# Site Assessment Report

Sarasota County
Central County
Solid Waste
Disposal Complex

**Prepared for:** 



**Sarasota County** 

July 3, 2009

Prepared by:







July 2, 2009

Ms. Susan J. Pelz, P.E. Solid Waste Program Manager Southwest District Florida Department of Environmental Protection 13051 North Telecom Parkway Temple Terrace, Florida 33637-0926



Executed Consent Order, OGC Case No. 08-1728 RE: **Central County Solid Waste Disposal Complex** Class I Landfill Permit No. 130542-002-SO Permit No. 231674-001-SO Sarasota County

Dear Ms. Pelz:

In accordance with Paragraph 9 of the above referenced Consent Order, PBS&J hereby submits two copies of a Site Assessment Report on behalf of Sarasota County. PBS&J has prepared this report at the request of the County and we have provided the County with a draft copy of this report, have received comments back from them, and have incorporated appropriate comments into this final report.

We look forward to your review of this report. If you have any questions or comments regarding this matter, please do not hesitate to contact me by phone at 407-806-4104 or by email at DEDeans@pbsj.com.

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# SITE ASSESSMENT REPORT

## Sarasota County Central County Solid Waste Disposal Complex Nokomis, Florida

### FDEP ID# 4058C02034

#### Prepared for:



SARASOTA COUNTY Environmental Services Solid Waste Operations 4000 Knights Trail Road Nokomis, FL 34275

July 3, 2009

Prepared by:



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### **Executive Summary**

Sarasota County began operation of its Central County Solid Waste Disposal Complex in 1998. Since that time the County has been conducting a water quality monitoring program accordance with the conditions of a facility operating permit issued by the Florida Department of Environmental Protection (FDEP). This water quality monitoring program has identified elevated levels of iron, arsenic and ammonia in certain of the groundwater monitoring wells. At the request of FDEP the county installed compliance wells down gradient of these monitoring wells in January 2008 to determine if there were exceedences of groundwater quality criteria at these locations.

Compliance monitoring of these wells confirmed that exceedences were occurring. As a result, FDEP required that the County prepare a Contamination Evaluation Report (CER) to delineate the extent and cause of the contamination in order to predict the likelihood that the Department's water quality standards would be violated outside the zone of discharge.

The CER was completed in October 2008 and concluded that the Department's water quality standards were being violated outside the zone of discharge, but that no spill, leak or discharge of contamination due to the operation of the landfill could be identified. Likely sources of contamination such as yard waste processing, chipped tires used for erosion control, soil excavated from a potential cattle dip vat located on site, and leachate from the lined Class I disposal cell were all investigated and ruled out as a potential source of the iron, arsenic and ammonia present in the groundwater.

What this report did reveal is that in areas of the site where development has occurred such that infiltration and percolation of rain water to the water table has been decreased there has been an associated decrease in the amount of dissolved oxygen at the surface of the water table. This change of conditions appears to be favorable for the establishment of a reductive dissolution environment wherein anaerobic iron-forming bacteria establish, and feeding off of naturally occurring organic matter in the soils, release iron from the soils into the groundwater. As a side effect of this process arsenic and ammonia bound to the iron in the soils are also released.

In pursuit of this possibility of a reductive dissolution process causing the contamination the University of Florida, Department of Environmental Engineering Sciences was engaged to research this matter further. Their testing found that the soils and aquifer sediments naturally contain iron at concentrations typical of Florida soils, and that arsenic and ammonia-nitrogen were found to naturally occur in the soils and aquifer sediments as well. Additional testing found that the iron was of a nature that when the soils were exposed to the reducing conditions (conditions that occur when oxygen is limited), the iron was transformed from a solid phase (soil mineral) to a liquid phase (dissolved iron) in a process referred to as reductive dissolution.

When soils from the site were exposed to environmental conditions in the lab in the absence of oxygen, reductive dissolution of iron occurred. Experiments conducted with site soils found arsenic to be released when iron was released. Similarly, ammonia-nitrogen was found to also enter into the water phase as well. These data suggest that the reductive dissolution process resulting in the iron release is also a plausible explanation for the elevated concentrations of arsenic and ammonia-nitrogen.

To resolve this matter FDEP and the County entered into a Consent Order on October 8, 2009. Paragraph 9 of this order requires the County to submit a Site Assessment Report (SAR) in accordance with Chapter 62-780.600. PBS&J has prepared this SAR after conducting additional field investigations and has addressed each of the Site Assessment Objectives listed in the rule as follows:

- 1. Current Exposure and Potential Risk of Exposure to Humans and the Environment: Groundwater in the surficial aquifer where impacts have occurred is currently not being used for any purpose. Surface water at the site is also not being used. Future land use plans are limited to the further development of the landfill facility. The human population (workers and customers of the landfill) are not exposed to the impacted groundwater, and the groundwater connection to surface water is limited. Migration of the plume to the property line at an estimated rate of 36 feet per year would take decades should this occur.
- 2. Contamination Character and Extent of Dissolved Groundwater: The contaminants of concern are iron, arsenic and ammonia-nitrogen. The plume of these constituents extends generally from the northwest area of Phase II of the site southeastward into the Phase I, Phase IV and Phase V areas.
- 3. Sources of Contamination: The findings of this Site Assessment support the conclusions presented in the Contamination Evaluation Report that the iron, arsenic and ammonia-nitrogen are naturally occurring chemicals in the soils at the CCSWDC, and that the soils are releasing these constituents into the groundwater in areas of the site favorable to the reductive dissolution process.
- **4.** Background Concentrations: Background concentrations of the contaminants of concern during these investigations have been found to be as follows:

ContaminantConcentration RangeIron280 - 6,200 ug/lArsenicBelow Detection LimitsAmmonia-Nitrogen0.12 - 0.534 ug/l

- 5. Need for Source Removal: There is no free product associated with the contaminants of concern. Also, there was no single point source or "hot spot" within the soil acting as a source of the contamination.
- 6. Geologic and Hydrogeologic Characteristics That Influence Migration and Transport of Contaminants: The COC's are in a dissolved state within the groundwater of the surficial aquifer. Therefore, the principal factor influencing the migration and transport of the contaminants is the flow dynamic of the groundwater of the surficial aquifer through the impacted areas towards the southwest and southeast directions.



- 7. Mechanisms of Transport of Contaminants in the Immediate Vicinity of the Site: The COCs originate from the soil and leach into the groundwater through a process of RD. The plume of impacted groundwater then flows with the groundwater of the surficial aquifer. Groundwater on the west side of the impacted area flows in a southwesterly direction and groundwater on the east side of the impacted area flows to the southeast.
- 8. Public Supply Well Survey: According to the files, there are no public supply wells located within one-half mile of the plume of impacted groundwater. There are records for private water supply wells located on the landfill property, one at the landfill administration building complex, approximately 1,500 feet southwest of the leading edge of the plume; and the other at the maintenance building.
- 9. Surface Water Exposure to Contamination: Impacts to surface water from arsenic in the groundwater in the western portion of the site are not expected to occur since arsenic concentrations in the groundwater are below the surface water quality limits for arsenic. On the east side of the site in the Phase IV area, groundwater concentrations exceed surface water standards, but the groundwater is below the ground surface in this area and there is no connection of groundwater to surface water in this area.

Iron concentrations in the groundwater, including background, exceed the surface water limits.

Given that the stormwater ponds will not discharge to surface waters until filled to the control elevation with stormwater runoff, dilution of any iron or arsenic from the groundwater in these ponds will reduce the impact to surface water from discharges from these ponds.

10. Facilitate the Selection of a Remediation Strategy: There is low risk of exposure to human health and the environment from the contamination from the plume of COC-impacted groundwater at this site and there are no plans to change the current land use at this site. We believe that, once removed from the reductive dissolution environment of anoxic conditions and low ORP values, the iron and arsenic will revert to its oxidized state. Therefore, the most logical remediation strategy is Natural Attenuation with Monitoring, as promulgated at Chapter 62-780.690.



### 1.0 INTRODUCTION

The historical analytical results of groundwater related constituents at the Sarasota County Central County Solid Waste Disposal Complex (CCSWDC) indicate that elevated levels of some constituents exceed the State's regulatory concentration limits. The most significant analytical results indicated that arsenic, iron, and ammonia exceeded numerical values set forth in the operating permit. Together these constituents are referred to in this report as the Contaminants of Concern (COC).

In October 2007, the Southwest District of the Florida Department of Environmental Protection (FDEP) requested that the County initiate compliance monitoring to evaluate whether the COC exceedances extended to the boundary of the Zone of Discharge (ZOD). When it was confirmed that the COC exceedances did indeed extend to the boundary of the ZOD, the FDEP requested that evaluation monitoring be initiated in accordance with Rule 62-701.510(7)(a), Florida Administrative Code (FAC) to address the possible source(s) of the exceedances. At the request of the County, PBS&J performed a Contamination Evaluation (CE) in 2008. Following review of the results of the CE, the County and FDEP entered into a Consent Order that required that a Site Assessment (SA) be performed in accordance with 62-780, FAC. This report presents the approach to the SA and its findings. This report reiterates some of the methods and results of the CE because the CE and SA activities are interdependent.

#### 1.1 Purpose

The Site Assessment Report (SAR) has been prepared by PBS&J to report the results of the SAR-related activities performed at the CCSWDC site. The purpose of the SAR is to further evaluate the limits of the impact to the potentially affected media on the subject property and surrounding area resulting from the COCs in the groundwater. The SA was performed in general accordance with Chapter 62-780.600, FAC to meet the following ten objectives that are covered in more detail in Chapter 6 of this report.

- 1. Evaluate the current exposure and potential risk of exposure to humans and the environment.
- 2. Determine the character and extent of contamination
- 3. Determine or confirm the sources of contamination
- 4. Establish the background concentrations
- 5. Determine whether a source removal is needed
- 6. Describe relevant geologic and Hydrogeologic characteristics that influence migration and transport of contaminants.
- 7. Determine other mechanisms of transport in the immediate vicinity of the site
- 8. Determine whether any public or private wells are present within ½ mile of the site
- 9. Determine whether any surface water will be exposed to contamination
- 10. Facilitate the selection of a remediation strategy.



# 1.2 Organization of This Report

Section 2 of this report provides the history and background of this facility. Discussions include the groundwater monitoring program and contamination investigations previously conducted relating to the contaminants of concern at this site.

Section 3 describes the geology and hydrogeology of the site.

Sections 4 and 5 describe the scope of the field investigations conducted for this site assessment, as well as the previous contamination evaluation investigation. The results of these investigations are presented in an integrated fashion to understand the cause and extent of the contaminants of concern at this site.

Section 6 relies on data and information discussed in the previous chapters to address each of the ten objectives of this site assessment as described above.

A list of references can be found in Section 7.



### 2.0 BACKGROUND

#### 2.1 Site Description

The CCSWDC is located on approximately 6,000 acres of land in the central part of Sarasota County near Nokomis, Florida (Figure 2-1). The facility is located in Sections 1 through 4 and 9 through 16 of Township 38 South, Range 19 East. The landfill is located in north-central part of the approximately 6,000-acre complex. The rest of the land is undeveloped and covered with vegetation, including trees (primarily oak and pine) and shrubs.

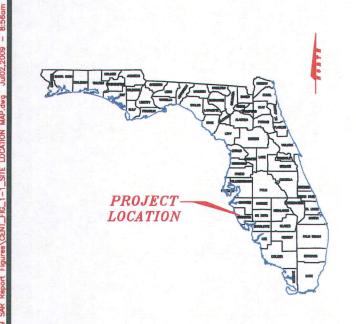
There are number of ponds on the property, as well as two major linear surface water features, the Cow Pen Slough, which traverses from the northern property line to the southern property line on the west side of the property, and the Myakka River, a major regional drainage feature which borders a small segment of the eastern property line. Water in both of these surface water features flows generally toward the Gulf of Mexico. There is small tributary to the Cow Pen Slough which runs along the west side of the landfill area which is referred to as Old Cow Pen Slough. This feature collects the overflow from stormwater ponds located on the west side of the landfill. There are seven stormwater ponds, designated Pond 1 through Pond 7, which are used to store and manage storm water around the facility. There are additional ponds located near the landfill which are borrow areas used to supply fill for landfill construction and operation.

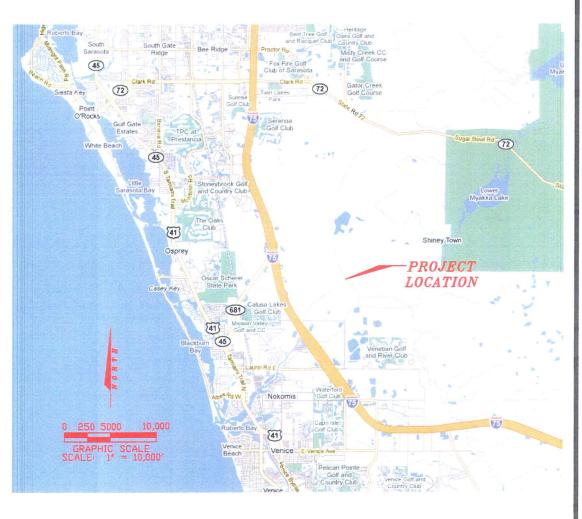
The CCSWDC facility includes both a lined, Class I facility, a construction and demolition debris recycling facility (C&D), a yard waste composting area (YWCA), and a Waste Tire Processing Facility (WTPF). The active part of the Class I facility is located in the Phase I Area. The C&D and YWCA are located in the Phase IV Area. The WTPF is located in the Phase V Area. The layout of the site is illustrated in Figure 2-2.

Prior to January 2009 groundwater samples were collected from a network of monitoring wells around the landfill. This groundwater compliance monitoring network consisted of seven monitoring wells which were located along the perimeter of the Phase I Area, and monitored the groundwater of the shallow (surficial) aquifer. That monitoring well network consisted of six shallow wells, designated MW-1R, MW-8A, MW-9, MW-10R, MW-11R, and MW-12R. All of the wells were screened within the shallow (surficial) aquifer. MW-1R was designated by the permit as a background well, and remaining wells were detection wells. There are also two piezometers, which are designated MW-3 and MW-5. The groundwater monitoring wells and piezometers are also used to measure the elevation of the water table. In addition to the permanent groundwater monitoring well network, four compliance wells were installed as part of the CE investigation and are currently being monitored quarterly until the issues relating to the COC's have been resolved. These wells are designated CW8-A, CW-9, CW-10R, and CW-11R.

In January 2009 monitoring wells MW-11R MW-12R and compliance well CW11R were abandoned so that construction of Phase II of the Class I Landfill could begin. Additional monitoring wells will be added to this network upon the completion of the Phase II landfill construction.



