Groundwater Monitoring Report – April 2013* (Report) for the Birdsong Peanut Plant located at 608 E Main Street (Hwy 91) in Colquitt, Georgia. This Report, which was requested via email correspondence received by Mr. Andrew Bajorat of BB&J on March 20, 2013, is for groundwater sampling activities conducted by BB&J at the Subject Property in April 2013.

We appreciate the opportunity to provide Katten with our environmental consulting services. If you have any questions or require additional information, please call.

Sincerely,

BRADBURNE, BRILLER & JOHNSON, LLC

A handwritten signature in blue ink that reads 'Paul C. Owens'.

Paul C. Owens, P.G.
Principal/Project Manager

A handwritten signature in blue ink that reads 'Andrew Bajorat'.

Andrew Bajorat, CHMM
Principal

A handwritten signature in blue ink that reads 'J. Tim Bradburne'.

J. Tim Bradburne, PG
Georgia Professional Geologist





GROUNDWATER MONITORING REPORT – APRIL 2013

**BIRDSONG PEANUT PLANT
608 E Main Street (Hwy 91)
Colquitt, Georgia**

Submitted to:
Katten Muchin Rosenman LLP
Chicago, Illinois

Prepared by:
Bradburne, Briller & Johnson, LLC
Amesbury, Massachusetts

May 30, 2013

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Figure 3	Groundwater Potentiometric Surface Map (April 17, 2013)
Figure 4	Site Plan Showing Groundwater Laboratory Analytical Results (April 16 and 17, 2013)

APPENDICES

Appendix A	Site Plan Showing Hydraulic Gradient Calculations
Appendix B	Copy of Laboratory Analytical Report including Chain-of-Custody Form



1.0 BACKGROUND

The Birdsong Peanut Plant is located at 608 E Main Street (Hwy 91) in Colquitt, Georgia (Subject Property; refer to Figure 1 for a site location map). The Subject Property is currently listed on the Georgia Environmental Protection Division (EPD) Hazardous Site Inventory (HSI) due to past elevated concentrations perchloroethylene (PCE) in groundwater (which was remediated under the Hazardous Site Response Act Program).

This Report was prepared for groundwater sampling activities conducted by Bradburne, Briller & Johnson, LLC (BB&J) at the Subject Property during the month of April 2013 in order to satisfy the GA EPD's annual sampling/reporting requirement¹.

2.0 FIELD ACTIVITIES

Task 1 – Groundwater Sampling

Field Preparation

Prior to beginning field work, BB&J prepared a site-specific Health and Safety Plan (HSP) per Code of Federal Regulations Part 1910 to address known and anticipated hazards associated with the scope of work. The HSP was prepared for use only by BB&J employees and was not intended for reliance by subcontractors or any other party.

Groundwater Monitoring

BB&J conducted the following groundwater monitoring activities at the Subject Property on April 16 and 17, 2013:

- Ten (10) monitoring wells MW-4, MW-5, MW-6, MW-7D, MW-8, MW-9, MW-10, MW-13, MW-15 and MW-17D were gauged using an electronic interface probe in order to measure the static groundwater levels to aid in determining the direction of groundwater flow beneath the Subject Property. Figure 2 presents a site location map with monitoring well locations;
- Four (4) of the five (5) monitoring wells selected for sampling during this event (i.e., MW-4, MW-6, MW-7D, MW-10 and MW-11²) were purged using a low-flow pump until turbidity, pH, dissolved oxygen (DO), temperature and specific conductance (SC) have stabilized (3-5 minutes between readings, using a multi-parameter water meter and/or turbidity meter) as follows:
 - Turbidity (10% for values greater than 1 NTU);
 - DO (10%);

¹ Requirement pursuant to the GAEPD-approved CAP (dated September 2009 and prepared by Conestoga-Rovers & Associates of Duluth, Georgia) and as required in a January 31, 2011 GA EPD letter to Birdsong Peanut.

² Monitoring wells MW-11, MW-12, MW-14 and MW-16 could not be located during this sampling event. This monitoring well was not located by the previous consultants during the March 13, 2012 sampling event.

- SC (3%);
 - Temperature (3%); and
 - pH + or – 0.1 units.
- Groundwater samples were collected from monitoring wells MW-4, MW-6, MW-7D and MW-10, placed in pre-cleaned containers provided by Analytical Environmental Services, Inc. (AES) of Atlanta, Georgia and shipped to the laboratory for chemical analysis of total and dissolved chromium using United States Environmental Protection Agency (USEPA) Method 6020A and speciated chromium using USEPA Method 7196;
 - One equipment rinsate sample and one field duplicate sample (from monitoring well MW-17D) were collected and analyzed (by AES) for total and dissolved chromium using USEPA Method 6020A and speciated chromium using USEPA Method 7196; and
 - Drummed liquid (i.e., purge water) was stored on-site in two Department of Transportation (DOT)-approved 55-gallon drums; currently pending transport and disposal off-site by Environmental Products & Services of Vermont, Inc. (EPS) of Stone Mountain, Georgia.

3.0 RESULTS

Results of groundwater monitoring activities conducted on April 16 and 17, 2013 at the Subject Property indicated the following:

3.1 Groundwater Flow Interpretation

Based on the results of a groundwater modeling program (i.e., SURFER 10) using the April 16 and 17, 2013 groundwater gauging data, the interpreted groundwater flow direction beneath the Subject Property is to the south which is relatively consistent with historical groundwater flow (refer to Table 1 for groundwater elevation data and Figure 3 for a groundwater potentiometric surface map). The hydraulic gradient was calculated to be 0.013 feet/foot (to be used in future fate and transport modeling; refer to Appendix A for a site plan showing the hydraulic gradient calculations).

3.2 Dissolved Chromium Results in Groundwater

- Total dissolved chromium was detected at a concentration exceeding the Type 1 RRS in the groundwater samples collected from monitoring well MW-10 located within the former chemical injection area;
- Dissolved hexavalent chromium was detected at a concentration exceeding the Type 1 and 4 RRS in the groundwater samples collected from both within and down-gradient of the former chemical injection area (i.e., in monitoring wells MW-10 and MW-6, respectively);
- No dissolved chromium (as total, trivalent or hexavalent) was detected at concentrations exceeding the Type 1 or 4 RRS in the groundwater samples collected from monitoring wells MW-7D and MW-17D (i.e., deep wells screened at depths greater than 65 feet bgs); and

- No dissolved trivalent chromium was detected at concentrations exceeding the Type 1 or 4 RRS in the groundwater samples collected from any of the monitoring wells sampled during April 16-17, 2013 monitoring event.

Refer to Table 2 for a summary of the groundwater laboratory analytical results from April 16 and 17, 2013. Figure 4 presents a site plan showing the April 16 and 17, 2013 groundwater laboratory analytical results. A copy of the groundwater laboratory analytical report (including the chain-of-custody form) is located in Appendix B.

4.0 CONCLUSIONS

Based upon the information contained herein, the following conclusions are offered for the Subject Property:

- Dissolved chromium (total and hexavalent) concentrations in MW-10 (**within the former PCE source area**) have increased over the last three groundwater monitoring events and exceed the applicable Type 1 and Type 4 RRS;
- No discernible decreasing trend of the dissolved (total or hexavalent) chromium groundwater concentrations over time is evident within the former PCE source area;
- Dissolved chromium (total, trivalent and hexavalent) in the deeper wells remain below laboratory RLs and Type 1 and Type 4 RRS; and
- Dissolved hexavalent chromium in monitoring well MW-6 (down-gradient) is at a historically low concentration.

Dissolved trivalent chromium was not detected in any groundwater samples at concentrations exceeding the laboratory reporting limit (RL) or Type 1 and Type 4 RRS.



TABLES



Table 1: Monitoring Well and Groundwater Elevation Data – April 17, 2013^{1, 2}
(Page 1 of 2)

Monitoring Well Identification	Date Installed ⁴	Well Construction Materials ⁴	Depth to Bottom of Well (feet btoc) ³	Screened Interval (feet bgs) ⁴	Top of Casing Elevation (feet)	Depth to Ground Water (feet btoc) ³	Groundwater Elevation (feet)	Comments
MW-4	08/28/00	SCH 40 PVC	15.81	7.5-17.5	92.70	5.01	87.69	No Cap or Well Cover
MW-5	08/29/00	SCH 40 PVC	13.08	40-45	95.57	6.68	88.89	Needs New Bolts
MW-6	08/30/00	SCH 40 PVC	54.63	50-55	94.26	16.70	77.56	Good Condition
MW-7D	07/26/01	SCH 40 PVC	79.81	74.5-79.5	93.75	16.26	77.49	Needs New Bolts
MW-8	07/26/01	SCH 40 PVC	49.22	43-48	93.57	16.21	77.36	Needs New Bolts
MW-9	07/26/01	SCH 40 PVC	27.55	17.5-27.5	92.85	7.85	85.00	Good Condition
MW-10	09/04/02	SCH 40 PVC	29.54	19-29	93.41	10.92	82.49	Broken PVC Casing
MW-11	08/12/03	SCH 40 PVC	NM	20-30	94.44	NM	NC	N/A
MW-12	04/24/03	SCH 40 PVC	NM	U	95.46	NM	NC	N/A
MW-13	08/11/05	SCH 40 PVC	18.92	8-18	93.76	9.91	83.85	Good Condition
MW-14	08/11/05	SCH 40 PVC	NM	8-13	96.72	NM	NC	N/A
MW-15	08/11/05	SCH 40 PVC	19.29	10-20	93.30	9.19	84.11	Needs New Bolts
MW-16	08/11/05	SCH 40 PVC	NM	10-20	96.34	NM	NC	N/A
MW-17D	08/12/05	SCH 40 PVC	75.03	65-75	93.40	15.88	77.52	Needs New Bolts



Table 1: Monitoring Well and Groundwater Elevation Data – April 17, 2013^{1, 2}
(Page 2 of 2)

Notes:

- ¹: Well elevation survey data from Table 2 of *Status Update – Pilot Injection and Performance Monitoring; and Annual Groundwater Monitoring and Reporting* document prepared by Conestoga-Rovers & Associates, Inc. (dated June 27, 2012).
- ²: Monitoring wells MW-4, MW-5, MW-6, MW-7D, MW-8, MW-9, MW-1, MW-15, MW-16 and MW-17D consist of 2-inch diameter PVC and were installed with locking caps and flush-mount steel covers. Monitoring wells MW-10 and MW-11 consist of 1-inch diameter PVC and were installed with locking caps and flush-mount steel covers.
- ³: Depths to ground water and bottom of well were recorded by BB&J on April 16 and 17, 2013 using a Solinst interface probe (i.e., Model No. 122).
- ⁴: Date of installation, screened interval and material of construction data from the *HSRA Compliance Status Report* prepared by Conestoga-Rovers & Associates, Inc. (September 2005).

Acronym Definitions:

N/A:	Not Applicable – monitoring well not located
btoc:	below top of casing
MW:	monitoring well
SCH:	schedule
PVC:	polyvinyl chloride
BB&J:	Bradburne, Briller & Johnson, LLC
NC:	not calculated
NM:	not measured
U:	Unknown, not identified in available documentation.

Prepared By/Date: PCO / 04.24.13
Checked By/Date: PCO / 05.30.13



Table 2: Summary of Historical Ground-Water Laboratory Analytical Results – March 2009 – April 2013
(Page 1 of 3)

Parameters	Date	Sample Identification (results in mg/L unless otherwise noted) ¹						GA EPD HSRA ² RRS Type 1 / RRS Type 4
		MW-5	MW-6	MW-7D	MW-10	MW-11 ³	MW-17D	
Chromium (total)	06/27/07	NS	0.701	NS	NS	NS	NS	0.1 / No Type 4 RRS
	03/05/09	0.0057 J	0.298/0.294 D	NS	0.0760	0.279	NS	
	03/24/10	0.0267	0.172/0.172 D	NS	0.0866	0.266	NS	
	03/29/11	0.005 U/D	0.217	NS	0.113	0.163	NS	
	10/05/11	0.005 U	0.191/0.193 D	0.00658	0.118	0.199	0.005 U	
	11/29/11	NS	0.199	0.005 U	0.099	0.211	0.005 U	
	12/29/11	NS	0.11/0.111 D	0.005 U	0.0884	0.204	0.005 U	
	03/13/12	0.005 U	0.189/0.192 D	NS	0.0928	0.207	NS	
	04/16-17/13	NS	NS	NS	NS	NS	NS	
Chromium III (+3) (total)	06/27/07	NS	NS	NS	NS	NS	NS	0.01 / 153.3
	03/05/09	NS	NS	NS	NS	NS	NS	
	03/24/10	0.0100 U	0.0100 U/D	NS	0.0262	0.0100 U	NS	
	03/29/11	0.0100 U/D	0.248	NS	0.0218	0.0105	NS	
	10/05/11	NS	0.0100 U/D	0.0100 U	0.0162	0.0100 U	0.0100 U	
	11/29/11	NS	0.0100 U	0.0100 U	0.0100 U	0.0433	0.0100 U	
	12/29/11	NS	0.0100 U	0.0100 U	0.0184	0.0100 U	0.0100 U	
	03/13/12	0.0100 U	0.0100 U/D	NS	0.0128	0.0433	NS	
	04/16-17/13	NS	NS	NS	NS	NS	NS	
Chromium VI (+6) (total)	06/27/07	NS	NS	NS	NS	NS	NS	0.01 / 0.01
	03/05/09	NS	NS	NS	NS	NS	NS	
	03/24/10	0.246	0.170/0.174	NS	0.605	0.265	NS	
	03/29/11	0.0100 U/D	0.192	NS	0.0909	0.152	NS	
	10/05/11	NS	0.193/0.199 D	0.0100 U	0.102	0.215	0.0100 U	
	11/29/11	NS	0.125	0.0100 U	0.0943	0.168	0.0100 U	
	12/29/11	NS	0.110/0.113 D	0.0100 U	0.0700	0.240	0.0100 U	
	03/13/12	0.0100 U	0.193/0.202 D	NS	0.0800	0.163 J	NS	
	04/16-17/13	NS	NS	NS	NS	NS	NS	