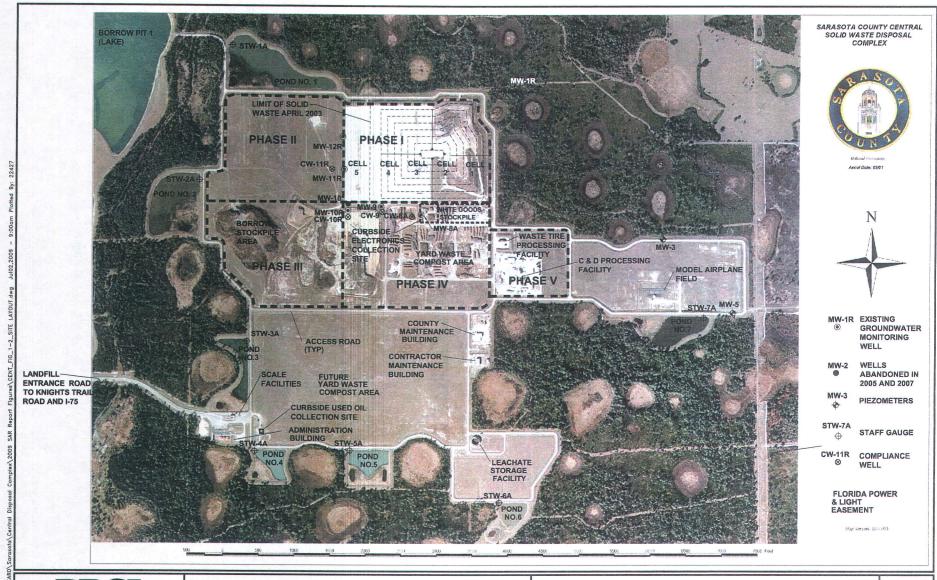






SARASOTA COUNTY
CENTRAL COUNTY SOLID WASTE
DIPOSAL COMPLEX

SITE LOCATION MAP



PBS

CENTRAL COUNTY SOLID WASTE DISPOSAL COMPLEX

SITE LAYOUT

FIGURE

2-2

Surface water quality is also monitored as a requirement of the permit. The surface water samples are collected from two points along the Old Cow Pen Slough, one located upstream of the landfill and one located downstream of the landfill. Landfill leachate is also monitored as part of the permit. A list of the components of the landfill's water quality monitoring network is provided in Table 2-1.

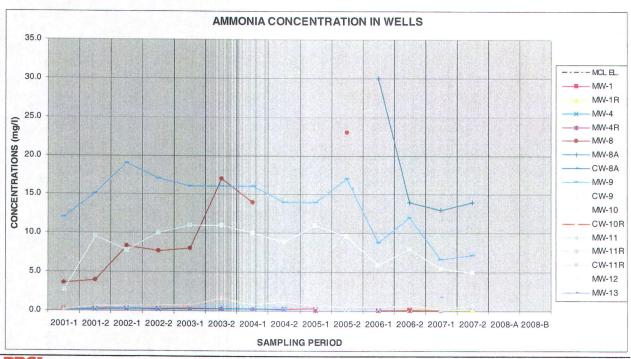
#### 2.2 History and Operations

The CCSWDC began operations in 1998. Activities leading up to the opening of the facility included the construction of the access road to the facility, the clearing, grading and backfilling of land, the construction of 60 acres of lined landfill disposal cells, the creation of a cover material stock pile and site preparation for yard waste, tire and C&D recycling activities. Fill material excavated from Borrow Pit No. 1 (Figure 2-2) was used for this construction activity. Solid waste disposal activities are located principally within the Phase I area, while solid waste management activities such as yard waste composting and C&D recycling are being conducted in the Phase IV, and V areas. Currently these three areas are still active. Additional landfill disposal cells are currently under construction in the Phase II area and are scheduled to begin accepting waste in 2010.

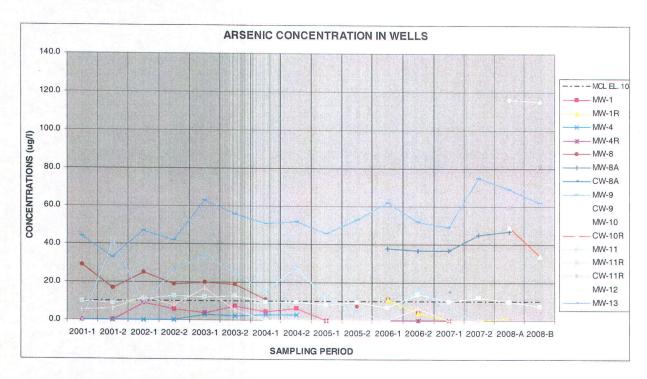
#### 2.3 Previous Monitoring and Evaluation

#### 2.3.1 Historical Groundwater Monitoring

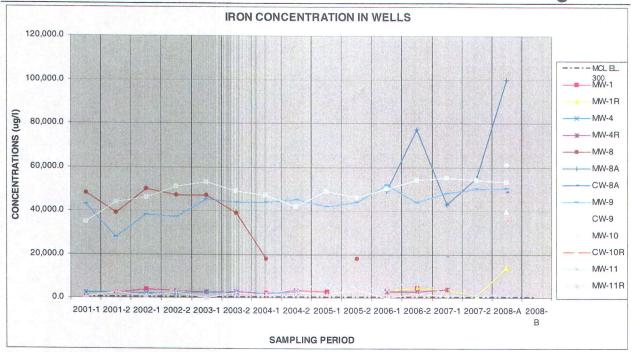
The specific conditions of the facility operating permit have called for periodic sampling of the monitoring well network since operations began in 1998. The historical analytical results from those events indicate consistent elevated detections of the COCs at the monitoring wells located on the downgraident side of the landfill, specifically at monitoring wells MW-8A, MW-9, MW-10 (and its replacement), and MW-11 (and its replacement).



Historic ammonia concentration values detected in the monitoring wells show varying points where the ammonia levels increased and then towards more recent sampling events, start to trend downwards. When examined next to rainfall related data, no specific trends or patterns could be determined to suggest that dry or wet spells from rain related events had any significant effect on the concentration values.



Historic total arsenic concentrations have been relatively low in their respective concentrations at the landfill. The exception to this has been in the areas in and around MW-8, MW-9 and MW-10R. These wells have shown elevated arsenic values since the initial collection of data. Historic record reviews did find that wetland related organic environments were present in this area but were removed and mitigated for during site development.



Historic total iron concentrations have been relatively low in their respective concentrations in most of the wells. The exception to this has been in and around MW-8, MW-9 and MW-10R. These wells have shown elevated iron since the initial collection of data. In looking at recently collected data, iron concentrations appear to be trending upwards.

In 2007, the FDEP requested that compliance wells be installed along the edge of the ZOD at well locations MW-8A, MW-9, MW10, and MW-11. This was completed in 2007. Subsequent sampling of these wells indicated exceedances of some of the COCs at several of the compliance wells.

#### 2.3.2 Contamination Evaluation Plan

Because of the exceedances at the ZOD, the FDEP requested that CE be initiated. A CE Plan (CEP) was developed by PBS&J and issued in June 2008. The CEP was implemented by PBS&J in 2008 to evaluate of the following areas as potential sources or causes for the arsenic and the other COCs in the groundwater:

- The YWCA;
- The soil used as temporary cover for the landfill operation;
- Historical uses of the property prior to construction of the landfill, including the presence of cattle-dipping sites;
- The use of shredded tires for erosion control at the facility which may have leached arsenic; and
- Reductive Dissolution (RD) enhanced by the development of the landfill and other surface structures which can affect groundwater chemistry; specifically



by causing the reduction of arsenic and other metals to a solubilized form and to leach from the soil into the groundwater.

The CEP involved five major tasks of research and field-related investigations to develop a better understanding of the site characteristics and the source of the groundwater impacts at the landfill and is discussed in more detail in the following sections.

- 1 Research. Research involving reviewing published data concerning the types of constituents that could be derived from surface attributes that may be contributing to the contamination at the site; such as reported nearby cattle dip vat areas, pesticide/herbicide exposures from yard waste, on-site mulching activities in and around the yard compost area in the Phase IV section of the landfill, and constituents that could be derived from chipped tire storage or use on site.
- 2. Arsenic Speciation. To aid in the identification of a source of arsenic contamination, the speciation of the arsenic was examined in order to relate the arsenic found in site groundwater and soils against possible surface (soil) sources of contamination on the site such as pesticide/herbicides from yard mulch and historical cattle dip vat sources and other on site areas of stockpiled material. The soil sampling results are presented as a breakdown of three primary inorganic arsenic spatial distribution features: total arsenic, arsenic (arsenate) and arsenic (arsenite). In conjunction with the three primary inorganic speciation features, two secondary features, dimethylarsinic acid (DMA) and monomethylarsinic acid (MMA), were also evaluated to determine their respective presence in the sample matrices. DMA and MMA are methylated arsenical metabolites found in herbicides to treat lawns and citrus. The detected presence of these constituents (DMA/MMA) would lend this evaluation an ability to trace arsenic sources back to potential (unknown) surface sources such as above-ground storage of yard waste and other received organic waste matter.

Arsenic speciation data from soil samples collected from the vadose zone in the following areas to aid in identifying of potential sources of arsenic contamination:

- The YWCA.
- The borrow material area.
- Cattle Dip Vat area, as based on a review of historical aerial photographs.
- The Phase II Area.
- The background area.
- 3. Arsenic Delineation. The third major task of the CE involved delineation of arsenic in the soil in the Phase II Area and the YWCA. The need for this task evolved from the results of the arsenic speciation analysis and the need to determine if more specific chemical indicators were required to rule in or rule out the YWCA as a contaminant source. Soil samples were collected from the vadose zone and, in addition to arsenic, were analyzed for total nitrogen, chromium, copper, and lead to aid in determining if Chromated Copper Arsenate (CCA)-treated wood or herbicides and pesticides could be source(s) of the arsenic in the soil and groundwater. An arsenic "hot spot" detected near monitoring well MW-11R during the speciation testing was also evaluated as part of this task. Selected soil samples were also analyzed by the Synthetic



Precipitation Leaching Procedure (SPLP) to evaluate whether naturally-occurring arsenic in the soil may be leaching in to the soil from contact with rain water.

4. Reductive Dissolution Evaluation. The fourth task involved an evaluation of the potential for RD to occur at this site. In the RD process, the formation of reducing conditions results in the transformation of solid phase ferric iron (Fe<sup>+3</sup>) to dissolved ferrous iron (Fe<sup>+2</sup>). For the CE, PBS&J obtained the assistance of the University of Florida, Department of Environmental Engineering Sciences (UF) for the collection of samples and to perform bench test-related research. The UF researchers evaluated whether natural site soils and aquifer sediments can serve as the source of iron, arsenic and ammonia-nitrogen being encountered, and whether the soils are of a nature that RD can be the cause of their release into groundwater.

5.Groundwater Assessment. The fifth task of the CE was an assessment of the groundwater chemistry at the site through the installation of 16 shallow temporary monitoring wells and 4 deep temporary monitoring across the site. These wells were used along with the existing permanent monitoring well to develop a profile of the water table elevations, evaluate arsenic (total and speciated) and the other COC concentrations in the groundwater across the site, and to evaluate general groundwater chemistry, including RD parameters and Oxygen Reducing Potential (ORP). ORP is a measure of the relative chemical differences between the oxidizers and the reducers found in groundwater. The evaluation of ORP is important because groundwater does contain concentrations of redox-active species. Thus, ORP indices can be cross compared to track the chemical attributes of adversely affected impacts of ground or surface water. A negative ORP value is a good indication that the water substrate is anaerobic and in a reductive dissolved state.

#### 2.3.3 Contamination Evaluation Report

The findings of the CE were presented in a Contamination Evaluation Report (CER), which was prepared by PBS&J and dated October 2008. The CER reported the following information, as broken down by the major tasks performed during the CE:

1. Research. When compared to the published data, the analytical results from the speciation sampling and the soil sampling in the Phase II area appear to indicate that the soils have not been adversely affected by activities, such as the use of CCA-treated wood or herbicides, which could also release arsenic into the soil.

With regard to the reported cattle dipping site, based on review of aerial photos, an area known to have a dip vat was located approximately 1,800 feet southwest of the active landfill. The immediate vicinity of the suspected cattle dip vat had been used to obtain borrow material for the landfill site. Soil testing in cattle dip vat/borrow pit area was performed as part of the arsenic speciation studies, with no significant arsenic concentrations found to suggest that that area was a significant source of arsenic.

With regard to the WTPF, the County has in the past used chipped tires as erosion control material in stormwater ditches on the landfill itself. There was concern that these practices might be contributing to the high concentrations of metals found on site. Industry tends to promote that waste tire rubber is considered non-toxic from a leachability point of view. Based on published studies and the results of Toxicity Characteristic Leaching Procedure (TCLP) tests conducted on

scrap tire chips, the metal constituents that would be expected to leach out of these materials were determined to be significantly lower than regulatory threshold limits. The literature also reported that the concentrations of metals detected were below levels of concern and posed no hazards to water quality. The metal zinc, which had been detected as leaching from scrap tires, was determined not to pose any potential harm to the environment. The review of published data suggested that the potential for waste tire chip stockpiling or use activities to be a source of surface-related arsenic contamination was considered low.

The historical groundwater analytical data indicated elevated concentrations of a number of parameters, including the COCs, in the groundwater monitoring network on the south and west sides of Phase I of the landfill. The historical groundwater flow patterns across the site suggested that the direction of groundwater in the surficial aquifer varied with the amount of rainfall that the site received, and that the groundwater flow on the west side of the landfill area flowed in a southwest direction, and that the groundwater beneath the east side of the landfill flowed to the southeast.

- <u>2. Arsenic Speciation.</u> The speciation results indicated that the predominant species of arsenic in the soil samples was of the arsenic (V) arsenate type. This particular species of arsenic is the type that tends to sorb to soil/sediment particles and does not readily desorb or migrate while in solution in the groundwater. Dimethylarsinic acid (DMA) and monomethylarsinic acid (MMA), typically found in herbicides used to treat lawns, were not detected in significant concentrations.
- 3. Arsenic Soil Delineation. Arsenic concentrations in the soil at the Phase II Area were greater than the State Residential Soil Cleanup Target Level (SCTL) at approximately 10% of the sampling points. None of the arsenic concentrations exceeded the Commercial/Industrial SCTL. The iron concentrations in the samples did not exceed Residential SCTL. The same was true for the concentrations of chromium, copper, and lead. The concentrations of total nitrogen in the soil ranged from 32.8 milligrams per kilogram (mg/kg) to 375 mg/kg.

The SPLP analytical results did not indicate any significant concentrations of constituents that would indicate that these constituents could be leaching into the groundwater as a result of contact with precipitation.

4. Reductive Dissolution Evaluation. Soil samples collected from a number of areas at the site show that iron, arsenic, and ammonia are naturally-occurring constituents of the soil at the CCSWDC. The Department of Environmental Engineering Sciences at the University of Florida (UF) has been evaluating the role of a process known as reductive dissolution in the release of dissolved iron into groundwater at landfill sites. In this process, the formation of reducing conditions results in the transformation of solid phase ferric iron (Fe<sup>+3</sup>) to dissolved ferrous iron (Fe<sup>+2</sup>).

In the study for this site, UF researchers have evaluated whether natural site soils and aquifer sediments can serve as the source of iron, arsenic and ammonia-nitrogen being encountered, and whether the soils are of a nature that reductive dissolution can be the cause of their release into groundwater. Florida soils are known to naturally contain iron minerals such as hematite and goethite. In these minerals, the iron is the oxidized form, referred to as the Fe<sup>+3</sup> form or the ferric

form; these mineral are in the solid phase. In a surficial aquifer and the overlying vadose, sufficient oxygen is normally present such that the dominant pathway for microbial respiration of organic matter is through aerobic biodegradation (oxygen is used as the electron acceptor aerobic organisms). When oxygen becomes sufficiently diminished, other organisms can utilize the organic matter for respiration by using other electron acceptors. A notable group among these is "iron reducing bacteria," (IRB) which use Fe+3 as an electron acceptor. Iron reducing bacteria were measured in the site soils, with greater concentration in soils near areas where the highest iron concentrations occurred.

For IRB to release solid-phase iron into solution, they require a source of organic matter. Measurement for site soils found that organic matter was naturally present and that when iron is released through RD, organic matter is released. Though the arsenic concentrations in the soil were within typical range of most Florida soils, tests on many of the samples found that arsenic was released into solution during the RD process of iron. Arsenic is known to bind to iron oxide minerals in soil; when the naturally-occurring iron is released through the action of the iron reducing bacteria, naturally-occurring arsenic can be released as well. The fact that organic matter is associated with the iron minerals suggests that an external source of organic matter, such as leachate, is not required for the reaction to occur.

Ammonia nitrogen (more specifically ammonium ions) was found to be naturally present in the soil. Preliminary experimental results suggest that ammonium is also bound to the iron oxide minerals to an extent, and when these minerals dissolve through RD, ammonia nitrogen is release into solution.

#### 5. Groundwater Assessment

The results of the groundwater assessment indicated that arsenic, iron, manganese, ammonia (as Nitrogen), chloride, sodium, sulfate, and pH were detected in at least one sampling point at concentrations in excess of their respective GCTL or Secondary Drinking Water Standard (SDWS). Arsenic was detected at 13 of the well locations, with the highest concentrations detected at wells located in the Phase IV Area of the landfill. The concentration of iron exceeded the SDWS at all but one of the sampling points. TDS exceeded groundwater standards and pH was outside the groundwater standard range on the lower side at the majority of the wells. With regard to the other constituents, they were detected at concentrations in excess of the standards at only a few well locations.

With regard to the ORP values, with the exception of two well locations, GW-3 and GW-10, all of the ORP readings collected in the groundwater within the footprint of the landfill exhibited high-negative milivolt ORP value numbers. The ORP values were all within the range where iron dissolution will, according to studies, take place. The highest-negative ORP values were found along the junction line between Phase I and Phase IV areas and along the southern end of the Phase III and Phase IV areas. At the time of the CEP Assessment these locations generally corresponded to the locations where elevated arsenic concentrations were detected.

Based on these results, PBS&J concluded that iron, arsenic and ammonia are naturally-occurring chemicals in the soils at the CCSWDC. The results of the speciation testing suggested that the



### 2.0 Background

arsenic in the soil could not have originated from CCA-treated wood or herbicides. The SPLP results suggested that mobility by contact with stormwater itself is not a mechanism for leachate migration. Therefore, there did not appear to be any significant arsenic-contaminated soil which might serve as a source of the groundwater contamination. Tests designed to measure the propensity of a soil to undergo RD of iron minerals, however, found that the site soils do, in fact, release iron when exposed to RD. It was hypothesized in the CER that the construction of the lined landfill cell, along with associated site development and other site activities (e.g., storage piles of cover soil), have sufficiently decreased vadose zone oxygen content in some areas of the site resulting in conditions suitable for accelerated growth of iron reducing bacteria have developed. The proliferation of the iron reducing bacteria has in turn resulted in the release of iron, arsenic, and ammonia-nitrogen into the surficial groundwater.

As a whole, the results of the CE suggested that a plausible explanation of the groundwater exceedances for iron, arsenic and ammonia-nitrogen is that RD of iron minerals in the site soils facilitates the release of these chemicals into the groundwater. The fact that organic matter is associated with the iron minerals as well suggests that an external source of organic matter, such as leachate, is not required for the reaction to occur.

# 3.0 GEOLOGY AND HYDROGEOLOGY

The following information was gathered from technical publications of the U.S. Geological Survey and the Florida Geological Survey regarding the geology and hydrogeology of the Sarasota County area and from the site-specific information presented in the technical evaluation of the landfill site prior to construction (Ardaman & Associates, Inc., 1992).

### 3.1 Regional Geology and Hydrogeology

Sarasota County lies within the Gulf Coastal Lowlands physiographic province. Land surface elevations within the County range from sea level along the coast to over 100 feet above the National Geodetic Vertical Datum (NGVD) in the northeast part of the County. The land surface is generally flat in most areas of the County.

The majority of the County is poorly drained. The Myakka River and its tributaries are the major streams in the County. The Myakka River flows generally from northeast to southwest. The river is located approximately one mile southeast of the CCSWDC.

The sediments and lithified materials underlying the upper part of the subsurface beneath the County include sand, silt, clay, consolidated and unconsolidated shell beds, and limestone and dolomite. These materials are divided into several geologic units which range in age from the Oligocene to the Holocene.

The oldest unit of consequence in the subsurface below Sarasota County is the Oligocene age Suwannee Limestone. The Suwannee is generally divided into two units, an upper light colored limestone with interbedded dark colored dolomite, and the lower unit is a light gray limestone. The top of the Suwannee can be found at an approximate elevation of 350 feet below the NGVD in the northern part of the County, and dips southward to point where upper surface is located at elevation of 650 feet NGVD in the south. The Suwannee ranges in thickness from 150 feet to 350 feet. It is at its thickest on the east side of the County.

The next unit up in the sequence is the Miocene age Hawthorn Group. In this part of the Florida, the Hawthorn consists of two units, the Arcadia Formation and the Peace River Formation. The Arcadia is further divided into the Tampa Member an unnamed Upper Member. The Tampa Member is comprised of a light colored sandy limestone with a mud matrix and varying amounts of clay. The Upper Member is comprised of sandy, clayey, dolomite and limestone interbedded with thin beds of sand and clay. The top of the Arcadia Formation is present throughout the County, and is encountered at an approximate depth of 0 feet NGVD beneath the north part of the County and approximately 100 feet below the National Geodetic Vertical Datum in the south. The Arcadia ranges in thickness from 300 feet to 500 feet.

The Peace River Formation is comprised of light gray and green phosphate-rich sands, clayey sands, clay, and dolomite stringers. The Peace River ranges from 0 feet near Sarasota, to over 100 feet in the east part of the County. The upper surface of the unit can be found at or near the NGVD throughout the County.



The next unit up in the sequence is the Holocene age sands, silts, clays, and organic materials that are found in present day flood plains, beaches, intertidal swamps and marshes, inland swamps, marshes and lakes.

The upper-most unit in the sequence outside of the Holocene age sediments at the surficial deposits of Pliocene-Pleistocene age which blanket the entire County. These sediments consist of sands, silts, and clays which are variably indurated with shell beds. The thickness of the surficial sediments typically ranges from 15 to 30 feet.

There are three hydrogeologic units in Sarasota County, the surficial aquifer, the intermediate aquifer, and the Floridan aquifer. The surficial aquifer is unconfined and is contained within the pore spaces of the Holocene age sediments which blanket the County. The intermediate aquifer system/confining unit consists of the Hawthorn Group rocks and sediments. The Hawthorn Group sediments include limestone, dolostone, quartz and phosphate sand, clayey sand, clay, sandy clay, and chert. Within Sarasota County, the intermediate aquifer system contains three water-producing permeable zones, which are known as PZ1, PZ2, and PZ3. The Floridan aquifer system lies within the cracks, fissures, and bedding planes of the Suwannee Limestone. This hydrogeologic unit comprises water-bearing limestone and dolomite zones within several formations that, taken together, are more than 3,500 feet thick.

# 3.2 Site-Specific Geology and Hydrogeology

#### 3.2.1 Geology

The Holocene age sediments beneath the CCSWDC extend to an approximate depth of 18 feet below land surface (BLS) and generally consist of gray to brown fine sand with organic material and roots from the surface to a depth of 5 feet BLS. Gray to brown, calcareous silty to clayey fine sand is present from a depth of 5 feet BLS to depths ranging from 13.5 to 18 feet BLS, including some areas with dark phosphate nodules.

The top of the Hawthorn Group sediments range in depth from approximately 18 feet BLS to more than 40 feet BLS, and include interbedded zones of gray-brown (calcareous) clayey fine sand, hard rock layers, and layers of gray to gray-green clay. The hard rock layers generally consist of cemented and consolidated silty sand, silt, clayey sand, and clay. Limestone or rock fragments are present in many of the hard layers, and some predominantly limestone layers are present.

Based on studies by Ardaman & Associates, Inc. (2008), the average hydraulic gradient in the Phase II area ranged from approximately 0.0005 to 0.0011. The groundwater flow direction typically ranged from west to south-southwest. The hydraulic conductivity from site-specific field tests in the piezometers ranged from 0.25 to 4.1 feet per day. Considering an effective porosity of 0.25, the maximum groundwater flow velocity in the surficial aquifer would range from 0.003 to 0.098 feet per day or 1.1 to 36 feet per year. The Ardaman & Associates study also

found that there is typically a downward gradient from the surficial aquifer to the PZ2 zone of the intermediate aquifer. However, there is an upward gradient from PZ3 to PZ2 within the intermediate aquifer, which effectively prevents recharge from the surficial aquifer system to the Floridan aquifer system at this site.

The Suwannee Limestone is located beneath the Hawthorn Group sediments. The Floridan aquifer system reportedly lies at a depth of more than 470 feet at this site, and is more than 3,500 feet thick. The potentiometric surface elevation of the upper Floridan aquifer is reportedly higher than the water table in the surficial aquifer system in this area. Therefore, there is no recharge from the surficial aquifer system to the Floridan aquifer system in the Phase II area. The Floridan aquifer was not sampled or investigated as part of this investigation.

All of the shallow permanent monitoring wells and piezometers in the landfill monitoring network, and the temporary monitoring wells installed as part of CE and this study (as described in Section 5) appear to be screened within the surficial aquifer. Groundwater produced from the deeper temporary monitoring wells appears to come from the zone representing the bottom of the surficial aquifer and the top of the intermediate aquifer. Based on review of geologic cross sections of the site, these temporary wells appear to be screened just above the estimated depth of PZ1.

#### 3.2.2 Hydrogeology

In the hydrogeological evaluation report, Ardaman and Associates Inc. reported that the groundwater in the surficial aquifer beneath the west side of the landfill site was flowing towards the southwest, and that the groundwater beneath the east side was flowing to the southeast. Ardaman & Associates, Inc. also collected monthly groundwater level data from October 2006 through October 2007 at eight monitoring well locations, six piezometers, and two surface water locations located primarily in the Phase I and Phase II areas of the facility. During a typical month during the dry season (April 2007, for example), groundwater flow was generally toward the north across the Phase I area, but the flow was from north to south across the northern portion of Phase II, then westward from the central portion of Phase II. During a typical month during the wet season (August 2007, for example), the groundwater appears to flow from northwest to southeast across the Phase I area, but flows from the north and east toward the southwest across the Phase II area.

From July 28 through July 31, 2008, PBS&J collected water level data for all of the existing monitoring wells, compliance wells, and temporary monitoring wells in the Phase I, Phase II, Phase III, and Phase IV portions of the site. Groundwater flow direction was generally toward the west and southwest, with localized areas of depressed water table elevations in the Phase II area and localized zones of higher water table elevations elsewhere.

In June 2009 additional staff gauges were installed in the deeper ends of the seven storm water management ponds on site where the pond bottoms are below the water table. On June 12, 2009 groundwater and surface water elevations were measured (Table 3-1). This data was evaluated to determine if the stormwater ponds might be significantly dewatering the site. Table 3-1 contains

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### 3.0 Geology and Hydrogeology

as-built data on these ponds. Generally, each pond intercepts the surficial aquifer at its deep end. The control structure for the pond retains water within the pond for recharge to the aquifer until water levels reach the control elevation of the bleed down orifice. Should water elevations reach the elevation of the overflow weir, then discharge over the top of this weir occurs.

Sources of water for these ponds include stormwater drainage into the pond from the landfill areas, interception of the water table and incident rainfall onto the pond surfaces. Discharges from the ponds include evaporation off the pond surface, recharge to the water table and discharges through the control structure to surface water.

Since average annual precipitation (54 inches/year) exceeds evaporation (52 inches/year) by two inches and the bleed down orifices are set above the average water table elevations found on site, it does not appear that these ponds are significantly dewatering the site.

These ponds have only a local effect on the water regime at the site. They are simply a surface reflection of the overall groundwater flow pattern at the site. They do not appear to be dramatically effecting the overall groundwater flow direction, which is toward the west (at Phase 2 and 3) and toward the southeast (at Phase 1 and 4).



## 4.0 FIELD INVESTIGATION

The Site Assessment being conducted at this time is a continuation of on-going investigations at this site relating to the contaminants of concern. Previous activities related to this investigation include the following:

- Compliance Monitoring
  - -Compliance well installation, January 2008
  - -Quarterly monitoring since well installation
- Contamination Evaluation
  - -Speciation of groundwater and soils, April 2008
  - -Soil sampling for delineation in Phase II, May 2008
  - -Groundwater sampling of on-site wells, July 2008
- Site Assessment
  - -Surface Water sampling, April 2009
  - -Groundwater sampling in Phases II and IV, April 2009
  - -Soil sampling in Phase IV, April 2009

The field investigation plan developed for this SA is based on the information learned during the Contamination Evaluation investigation conducted in 2008. The activities of the two investigations (contamination evaluation and site assessment) and their results are discussed together in this report to present a more comprehensive picture of the nature and extent of the impacts by the COCs at this site. The scope of the SA involved the following major field tasks:

- 1 Delineate the limits of the COC-impacted groundwater through the installation and sampling of addition temporary monitoring wells.
- 2 Collect and analyze additional soil samples from the Phase II and Phase IV areas to further evaluate any impacts from the COCs, and to further evaluate arsenic speciation.
- 3 Collect soil and groundwater samples from areas within and adjacent to some of the natural wetlands on the CCSWDC site to determine whether the soils and groundwater in the natural wetland areas exhibit elevated iron and arsenic concentrations.
- 4 Collect surface water samples from the ponds and ditches in the immediate vicinity of the landfill, and to collect surface water samples from the Myakka River at points located upgradient and downgradient of the landfill.

A detailed description of these tasks is presented below. It is again noted that the sections below include discussions of the CE activities performed in 2008 because the SA activities were dependant on CE Activities. The results of the SA were incorporated with those of the CE to present a more comprehensive picture of the nature and extent of impact at the CCSWDC site from the COCs and other constituents.



#### 4.1 Soil Sampling

To aid in identifying possible sources of arsenic that could leach into the groundwater, soil investigations were performed at background locations and in areas that exhibited elevated arsenic concentrations in the groundwater. Three primary investigations were completed with regard to soil. The scope and methodology of each of these investigations are described separately below.