Table 2: Summary of Historical Ground-Water Laboratory Analytical Results – March 2009 – April 2013
(Page 2 of 3)

Parameters	Date	Sample Identification (results in mg/L unless otherwise noted) ¹						GA EPD HSRA ² RRS Type 1 / RRS Type 4
		MW-5	MW-6	MW-7D	MW-10	MW-11 ³	MW-17D	
Chromium (total dissolved)	06/27/07	NS	0.563	NS	NS	NS	NS	0.1 / No Type 4 RRS
	03/05/09	0.0056 J	0.298	NS	NS	0.292	NS	
	03/24/10	0.0286 J	0.16/0.165 D	NS	NS	0.217	NS	
	03/29/11	0.005 U/D	0.209	NS	0.102	0.179	NS	
	10/05/11	NS	0.19/0.192 D	0.00642	0.0988	0.174	0.005 U	
	11/29/11	NS	0.117	0.005 U	0.0875	0.194	0.005 U	
	12/29/11	NS	0.11/0.117	0.005 U	0.0792	0.187	0.005 U	
	03/13/12	0.005 U	0.186/0.186 D	NS	0.0891	0.146	NS	
	04/16-17/13	NS	0.0692	0.005 U	0.114	NS	0.005 U/D	
Chromium III (+3) (dissolved)	06/27/07	NS	NS	NS	NS	NS	NS	0.01 / 153.3
	03/05/09	NS	NS	NS	NS	NS	NS	
	03/24/10	0.00740 J	0.0100 U/D	NS	0.0205	0.0222	NS	
	03/29/11	0.0100 U/D	0.0178	NS	0.0145	0.0276	NS	
	10/05/11	NS	0.0100 U/D	0.0100 U	0.0140	0.0100 U	0.0100 U	
	11/29/11	NS	0.0100 U	0.0100 U	0.0100 U	0.0259	0.0100 U	
	12/29/11	NS	0.0100 U	0.0100 U	0.0180	0.0100 U	0.0100 U	
	03/13/12	0.0100 U	0.0100 U/D	NS	0.0100 U	0.0100 U	NS	
	04/16-17/13	NS	0.0100 U	0.0100 U	0.0100 U	NS	0.0010 U/D	
Chromium VI (+6) (dissolved)	06/27/07	NS	NS	NS	NS	NS	NS	0.01 / 0.01
	03/05/09	NS	NS	NS	NS	NS	NS	
	03/24/10	0.0212	0.172/0.178	NS	0.0718	0.195	NS	
	03/29/11	0.0100 U/D	0.191	NS	0.0874	0.151	NS	
	10/05/11	NS	0.192/0.194 D	0.0100 U	0.0848	0.184	0.0100 U	
	11/29/11	NS	0.126	0.0100 U	0.0932	0.168	0.0100 U	
	12/29/11	NS	0.104	0.0100 U	0.0612	0.178	0.0100 U	
	03/13/12	0.0100 U	0.193/0.199 D	NS	0.0800	0.217 J	NS	
	04/16-17/13	NS	0.0859	0.0010 U	0.126	NS	0.0010 U/D	



**Table 2: Summary of Historical Ground-Water Laboratory Analytical Results – March 2009 – April 2013
(Page 3 of 3)**

Notes:

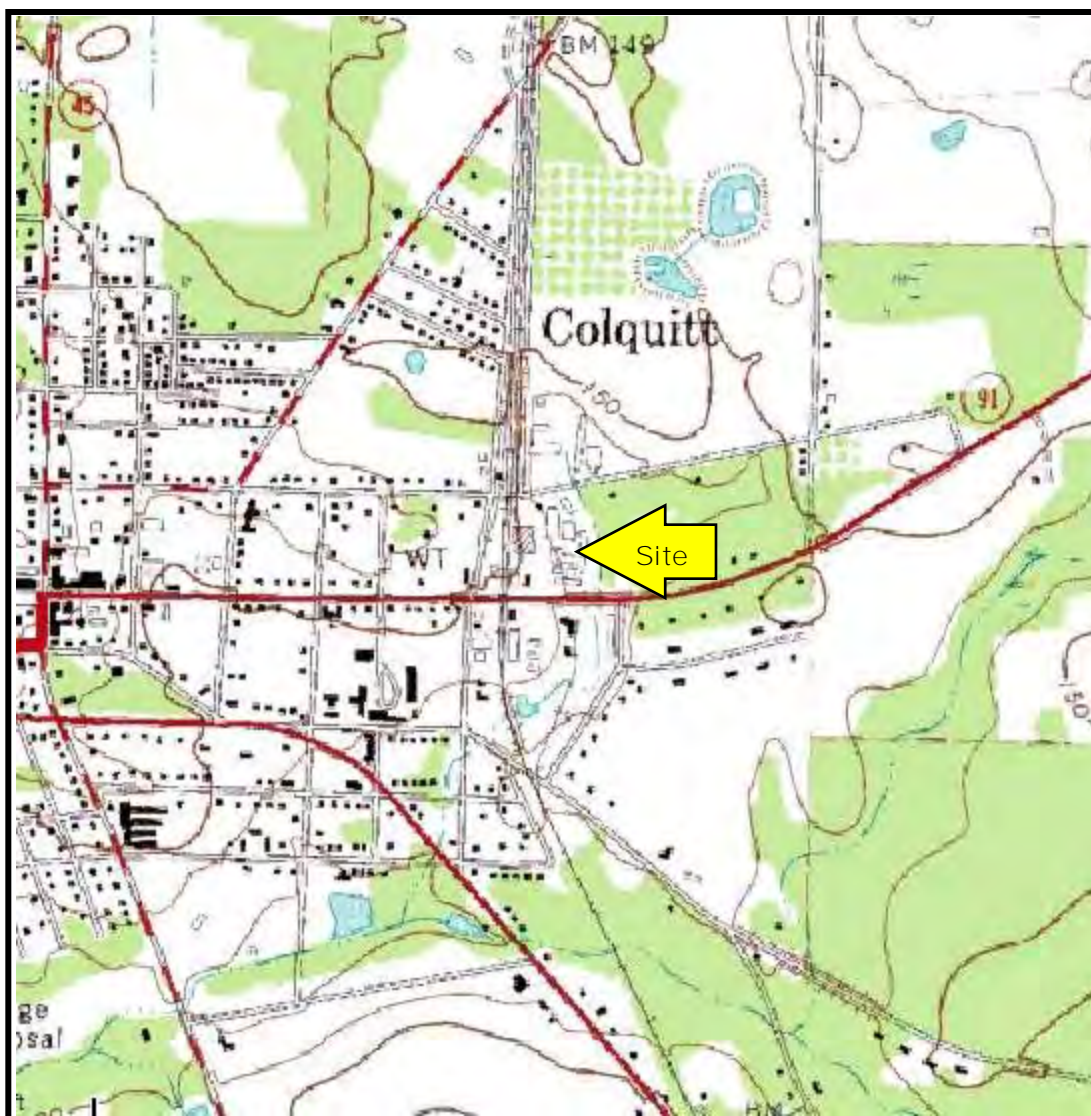
- ¹: Groundwater samples were collected by Conestoga-Rovers Associates, Inc. from June 2007 through March 2012. Groundwater samples were collected by BB&J on April 16-17, 2013 and submitted to Analytical Environmental Services, Inc. (AES) of Atlanta, Georgia and shipped to the laboratory for chemical analysis of total and dissolved chromium using USEPA Method 6020A and speciated chromium using USEPA Method 7196. Water quality parameter measurements (i.e., pH, temperature, DO, conductivity, and ORP) were obtained using a YSI 556 water quality meter.
- ²: GA EPD HSRA Type 1 and 4 RRS obtained from the GDNR Chapter 391-3-19-.07 Risk Reduction Standards (Appendix III Media Target Concentrations and Standard Exposure Assumptions). Type I RRS shall pose no significant risk on the basis of standardized exposure assumptions and defined risk level for residential properties. Type 4 RRS shall pose no significant risk on the basis of site-specific risk assessment for non-residential properties.
- ³: Monitoring well MW-11 could not be located during the March 13, 2012 or April 16-17, 2013 groundwater monitoring events.

Acronym Definitions:

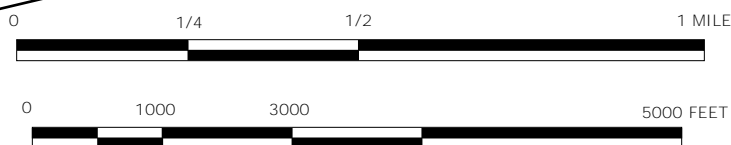
0.0859:	Value exceeds the laboratory RL, but is below Type 1 and Type 4 RRS.
0.126:	Value exceeds the Type 1 and/or Type 4 RRS.
U:	not detected at concentrations exceeding the laboratory RLs
BB&J:	Bradburne, Briller & Johnson, LLC
HSRA:	Hazardous Site Response Act
USEPA:	United States Environmental Protection Agency
MW:	Monitoring Well
RL:	Reporting Limit (RL)
DO:	Dissolved Oxygen
ORP:	Oxidation-Reduction Potential (millivolts)
mg/L:	milligrams per Liter
GA EPD:	Georgia Environmental Protection Department
NS:	not sampled
RRS:	Risk Reduction Standards
D:	duplicate (sample)
J:	estimated concentration
GDNR:	Georgia Department of Natural Resources



FIGURES



Quadrangle Location



Prepared by/Date: TAD / 04.29.13

Checked by/Date: PCO / 04.29.13

Katten Muchin Rosenman LLP
Birdsong Peanut Plant
608 E Main Street (Hwy 91)
Colquitt, Georgia

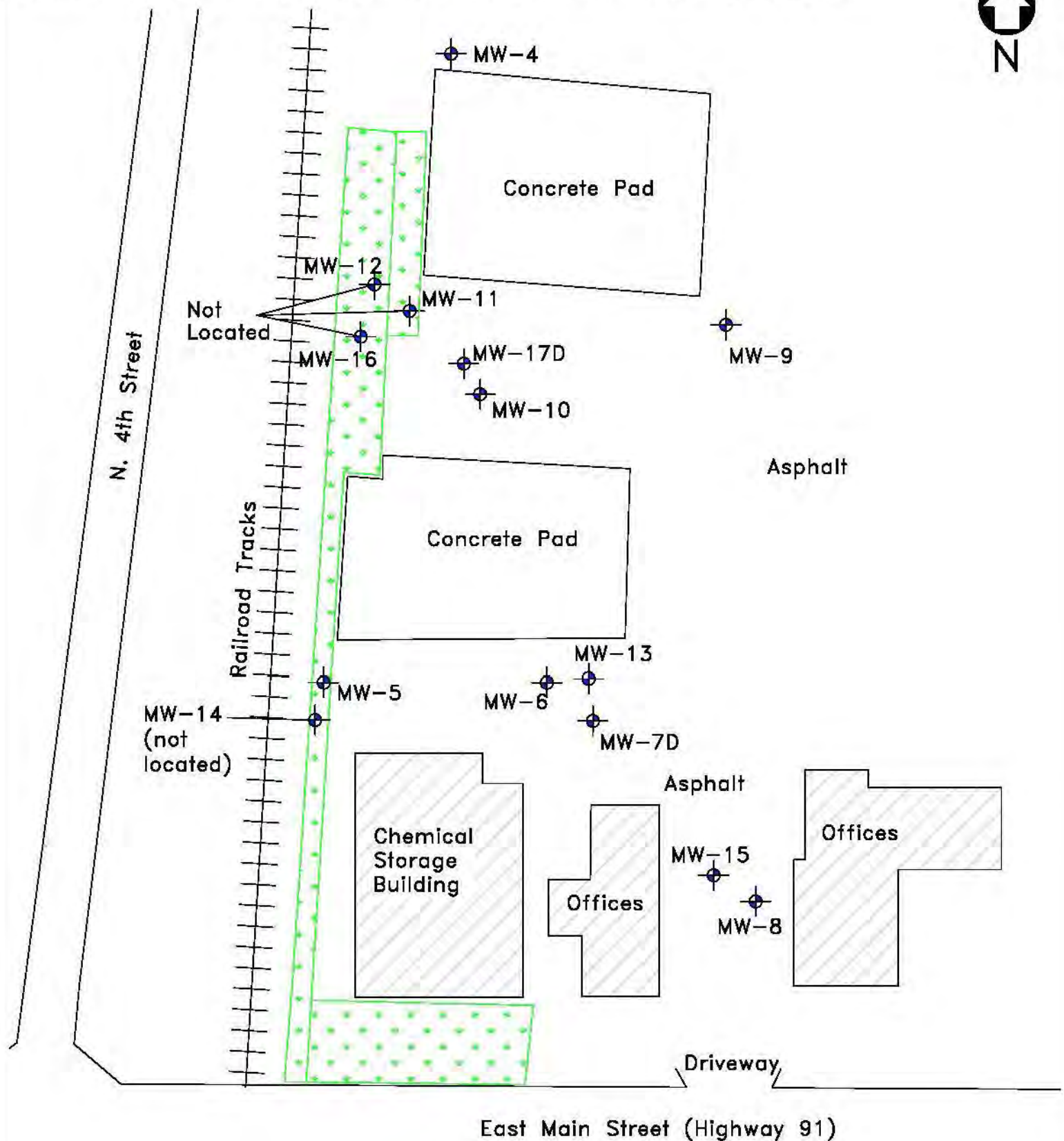


Bradburne, Briller & Johnson, LLC
www.bbgroup.com

Site Location Map

Project No. R1306875

Figure 1



LEGEND

- MW-6 - monitoring well Identification/location
- Grassy area

Prepared by/Date: IAD / 04.26.13
 Checked by/Date: PCO / 04.29.13

Katten Muchin Rosenman LLP
 Birdsong Peanut Plant
 608 E Main Street (Hwy 91)
 Colquitt, Georgia



Bradburne, Briller & Johnson, LLC
 www.bbjgroup.com

Generalized Site Plan

Project No. R1306875

Figure 2



N. 4th Street

Not Located

Railroad Tracks

MW-14
(not located)