#### 4.1.1 Soil Sampling Methodology

#### Sampling of Soil for Arsenic Speciation Analysis

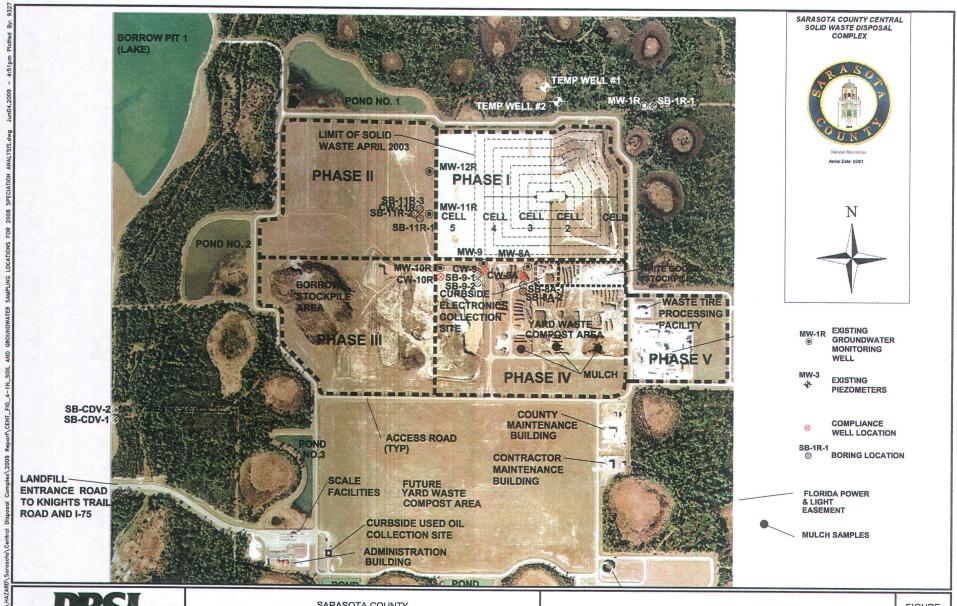
To further the objectives of the Site Assessment, determination of the chemical nature (i.e., speciation) of the arsenic was recommended in order to relate the arsenic found in site groundwater to possible soil and sediment sources. The general scope of this soil investigation was to provide for sampling, to determine arsenic speciation, of soil samples at the site in the areas affected by arsenic impacts.

Discrete (grab) soil samples were analyzed to determine inorganic arsenic speciation. Composite soil samples were also analyzed for total arsenic. The sampling locations were divided into specific areas of interest, as follows:

- 1. Collect 1 soil sample from near MW-1R (representative background sample);
- 2. Collect 2 soil samples from the former mulch/yard waste area near CW-8A;
- 3. Collect 1 composite sample of on-site mulch material from four representative mulch "piles";
- 4. Collect 2 soil samples from native soil and borrow soil near CW-9;
- 5. Collect 3 soil samples north, south, and west of CW-11R (landfill expansion Phase II area); and
- 6. Collect 2 soil samples from suspected a cattle dip vat area at a borrow pit immediately west of the site.

PBS&J conducted these soil sampling activities at the CCSWDC on April 22 and 23, 2008. The locations of the soil borings, compliance wells, and monitoring wells are depicted on the attached Figure 4-1. Soil samples for laboratory analysis were collected using a 3-inch diameter stainless steel hand auger from the locations described above. The mulch sample was collected by hand from four piles of soil that were representative of some of the older mulch material located in the mulch staging area (also shown on Figure 4-1). Except for the mulch sample and the samples from the suspected cattle dip vat locations, the soil samples were named for the respective nearby compliance well. For example, SB-8A-1 was located in the vicinity of CW-8A.





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SARASOTA COUNTY
CENTRAL COUNTY SOLID WASTE
DISPOSAL COMPLEX

SOIL AND GROUNDWATER SAMPLING LOCATIONS FOR 2008 SPECIATION ANALYSIS

FIGURE 4-1 The sample of mulch and the samples of the soil from the suspected cattle dip vat area were named "Mulch A" and "SB-CDV", respectively.

Each soil boring was completed to the depth of the water table. The depth to water ranged from 4.5 feet below surface to 8.5 feet below surface. Soils at the site were primarily fine sand or silty fine sand. Thin zones of clayey sand, sandy clay, or sand with lime rock pieces were encountered at selected locations near CW-8A, CW-9, and the suspected cattle dip vat area. Soil boring logs, including references to their specific locations, are provided as Appendix A.

At each soil boring location, composite soil samples for analysis of total arsenic were collected from the depths of 2 feet, 4 feet, and just above the water table. The soil samples for total arsenic were composited in a stainless steel bowl. The soil samples for arsenic speciation were collected as discrete grab samples from inside the auger bucket from just above the water table. After each sample was collected, the auger and stainless steel collection bowl were cleaned in compliance with FDEP Standard Operating Procedures. The auger and bowl were then rinsed with distilled water. All samples were stored with wet ice and were sent to the Applied Speciation and Consulting, LLC laboratory under chain-of-custody procedure.

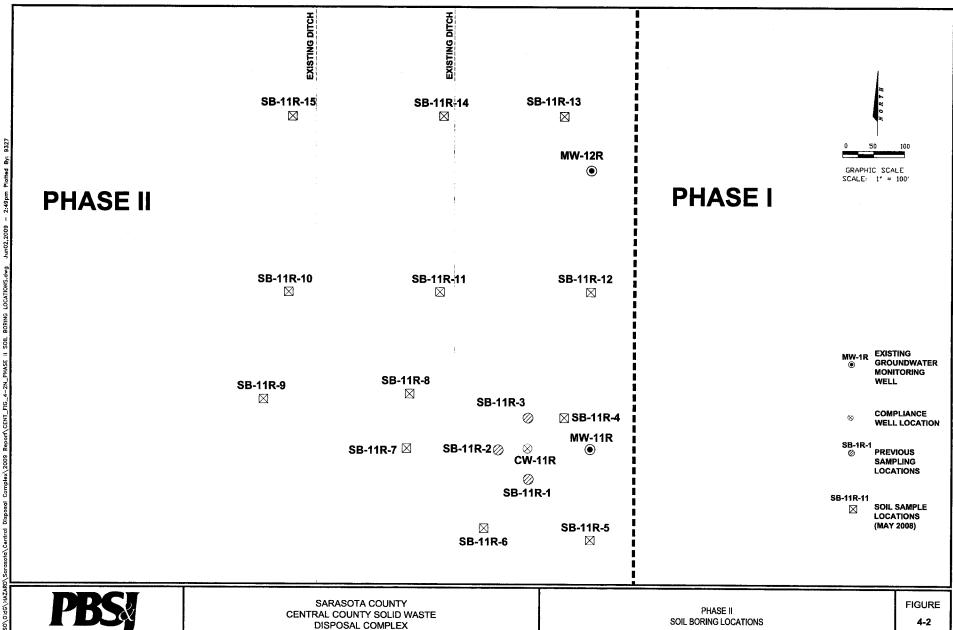
#### Sampling of Soil in the Phase II Area (Arsenic Soil Delineation)

During performance of the soil sampling for arsenic speciation at soil boring SB-11R-3, elevated concentrations of total arsenic were detected. This boring location was 50 feet north of compliance well CW-11R. The elevated concentration (27.8 mg/kg) in the composite sample from this location indicated that this area may have the potential to act as a source of arsenic that could leach into the groundwater. Further soil sampling and delineation was necessary to determine if the elevated concentration of arsenic at this location could be considered an isolated occurrence or a portion of a much larger area of arsenic-impacted soil (which could possibly be contributing to the presence of arsenic in the groundwater). The specific scope of work for the arsenic soil delineation effort was as follows:

- Soil was sampled at 12 representative locations surrounding the location of SB-11R-3. The selected sampling locations were focused primarily on areas to the north and west of SB-11R-3, because prior sampling activities to the south and, the presence of the landfill to the east, limited the need for sampling points in those directions. However, all directions from the boring location received some level of investigative scrutiny.
- Soil samples were collected with a hand auger to a depth of approximately 6 to 6.5 feet below surface (just above the water table). At each location, discrete (grab) samples were collected at the following depths: 2-feet, 4-feet, and 6-feet, in order to delineate the soil impacts both vertically and laterally.

PBS&J conducted soil sampling activities in the Phase II area at the CCSWDC on May 21, 2008. The locations of the soil borings, compliance wells, and monitoring wells in the Phase II portion of the landfill property are included on Figure 4-2. The soil samples were named for the nearby





compliance well, CW-11R. However, the boring numbers from the previous speciation activities (SB-11R-1 through SB-11R-3) were not repeated. Therefore, the borings were numbered SB-11R-4 through SB-11R-15. An additional number (-2, -4, or -6) was added to the boring location nomenclature to represent the depth of the sample. For example, SB-11R-4-2 was the sample from the 2-foot depth at SB-11R-4.

Soil samples for laboratory analysis were collected using a 3-inch diameter stainless steel hand auger. Each soil boring was completed to the depth of the water table. The depth to water ranged from 6.0 feet below surface in the central portion of the Phase II area to 6.5 feet below surface in the eastern portion of the Phase II area. Soils encountered at the site were described as primarily fine sand or silty fine sand. Soil boring logs are not provided with this report because the soil profile was essentially the same as documented above for SB-11R-1, SB-11R-2, and SB-11R-3 in the discussion of the speciation soil sampling activities.

At each soil boring location, discrete (grab) soil samples for analysis were collected from the depths of 2 feet, 4 feet, and just above the water table (6 to 6.5 feet). The grab samples were placed in three separate stainless steel bowls for each location. After sampling at each location was completed, the auger and stainless steel collection bowls were cleaned in compliance with FDEP Standard Operating Procedures. The auger and bowls were then rinsed with distilled water. All samples were properly preserved and were sent to the SunLabs, Inc. laboratory in Tampa, FL under chain-of-custody procedure.

The samples were analyzed for total arsenic, chromium, copper, lead, and total nitrogen. In addition, 4 representative samples from the 36 grab samples were analyzed for arsenic, nitrate, and ammonia (aqueous) using the Synthetic Precipitation Leaching Procedure (SPLP) Extraction Method. Since arsenic can be associated with iron compounds in the sediments, the presence of iron and its ability to be a contributory source under a reductive chemistry environment in the groundwater were examined. Therefore, a total of 10 representative samples were collected and analyzed for total iron.

On June 27, 2008, FDEP provided comments on the April 2008 Contamination Evaluation Plan via e-mail. One of the comments recommended re-sampling at the location of SB-11R-3. On July 7, 2008, PBS&J re-sampled the depths of 2-feet, 4-feet, and 6-feet at SB-11R-3 using the same methodology described above.

#### Sampling of Soil in the Phase IV Area (Identify Areas of Elevated Arsenic)

During the groundwater sampling activities conducted during July 2008, elevated concentrations of arsenic were identified at temporary monitoring wells GW-15 and GW-16. As a result, soil samples were collected for total arsenic analysis at 3 depths at 12 representative locations (for a total of 36 samples) surrounding the locations of temporary monitoring wells GW-14, GW-15, and GW-16. These sample locations were selected to attempt to identify any possible soil arsenic sources in the vicinity of GW-15 and GW-16. The sampling locations included sites located within the mulch handling and storage areas, as well as just outside the southern and eastern



boundaries of Phase IV. Selected, representative locations and depths were also sampled for speciated arsenic and other parameters, as is discussed below.

Soil samples were collected with a hand auger to a depth of approximately 6.5 feet (just above the water table). At each location, discrete (grab) samples were collected at the following depth intervals: 2-2.5 feet, 4-4.5 feet, and 6-6.5 feet, in order to delineate the soil impacts both vertically and laterally. All 36 samples, plus four duplicates, were analyzed for total arsenic. In addition, 12 representative samples from among the 36 Total Arsenic samples were analyzed for the following parameters:

- Arsenic (aqueous) using the SPLP Extraction method
- Speciated Arsenic
- Total Iron
- Copper
- Chromium
- Lead,
- Nitrate with SPLP Extraction
- Ammonia with SPLP Extraction.

PBS&J conducted soil sampling activities in the Phase IV area at the CCSWDC on April 28, 2009. The locations of the soil borings, compliance wells, and monitoring wells in the Phase IV portion of the Landfill property are shown on Figure 4-3. The samples were collected following the same methodology described above for the Phase II area samples. The soil samples were named for the Phase IV area (i.e., "P4"). Therefore, the borings were numbered SB-P4-1 through SB-P4-12. An additional number (-2, -4, or -6) was added to the boring location nomenclature to represent the depth of the sample. For example, SB-P4-1-2 was the sample from the 2-foot depth at SB-P4-1. The depth to water ranged from 6.0 feet below surface at locations immediately south of the Phase IV boundary to 6.5 – 7 feet below surface in the north-central portion of the Phase IV area. Soils encountered at the site were described as primarily fine sand or silty fine sand. Soil boring logs are provided in Appendix A. Soil samples were containerized, placed on ice, and delivered under chain-of-custody procedure to SunLabs, Inc. in Tampa, Florida.

#### Soil Sampling for Evaluation of Wetland Impacts

On April 9, 2009, two soil samples were collected from the vicinity of a wetland located to the north of the Phase I area of the landfill. The wetland investigation was proposed to consist of collecting two groundwater samples and two soil samples. One set of soil/groundwater samples (Temp Well #1) was collected from within a wetland area located due north of the Phase I portion of the landfill. The second set of soil/groundwater samples (Temp Well #2) were collected in an upland area downgradient of the wetland. The soil samples were collected from a depth of two feet and were analyzed for arsenic and iron. The investigation of arsenic/iron soil and groundwater impacts at existing (un-filled) wetlands near the landfill will be compared with the data collected from Phases III and IV, where historical (now filled-in) wetlands were known to exist. The locations of Temp Well #1 and Temp Well #2 are shown on Figure 4-1.





CENTRAL COUNTY SOLID WASTE DISPOSAL COMPLEX

SOIL SAMPLING LOCATIONS IN THE PHASE IV AREA

4-3

#### 4.2 Groundwater Sampling

Groundwater investigations were conducted with three primary goals: 1) to determine the extent of arsenic impacts to groundwater in the Phase II, Phase III, Phase IV areas, and selected background locations, 2) to sample for other parameters that may be associated with RD (such as iron, ammonia, etc.), and 3) to determine the groundwater flow pattern within the Phase II, Phase III, and Phase IV areas. The groundwater investigations included sampling and analysis of groundwater from existing permanent monitoring wells, installation of temporary monitoring wells, and sampling and analysis of groundwater from the temporary monitoring wells. These groundwater investigations were conducted primarily during two time periods: the initial investigations were conducted primarily in July 2008, while the follow-up investigations were conducted in April 2009. Groundwater flow data are discussed in Section 4.4.

#### 4.2.1 Temporary Monitoring Well Installation Procedures

As of 2008, the CCSWDC had ten existing permanent monitoring wells that were periodically sampled for arsenic and other parameters (MW-1R, MW-8A, MW-9, MW-10R, MW-11R, MW-12R, CW-8A, CW-9, CW-10R, and CW-11R). These wells primarily surrounded the immediate perimeter of the Phase I area (active landfill cells) on its north, south, and west sides. During January 2009, MW-11R, MW-12R, and CW-11R were abandoned due to the need to construct additional landfill cells at Phase II.

In 2008, it was determined that groundwater quality data for the nearby areas of Phase II, Phase III, Phase IV, and selected background locations, would be needed. During the initial groundwater investigation activities in July 2008, twenty temporary monitoring wells were installed at the representative locations shown on Figure 4-4. One piezometer (PZ-2A) was also installed, using a hand auger, to the north of Phase I to a depth of approximately 4.5 feet. Sixteen of the wells installed in July 2008 were shallow temporary wells installed to a depth of approximately 15 feet BLS. Four deeper temporary monitoring wells were installed to a depth of approximately 20 feet BLS.

During the follow-up investigations in April 2009, 15 additional, primarily shallow, temporary monitoring wells were installed. The wells installed during the follow-up phase of investigation are shown in Figure 4-5. The installation methodologies for the shallow and deeper monitoring wells are described separately below.

### **Shallow Temporary Monitoring Well Installations**

From July 15 through July 18, 2008, PBS&J mobilized to the landfill site to install 16 temporary monitoring wells using a truck-mounted hollow-stem auger rig. Each of the shallow monitoring wells except GW-2 was installed to a depth of approximately 15.3 feet below land surface. These monitoring wells consisted of a ten-foot section of a PVC Schedule 40 riser (with five feet sticking up above grade), a ten-foot section of 0.010 PVC Schedule 40 well screen, and a 4-inch





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**GROUNDWATER WELL LOCATIONS - 2008** 

**FIGURE** 



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GROUNDWATER WELL LOCATIONS - 2009

**FIGURE** 

4-5

PVC well point at the bottom. 20/30 silica sand was placed into the annulus of the borehole as a filter pack from the bottom of the borehole to a depth of 3 feet. Two feet of fine (30/65) sand was placed over the 20/30 sand pack as a seal, and native soil was used to backfill the well to the surface. Since GW-2 was installed in an area with a substantially higher water table depth (approximately 3.5 feet BLS), this well was completed to a depth of approximately 13.3 feet BLS. The sand filter pack and sand seal in GW-2 are therefore at correspondingly shallower depths.

Each well was completed with a 5-foot section of stick-up PVC riser and a locking well cap. Since these wells are intended to be temporary, no Portland cement was used, no metal cover was installed, and no cement pad was constructed. The well installation equipment was steam cleaned after installation of the temporary monitoring wells. Each temporary monitoring well was developed for approximately 30 minutes to 60 minutes using a Honda surface pump or a Whale submersible pump. Each well was developed until the water produced by the well was relatively clear, with minimal turbidity.

From April 7 through April 10, 2009, PBS&J returned to the landfill to install 15 additional temporary monitoring wells using a truck-mounted hollow-stem auger rig. Due to the wide range of water table depths encountered at the site, the average depth of these wells was 15 feet, but the well depths ranged from 12 feet to 20 feet. Each well was constructed with 10 feet of screen, to the following depths: 12.3 feet (GW-17 and GW-19), 13.3 feet (GW-21, 22, 23, 24, 25, 30, and 31), 15.3 feet (GW-18, 26, 27, and 29), 18.3 feet (GW-28), and 20.3 feet (GW-20). Monitoring well construction diagrams and soil boring logs for all temporary monitoring wells (both shallow and deeper) installed in July 2008 and April 2009 are provided in Appendix B. The monitoring wells were allowed more than three days to stabilize prior to sampling.

#### **Deeper Temporary Monitoring Well Installations**

From July 16 through July 18, 2008, PBS&J also installed four deeper temporary monitoring wells using a truck-mounted hollow-stem auger rig. These temporary monitoring wells were installed in response to a comment from FDEP, dated June 27, 2008, which recommended collection of groundwater data representative of the deeper portion of the surficial aquifer. As the surficial aquifer in this area was estimated by Ardaman & Associates, Inc. to be between 15 and 20 feet thick, a separate screen depth of 15 to 20 feet BLS was selected for these wells (to differentiate these wells from the shallower wells). DGW-1, designated as a background deeper well, was located in the area to the north of the active landfill cells. DGW-2 was installed near CW-9, which had the highest concentrations of arsenic detected in the shallower portion of the surficial aquifer (based on pre-July 2008 sampling data). DGW-3 and DGW-4 were installed to obtain representative samples of the deeper surficial aquifer groundwater in the Phase II area.

Each of the deeper temporary monitoring wells was installed to a depth of approximately 20.3 feet below land surface. The deeper temporary monitoring wells consisted of a 20-foot section of a PVC Schedule 40 riser (with five feet sticking up above grade), a five-foot section of 0.010

PVC Schedule 40 well screen, and a 4-inch PVC well point at the bottom. 20/30 silica sand was placed into the annulus of the borehole as a filter pack from the bottom of the borehole to a depth of 13 feet. Two feet of fine (30/65) sand was placed over the 20/30 sand pack as a seal, and native soil was used to backfill the well to the surface. The deeper temporary monitoring wells were completed and developed in the same manner as the shallow wells discussed above.

Table 4-1 provides a summary of well construction information for all of the monitoring wells (permanent and temporary) that were sampled during the CE and SAR field activities. It should be noted that shallow temporary monitoring wells GW-1 through GW-8 and deeper temporary monitoring wells DGW-3 and DGW-4 were abandoned in January 2009, prior to the landfill cell construction activities at Phase II.

#### 4.2.2 Groundwater Sampling Procedures

Four groundwater sampling tasks were conducted at the landfill site as part of the CE and SAR activities. On April 22, 2008, four of the existing monitoring/compliance wells (MW-1R, CW-8A, CW-9, and CW-11R) were sampled and analyzed for speciation of arsenic. From July 28 through July 31, 2008 (the second task), all 10 existing monitoring/compliance wells and all 20 temporary monitoring wells were sampled. These wells were sampled for the following constituents: arsenic, iron, manganese, sodium, chloride, sulfate, ammonia-nitrogen, nitrate-nitrogen, total alkalinity, total organic carbon (TOC), and TDS. Selected temporary monitoring wells were also sampled for speciation of arsenic. For the July 2008 and all subsequent sampling activities, field readings from groundwater samples were taken for ORP and Ferrous Iron (Fe 2+) at all sampled wells.

The third groundwater sampling task was performed on April 15 and 16, 2009. During this sampling event, groundwater samples from temporary wells, including five new temporary monitoring wells, in Phase III and the Western Zone (west of the Phase II construction zone) were collected for analysis of arsenic, iron, ammonia, TDS, ORP, and Fe 2+. These wells were sampled in this manner because the western extent of the groundwater arsenic "plume" was not completely delineated during the 2008 investigations. Specifically, the area west of temporary wells GW-5 and GW-7 within Phase II had not been delineated with respect to the GCTL for arsenic (10 ug/L). In addition, the FDEP was interested in obtaining additional groundwater flow and groundwater quality data from the area of Phase III.

The fourth groundwater sampling task was performed on April 22 and 23, 2009. This sampling event was needed because the elevated arsenic concentrations that were found at temporary monitoring well GW-16 (and, to a much lesser extent, at GW-11) had not been delineated to the east and south of Phase IV. PBS&J collected groundwater elevation data and groundwater samples from the existing temporary wells and from 10 new temporary investigation wells placed at the locations illustrated in Figure 4-5. These wells were sampled to aid in fully delineating the area of arsenic impacts and to obtain ORP data for this area. Each of the temporary monitoring wells in the Phase IV area was sampled for arsenic, iron, TDS, and ammonia-nitrogen. In addition, representative samples were collected from selected temporary monitoring wells in



order to compare the following parameters with the results from 2008: TOC, alkalinity, nitrate-nitrogen, manganese, chloride, sodium, and ssulfate. It should be noted that none of the remaining permanent monitoring wells were sampled during the April 2009 sampling events because these wells are sampled on a regular basis by the County, which provides these data to the FDEP. PBS&J reviewed the County's most recent results for these wells to assist with development of isopleths contours.

On April 9, 2009, groundwater from shallow, temporary monitoring wells installed in and near the wetlands to the north of the landfill was also sampled. These wells were sampled in order to determine if impacts from native wetlands were contributing to elevated arsenic concentrations in groundwater. Temp Well #1 and Temp Well #2 were sampled for arsenic, iron, ORP, and Fe 2+. The sampling results from these wells were used to determine if a RD environment exists in a naturally occurring area that is not being affected by man-induced surface activities.

During each sampling event, and after water level measurements were obtained, purge volumes were calculated for each of the monitoring wells. Prior to groundwater sample collection at each permanent monitoring well, the wells were purged with dedicated bladder pumps (and dedicated tubing), using the "low flow" technique. Similarly, the temporary monitoring wells were purged with a peristaltic pump (and dedicated tubing), using the "low flow" technique. A minimum of one to three well volumes was purged from each well prior to sample collection. Purging continued until pH, conductivity, temperature, dissolved oxygen, and turbidity values stabilized, indicating recharge from formation water. The groundwater samples were collected by using either the bladder pump or peristaltic pump and dedicated tubing. Groundwater Sampling Logs are provided in Appendix C.

It should also be noted that filtered metals samples were collected at selected monitoring wells if there was a concern that turbidity could impact the metals analytical results. At wells for which the final turbidity reading was greater than 9 – 10 NTU, filtered metals samples were collected in addition to total metals samples. The filtered metals sample was passed through a 1 micron filter prior to collection in the sample bottle. The wells that had final turbidity readings greater than 9-10 NTU during 2008 included: MW-1R, GW-2, GW-4, GW-6, GW-7, GW-11, GW-13, DGW-3, and DGW-4. The wells that had final turbidity readings greater than 9-10 NTU during 2009 included: GW-9, GW-11, GW-20, GW-22, GW-35, GW-27, and GW-30.

Groundwater samples for TOC were collected in 40-ml glass vials. Groundwater samples for all other constituents were collected in plastic bottles (with or without preservative, as dictated by the type of constituent). Duplicate samples were also collected. Groundwater samples for all constituents except speciated arsenic were documented, appropriately preserved, stored on ice, and delivered under chain-of-custody procedure to SunLabs, Inc. in Tampa, Florida, for analysis. Sampling protocol was in general accordance with PBS&J's Quality Manual and with FDEP Standard Operating Procedures. The samples collected for arsenic speciation were appropriately preserved, stored on ice, and delivered under chain-of-custody procedure to Applied Speciation & Consulting, LLC, in Tukwila, Washington, for analysis.

#### 4.3 Surface Water Sampling

In order to examine if groundwater-related arsenic impacts were intercepting or migrating towards surface water bodies, samples from several surface water bodies were collected. In April 2009, surface water samples were collected from nine locations in and around the CCSWDC vicinity. Samples were collected from Ponds 1 through 7 on the landfill site and from two locations along the Myakka River, east of the landfill property. Figure 2-2 shows the locations of the ponds with respect to the phases of the landfill. The surface water samples were analyzed for arsenic and iron.

In general, the surface water samples were collected using a peristaltic pump and dedicated tubing in accordance with FDEP SOP 001/01, Section FS 2110, 1.2.3. The tubing was placed as close to the middle of the pond as possible, at mid-depth. The water was purged at a rate of one liter per minute for 15 minutes. Thereafter, readings of temperature, Ph, conductivity, dissolved oxygen, and turbidity were collected every five minutes. ORP readings and Fe 2+ concentration data were also collected. Once the readings had stabilized, the surface water samples were collected in plastic jars provided by the laboratory. Due to logistical issues, the duplicate samples from Pond 1 and Pond 2 (Grabdup 1 and Grabdup 2) and the samples from the Myakka River (Myakka-1 and Myakka-2) were not collected in the above-referenced manner. These samples were collected by direct transfer of the pond or river water, at mid-level depth, to the laboratory-provided containers. Surface water sampling logs are provided in Appendix D.

#### 4.4 Groundwater Flow Evaluation

Previous studies of the CCSWDC vicinity have indicated that the general direction of surficial aquifer groundwater flow was toward the southwest or west-southwest. However, within the immediate area of the Phase I and Phase II portions of the landfill site, there are substantial seasonal variations in groundwater flow direction. Ardaman & Associates, Inc. (2008) collected monthly groundwater level data from October 2006 through October 2007 at eight monitoring well locations, six piezometers, and two surface water locations located primarily in the Phase I and Phase II areas. During a typical month during the dry season (April 2007, for example), groundwater flow was generally toward the north across the Phase I area, but the flow was from north to south across the northern portion of Phase II, then westward from the central portion of Phase II. During a typical month during the wet season (August 2007, for example), the groundwater appeared to flow from northwest to southeast across the Phase I area, but flows from the north and east toward the southwest across the Phase II area.

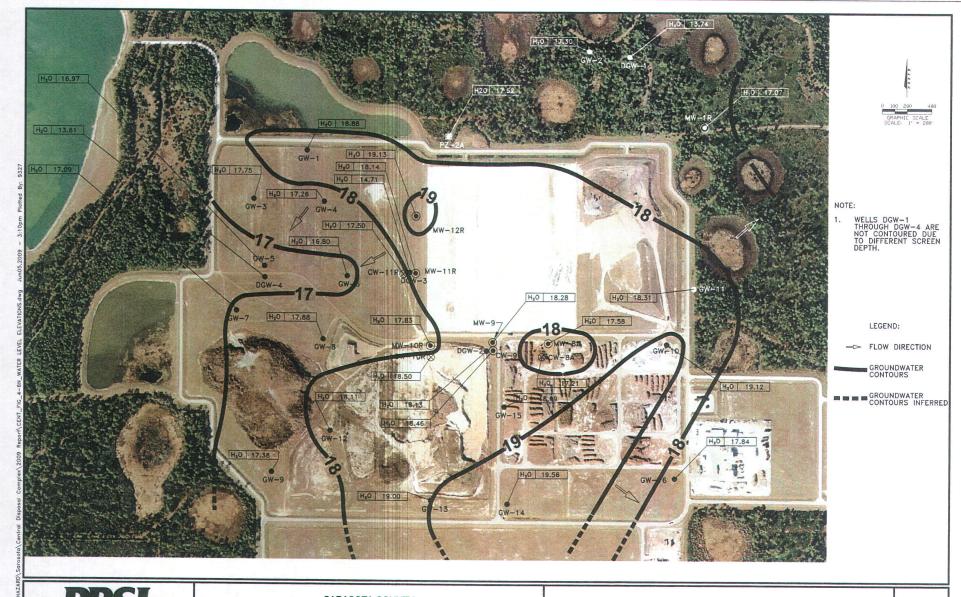
From July 28 through July 31, 2008, PBS&J collected water level data for all of the existing monitoring wells, compliance wells, and temporary monitoring wells in the Phase I, Phase II, Phase III, and Phase IV portions of the site. The temporary monitoring wells were surveyed to obtain the top-of-casing elevations. The survey was conducted with reference to US State Plane Coordinated (Zone – Florida west) and to NGVD of 1929. Water table elevations were also measured on September 12, 2008. The water level contour map based on the July 2008 data is provided as Figure 4-6. Water level data for September 2008 are provided as Figure 4-7. Groundwater flow direction was generally toward the west and southwest, with localized areas of

depressed water table elevations in the Phase II area and localized zones of higher water table elevations elsewhere. Table 4-2 provides the groundwater elevation data for July 2008, and Table 4-3 provides the groundwater elevation data for September 2008.