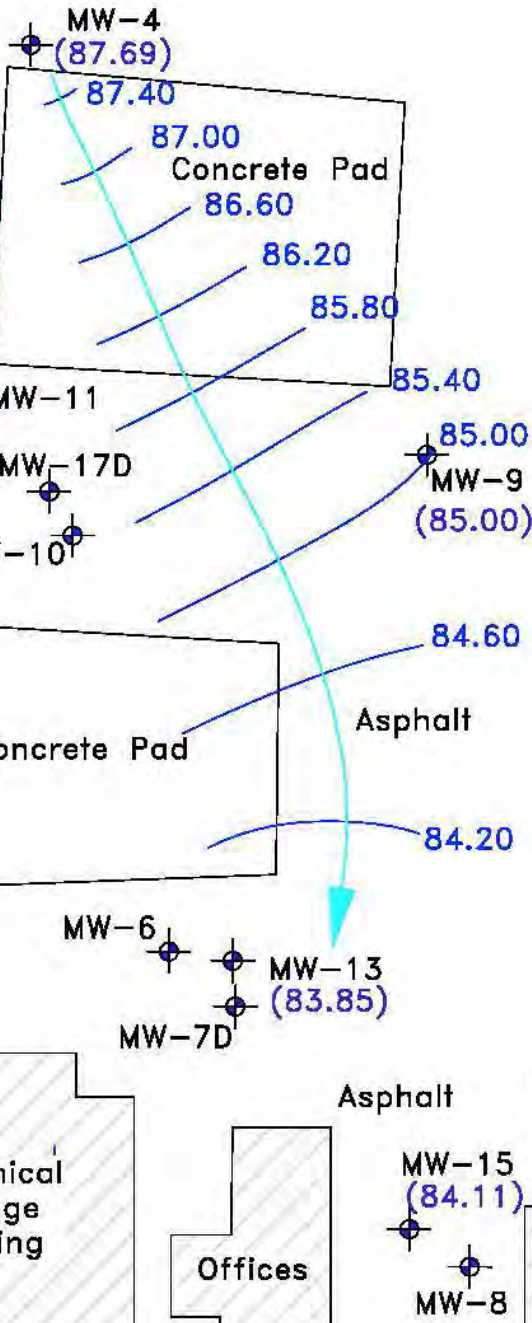
Chemical
Storage
Building

Offices

Offices

Driveway

East Main Street (Highway 91)



- LEGEND**
- MW-8 - monitoring well location/identification
 - interpreted groundwater contour
 - interpreted direction of groundwater flow
 - (83.85) - groundwater elevation
 - 84.20 - interpreted groundwater elevation
 - grassy area

Note: Data from gauged shallow wells MW-4, MW-9, MW-13 and MW-15 were used to create map

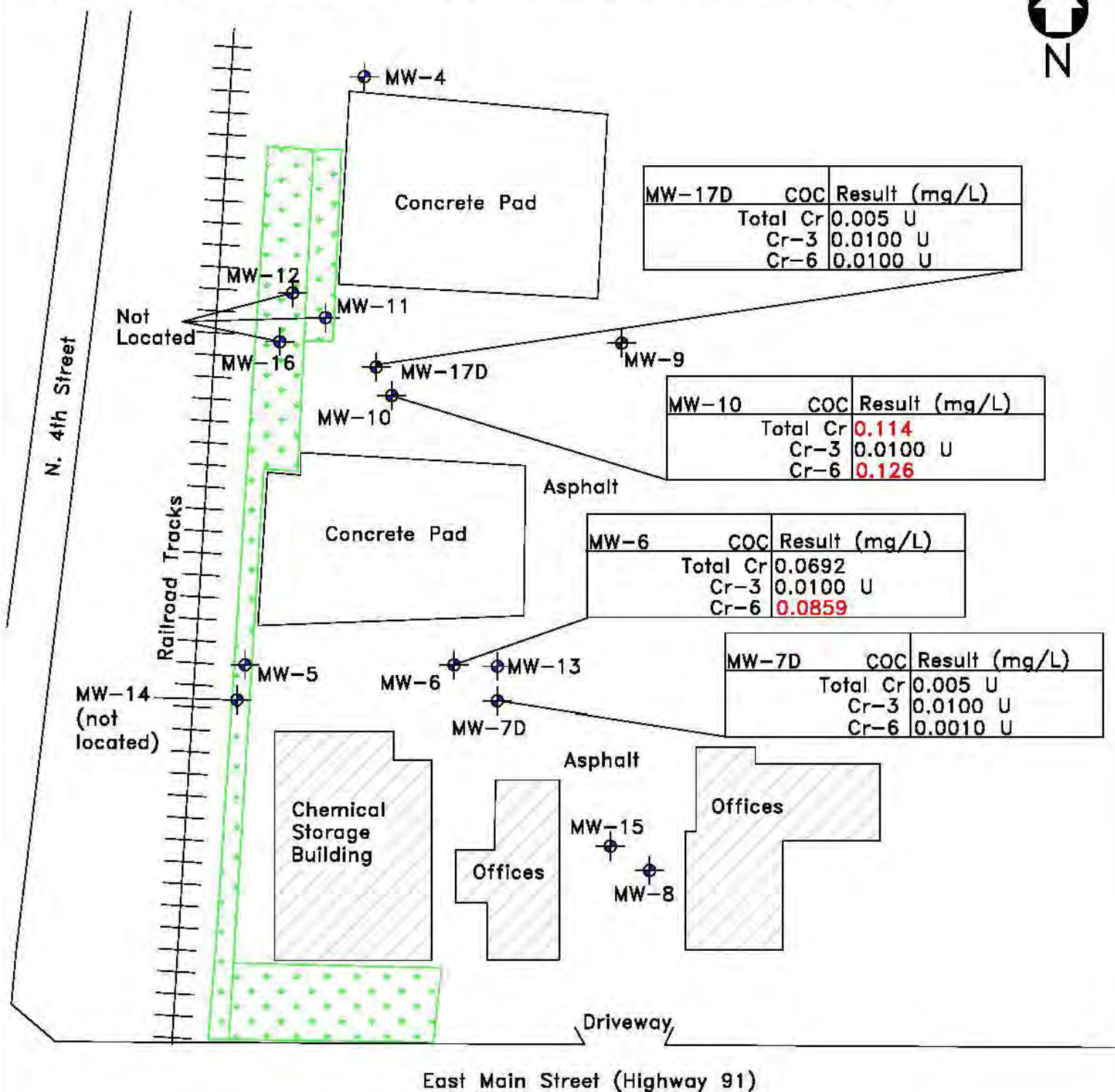


Prepared by/Date: TAD / 04.29.13
Checked by/Date: PCO / 04.29.13

Katten Muchin Rosenman LLP
Birdsong Peanut Plant
608 E Main Street (Hwy 91)
Colquitt, Georgia

B&J Bradburne, Briller & Johnson, LLC
www.bbjgroup.com

Generalized Site Plan
Showing Potentiometric
Surface Map
(April 17, 2013)
Project No. R1306875 Figure 3





APPENDIX A

SITE PLAN SHOWING HYDRAULIC GRADIENT CALCULATIONS

Source: Site reconnaissance performed by Ms. Tracy Dianne of Bradburne, Briller & Johnson, LLC on April 16-17, 2013.

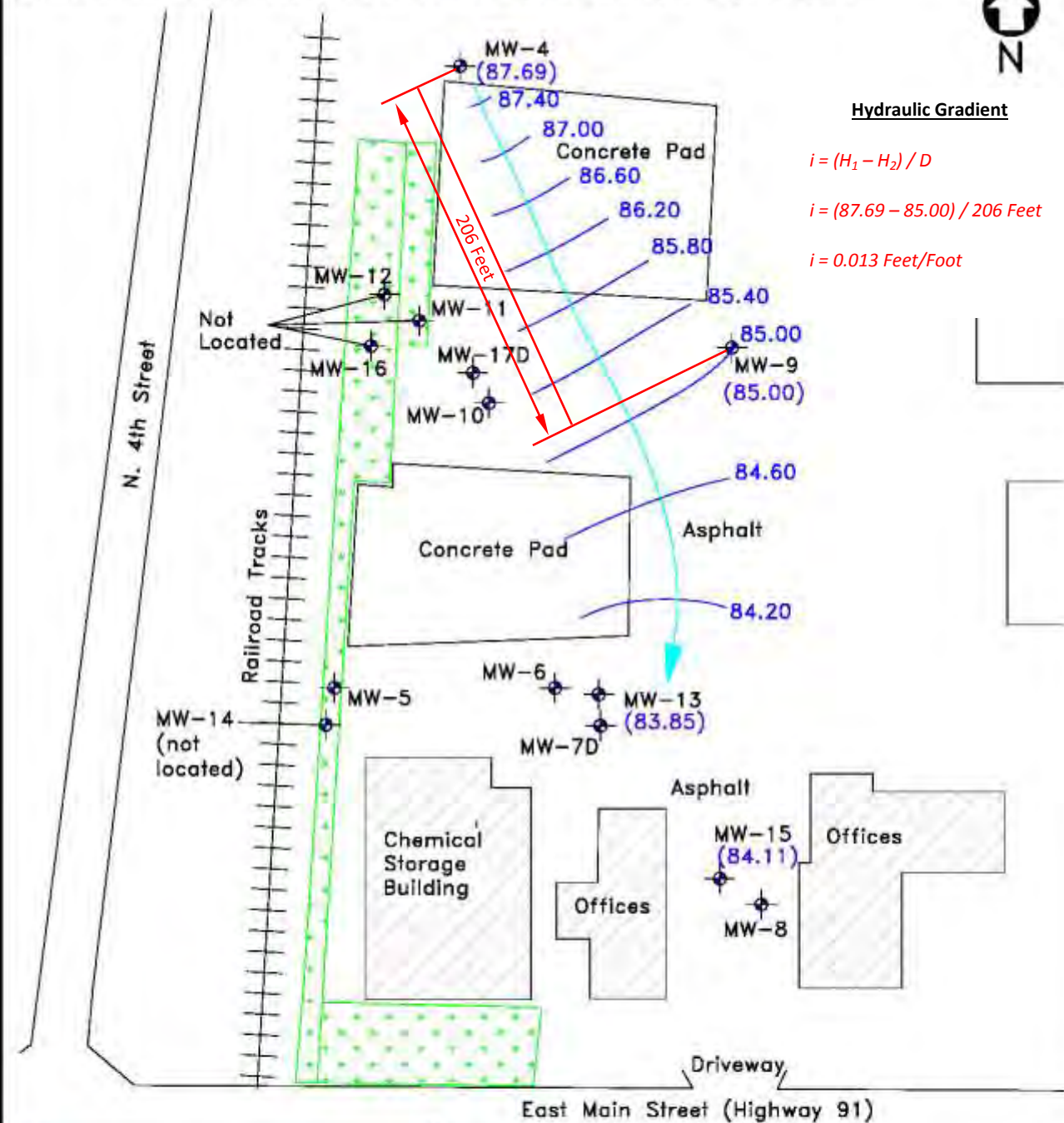


Hydraulic Gradient

$$i = (H_1 - H_2) / D$$

$$i = (87.69 - 85.00) / 206 \text{ Feet}$$

$$i = 0.013 \text{ Feet/Foot}$$



LEGEND

- MW-8 - monitoring well location/identification
- Interpreted groundwater contour
- Interpreted direction of groundwater flow
- groundwater elevation
- Interpreted groundwater elevation
- grassy area

Note: Data from gauged shallow wells MW-4, MW-9, MW-13 and MW-15 were used to create map

Katten Muchin Rosenman LLP
Birdsong Peanut Plant
808 E Main Street (Hwy 91)
Colquitt, Georgia



Bradburne, Briller & Johnson, LLC
www.bbgroup.com

Hydraulic Gradient
Calculations



APPENDIX B

COPY OF LABORATORY ANALYTICAL REPORT INCLUDING CHAIN-OF-CUSTODY FORM



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

April 24, 2013

Tracy A. Dionne
Bradburne, Briller & Johnson, LLC
5 Market Square
Amesbury MA 01913

TEL: (978) 821-8811
FAX: (978) 834-0378

RE: Colquitt Ga

Dear Tracy A. Dionne:

Order No: 1304G10

Analytical Environmental Services, Inc. received 6 samples on 4/17/2013 5:40:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/12-06/30/13.
- AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/13.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Nicole Jessup
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC.
 3785 Presidential Parkway, Atlanta GA 30340-3704
AES TEL: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1304610

Date: 4.17.13 Page 1 of 1

COMPANY: <u>BB+J</u> <u>Bradburn, Butler + Johnson</u>		ADDRESS: <u>5 Market Sq. Suite 205</u> <u>Amesbury MA 01913</u>		ANALYSIS REQUESTED										Visit our website <u>www.aesatlanta.com</u> to check on the status of your results, place bottle orders, etc.		No # of Containers		
PHONE: <u>978.834.0790</u>		FAX: <u>978.834.0370</u>		PRESERVATION (See codes)										REMARKS				
SAMPLED BY: <u>Tracy Dionne</u>		SIGNATURE: <u>[Signature]</u>																
#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)	PRESERVATION (See codes)										REMARKS	No # of Containers
		DATE	TIME															
1	MW - 10	4.16	7:35P	X		GW	X	X									Field filtered	2
2	MW - 17 D	4.16	8:10P															2
3	MW - 7 D	4.17	9:44A															2
4	MW - 6	4.17	11:43A															2
5	EQR	4.17	11:52	✓		✓	✓	✓									plz filter sample	2
6	MW - 17 D (Dup)	4.16	8:10P	✓		✓	✓	✓									Field filtered	2
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		

RELINQUISHED BY		DATE/TIME		RECEIVED BY		DATE/TIME		PROJECT INFORMATION				RECEIPT	
1: <u>[Signature]</u>		4.17.13 5:40P		1: <u>[Signature]</u>		4/17/13 5:40		PROJECT NAME: <u>Colquitt, GA</u>				Total # of Containers	
2:				2:				PROJECT #: <u>R1306875</u>				<input checked="" type="checkbox"/> Turnaround Time Request <input type="checkbox"/> Standard 5 Business Days <input type="checkbox"/> 2 Business Day Rush <input type="checkbox"/> Next Business Day Rush <input type="checkbox"/> Same Day Rush (auth req.) <input type="checkbox"/> Other	
3:				3:				SITE ADDRESS:					
								SEND REPORT TO: <u>tdionne@bbjgroup.com</u>					
SPECIAL INSTRUCTIONS/COMMENTS: <u>EQR Sample was NOT Field Filtered.</u>				SHIPMENT METHOD				INVOICE TO: (IF DIFFERENT FROM ABOVE) <u>BB+J</u> <u>500 N. Dearborn St. Suite 712</u> <u>Chicago, IL 60654</u>				STATE PROGRAM (if any):	
				OUT VIA: IN VIA: CLIENT FedEx UPS MAIL COURIER GREYHOUND OTHER				QUOTE #: <u>R1306875</u> PO#: <u>R1306875</u>				E-mail? <input checked="" type="checkbox"/> Y / N Fax? <input type="checkbox"/> Y / N	
												DATA PACKAGE: I II III IV	

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES.
 SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
 PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Client: Bradburne, Briller & Johnson, LLC
Project: Colquitt Ga
Lab ID: 1304G10

Case Narrative

Hexavalent vs Total Chromium:

Please note the Hexavalent Chromium value is reported as greater than Total Chromium value for samples 1304G10-001B and -004B. The values are within the expected reproducibility limits for the test methods used and the results are suspected to be due to differences between the sample aliquots used for analysis. The data indicates that all Chromium present is in the Hexavalent oxidation state.