After the additional 15 temporary monitoring wells were installed in the Phase III and Phase IV areas in April 2009, water level data were collected for these wells and the corresponding nearby temporary and permanent monitoring wells. Top-of-casing elevations for the new wells were surveyed to the same NGVD reference as July 2008. Water level data for April 2009 are provided as Figure 4-8. Table 4-4 provides the groundwater elevation data for April 2009.

In the area of Phase IV, the water table data for April 2009 show a significant groundwater flow direction toward the southeast.





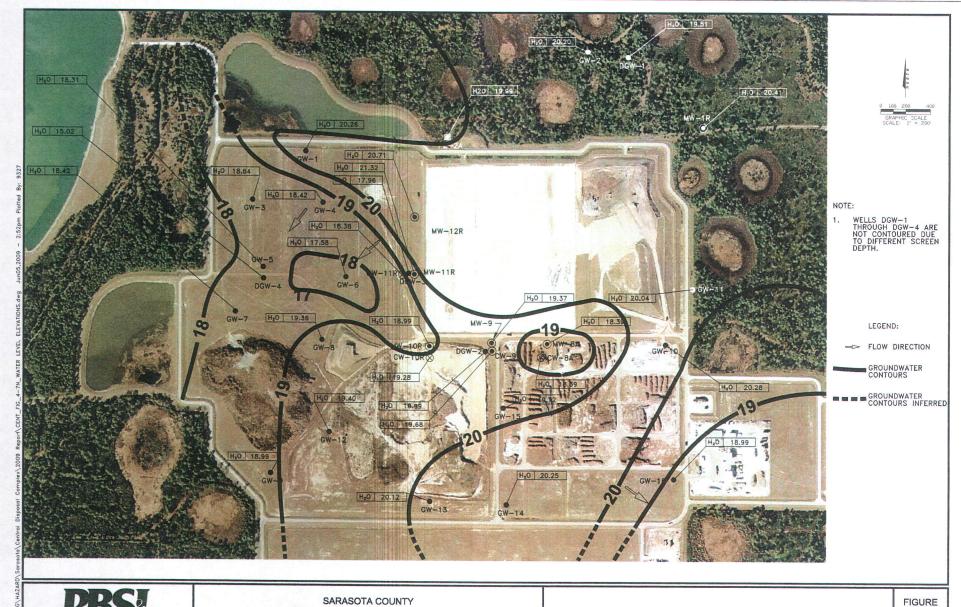
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WATER LEVEL ELEVATIONS IN GROUNDWATER WELLS JULY 2008

**FIGURE** 

4-6

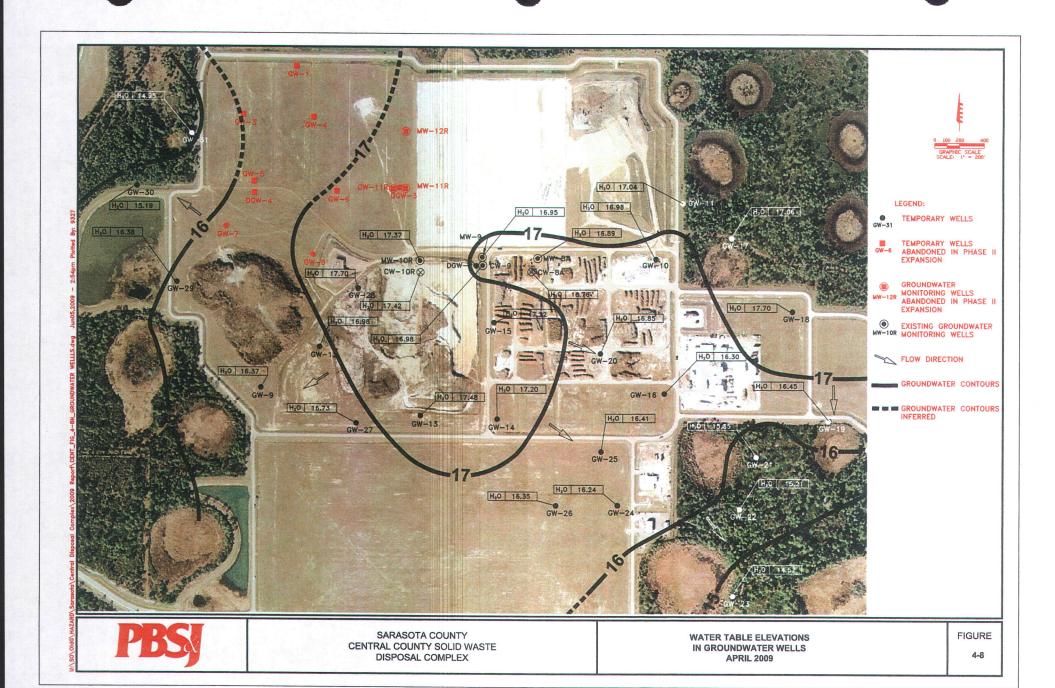


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WATER LEVEL ELEVATIONS IN GROUNDWATER WELLS SEPTEMBER 2008

IGURE



# 5.0 FIELD INVESTIGATION RESULTS

#### 5.1 Surficial Aquifer Hydrogeology

Groundwater flow data were discussed in detail in Section 4.4. With respect to the dispersal and migration of groundwater contaminants, such as arsenic and ammonia, the landfill area appears to be located on a local groundwater divide. The surficial aquifer appears to flow primarily to the north and east from the Phase I area, and towards the east and southeast from the Phase IV area. The groundwater appears to flow in a prominently westerly direction from the Phase II and Phase III portions of the landfill. The axis of the groundwater divide appears to run from the northeastern portion of Phase III to the central portion of Phase I. Refer to Figure 4-8 for the groundwater elevation data for 2009.

#### 5.2 Degree and Extent of Impact To Soil

#### 5.2.1 Soil Arsenic Speciation Results

The results of the soil sampling activities for arsenic speciation performed in April 2008 are summarized below and in the table on Page 5 of Appendix E. The laboratory analytical report is also provided as Appendix E. Refer to Figure 4-1 for the soil boring locations. The speciation of the arsenic was examined in order to relate the arsenic found in site groundwater and soils against possible surface (soil) sources of contamination on the site such as pesticide/herbicides from yard mulch and historical cattle dip vat sources and other on-site areas of stockpiled material. The soil sampling results are presented as a breakdown of three primary inorganic arsenic spatial distribution features: total arsenic, arsenic (arsenate) and arsenic (arsenite). In conjunction with the three primary inorganic speciation features, two secondary features, DMA and MMA, were also evaluated to determine their respective presence in the sample matrices. DMA and MMA are methylated arsenical metabolites found in herbicides to treat lawns and citrus. The detected presence of these constituents (DMA/MMA) would lend this evaluation an ability to trace arsenic sources back to potential (unknown) surface sources such as above-ground storage of yard waste and other received organic waste matter. The soil sampling results indicated that the DMA and MMA were not detected at concentrations greater than their laboratory detection limits (0.030 mg/kg).

The reason to speciate arsenic was to determine what was sorbed (or bound) to the soil particles verses which percentage would be available for desorbing into solution and thus, help identify potential arsenic mobility. It should be noted that, at each soil boring location, the Total Arsenic samples were collected as composite samples from depths of two feet to the depth of the water table, whereas the speciated arsenic samples were collected as grab samples from just above the water table. During the initial soil sampling activities, the sampling depths for the speciated arsenic specifically targeted the area of the soil/groundwater interface, while the Total Arsenic samples were collected only to obtain a general profile of the arsenic concentrations at that location. Therefore, the speciated arsenic concentrations cannot be expected to equal the Total Arsenic concentration at any given location.

The soil samples collected for Total Arsenic during this event indicated the following results:

	Sample	Total Arsenic
	Mulch A Sample	3.01 mg/kg
•	SB-1R-1	0.93 mg/kg
•	SB-8A-1	1.36 mg/kg
•	SB-8A-2	0.40 mg/kg
•	SB-9-1	0.76 mg/kg
•	SB-9-2	2.59 mg/kg
•	SB-11R-1	0.61 mg/kg
•	SB-11R-2	1.37 mg/kg
•	SB-11R-3	27.8 mg/kg
•	SB-CDV-1	0.53 mg/kg
•	SB-CDV-2	2.04 mg/kg

Of the soil grab samples collected, the following speciated arsenic results were found:

	Sample	Arsenic (III)	Arsenic (V)
•	Mulch A Sample	<0.022 mg/kg	0.15 mg/kg
-	SB-1R-1	0.05 mg/kg	0.20 mg/kg
=	SB-8A-1	0.14 mg/kg	0.19 mg/kg
	SB-8A-2	0.09 mg/kg	0.10 mg/kg
	SB-9-1	0.27 mg/kg	0.66 mg/kg
•	SB-9-2	0.69 mg/kg	3.01 mg/kg
•	SB-11R-1	0.31 mg/kg	0.52 mg/kg
•	SB-11R-2	0.10 mg/kg	0.16 mg/kg
•	SB-11R-3	1.87 mg/kg	8.05 mg/kg
	SB-CDV-1	<0.022 mg/kg	0.23 mg/kg
-	SB-CDV-2	<0.022 mg/kg	0.09 mg/kg

The initial speciation results indicated that the predominant species of arsenic in the soil samples was of the arsenic (V) arsenate type (for those soil samples that had more than trace amounts of arsenic). This particular species of arsenic is the type that tends to sorb to soil/sediment particles and does not readily desorb or migrate while in solution in the groundwater.

In April 2009, soil samples from representative locations and depths from the Phase IV area were also submitted for arsenic speciation analysis. The complete sampling results for the samples from the Phase IV area are provided in Table 5-1. The laboratory analytical report is provided as Appendix F. As can be seen from the results listed below, arsenic concentrations were generally so low that no significant conclusions could be made regarding the relative predominance of either form of arsenic.

# 5.0 Field Investigation Results

Sample	Arsenic (III)	Arsenic (V)
SB-P4-1-2	0.029	ND
SB-P4-2-2	0.029	0.71
SB-P4-3-4	ND	ND
SB-P4-4-4	ND	ND
SB-P4-5-2	0.028	ND
SB-P4-5-6	0.125	ND
SB-P4-6-6	0.055	ND
SB-P4-7-6	ND	ND
SB-P4-8-4	0.285	0.22
SB-P4-8-6	0.132	ND
SB-P4-11-6	ND	ND
SB-P4-12-6	0.49	ND

#### 5.2.2 Soil Analytical Results

Standard laboratory analysis (not speciation) was performed on samples from the Phase II and Phase IV areas of the landfill. The primary objective of the soil analytical sampling in the Phase II area was to delineate any areas of elevated arsenic concentrations in the soil near CW-11R. The primary objective of the sampling in the Phase IV area was to identify any areas of elevated arsenic. A secondary objective for sampling in both areas was to determine if other constituents in the soil/sediments could lead to chemically reductive conditions that may result in dissolution of arsenic and other pertinent chemicals in the site's groundwater. To this end, iron and total nitrogen were also analyzed. Chromium, copper, and lead analyses were added to the analytical suites to aid in determining if Chromated Copper Arsenate (CCA) treated wood or herbicides and pesticides could be considered a potential source of the arsenic from the yard waste and mulch piles in the Phase IV area. SPLP extraction and analysis for nitrate and ammonia were added to both the Phase II and Phase IV sampling events to aid in determining if these constituents were present as a result of reductive chemistry conditions, or could be contributing to them.

#### Soil Sampling Results from the Phase II Area

Sampling of the Phase II area was performed on May 21, 2008. Table 5-2 provides the results (non-SPLP) of the May 21, 2008 soil sampling activities. Table 5-3 provides the results of the analyses using SPLP extraction. Table 5-4 provides the results of re-sampling at the location of SB-11-3, which was conducted separately from the other sampling. Refer to Figure 4-2 for the soil boring locations. The laboratory analytical reports are provided as Appendix G.

Arsenic concentrations detected during the Phase II area soil sampling activities ranged from below detection limits (0.22 mg/kg) to 4.3 mg/kg. At 4 of the 39 locations (10%), the arsenic concentrations were greater than the Residential Soil Cleanup Target Level (SCTL) of 2.1 mg/kg. These locations/depths were SB-11R-3-6 (4.3 mg/kg), SB-11R-8-2 (3.8 mg/kg), SB-11R-10-2 (2.2 mg/kg), and SB-11R-14-6 (3.2 mg/kg). The concentrations slightly exceeded the Residential

SCTL, but did not approach the Commercial/Industrial SCTL of 12 mg/kg. There did not appear to be any trend or pattern associated with these arsenic detections. Therefore, it does not appear that there is any significant or widespread surface "source" of arsenic-contaminated soil in the vicinity of SB-11R-3.

Concentrations of total iron in the soil from the Phase II area ranged from 16 mg/kg to 6,800 mg/kg. None of these samples exceeded the Residential SCTL for iron of 53,000 mg/kg. However, based on the historical background research and understanding of the hydrogeological conditions of this area, the presence of iron in the soil and sediments was recognized as a potential source for arsenic.

Concentrations of chromium in the soil from the Phase II area ranged from below detection levels (0.22 mg/kg) to 25 mg/kg. None of these samples exceeded the Residential SCTL for chromium of 210 mg/kg or the Leachability criteria of 38 mg/kg. Concentrations of copper in the soil ranged from below detection levels (0.066 mg/kg) to 1.3 mg/kg. None of these samples exceeded the Residential SCTL for copper of 150 mg/kg. Concentrations of lead in the soil ranged from below detection levels (0.22 mg/kg) to 3.8 mg/kg. None of these samples exceeded the Residential SCTL for lead of 400 mg/kg. The analytical results for chromium, copper, and lead appear to indicate that the soils in the Phase II area have not been adversely affected by activities, such as the use of CCA-treated wood or herbicides, which could also release arsenic into the soil.

Concentrations of total nitrogen in the soil from the Phase II area ranged from 32.8 mg/kg to 375 mg/kg. Nitrogen does not have SCTL criteria established. However, the presence of dissolved nitrogen can be used as a chemical marker for determining pronounced compositional differences in reductive chemical conditions in the groundwater. Groundwater nitrogen dynamics that proceed with a chemical pathway of denitrification, followed by ammoniafication, can provide empirical evidence in the shift of the speciation within the reductive zones.

As shown on Table 5-3, the SPLP sampling results from the Phase II area did not indicate any significant concentrations of constituents that could be contributing impacts to site groundwater. At one location (SB-11R-4-2), the SPLP leachate concentration for arsenic was 0.011 mg/l, which slightly exceeded the Groundwater Cleanup Target Level (GCTL) for arsenic of 0.01 mg/l. Concentrations of Nitrate in the leachate ranged from 2.0 mg/l to 2.4 mg/l. None of these Nitrate concentrations exceeded the GCTL for Nitrate of 10 mg/l. Concentrations of Ammonia in the leachate ranged from 0.21 mg/l to 0.51 mg/l. None of these Ammonia concentrations exceeded the GCTL for Ammonia (as Nitrogen) of 2.8 mg/l.