Analytical Environmental Services, Inc**Date:** 24-Apr-13

Client: Bradburne, Briller & Johnson, LLC
Project Name: Colquitt Ga
Lab ID: 1304G10-001

Client Sample ID: MW-10
Collection Date: 4/16/2013 7:35:00 PM
Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Hexavalent Chromium, Dissolved SW7196A								
Chromium as Cr+3	BRL	0.0100		mg/L	R242668	1	04/17/2013 18:25	CG
Chromium, Hexavalent	0.126	0.0100		mg/L	R242668	1	04/17/2013 18:25	CG
Dissolved Metals by ICP/MS SW6020A (SW3005A)								
Chromium	114	5.00		ug/L	175079	1	04/22/2013 19:09	JY

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc**Date:** 24-Apr-13

Client: Bradburne, Briller & Johnson, LLC
Project Name: Colquitt Ga
Lab ID: 1304G10-002

Client Sample ID: MW-17D
Collection Date: 4/16/2013 8:10:00 PM
Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Hexavalent Chromium, Dissolved SW7196A								
Chromium as Cr+3	BRL	0.0100		mg/L	R242668	1	04/17/2013 18:25	CG
Chromium, Hexavalent	BRL	0.0100		mg/L	R242668	1	04/17/2013 18:25	CG
Dissolved Metals by ICP/MS SW6020A (SW3005A)								
Chromium	BRL	5.00		ug/L	175079	1	04/22/2013 19:44	JY

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc**Date:** 24-Apr-13

Client: Bradburne, Briller & Johnson, LLC
Project Name: Colquitt Ga
Lab ID: 1304G10-003

Client Sample ID: MW-7D
Collection Date: 4/17/2013 9:44:00 AM
Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Hexavalent Chromium, Dissolved SW7196A								
Chromium as Cr+3	BRL	0.0100		mg/L	R242668	1	04/17/2013 18:25	CG
Chromium, Hexavalent	BRL	0.0100		mg/L	R242668	1	04/17/2013 18:25	CG
Dissolved Metals by ICP/MS SW6020A (SW3005A)								
Chromium	BRL	5.00		ug/L	175079	1	04/22/2013 19:50	JY

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc**Date:** 24-Apr-13

Client: Bradburne, Briller & Johnson, LLC
Project Name: Colquitt Ga
Lab ID: 1304G10-004

Client Sample ID: MW-6
Collection Date: 4/17/2013 11:43:00 AM
Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Hexavalent Chromium, Dissolved SW7196A								
Chromium as Cr+3	BRL	0.0100		mg/L	R242668	1	04/17/2013 18:25	CG
Chromium, Hexavalent	0.0859	0.0100		mg/L	R242668	1	04/17/2013 18:25	CG
Dissolved Metals by ICP/MS SW6020A (SW3005A)								
Chromium	69.2	5.00		ug/L	175079	1	04/22/2013 20:14	JY

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 24-Apr-13

Client:	Bradburne, Briller & Johnson, LLC	Client Sample ID:	EQR
Project Name:	Colquitt Ga	Collection Date:	4/17/2013 11:52:00 AM
Lab ID:	1304G10-005	Matrix:	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Hexavalent Chromium, Dissolved SW7196A								
Chromium as Cr+3	BRL	0.0100		mg/L	R242668	1	04/17/2013 18:25	CG
Chromium, Hexavalent	BRL	0.0100		mg/L	R242668	1	04/17/2013 18:25	CG
Dissolved Metals by ICP/MS SW6020A (SW3005A)								
Chromium	BRL	5.00		ug/L	175079	1	04/22/2013 20:20	JY

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc**Date:** 24-Apr-13

Client: Bradburne, Briller & Johnson, LLC
Project Name: Colquitt Ga
Lab ID: 1304G10-006

Client Sample ID: MW-17D (DUP)
Collection Date: 4/16/2013 8:10:00 PM
Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Hexavalent Chromium, Dissolved SW7196A								
Chromium as Cr+3	BRL	0.0100		mg/L	R242668	1	04/17/2013 18:25	CG
Chromium, Hexavalent	BRL	0.0100		mg/L	R242668	1	04/17/2013 18:25	CG
Dissolved Metals by ICP/MS SW6020A (SW3005A)								
Chromium	BRL	5.00		ug/L	175079	1	04/22/2013 20:26	JY

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client BB&J

Work Order Number 1307610

Checklist completed by [Signature] Date 9/17/13

Carrier name: FedEx ☐ UPS ☐ Courier ☐ Client ☒ US Mail ☐ Other ☐

Shipping container/cooler in good condition? Yes ☒ No ☐ Not Present ☐

Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☒

Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒

Container/Temp Blank temperature in compliance? (4°C±2)* Yes ☒ No ☐

Cooler #1 3.1 Cooler #2 ☐ Cooler #3 ☐ Cooler #4 ☐ Cooler #5 ☐ Cooler #6 ☐

Chain of custody present? Yes ☒ No ☐

Chain of custody signed when relinquished and received? Yes ☒ No ☐

Chain of custody agrees with sample labels? Yes ☒ No ☐

Samples in proper container/bottle? Yes ☒ No ☐

Sample containers intact? Yes ☒ No ☐

Sufficient sample volume for indicated test? Yes ☒ No ☐

All samples received within holding time? Yes ☒ No ☐

Was TAT marked on the COC? Yes ☒ No ☐

Proceed with Standard TAT as per project history? Yes ☐ No ☐ Not Applicable ☒

Water - VOA vials have zero headspace? No VOA vials submitted Yes ☒ No ☐

Water - pH acceptable upon receipt? Yes ☒ No ☐ Not Applicable ☐

Adjusted? ☐ Checked by [Signature]

Sample Condition: Good ☒ Other(Explain) ☐

(For diffusive samples or AIHA lead) Is a known blank included? Yes ☐ No ☒

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

\\Quality Assurance\Checklists Procedures Sign-Off Templates\Checklists\Sample Receipt Checklists\Sample_Cooler_Receipt_Checklist

Client: Bradburne, Briller & Johnson, LLC
Project: Colquitt Ga
Lab Order: 1304G10

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1304G10-001A	MW-10	4/16/2013 7:35:00PM	Aqueous	Dissolved Metals by ICP/MS		04/22/2013	04/22/2013
1304G10-001B	MW-10	4/16/2013 7:35:00PM	Aqueous	Hexavalent Chromium, Dissolved			04/17/2013
1304G10-002A	MW-17D	4/16/2013 8:10:00PM	Aqueous	Dissolved Metals by ICP/MS		04/22/2013	04/22/2013
1304G10-002B	MW-17D	4/16/2013 8:10:00PM	Aqueous	Hexavalent Chromium, Dissolved			04/17/2013
1304G10-003A	MW-7D	4/17/2013 9:44:00AM	Aqueous	Dissolved Metals by ICP/MS		04/22/2013	04/22/2013
1304G10-003B	MW-7D	4/17/2013 9:44:00AM	Aqueous	Hexavalent Chromium, Dissolved			04/17/2013
1304G10-004A	MW-6	4/17/2013 11:43:00AM	Aqueous	Dissolved Metals by ICP/MS		04/22/2013	04/22/2013
1304G10-004B	MW-6	4/17/2013 11:43:00AM	Aqueous	Hexavalent Chromium, Dissolved			04/17/2013
1304G10-005B	EQR	4/17/2013 11:52:00AM	Aqueous	Dissolved Metals by ICP/MS		04/22/2013	04/22/2013
1304G10-005B	EQR	4/17/2013 11:52:00AM	Aqueous	Hexavalent Chromium, Dissolved			04/17/2013
1304G10-006A	MW-17D (DUP)	4/16/2013 8:10:00PM	Aqueous	Dissolved Metals by ICP/MS		04/22/2013	04/22/2013
1304G10-006B	MW-17D (DUP)	4/16/2013 8:10:00PM	Aqueous	Hexavalent Chromium, Dissolved			04/17/2013

Client: Bradburne, Briller & Johnson, LLC
Project Name: Colquitt Ga
Workorder: 1304G10

ANALYTICAL QC SUMMARY REPORT

BatchID: 175079

Sample ID: MB-175079	Client ID:					Units: ug/L	Prep Date: 04/22/2013	Run No: 242573			
SampleType: MBLK	TestCode: Dissolved Metals by ICP/MS SW6020A					BatchID: 175079	Analysis Date: 04/22/2013	Seq No: 5078967			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chromium	BRL	5.00	0	0	0	0	0	0	0	0	
----------	-----	------	---	---	---	---	---	---	---	---	--

Sample ID: LCS-175079	Client ID:					Units: ug/L	Prep Date: 04/22/2013	Run No: 242573			
SampleType: LCS	TestCode: Dissolved Metals by ICP/MS SW6020A					BatchID: 175079	Analysis Date: 04/22/2013	Seq No: 5078965			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chromium	98.18	5.00	100.0	0	98.2	80	120	0	0	0	
----------	-------	------	-------	---	------	----	-----	---	---	---	--

Sample ID: 1304G10-001AMS	Client ID: MW-10	Units: ug/L	Prep Date: 04/22/2013	Run No: 242573							
SampleType: MS	TestCode: Dissolved Metals by ICP/MS SW6020A	BatchID: 175079	Analysis Date: 04/22/2013	Seq No: 5078973							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chromium	206.2	5.00	100.0	114.1	92.1	75	125	0	0	0	
----------	-------	------	-------	-------	------	----	-----	---	---	---	--

Sample ID: 1304G10-001AMSD	Client ID: MW-10	Units: ug/L	Prep Date: 04/22/2013	Run No: 242573							
SampleType: MSD	TestCode: Dissolved Metals by ICP/MS SW6020A	BatchID: 175079	Analysis Date: 04/23/2013	Seq No: 5079968							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chromium	212.4	5.00	100.0	114.1	98.3	75	125	206.2	2.96	20	
----------	-------	------	-------	-------	------	----	-----	-------	------	----	--

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Bradburne, Briller & Johnson, LLC
Project Name: Colquitt Ga
Workorder: 1304G10

ANALYTICAL QC SUMMARY REPORT

BatchID: R242668

Sample ID: MB-R242668	Client ID:					Units: mg/L	Prep Date:		Run No: 242668		
SampleType: MBLK	TestCode: Hexavalent Chromium, Dissolved	SW7196A				BatchID: R242668	Analysis Date: 04/17/2013		Seq No: 5081087		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	BRL	0.0100	0	0	0	0	0	0	0	0	

Sample ID: LCS-R242668	Client ID:					Units: mg/L	Prep Date:		Run No: 242668		
SampleType: LCS	TestCode: Hexavalent Chromium, Dissolved	SW7196A				BatchID: R242668	Analysis Date: 04/17/2013		Seq No: 5081088		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.5134	0.0100	0.5000	0	103	90	110	0	0	0	

Sample ID: 1304G10-001BMS	Client ID: MW-10					Units: mg/L	Prep Date:		Run No: 242668		
SampleType: MS	TestCode: Hexavalent Chromium, Dissolved	SW7196A				BatchID: R242668	Analysis Date: 04/17/2013		Seq No: 5081095		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.6037	0.0100	0.5000	0.1256	95.6	85	115	0	0	0	

Sample ID: 1304G10-001BMSD	Client ID: MW-10					Units: mg/L	Prep Date:		Run No: 242668		
SampleType: MSD	TestCode: Hexavalent Chromium, Dissolved	SW7196A				BatchID: R242668	Analysis Date: 04/17/2013		Seq No: 5081097		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.6049	0.0100	0.5000	0.1256	95.9	85	115	0.6037	0.199	20	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

APPENDIX X

2014 BBJ GROUP GROUNDWATER MONITORING REPORT



May 28, 2014

Nancy J. Rich, Esq.
Katten Muchin Rosenman LLP
525 West Monroe Street
Chicago, Illinois 60661

Re: **Groundwater Monitoring Report – April 2014**
Birdsong Peanut Plant
608 E Main Street (Hwy 91)
Colquitt, GA
Project No. R1306875

Dear Ms. Rich:

BBJ Group, LLC (BBJ Group) is pleased to provide Katten Muchin Rosenman LLP (Katten) with this *Groundwater Monitoring Report – April 2014* (Report) for the Birdsong Peanut Plant located at 608 E Main Street (Hwy 91) in Colquitt, Georgia. This Report, which was requested via email correspondence received by Mr. Paul Owens of BBJ Group on March 14, 2014, addresses groundwater sampling activities conducted by BBJ Group in April 2014.

We appreciate the opportunity to provide Katten with our environmental consulting services. If you have any questions or require additional information, please call.

Sincerely,

BBJ GROUP

A handwritten signature in blue ink, appearing to read "Tracy A. Dionne".

Tracy A. Dionne
Project Geologist

A handwritten signature in blue ink, appearing to read "Tim Bradburne".

Tim Bradburne, P.G. (License No. 698)
Georgia Professional Geologist





May 28, 2014

Jason Metzger, Unit Manager
Georgia Environmental Protection Division
Response & Remediation Program
4244 International Parkway, Suite 104
Atlanta, GA 30354

Re: **Groundwater Monitoring Report – April 2014**
Birdsong Peanut Plant
608 E Main Street (Hwy 91)
Colquitt, GA
Project No. R1306875
HSI Site No. 10710

Dear Mr. Metzger:

BBJ Group, LLC (BBJ Group) is pleased to provide the Georgia Environmental Protection Division (EPD) with this *Groundwater Monitoring Report – April 2014* (Report) for the Birdsong Peanut Plant located at 608 E Main Street (Hwy 91) in Colquitt, Georgia. This Report is being submitted to satisfy the EPD's 2014 annual groundwater sampling requirement.

If you have any questions or require additional information, please call Ms. Tracy Dionne of BBJ Group at (978) 834-0798.

Sincerely,

BBJ GROUP

A handwritten signature in blue ink, appearing to read "Tracy Dionne".

Tracy A. Dionne
Project Geologist

A handwritten signature in black ink, appearing to read "Tim Bradburne".

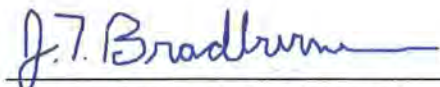
Tim Bradburne, P.G. (License No. 698)
Georgia Professional Geologist



cc: Nancy J. Rich, Esq., Katten Muchin Rosenman LLP

PROFESSIONAL CERTIFICATION

I certify that I am a qualified groundwater scientist who has received a baccalaureate or post-graduate degree in the natural sciences or engineering, and have sufficient training and experience in groundwater hydrology and related fields, as demonstrated by state registration or completion of accredited university courses, that enable me to make sound professional judgments regarding groundwater monitoring and contaminant transport. I further certify that this report was prepared by myself or a subordinate working under my direction.



Tim Bradburne, P.G. / Principal
Georgia Professional Geologist (License No. 698)



GROUNDWATER MONITORING REPORT – APRIL 2014

Birdsong Peanut Plant (HSI Site No. 01710)
608 E Main Street (Hwy 91)
Colquitt, Georgia

Submitted to:

KATTEN MUCHIN ROSENMAN LLP
Chicago, Illinois

Prepared by:

BBJ GROUP, LLC
Amesbury, Massachusetts

May 28, 2014

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TABLES

Table 1	Monitoring Well and Groundwater Elevation Data – March 31, 2014
Table 2	Summary of Groundwater Laboratory Analytical Results – April 1, 2014

FIGURES

Figure 1	Site Location Map
Figure 2	Generalized Site Plan
Figure 3	Groundwater Potentiometric Surface Map (March 31, 2014)
Figure 4	Site Plan Showing Groundwater Laboratory Analytical Results (April 1, 2014)

APPENDICES

Appendix A	Site Plan Showing Hydraulic Gradient Calculations
Appendix B	Copy of Groundwater Sampling Logs
Appendix C	Copy of Laboratory Analytical Report including Chain-of-Custody Form

1.0 BACKGROUND

The Birdsong Peanut Plant is located at 608 E Main Street (Hwy 91) in Colquitt, Georgia (Subject Property); refer to Figure 1 for a site location map. The Subject Property is currently listed on the Georgia Environmental Protection Division (EPD) Hazardous Site Inventory (HSI) as HSI Site No. 10710 due to historical concentrations of perchloroethylene (PCE) in groundwater. The PCE was remediated under the Hazardous Site Response Act Program.

This Report was prepared for groundwater sampling activities conducted by BBJ Group, LLC (BBJ Group) at the Subject Property on March 31 and April 1, 2014 to satisfy the EPD's annual sampling/reporting requirement¹.

2.0 FIELD ACTIVITIES

2.1 Groundwater Sampling

Field Preparation

Prior to beginning field work, BBJ Group modified the existing site-specific Health and Safety Plan (HSP) per Code of Federal Regulations Part 1910 to address known and anticipated hazards associated with the scope of work. The HSP was prepared for use only by BBJ Group employees and was not intended for reliance by subcontractors or any other party.

Groundwater Monitoring

BBJ Group conducted the following groundwater monitoring activities at the Subject Property on March 31 and April 1, 2014²:

- Ten (10) monitoring wells MW-4, MW-5, MW-6, MW-7D, MW-8, MW-9, MW-10, MW-13, MW-15 and MW-17D were gauged (on March 31, 2014) using an electronic interface probe in order to measure the static groundwater levels to aid in determining the direction of groundwater flow beneath the Subject Property. Figure 2 presents a site location map with monitoring well locations;
- Four (4) of the five (5) monitoring wells selected for sampling during this event (i.e., MW-4, MW-6, MW-7D, MW-10, MW-17D and MW-11³) were purged using a low-flow pump until turbidity, pH, dissolved oxygen (DO), temperature, specific conductance (SC) and turbidity have stabilized (3-5 minutes between readings, using a YSI 556 multi-parameter water meter and LaMotte 2020 turbidity meter) as follows:

¹ Requirement pursuant to the EPD-approved Corrective Action Plan (CAP) (dated September 2009 and prepared by Conestoga-Rovers & Associates of Duluth, Georgia) and as required in a January 31, 2011 GA EPD letter to Birdsong Peanut.

² Groundwater sampling was conducted in accordance with the United States Environmental Protection Agency (USEPA) Science and Ecosystem Support Division (SEWSD) Operating Procedure SEWPROC-301-R3 dated March 6, 2013.

³ Monitoring wells MW-11, MW-12, MW-14 and MW-16 could not be located during this sampling event. MW-11 was not located by the previous consultants during the March 13, 2012 sampling event.

- Turbidity (less than 10 NTU);
 - DO (+ or – 0.2 milligrams per liter);
 - SC (+ or - 5%); and
 - pH + or – 0.1 units.
-
- Groundwater samples were collected from monitoring wells MW-6, MW-7D, MW-10 and MW-17D, placed in pre-cleaned containers provided by Analytical Environmental Services, Inc. (AES) of Atlanta, Georgia and shipped to the laboratory for chemical analysis of total chromium using USEPA Method 6010C and speciated chromium using USEPA Method 7196A;
 - One equipment rinsate sample and one field duplicate sample (from monitoring well MW-17D) were collected and analyzed (by AES) for total chromium using USEPA Method 6010C and speciated chromium using USEPA Method 7196A.
 - Drummed liquid (i.e., purge water) was stored on-site in two Department of Transportation (DOT)-approved 55-gallon drums, prior to transport and disposal off-site by SWS Environmental Services of Panama City Beach, Florida on April 23, 2014.

Please refer to Appendix B for a copy of groundwater sampling logs generated during the April 1, 2014 sampling event.

2.2 Monitoring Well Inspection and Repairs

Based on observations conducted during the April 2013 and April 2014 annual groundwater monitoring events and well inspections, several wells were in need of repair, Well repairs were conducted on March 20, 2014:

- MW-4 – flush-mounted cover assembly replaced and asphalt patch completed around well;
- MW-10 –polyvinyl chloride (PVC) well casing observed as broken and uneven at ground surface. PVC casing was cut evenly; concrete observed in surrounding well casing needs to be removed and the flush-mounted well cover assembly needs to be replaced;
- MW-7D – replaced one bolt on flush mounted well cover, observed stripped bolt holes in inner well cover ring assembly; needs a new flush-mounted well cover assembly;
- MW-17D – replaced bolt in flush-mounted well cover; needs new well plug;
- MW-8, MW-9 and MW-15 – missing bolts were replaced on flush-mounted well covers; well plugs need to be replaced in MW-8 and MW-15; and
- MW-13 – replaced bolts on flush-mounted well cover; broken inner rim of well cover assembly observed; needs replacement.

Additional repairs to be conducted on April 23, 2014, based on inspection during repairs noted above and include:

- MW-10 – concrete removed with jackhammer; replaced flush-mounted well cover assembly;
- MW-8 and MW-15 – replaced well plugs
- MW-6, MW-7D and MW-13 – replaced flush-mounted well cover assemblies; and
- MW-17D – replaced flush-mounted well cover assembly and well plug.

BBJ Group attempted to locate monitoring wells MW-11, MW-12, MW-14 and MW-16 using a Schonstedt Valve Box Locator (i.e. metal detector) and metal trowel tool; however, none of the wells were located. These wells are located in grass-covered landscaped areas.

3.0 RESULTS

Results of groundwater monitoring activities conducted on March 31 and April 1, 2014 at the Subject Property indicated the following:

3.1 Groundwater Flow Interpretation

Based on the results of a groundwater modeling program (i.e., SURFER 10) using the March 31, 2014 groundwater gauging data, the interpreted groundwater flow direction beneath the Subject Property is to the south, which is relatively consistent with historical groundwater flow (refer to Table 1 for groundwater elevation data and Figure 3 for a groundwater potentiometric surface map). The hydraulic gradient was calculated to be 0.022 feet/foot (Refer to Appendix A for a site plan showing the hydraulic gradient calculations).

3.2 Total and Speciated Chromium Results in Groundwater

Monitoring wells incorporating a "D" in its identification, such as MW-7D are screened in the deeper water bearing unit. The deeper water bearing unit is defined as screened depths greater than 65 feet belowground surface (bgs). Monitoring wells without this designation are screened in the shallow water bearing unit above 65 feet bgs.

- Total chromium was detected at a concentration above Type 1 Risk Reduction Standards (RRS) in the groundwater sample collected from monitoring well MW-10. This well is located within the former chemical injection area that remediated PCE;
- Total hexavalent chromium was detected at a concentration above Type 1 and 4 RRS in groundwater samples collected within and just downgradient of the former chemical injection area (i.e., monitoring wells MW-10 and MW-6, respectively);
- Chromium as total, trivalent and hexavalent was not detected above Type 1 or 4 RRS in the groundwater samples collected from monitoring well MW-17D; and
- Total trivalent chromium was detected at a concentration above Type 1 RRS, but below the Type 4 RRS in the groundwater sample collected from MW-7D and MW-6.

Refer to Table 2 for a summary of the groundwater laboratory analytical results from April 1, 2014. Figure 4 presents a site plan showing the April 1, 2014 groundwater laboratory analytical results. A copy of the groundwater laboratory analytical report (including the chain-of-custody form) is located in Appendix C.

4.0 CONCLUSIONS

Based upon the information contained herein, the following conclusions are offered for the Subject Property:

- Total and hexavalent chromium within the former PCE source area have slightly increased over the last two groundwater monitoring events. The levels are marginally above Type 1 and/or Type 4 RRS. Trivalent chromium, however, has decreased and concentrations remain below the Type 4 RRS
- Total trivalent chromium is decreasing within the former PCE source area;
- Total, trivalent and hexavalent chromium in the deeper water bearing unit remain below laboratory reporting limits (RLs) and Type 1 and Type 4 RRS, with the exception of trivalent chromium in MW-7D, which was marginally above Type 1 RRS;
- Hexavalent chromium in monitoring well MW-6 is decreasing and is at a historically low concentration; and
- Because (1) total chromium in MW-6 and MW-7D show a decreasing trend, (2) hexavalent chromium has not been detected above laboratory RLs in MW-7D since October 2011; and (3) total chromium and hexavalent chromium concentrations in all sampled wells exhibits either a decreasing trend or a stable state, BBJ Group considers the chromium plume to not be expanding. On the contrary, it appears to be limited to the former chemical injection area and to be stable.

5.0 RECOMMENDATIONS

BBJ Group will take other steps to locate monitoring well MW-11 so it may be included in the annual groundwater sampling plan and to locate MW-12, MW-14 and MW-16 so that they may be properly abandoned.

TABLES

Table 1: Monitoring Well and Groundwater Elevation Data – March 31, 2014 ^{1, 2}
(Page 1 of 2)

Monitoring Well Identification	Date Installed ⁴	Well Construction Materials ⁴	Depth to Bottom of Well (feet btoc) ³	Screened Interval (feet bgs) ⁴	Top of Casing Elevation (feet)	Depth to Ground Water (feet btoc) ³	Groundwater Elevation (feet)	Comments
MW-4	08/28/00	SCH 40 PVC	15.81	7.5-17.5	92.70	0.46	92.24	Repaired Well Cap Assembly
MW-5	08/29/00	SCH 40 PVC	13.08	40-45	95.57	3.15	92.42	Replaced Bolts
MW-6	08/30/00	SCH 40 PVC	54.63	50-55	94.26	10.44	83.82	Repaired Well Cap Assembly
MW-7D	07/26/01	SCH 40 PVC	79.81	74.5-79.5	93.75	10.00	83.75	Replaced Bolts
MW-8	07/26/01	SCH 40 PVC	49.22	43-48	93.57	10.04	83.53	Replaced Bolts and Well Plug
MW-9	07/26/01	SCH 40 PVC	27.55	17.5-27.5	92.85	5.07	87.78	Good Condition
MW-10	09/04/02	SCH 40 PVC	NM	19-29	U	NM	NC	PVC Casing Cut and Repaired Needs New Cover Assembly
MW-11	08/12/03	SCH 40 PVC	NM	20-30	94.44	NM	NC	Could Not Locate
MW-12	04/24/03	SCH 40 PVC	NM	U	95.46	NM	NC	Could Not Locate
MW-13	08/11/05	SCH 40 PVC	18.92	8-18	93.76	8.85	84.91	Repaired Well Cap Assembly
MW-14	08/11/05	SCH 40 PVC	NM	8-13	96.72	NM	NC	Could Not Locate
MW-15	08/11/05	SCH 40 PVC	19.29	10-20	93.30	5.79	87.51	Replaced Bolts and Well Plug
MW-16	08/11/05	SCH 40 PVC	NM	10-20	96.34	NM	NC	Could Not Locate
MW-17D	08/12/05	SCH 40 PVC	75.03	65-75	93.40	9.65	83.75	Replaced Well Plug

Table 1: Monitoring Well and Groundwater Elevation Data – March 31, 2014 ^{1, 2}
(Page 2 of 2)

Notes:

- ¹: Well elevation survey data from Table 2 of *Status Update – Pilot Injection and Performance Monitoring; and Annual Groundwater Monitoring and Reporting* document prepared by Conestoga-Rovers & Associates, Inc. (dated June 27, 2012).
- ²: Monitoring wells MW-4, MW-5, MW-6, MW-7D, MW-8, MW-9, MW-1, MW-15, MW-16 and MW-17D consist of 2-inch diameter PVC and were installed with locking caps and flush-mount steel covers. Monitoring wells MW-10 and MW-11 consist of 1-inch diameter PVC and were installed with locking caps and flush-mount steel covers.
- ³: Depths to groundwater and bottom of well were recorded by BBJ Group on March 31, 2014 using a Solinst interface probe, Model No. 122.
- ⁴: Date of installation, screened interval and material of construction data from the *HSRA Compliance Status Report* prepared by Conestoga-Rovers & Associates, Inc. (September 2005).