# Soil Sampling Results from the Phase IV Area

Sampling of the Phase IV area was conducted on April 28, 2009. Table 5-5 provides the results (non-SPLP) of the April 28, 2009 soil sampling activities. Table 5-1 provides the results of the analyses using SPLP extraction, along with the previously-discussed results for arsenic



speciation. Refer to Figure 4-3 for the soil boring locations. The laboratory analytical reports for this sampling event are also provided as Appendix G.

Arsenic concentrations detected during the Phase IV soil sampling activities ranged from below detection limits (0.22 mg/kg) to 8.9 mg/kg. At 3 of the 36 locations (8%), the arsenic concentrations were greater than the Residential Soil Cleanup Target Level (SCTL) of 2.1 mg/kg. These locations/depths were SB-P4-1-6 (3.8 mg/kg), SB-P4-3-2 (3.0 mg/kg), and SB-P4-5-6 (8.9 mg/kg). The concentrations exceeded the Residential SCTL, but did not approach the Commercial/Industrial SCTL of 12 mg/kg. As with the results from the Phase II area, there does not appear to be any trend or pattern associated with these arsenic detections. As with the Phase II area, it did not appear that there was any significant or widespread surface "source" of arsenic-contaminated soil in the Phase IV area.

Concentrations of total iron in the soil from the Phase IV area ranged from 73 mg/kg to 6,800 mg/kg. None of these samples exceeded the Residential SCTL for iron of 53,000 mg/kg. As with the Phase II area, the presence of iron in the soil and sediments was recognized as a potential source for arsenic.

Concentrations of chromium in the soil from the Phase IV area ranged from below detection levels (0.24 mg/kg) to 24 mg/kg. None of these samples exceeded the Residential SCTL for chromium of 210 mg/kg or the Leachability criteria of 38 mg/kg. Concentrations of copper in the soil ranged from below detection levels (0.068 mg/kg) to 1.1 mg/kg. None of these samples exceeded the Residential SCTL for copper of 150 mg/kg. Concentrations of lead in the soil ranged from 0.67 mg/kg to 2.6 mg/kg. None of these samples exceeded the Residential SCTL for lead of 400 mg/kg. As with the Phase II soil sampling results, the analytical results for chromium, copper, and lead appear to indicate that the soils in the Phase IV area have not been adversely affected by activities, such as the use of CCA-treated wood or herbicides, which could also release arsenic into the soil. This is an especially significant result in the Phase IV area due to the immediate proximity of piles of wood mulch.

Concentrations of total nitrogen in the soil from the Phase IV area ranged from 660 mg/kg to 3,700 mg/kg. The nitrogen concentrations in the Phase IV area were roughly an order of magnitude greater than those from the Phase II area. These elevated nitrogen concentrations may be related to the presence of yard waste and mulch being stored (and presumably leaching into) the Phase IV area. The elevated nitrogen concentrations may reflect the contribution of leaching of the mulch piles, which may be causing an increase of nitrogen and other constituents (including organic carbon) in the Phase IV area. This possible additional source of organic carbon in the Phase IV area may explain a more robust RD condition at this locationleading to elevated arsenic groundwater concentrations at GW-15 and GW-16. The County is currently funding additional research by the University of Florida to determine if there is, in fact, a relationship between availability of organic carbon and the rate of the reductive dissolution process.



As shown on Table 5-1, the SPLP sampling results from the Phase IV area did not indicate any significant concentrations of constituents that could be contributing impacts to site groundwater. At one location (SB-P4-12-6), the SPLP leachate concentration for arsenic was 0.010 mg/l, which is equal to the Groundwater Cleanup Target Level (GCTL) for arsenic of 0.01 mg/l. Concentrations of Nitrate in the leachate ranged from 1.8 mg/l to 2.3 mg/l. None of these Nitrate concentrations exceeded the GCTL for Nitrate of 10 mg/l. Concentrations of Ammonia in the leachate ranged from 0.051 mg/l to 0.580 mg/l. None of these Ammonia concentrations exceeded the GCTL for Ammonia (as Nitrogen) of 2.8 mg/l.

When viewed separately, as far as the constituent's individual leaching potential (and its ability to mobilize in groundwater through contact with rainwater runoff and hydraulic mobilization), the SPLP results provide a useful indication that mobility by contact with stormwater itself is not a mechanism for leaching arsenic and iron from the soils. If the pathways and routes of mobility are examined within the context of the hydrogeochemical factors in the landfill's groundwater, the relationship is better understood between the chemical cycling of elements, such as iron, and the reductive speciation of arsenic in an overall reducing environment.

#### Soil Sampling Results from the Wetland Investigation

Soil samples were collected from two locations on and near a wetland area to the north of the Phase I portion of the landfill (see Figure 4-1). The soil sample results from these samples (Temp Well #1 – in the wetland; and Temp Well #2 – in the upland) did not identify any significant concentrations of arsenic or iron. Arsenic concentrations were less than laboratory detection limits (0.25 mg/kg). Iron concentrations were 240 mg/kg and 550 mg/kg, respectively, for Temp Well #1 and Temp Well #2. These concentrations are well below the Residential SCTL for iron (53,000 mg/kg) and were also in the low range when compared to the results of sampling for iron from the Phase II and Phase IV areas of the landfill. Laboratory analytical data sheets for the Temp Well #1 and Temp Well #2 soil samples are provided in Appendix G.

#### 5.3 Degree and Extent of Impact To Groundwater

#### **5.3.1 Groundwater Arsenic Speciation Results**

Groundwater sampling for arsenic speciation was performed in April 2008, July 2008, and April 2009. The groundwater sampling results for arsenic speciation is presented as a breakdown of two primary inorganic arsenic distribution features: arsenic (arsenate) and arsenic (arsenite). In conjunction with these two primary inorganic speciation features, two secondary features, dimethylarsinic acid (DMA) and monomethylarsinic acid (MMA), were also evaluated to determine their respective presence in the sample matrices.

DMA and MMA are methylated arsenical metabolites found in herbicides to treat lawns and citrus. The detected presence of these constituents (DMA/MMA) would lend this evaluation an ability to trace arsenic sources back to potential (unknown) surface sources such as above-ground storage of yard waste and other received organic waste matter. The groundwater sampling results indicated that the DMA and MMA were not detected at concentrations greater than their



laboratory detection limits except at CW-11R, GW-5, GW-10, and GW-15. It should be noted that samples for Total Arsenic were not collected during the initial arsenic speciation sampling of the groundwater because Total Arsenic data were available from previous quarterly and semi-annual sampling events (reported to FDEP elsewhere).

The results of the groundwater sampling in April 2008 were as follows:

<u>Sample</u>	Arsenic III (µg/L)	Arsenic V (µg/L)	DMA (μg/L)	MMA (µg/L)
MW-1R	0.28	0.44	< 0.087	< 0.087
CW-8A	21.7	13.1	< 0.087	< 0.087
CW-9	36.0	26.6	< 0.087	< 0.087
CW-11R	16.2	12.4	0.14	< 0.087

The results of the groundwater sampling of selected temporary monitoring wells for speciation analysis in July 2008 are provided in Table 5-6. The temporary monitoring wells selected for speciation analysis in July 2008 were chosen based on their proximity to the Phase II area and their close proximity to the southern boundary of Phase I. The laboratory analytical reports for the April 2008 sampling event were included with the soil results in Appendix E. The laboratory reports for the July 2008 sampling event (speciation results only) are provided in Appendix H. As shown in Table 5-6, at the locations sampled that had elevated arsenic concentrations, the form of arsenic tended to favor the Arsenic III species, the form of arsenic more readily available to go into solution. The lack of any significant amount of DMA or MMA leads us to conclude that no man-made source of arsenic is present.

The results of the groundwater sampling of selected temporary monitoring wells for speciation analysis in April 2009 are provided in Table 5-7. The temporary monitoring wells selected for speciation analysis in April 2009 were chosen based on their proximity to GW-15 and GW-16, which had highest arsenic concentrations from the July 2008 sampling event. The laboratory reports for the April 2009 sampling event (speciation results only) are provided in Appendix I. The results from the April 2008, July 2008, and April 2009 sampling events showed a cross section of speciated arsenic (III & V) in the groundwater. However, it should be noted that Arsenic (III) arsenate was the dominant species of arsenic (by roughly a 3:1 margin) in GW-14, GW-15, and GW-16, which had the highest arsenic concentrations from sampling of the Phase IV area.

# 5.3.2 Groundwater Analytical Results

As discussed in Section 4.2.2, the groundwater sampling effort was divided into four primary tasks. The results from the initial sampling for arsenic speciation (Task 1) were discussed above. The remaining tasks completed were: initial sampling of temporary monitoring wells in July 2008 (Task 2), sampling of existing and additional temporary monitoring wells in the Phase III area in April 2009 (Task 3), and sampling of existing and additional temporary monitoring wells



in the Phase IV area in April 2009 (Task 4). A limited scope task to determine the concentration of arsenic in existing (not filled-in) wetlands was also performed in April 2009.

### Results of Initial Groundwater Sampling in 2008

Laboratory analytical reports for the groundwater samples collected in July 2008 are provided in Appendix J. Table 5-6 summarizes the results for all parameters detected in the groundwater samples during July 2008. As shown in Table 5-6, several constituents were detected at concentrations that exceeded their reported detection limits. Of these, the following parameters were found to exceed State groundwater criteria (GCTLs, per Chapter 62-777 FAC and Chapter 62-550 FAC): arsenic, iron, manganese, Ammonia (as Nitrogen), chloride, sodium, sulfate, and pH. Figure 5-1 illustrates the concentrations of arsenic detected during the July 2008 sampling event. Figure 5-2 illustrates the concentrations of iron, arsenic, ammonia, and ORP. The concentrations of ORP and what meaning it has for the SAR are discussed in the next section.

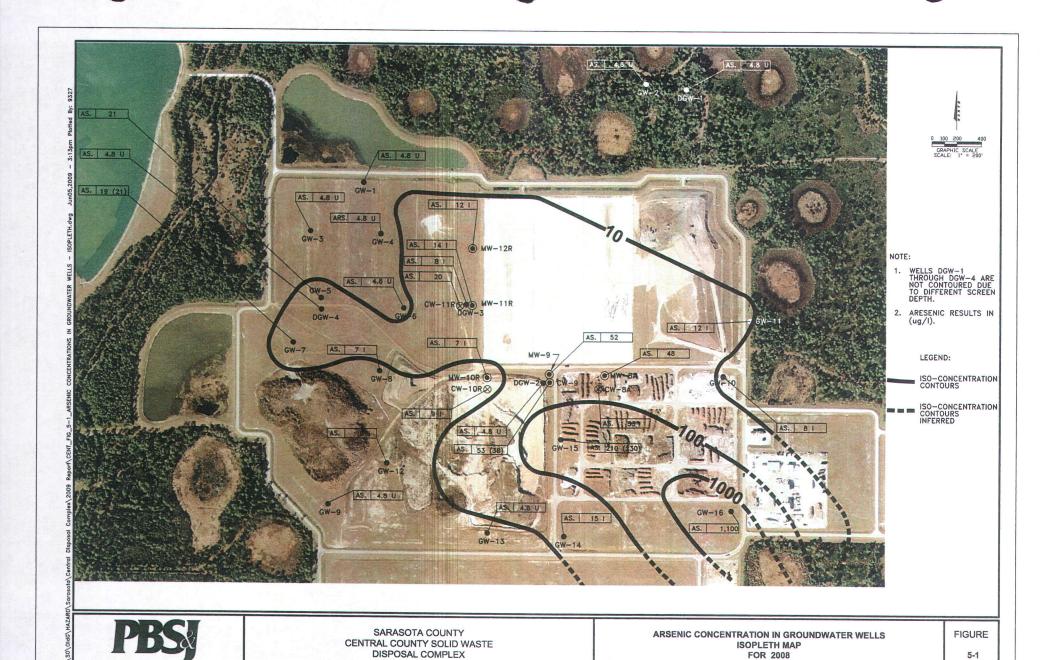
Arsenic concentrations detected during the July 2008 groundwater sampling activities ranged from below detection limits (4.8 ug/l) to 1,100 ug/l. At 13 of the 30 sampling locations, the arsenic concentrations were greater than the GCTL of 10 ug/l. These locations were: MW-8A, MW-9, MW-11R, MW-12R, CW-8A, CW-9, CW-11R, GW-5, GW-7, GW-11, GW-14, GW-15, and GW-16.

Iron concentrations detected during the July 2008 groundwater sampling activities ranged from 190 ug/l (filtered sample for MW-1R) to 150,000 ug/l (at MW-8A). Iron was noted as exceeding State Secondary groundwater criteria of 300 ug/l at all groundwater sampling locations except DGW-1 (280 ug/l) and the filtered sample for MW-1R (190 ug/l). DGW-1 and MW-1R are considered to be "background" locations. Most iron concentrations also exceeded the NASDC for iron of 3,000 ug/l. Iron was noted in all but five of the groundwater samples as "detected in both the sample and the associated method blank". Although this suggests that the results may be adversely affected by laboratory conditions, the high iron concentrations found in most groundwater samples are consistent with the findings from previous groundwater sampling events in the vicinity of the landfill.

Manganese concentrations detected during the July 2008 groundwater sampling activities ranged from 4.6 ug/l to 110 ug/l (at GW-5). At 4 of the 30 sampling locations, the manganese concentrations were greater than the State Secondary groundwater criteria of 50 ug/l. These locations were: CW-10R, GW-5, GW-7 (duplicate), and GW-12.

Ammonia (as Nitrogen) concentrations detected during the July 2008 groundwater sampling activities ranged from 0.115 mg/l to 25.1 mg/l (at GW-16). At 10 of the 30 sampling locations, the Ammonia-N concentrations were greater than the State Secondary groundwater criteria of 2.8 mg/l. These locations were: MW-8A, MW-9, MW-10R, CW-8A, CW-9, CW-11R, GW-7, GW-12, GW-15, and GW-16.







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IRON , AMMONIA, ORP, AND ARSENIC VALUES IN GROUNDWATER WELLS FOR 2008

**FIGURE** 

5-2

Chloride concentrations ranged from 15 mg/l to 970 mg/l (at DGW-1). The chloride concentrations equaled or exceeded the State Secondary groundwater criteria of 250 mg/l at three locations. Sodium concentrations ranged from 14 mg/l to 460 mg/l (at GW-8). The sodium concentrations exceeded the GCTL of 160 mg/l at four locations. Sulfate concentrations ranged from less than detection limits (0.036 mg/l) to 470 mg/l (at GW-8). The sulfate concentrations exceeded the State Secondary groundwater criteria of 250 mg/l at three locations. The concentrations of Nitrate-N ranged from less than detection limits (0.014 mg/l) to 0.23 mg/l (duplicate for GW-15). These concentrations were less than the GCTL for Nitrate-N of 10 mg/l. Total dissolved solids were detected in all of the monitoring locations, and were greater than State Secondary criteria at 23 of the 30 sampling locations.