Acronym Definitions:

btoc:	below top of casing
MW:	monitoring well
SCH:	schedule
PVC:	polyvinyl chloride
BBJ Group:	BBJ Group, LLC
NC:	not calculated
NM:	not measured
U:	Unknown, not identified in available documentation
HSRA:	Hazardous Site Response Act

Prepared By/Date: TAD / 04.23.14

Checked By/Date: JTB / 04.23.14

Table 2: Summary of Historical Groundwater Laboratory Analytical Results – March 2009 – April 2014
(Page 1 of 2)

Parameters	Date	Sample Identification (results in mg/L unless otherwise noted) ¹						GA EPD HSRA ² RRS Type 1 / RRS Type 4 mg/L
		MW-5	MW-6	MW-7D	MW-10	MW-11 ³	MW-17D	
Chromium (total)	06/27/07	NS	0.701	NS	NS	NS	NS	0.1 / No Type 4 RRS
	03/05/09	0.0057 J	0.298/0.294 D	NS	0.0760	0.279	NS	
	03/24/10	0.0267	0.172/0.172 D	NS	0.0866	0.266	NS	
	03/29/11	0.005 U/D	0.217	NS	0.113	0.163	NS	
	10/05/11	0.005 U	0.191/0.193 D	0.00658	0.118	0.199	0.005 U	
	11/29/11	NS	0.199	0.005 U	0.099	0.211	0.005 U	
	12/29/11	NS	0.11/0.111 D	0.005 U	0.0884	0.204	0.005 U	
	03/13/12	0.005 U	0.189/0.192 D	NS	0.0928	0.207	NS	
	04/16-17/13	NS	NS	NS	NS	NS	NS	
	04/01/14	NS	0.0472	0.0939	0.101	NS	0.0100 U/*D	
Chromium III (+3) (total)	06/27/07	NS	NS	NS	NS	NS	NS	0.01 / 153
	03/05/09	NS	NS	NS	NS	NS	NS	
	03/24/10	0.0100 U	0.0100 U/D	NS	0.0262	0.0100 U	NS	
	03/29/11	0.0100 U/D	0.248	NS	0.0218	0.0105	NS	
	10/05/11	NS	0.0100 U/D	0.0100 U	0.0162	0.0100 U	0.0100 U	
	11/29/11	NS	0.0100 U	0.0100 U	0.0100 U	0.0433	0.0100 U	
	12/29/11	NS	0.0100 U	0.0100 U	0.0184	0.0100 U	0.0100 U	
	03/13/12	0.0100 U	0.0100 U/D	NS	0.0128	0.0433	NS	
	04/16-17/13	NS	NS	NS	NS	NS	NS	
	04/01/14	NS	0.0113	0.0939	0.0100 U	NS	0.0100 U/*D	
Chromium VI (+6) (total)	06/27/07	NS	NS	NS	NS	NS	NS	0.01 / 0.01
	03/05/09	NS	NS	NS	NS	NS	NS	
	03/24/10	0.246	0.170/0.174	NS	0.605	0.265	NS	
	03/29/11	0.0100 U/D	0.192	NS	0.0909	0.152	NS	
	10/05/11	NS	0.193/0.199 D	0.0100 U	0.102	0.215	0.0100 U	
	11/29/11	NS	0.125	0.0100 U	0.0943	0.168	0.0100 U	
	12/29/11	NS	0.110/0.113 D	0.0100 U	0.0700	0.240	0.0100 U	
	03/13/12	0.0100 U	0.193/0.202 D	NS	0.0800	0.163 J	NS	
	04/16-17/13	NS	NS	NS	NS	NS	NS	
	04/01/14	NS	0.0359	0.0100 U	0.104	NS	0.0100 U/*D	

Table 2: Summary of Historical Groundwater Laboratory Analytical Results – March 2009 – April 2014
(Page 2 of 2)

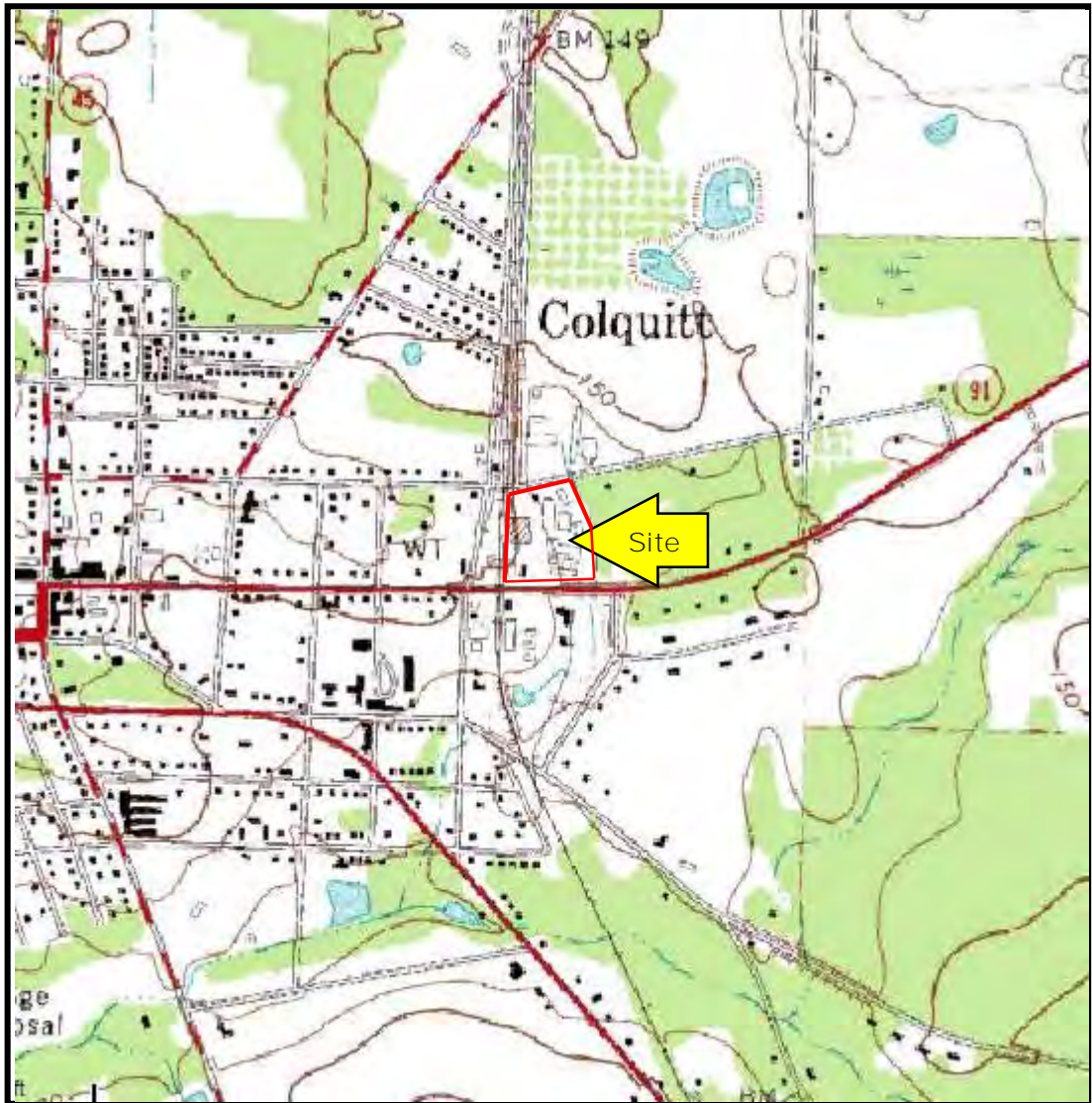
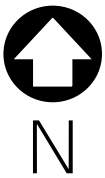
Notes:

- ¹: Groundwater samples were collected as follows:
- Groundwater samples were collected by Conestoga-Rovers Associates, Inc. from June 2007 through March 2012;
 - Groundwater samples were collected by BBJ Group on April 16-17, 2013 and submitted to Analytical Environmental Services, Inc. (AES) of Atlanta, Georgia for chemical analysis of total and dissolved chromium using USEPA Method 6020A and speciated chromium using USEPA Method 7196. Water quality parameter measurements (i.e., pH, temperature, DO, conductivity, and ORP) were obtained using a YSI 556 water quality meter; turbidity measurements were obtained using a LaMotte 2020 turbidity meter; and
 - Groundwater samples were collected by BBJ Group on April 1, 2014 and submitted to AES of Atlanta, Georgia for chemical analysis of total chromium using USEPA Method 6010 and total speciated chromium using USEPA Method 7196.
- ²: GA EPD HSRA Type 1 and 4 RRS obtained from the GDNR Chapter 391-3-19-.07 Risk Reduction Standards (Appendix III Media Target Concentrations and Standard Exposure Assumptions). Type I RRS shall pose no significant risk on the basis of standardized exposure assumptions and defined risk level for residential properties. Type 4 RRS shall pose no significant risk on the basis of site-specific risk assessment for non-residential properties.
- ³: Monitoring well MW-11 could not be located during the March 13, 2012, April 16-17, 2013 or March 31-April 1, 2014 groundwater monitoring events.

Acronym Definitions:

0.0472:	Value exceeds the laboratory RL, but is below Type 1 and Type 4 RRS.		
0.246:	Value exceeds the Type 1 and/or Type 4 RRS.		
U:	not detected at concentrations exceeding the laboratory RLs	J:	estimated concentration
BBJ Group:	BBJ Group, LLC	GDNR:	Georgia Department of Natural Resources
HSRA:	Hazardous Site Response Act	D:	duplicate sample
USEPA:	United States Environmental Protection Agency	*:	same value
MW:	Monitoring Well	RRS:	Risk Reduction Standards
RL:	Reporting Limit (RL)	NS:	not sampled
DO:	Dissolved Oxygen	GA EPD:	Georgia Environmental Protection Division
ORP:	Oxidation-Reduction Potential (millivolts)		
mg/L:	milligrams per Liter		

FIGURES




Georgia

Quadrangle Location



LEGEND

 Approximate Subject Property Boundary

Prepared by/Date: TAD / 04.21.14
Checked by/Date: JTB / 04.23.14

Birdsong Peanut Plant
608 E Main Street (Hwy 91)
Colquitt, Georgia



Site Location Map

Project No. R1306875

Figure 1



N. 4th Street

Not Located

Railroad Tracks

MW-14
(not located)

Chemical Storage Building

Offices

Offices

Driveway

East Main Street (Highway 91)



LEGEND

- MW-6 - shallow monitoring well identification/location
- MW-7D - deep monitoring well identification/location
- grassy area

Note: Monitoring wells MW-11, MW-12 and MW-16 were unable to be located using a metal detector.

Prepared by/Date: TAD / 04.21.14
Checked by/Date: JTB / 04.23.14

Birdsong Peanut Plant
608 E Main Street (Hwy 91)
Colquitt, Georgia

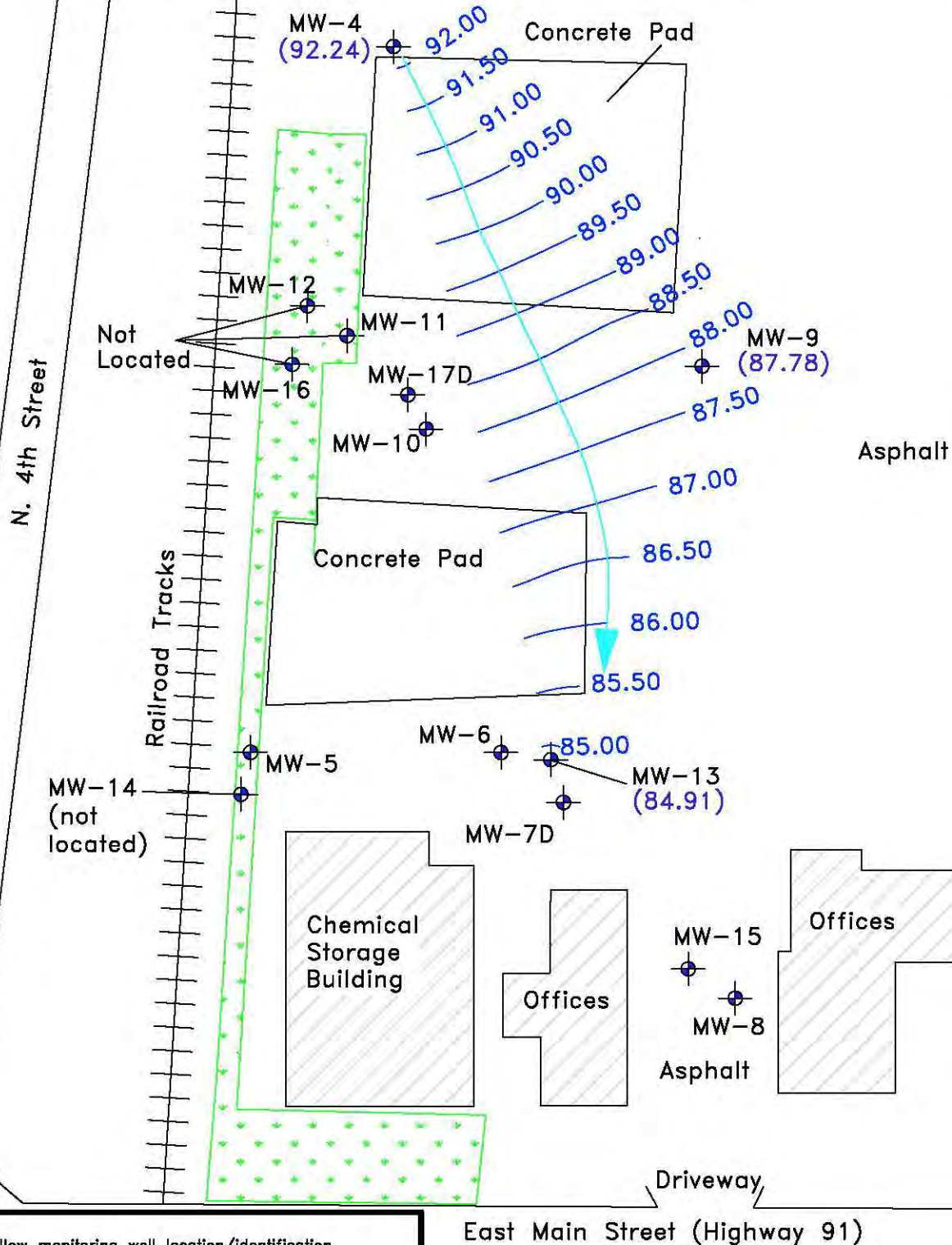


Generalized Site Plan

Project No. R1306875

Figure 2

Sources: 1. Groundwater assessment activities conducted by Ms. Tracy Dionne of BBJ Group, LLC on March 31, 2014.
2. Potentiometric surface map created using Surfer Version 10 groundwater modeling software.



LEGEND

- MW-8 - shallow monitoring well location/identification
- MW-7D - deep monitoring well location/identification
- interpreted groundwater contour
- interpreted direction of groundwater flow
- (87.78) - groundwater elevation
- 84.00 - interpreted groundwater elevation
- grassy area

Note: Data from gauged shallow wells MW-4, MW-9, and MW-13 were used to create map. MW-15 had an anomalously high elevation measurement due to a poor well plug seal which was suspected to have allowed surface water to enter well.

East Main Street (Highway 91)



Prepared by/Date: TAD / 04.21.14
Checked by/Date: JTB / 04.23.14

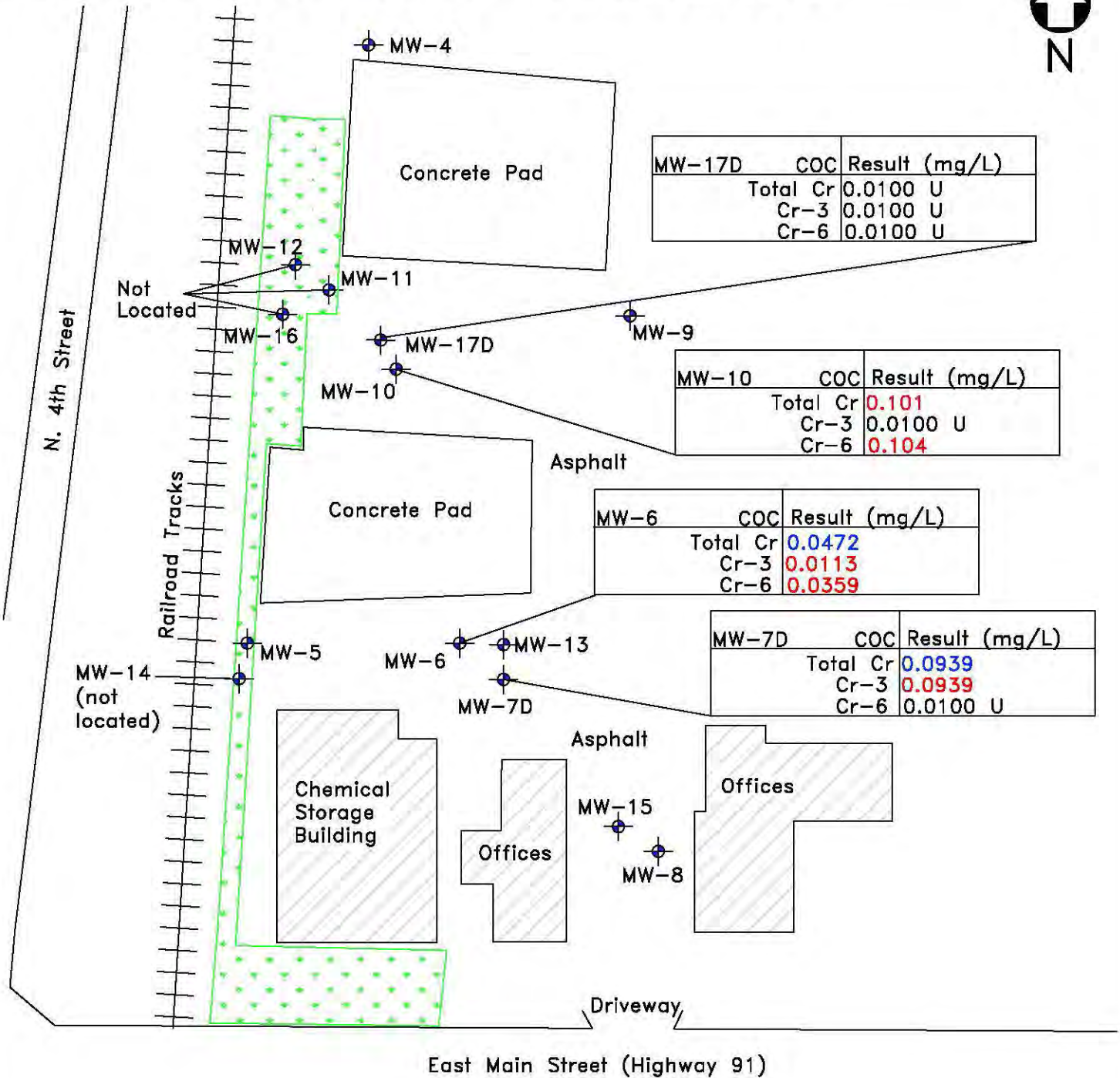
Birdsong Peanut Plant
608 E Main Street (Hwy 91)
Colquitt, Georgia



Generalized Site Plan
Showing Potentiometric Surface Map
Shallow Water Bearing Unit
(March 31, 2014)

Project No. R1306875

Figure 3



LEGEND	
MW-6	shallow monitoring well identification/location
MW-7D	deep monitoring well identification/location
COC	constituent of concern
U	COC not detected at concentration exceeding laboratory MDL
0.0472	COC detected exceeding laboratory MDL, but not exceeding RRS
0.0939	COC detected at concentration exceeding GAEPD Type 1 RRS, Appendix III, Table 1
MDL	method detection limit (laboratory)
mg/L	milligrams per Liter
Cr-3	total trivalent chromium
Cr-6	total hexavalent chromium
RRS	Risk Reduction Standard
Grassy Area	grassy area



Prepared by/Date: TAD / 04.21.14
Checked by/Date: JTB / 04.23.14

Birdsong Peanut Plant
608 E Main Street (Hwy 91)
Colquitt, Georgia



Generalized Site Plan Showing
Groundwater Laboratory Results
(April 1, 2014)

Project No. R1306875

Figure 4

APPENDIX A

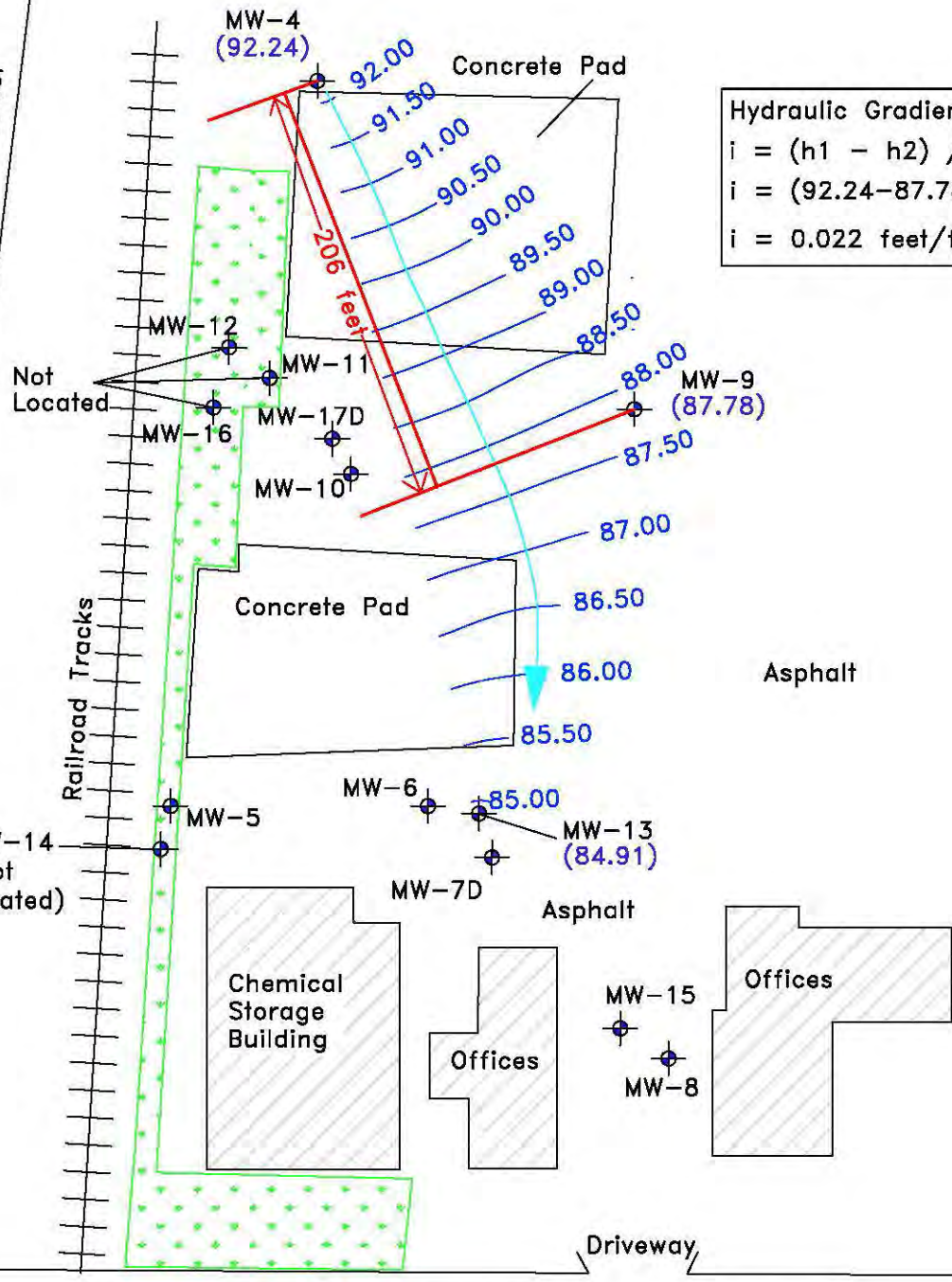
SITE PLAN SHOWING HYDRAULIC GRADIENT CALCULATIONS

Source: 1. Groundwater assessment activities conducted by Ms. Tracy Dionne of BBJ Group, LLC on March 31, 2014.
 2. Potentiometric surface map created using Surfer Version 10 groundwater modeling software.



N. 4th Street

Railroad Tracks



Hydraulic Gradient Calculation
 $i = (h_1 - h_2) / D$
 $i = (92.24 - 87.78) / 206$
 $i = 0.022 \text{ feet/foot}$

LEGEND
 MW-8 - shallow monitoring well location/identification
 MW-7D - deep monitoring well location/identification
 - interpreted groundwater contour
 - interpreted direction of groundwater flow
 (87.78) - groundwater elevation
 84.00 - interpreted groundwater elevation
 - grassy area
 Note: Data from gauged shallow wells MW-4, MW-9, and MW-13 were used to create map. MW-11, MW-12 and MW-16 were unable to be located using a metal detector.



Prepared by/Date: TAD / 04.21.14
 Checked by/Date: JTB / 04.23.14

Birdsong Peanut Plant
 608 E Main Street (Hwy 91)
 Colquitt, Georgia



Generalized Site Plan Showing
 Potentiometric Surface Map
 Shallow Water-Bearing Unit
 (March 31, 2014)
 Project No. R1306875 Appendix A

APPENDIX B

COPY OF GROUNDWATER SAMPLING LOGS

KMR

Screen @
9/29/11

PURGING DATA

Well Diameter (in): 1	Static Depth to Water (Ft): 3.52	Purge Pump Type of Bailer: PP.
-----------------------	----------------------------------	--------------------------------

Well Volume Purge: 1 well volume = (Total Well Depth – Static Depth to Water) x Well Capacity

$$(29.54 \text{ feet} - 3.52 \text{ feet}) \times .04 \text{ gallons/foot} = 1.04 \text{ gallons}$$

Initial Pump or Tubing Depth: 22'	Final Pump or Tubing Depth: 22'	Purging Initiated At: 7:55	Purging Ended At: 9:29	Total Volume Purged: 3.75
--------------------------------------	------------------------------------	-------------------------------	---------------------------	------------------------------

[illegible]

Well Capacity (Gallons per foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

SAMPLING DATA

Sampled By (Print)/ Affiliation: Troy Dwyer (BB)	Sample(s) Signatures: Dwyer	Sampling Initiated At: 9:37	Sampling Ended At: 9:46
---	--------------------------------	-----------------------------	-------------------------

Pump or Tubing Depth in Well (ft):	22	Tubing Material Code:	PE
------------------------------------	----	-----------------------	----

Field Decontamination: Yes or No	Dedicated Tubing: Yes or No	Duplicate: Yes or No
---	------------------------------------	-----------------------------

[illegible]

Material Codes: AG – Amber Glass; CL – Clear Glass; PE – Polyethylene; PP – Polypropylene; S – Silicone; T – Teflon; O – Other (specify)

Sampling/ Purging Equipment Codes: APP – After Peristaltic Pump; B – Bailer; BP – Bladder Pump; ESP – Electric Submersible Pump; FP – Peristaltic Pump; RFPF – Reverse Flow Peristaltic Pump; SM – Straw Method (Tubing Gravity Drain); VT – Vacuum Trap; O-Other

Notes: Stabilization Criteria For Range of Variation of Last Three Consecutive Readings

pH: 4.1 - 0.1

Temperature:

Dissolved Oxygen:

Turbidity:

Conductivity:

<10 m/s

4/- 520

+/- 0.2

KMR

search
65-151

PURGING DATA

[illegible]

SAMPLING DATA

Sampled By (Print)/Affiliation: Troy Dierne / BB			Sampler(s) Signature: <i>[Signature]</i>			Sampling Initiated At: 8:12		Sampling Ended At: 8:16	
Pump of Tubing Depth in Well (Ft): 67				Tubing Material Code: PE					
Field Decontamination: Yes or No			Dedicated Tubing: Yes or No			Duplicate: Yes or No			
Sample Container Specification					Sample Preservation				
Sample ID	No. Containers	Material Code	Volume	Preservative	Total Vol. Added	Final pH	Intended Analysis and/or Method		Sampling Equipment Code
MW-170	1	PLAS	302	NONE	302	7.59	TOTAL CR		ESP
MW-170	1	PLAS	302	HNO3	302	7.59	CR 3 + CR6		ESP
Material Codes: AG – Amber Glass; CL – Clear Glass; PE – Polyethylene; PP – Polypropylene; S – Silicone; T – Teflon; O – Other (specify)									
Sampling/ Purgig Equipment Codes:		APP – After Peristaltic Pump; B – Bailer; BP – Bladder Pump; ESP – Electric Submersible Pump; PP – Peristaltic Pump; RFP – Reverse Flow Peristaltic Pump; SM – Straw Method (Tubing Gravity Drain); VT – Vacuum Trap; O-Other							

Notes: Stabilization Criteria For Range of Variation of Last Three Consecutive Readings

pH: 5.1

Temperature:

Dissolved Oxygen:

Turbidity:

Conductivity:

$$\frac{+1-}{0.2}$$

< 10 nm

+/- 5%

APPENDIX C

COPY OF LABORATORY ANALYTICAL REPORT INCLUDING CHAIN-OF-CUSTODY FORM



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

April 09, 2014

Tracy A. Dionne
Bradburne, Briller & Johnson, LLC
5 Market Square
Amesbury MA 01913

TEL: (978) 821-8811
FAX: (978) 834-0378

RE: Birdsong

Dear Tracy A. Dionne:

Order No: 1404121

Analytical Environmental Services, Inc. received 6 samples on 4/2/2014 7:30:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/13-06/30/14.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Nicole Jessup
Project Manager



TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

Work Order:

14 0412 1

Date: 4.1.14 Page 1 of 1

COMPANY: BBJ Group		ADDRESS: 5 Market Square Suite 205 Amesbury, MA 01913		ANALYSIS REQUESTED		Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		No # of Containers	
PHONE: 918.834.0798		FAX: 918.834.0798		Total Cr 6 Spec Cr 3 - 712 Spec Cr 6 - 712					
SAMPLED BY: Tracy Dionne		SIGNATURE: [Signature]		PRESERVATION (See codes)		REMARKS			
#	SAMPLE ID	DATE	TIME	Grab	Composite	Matrix (See codes)			
1	MW-10	4.1.14	9:37	X		GW	X	X	
2	MW-17 D		8:12						
3	MW-17 D - Dup		8:12						
4	MW-6		13:10						
5	MW-7 D		11:41						
6	EQR		13:25						
7									
8									
9									
10									
11									
12									
13									
14									
RELINQUISHED BY: [Signature] 4.1.14		DATE/TIME		RECEIVED BY: FedEx		DATE/TIME		PROJECT INFORMATION	
1: [Signature]		4.1.14		2: Track No. 8042 4305 2827		4/2/14 7:30		PROJECT NAME: Birdsong	
3: [Signature]				3: [Signature]				PROJECT #: R1306875	
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD		OUT / / VIA:		IN / / VIA:		SITE ADDRESS: Colquitt, GA	
		CLIENT FedEx UPS MAIL COURIER		GREYHOUND OTHER		SEND REPORT TO: Tracy Dionne		INVOICE TO: (IF DIFFERENT FROM ABOVE) BBJ Group	
								500 N. Dearborn St. Suite 712 Chicago IL 60654	
								QUOTE #:	
								PO#:	
								RECEIPT	
								Total # of Containers	
								Turnaround Time Request	
								Standard 5 Business Days	
								2 Business Day Rush	
								Next Business Day Rush	
								Same Day Rush (auth req.)	
								Other	
								STATE PROGRAM (if any):	
								E-mail? Y/N; Fax? Y/N	
								DATA PACKAGE: I II III IV	

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water

PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Client: Bradburne, Briller & Johnson, LLC
Project: Birdsong
Lab ID: 1404121

Case Narrative

Hexavalent Chromium Analysis by Method 7196A:

Please note the Hexavalent Chromium value is reported as greater than Total Chromium value for sample 1404121-001. The values are within the expected reproducibility limits for the test methods used and the results are suspected to be due to differences between the sample aliquots used for analysis. The data indicates that all Chromium present is in the Hexavalent oxidation state.

Analytical Environmental Services, Inc**Date:** 9-Apr-14

Client: Bradburne, Briller & Johnson, LLC
Project Name: Birdsong
Lab ID: 1404121-001

Client Sample ID: MW-10
Collection Date: 4/1/2014 9:37:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Hexavalent Chromium in Water SW7196A								
Chromium as Cr+3	BRL	0.0100		mg/L	R265080	1	04/02/2014 08:10	EH
Chromium, Hexavalent	0.104	0.0100		mg/L	R265080	1	04/02/2014 08:10	EH
METALS, TOTAL SW6010C (SW3010A)								
Chromium	0.101	0.0100		mg/L	189235	1	04/07/2014 14:59	JL

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc**Date:** 9-Apr-14

Client: Bradburne, Briller & Johnson, LLC
Project Name: Birdsong
Lab ID: 1404121-002

Client Sample ID: MW-17D
Collection Date: 4/1/2014 8:12:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Hexavalent Chromium in Water SW7196A								
Chromium as Cr+3	BRL	0.0100		mg/L	R265080	1	04/02/2014 08:10	EH
Chromium, Hexavalent	BRL	0.0100		mg/L	R265080	1	04/02/2014 08:10	EH
METALS, TOTAL SW6010C				(SW3010A)				
Chromium	BRL	0.0100		mg/L	189235	1	04/07/2014 15:35	JL

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc**Date:** 9-Apr-14

Client: Bradburne, Briller & Johnson, LLC
Project Name: Birdsong
Lab ID: 1404121-003

Client Sample ID: MW-17D- DUP
Collection Date: 4/1/2014 8:12:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Hexavalent Chromium in Water SW7196A								
Chromium as Cr+3	BRL	0.0100		mg/L	R265080	1	04/02/2014 08:10	EH
Chromium, Hexavalent	BRL	0.0100		mg/L	R265080	1	04/02/2014 08:10	EH
METALS, TOTAL SW6010C				(SW3010A)				
Chromium	BRL	0.0100		mg/L	189235	1	04/07/2014 15:39	JL

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc**Date:** 9-Apr-14

Client: Bradburne, Briller & Johnson, LLC
Project Name: Birdsong
Lab ID: 1404121-004

Client Sample ID: MW-6
Collection Date: 4/1/2014 1:10:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Hexavalent Chromium in Water SW7196A								
Chromium as Cr+3	0.0113	0.0100		mg/L	R265080	1	04/02/2014 08:10	EH
Chromium, Hexavalent	0.0359	0.0100		mg/L	R265080	1	04/02/2014 08:10	EH
METALS, TOTAL SW6010C				(SW3010A)				
Chromium	0.0472	0.0100		mg/L	189235	1	04/07/2014 15:42	JL

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc**Date:** 9-Apr-14

Client:	Bradburne, Briller & Johnson, LLC	Client Sample ID:	MW-7D
Project Name:	Birdsong	Collection Date:	4/1/2014 11:47:00 AM
Lab ID:	1404121-005	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Hexavalent Chromium in Water SW7196A								
Chromium as Cr+3	0.0939	0.0100		mg/L	R265080	1	04/02/2014 08:10	EH
Chromium, Hexavalent	BRL	0.0100		mg/L	R265080	1	04/02/2014 08:10	EH
METALS, TOTAL SW6010C				(SW3010A)				
Chromium	0.0939	0.0100		mg/L	189235	1	04/07/2014 15:46	JL

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 9-Apr-14

Client:	Bradburne, Briller & Johnson, LLC	Client Sample ID:	EQR
Project Name:	Birdsong	Collection Date:	4/1/2014 1:25:00 PM
Lab ID:	1404121-006	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Hexavalent Chromium in Water SW7196A								
Chromium as Cr+3	BRL	0.0100		mg/L	R265080	1	04/02/2014 08:10	EH
Chromium, Hexavalent	BRL	0.0100		mg/L	R265080	1	04/02/2014 08:10	EH
METALS, TOTAL SW6010C (SW3010A)								
Chromium	BRL	0.0100		mg/L	189235	1	04/07/2014 15:51	JL

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client BBJ Work Order Number 1404121

Checklist completed by AR Date 4/2/14
Signature Date

Carrier name: FedEx ☒ UPS ☐ Courier ☐ Client ☐ US Mail ☐ Other ☐

Shipping container/cooler in good condition? Yes ☒ No ☐ Not Present ☐

Custody seals intact on shipping container/cooler? Yes ☒ No ☐ Not Present ☐

Custody seals intact on sample bottles? Yes ☒ No ☐ Not Present ☐

Container/Temp Blank temperature in compliance? (4°C±2)* Yes ☒ No ☐

Cooler #1 3.1 Cooler #2 ☐ Cooler #3 ☐ Cooler #4 ☐ Cooler #5 ☐ Cooler #6 ☐

Chain of custody present? Yes ☒ No ☐

Chain of custody signed when relinquished and received? Yes ☒ No ☐

Chain of custody agrees with sample labels? Yes ☒ No ☐

Samples in proper container/bottle? Yes ☒ No ☐

Sample containers intact? Yes ☒ No ☐

Sufficient sample volume for indicated test? Yes ☒ No ☐

All samples received within holding time? Yes ☒ No ☐

Was TAT marked on the COC? Yes ☒ No ☐

Proceed with Standard TAT as per project history? Yes ☐ No ☐ Not Applicable ☒

Water - VOA vials have zero headspace? No VOA vials submitted ☒ Yes ☐ No ☐

Water - pH acceptable upon receipt? Yes ☒ No ☐ Not Applicable ☐

Adjusted? ☐ Checked by PT

Sample Condition: Good ☒ Other(Explain) ☐

(For diffusive samples or AIHA lead) Is a known blank included? Yes ☐ No ☒

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

\\Quality Assurance\\Checklists Procedures Sign-Off Templates\\Checklists\\Sample Receipt Checklists\\Sample_Cooler_Receipt_Checklist

Client: Bradburne, Briller & Johnson, LLC
Project Name: Birdsong
Workorder: 1404121

ANALYTICAL QC SUMMARY REPORT

BatchID: 189235

Sample ID: MB-189235	Client ID:					Units: mg/L	Prep Date: 04/04/2014	Run No: 265021			
SampleType: MBLK	TestCode: METALS, TOTAL	SW6010C				BatchID: 189235	Analysis Date: 04/07/2014	Seq No: 5580941			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chromium BRL 0.0100

Sample ID: LCS-189235	Client ID:					Units: mg/L	Prep Date: 04/04/2014	Run No: 265021			
SampleType: LCS	TestCode: METALS, TOTAL	SW6010C				BatchID: 189235	Analysis Date: 04/07/2014	Seq No: 5580940			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chromium 1.044 0.0100 1.000 104 80 120

Sample ID: 1404121-001AMS	Client ID: MW-10	Units: mg/L	Prep Date: 04/04/2014	Run No: 265021							
SampleType: MS	TestCode: METALS, TOTAL SW6010C	BatchID: 189235	Analysis Date: 04/07/2014	Seq No: 5580945							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chromium 1.073 0.0100 1.000 0.1007 97.2 75 125

Sample ID: 1404121-001AMSD	Client ID: MW-10	Units: mg/L	Prep Date: 04/04/2014	Run No: 265021							
SampleType: MSD	TestCode: METALS, TOTAL SW6010C	BatchID: 189235	Analysis Date: 04/07/2014	Seq No: 5580948							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chromium 1.055 0.0100 1.000 0.1007 95.4 75 125 1.073 1.70 20

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Bradburne, Briller & Johnson, LLC
Project Name: Birdsong
Workorder: 1404121

ANALYTICAL QC SUMMARY REPORT

BatchID: R265080

Sample ID: MB-R265080	Client ID:				Units: mg/L	Prep Date:			Run No: 265080		
SampleType: MBLK	TestCode: Hexavalent Chromium in Water	SW7196A			BatchID: R265080	Analysis Date: 04/02/2014			Seq No: 5582345		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chromium, Hexavalent BRL 0.0100

Sample ID: LCS-R265080	Client ID:					Units: mg/L	Prep Date:		Run No: 265080		
SampleType: LCS	TestCode: Hexavalent Chromium in Water	SW7196A				BatchID: R265080	Analysis Date: 04/02/2014		Seq No: 5582346		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chromium, Hexavalent 0.4883 0.0100 0.5000 97.7 90 110

Sample ID: 1404121-001BMS	Client ID: MW-10	Units: mg/L	Prep Date:	Run No: 265080							
SampleType: MS	TestCode: Hexavalent Chromium in Water SW7196A	BatchID: R265080	Analysis Date: 04/02/2014	Seq No: 5582358							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chromium, Hexavalent 0.5862 0.0100 0.5000 0.1035 96.5 85 115

Sample ID: 1404121-001BMSD	Client ID: MW-10	Units: mg/L	Prep Date:	Run No: 265080							
SampleType: MSD	TestCode: Hexavalent Chromium in Water SW7196A	BatchID: R265080	Analysis Date: 04/02/2014	Seq No: 5582361							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chromium, Hexavalent 0.5931 0.0100 0.5000 0.1035 97.9 85 115 0.5862 1.17 20

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		