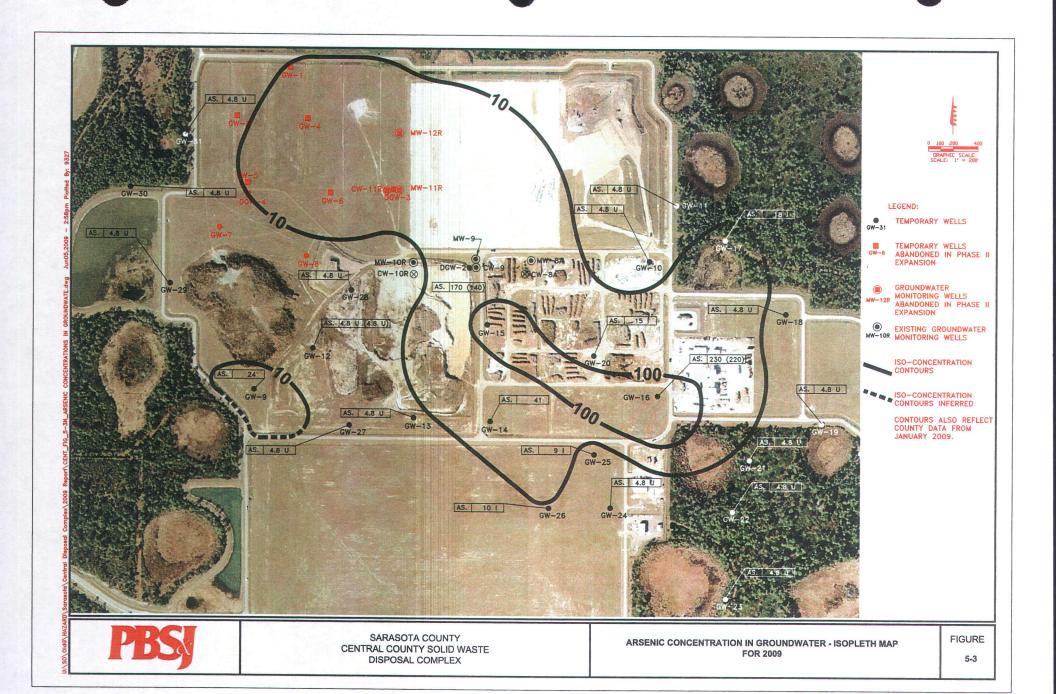
Due to the elevated turbidity (greater than 9-10 NTU) in some groundwater samples, filtered metals samples were collected at selected monitoring wells. Table 5-8 provides the results of the filtered metals analyses. In general, the results of the filtered samples were lower in metals concentrations than the unfiltered samples. With the exception of GW-2, Dup GW-7, and GW-11, iron concentrations in the filtered samples were found to be within a 10% to 20% variance of the associated unfiltered samples. At GW-2, Dup GW-7, and GW-11, the filtered iron concentrations were considerably lower then the unfiltered results. However, high iron concentrations were detected at most sampling locations regardless of whether the metals sample was filtered or unfiltered, suggesting a dissolved presence rather than a particulate one. It did not appear that sample turbidity had a significant influence on the overall sampling results.

Overall field measurements for several critical parameters related to RD were also recorded during the July 2008 sampling event. The most critical of these parameters were pH, ORP, and ferrous iron (Fe<sup>2+</sup>). The pH values were found to be lower than the State Secondary groundwater criteria of 6.5-8.5 Standard Units at 15 of the 30 sampling locations, with CW-8A having the lowest pH (5.44). ORP values ranged from +125 Mv at DGW-1 to -119 Mv at DGW-3. Ferrous iron concentrations ranged from 0.05 mg/l MW-1R and DGW-1 to 4.0 mg/l at GW-4.

# Results of Follow-up Sampling in the Phase III and Western Zone Areas

Laboratory analytical reports for all groundwater samples collected in April 2009 are provided in Appendix J. Table 5-9 summarizes the results for all parameters detected in the groundwater samples from temporary wells installed in the Phase III area and west of Phase II. Figure 5-3 illustrates the concentrations of arsenic detected during the April 2009 sampling events. Figure 5-4 illustrates the concentrations of iron, arsenic, ammonia, and ORP. As shown in Table 5-9, only GW-9, located in the southwestern portion of Phase III, had an arsenic concentration greater than laboratory detection limits. The concentration of arsenic in GW-9 was 24 ug/l, which exceeded the GCTL for arsenic of 10 ug/l. It should be noted that GW-9 is separated from the main arsenic-impacted area of the site (Phase IV) by groundwater locations that did not have detections of arsenic. Therefore, it appears that the elevated arsenic levels at GW-9 are an isolated "outlier" of arsenic-impacted groundwater, possibly due to favorable RD conditions at that particular location. It should also be noted that arsenic was not detected in GW-9 during the July 2008 sampling event.







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IRON, AMMONIA, ORP, AND ARSENIC VALUES IN **GROUNDWATER WELLS FOR 2009** 

Iron was detected in the Phase III area at concentrations ranging from 1,400 ug/l to 46,000 ug/l (at GW-9). TDS was detected at concentrations ranging from 596 mg/l to 1,180 mg/l (at GW-18). At all temporary monitoring wells sampled for this task, the iron and TDS concentrations exceeded their GCTLs of 300 ug/l and 500 mg/l, respectively. Ammonia-nitrogen was detected at concentrations ranging from 0.328 mg/l to 31.6 mg/l (at GW-9). The ammonia concentrations exceeded the GCTL of 2.8 mg/l at all locations except GW-27, GW-30, and GW-31.

### Results of Follow-up Sampling in the Phase IV Area

Table 5-7 summarizes the results for all parameters detected in the groundwater samples collected from the Phase IV area. As shown in Table 5-7, several constituents were detected at concentrations that exceeded their reported detection limits. Of these, the following parameters were found to exceed State groundwater criteria (GCTLs, per Chapter 62-777 FAC and Chapter 62-550 FAC): arsenic, iron, manganese, Ammonia (as Nitrogen), chloride, sodium, and Ph. Figure 5-3 illustrates the concentrations of arsenic detected during both April 2009 sampling events. Figure 5-4 illustrates the concentrations of iron, arsenic, ammonia, and ORP.

Arsenic concentrations detected during the groundwater sampling activities in the Phase IV area ranged from below detection limits (4.8 ug/l) to 230 ug/l. At 6 of the 15 sampling locations, the arsenic concentrations were greater than or equal to the GCTL of 10 ug/l. These locations were: GW-14, GW-15, GW-16, GW-17, GW-20, and GW-26. The arsenic concentrations exceeded 100 ug/l at two locations: GW-15 (170 ug/l) and GW-16 (230 ug/l). GW-15 and GW-16 were also the locations with the highest arsenic concentrations from July 2008, although the arsenic concentration at GW-16 was significantly less than the July 2008 result.

Iron concentrations detected during the groundwater sampling activities in the Phase IV area ranged from 3,300 ug/l (at GW-17) to 38,000 ug/l (at GW-14). Iron was noted as exceeding State Secondary groundwater criteria of 300 ug/l at all groundwater sampling locations sampled during April 2009.

Manganese concentrations detected during the groundwater sampling activities in the Phase IV area ranged from 7.0 ug/l to 18 ug/l (at GW-21). The manganese concentrations did not exceed the State Secondary groundwater criteria of 50 ug/l at any location during April 2009.

Ammonia (as Nitrogen) concentrations detected during the groundwater sampling activities in the Phase IV area ranged from 0.123 mg/l to 17.3 mg/l (at GW-16). At 3 of the 15 sampling locations, the Ammonia-N concentrations were greater than the State Secondary groundwater criteria of 2.8 mg/l. These locations were GW-14, GW-15, and GW-16.

Chloride concentrations from the Phase IV sampling activities ranged from 66 mg/l to 370 mg/l (at GW-15). The chloride concentrations equaled or exceeded the State Secondary groundwater criteria of 250 mg/l at two locations. Sodium concentrations ranged from 87 mg/l to 210 mg/l (at GW-20). The sodium concentrations exceeded the GCTL of 160 mg/l at three locations. Sulfate concentrations ranged from less than detection limits (0.036 mg/l) to 37 mg/l (at GW-15). The



July 3, 2009

sulfate concentrations did not exceed the State Secondary groundwater criteria of 250 mg/l at any locations. The concentrations of Nitrate-N ranged from less than detection limits (0.014 mg/l) to 2.1 mg/l (at GW-21). These concentrations were less than the GCTL for Nitrate-N of 10 mg/l. Total dissolved solids were detected at concentrations greater than State Secondary criteria at all 15 sampling locations.

As with the sampling performed in July 2008, filtered metals samples were collected at selected monitoring wells where turbidity exceeded 9-10 NTU. Table 5-10 provides the results of the filtered metals analyses for all such samples collected in April 2009. The results of the filtered samples were very consistent with the non-filtered results from the same wells. This suggests a dissolved presence for metals in the groundwater. The only exception to this was at GW-30, where the filtered result for iron (3ug/l) was significantly lower than the un-filtered result for iron (3,300 ug/l). Due to the fact that GW-30 purged dry repeatedly prior to and during sampling, the filtered sample may not have been fully representative of site groundwater conditions.

As with the July 2008 sampling event, overall field measurements for several critical parameters related to RD were also recorded during the April 2009 sampling event. The Ph values were found to be lower than the State Secondary groundwater criteria of 6.5-8.5 Standard Units at 11 of the 23 sampling locations (total for April 2009), with GW-27 having the lowest Ph (5.39). ORP values ranged from +36.7 Mv at GW-29 to -195.6 Mv at GW-28. Ferrous iron concentrations ranged from 0.4 mg/l at GW-30 to 3.5 mg/l at GW-15.

#### Groundwater Sampling at Existing Wetland

As discussed previously, PBS&J installed two, shallow temporary monitoring wells (Temp Well #1 – in the wetland; and Temp Well #2 – in the upland) by hand auger to collect representatives groundwater samples at an undisturbed wetland and a nearby uplands area. The well locations are to the north of Phase I, as shown on Figure 4-1. Arsenic was detected at a concentration of 12 ug/l in Temp Well #1, which slightly exceeded the GCTL for arsenic of 10 ug/l. Arsenic was not detected in the sample from Temp Well #2. This suggests that native conditions in wetlands associated with the landfill area may have natural, slightly elevated concentrations of arsenic in the groundwater. Iron was detected at concentrations of 3,500 ug/l and 2,200 ug/l in Temp Well #1 and Temp Well #2, respectively. These results suggest that iron concentrations in the range of 3,500 ug/l may be a background condition of the area of the landfill.

#### 5.3.3 Reductive/Oxidation Potential

Reductive/Oxidation (redox) reactions involve the transfer of electrons from one compound to another. One compound is oxidized (loses electrons) and one is reduced (gains electrons). Redox conditions are important factors controlling contaminant transport and fate in ground-water systems. Redox related reactions, change chemical behavior of both inorganic and organic chemical constituents by affecting solubility, reactivity, and bioavailability.



In association with the groundwater chemistry at this landfill site, there was a need to examine the groundwater environment for understanding redox behavior in the subsurface systems within the footprint of the landfill and immediate adjacent areas.

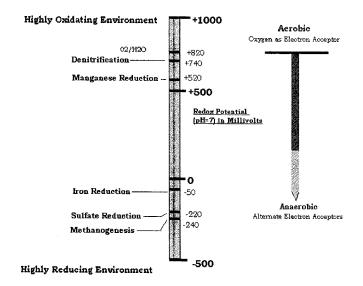
The environmental mobility of metals, such as arsenic, is indirectly related to redox conditions because this metal forms ionic complexes and solid precipitates with redox-sensitive elements (e.g., iron). Carbon may exist in several oxidation states, from +4 (most oxidized) to -4 (most reduced). Therefore, organic contaminants in ground water can also be strongly influenced by redox conditions, especially through the metabolic activity of microorganisms.

#### **Evaluating ORP**

ORP is a measure of the relative chemical differences between the oxidizers and the reducers found in groundwater. The evaluation of ORP is a particular worthwhile activity in water that contains redox-active species. Thus, ORP can be utilized to track the chemical attributes of adversely affected impacts of ground or surface water.

ORP measuring and overall groundwater evaluation begins with a measurement of the accumulation or deficiency of charged molecules, particularly electrons, in the groundwater. During microbial metabolism, electrons are produced, which must preferably be removed by oxygen to produce energy by a process called oxidative-phosphorylation. In an absence of oxygen, these electrons accumulate or react with other ions to impart a negative charge, resulting in a negative ORP value. Thus, a negative ORP value is a good indication that the water substrate is anaerobic and in a reductive dissolved state. The biodegradation of the organic substrate portion within the water column will continue to deplete the dissolved oxygen (DO) levels until the groundwater will be driven toward an even more reduced state. Once DO levels are depleted, anaerobic microorganisms will typically use available electron acceptors in the following order: nitrate, manganese (IV), iron (III) hydroxide, sulfate, and carbon dioxide.

The objective of evaluating reductive conditions in the groundwater within the area in and around the landfill is to measure the subsurface ORP levels. It is important to understand ORP values correspond to different geochemical and biological conditions. Every molecule has a specific ORP equilibrium constant, around which it exists in different forms in differing proportions. For example, iron is 50% ferrous and 50% ferric with an ORP value of approximately +120 Mv. As information derived from the USEPA Workshop on Monitoring Oxidation-Reduction Processes in Groundwater Restoration (Dallas, Texas; 2000) shows, at low ORP levels (~ -50 Mv), iron reduction will predominate and dissolved iron levels will rise as Fe<sup>3</sup> hydroxide solid [Fe(OH)3] is transformed to the soluble Fe<sup>2</sup> form by microbial activity:



Under these conditions, Fe (II) levels will tend to increase along the groundwater flow pathways. ORP levels of ~ -220 Mv will promote sulfate reduction to hydrogen sulfide and will result in a noticeable "rotten egg" odor to the groundwater. And under these theoretical conditions, sulfate will tend to decrease and hydrogen sulfide increase along the groundwater flow pathways.

At very low ORP values (~ -240 Mv), methanogenesis will finally occur, this results in the production of methane from carbon dioxide. Under these conditions, methane levels will tend to increase along the groundwater flow pathways and dissolved hydrogen gas will be present.

#### ORP Values in the Landfill

The ORP values measured in 2008 and 2009 are shown on Figures 5-2 and 5-3, respectively. With two exceptions (GW-3 and GW-10), all of the ORP readings collected during the July 2008 sampling event in the groundwater within the footprint of the landfill exhibited high-negative milivolt ORP value numbers. These ORP values were all noted to be within the range where iron dissolution will take place. When checking the average spread of the negative ORP values, it appeared that the highest-negative ORP values were located along the junction line between Phase I and Phase IV areas (CW-9, MW-9, DGW-2 and MW-8A) and along the southern end of the Phase III and Phase IV areas (GW-13, GW-14, and GW-16). Another location with high-negative ORP values was present to the west of the Phase I area (DGW-3 and MW-12R).

During the April 2009 sampling events, ORP values were also noted to be primarily in the moderate- to high-negative ranges. Notable exceptions, where ORP values were positive, were at GW-27 and GW-29. Prominent areas where ORP values were substantially less than -100 Mv included: 1) the Phase IV area of GW-15, GW-16, and GW-20; 2) the area of GW-24 and GW-25, south of Phase IV; and 3) the Phase III area of GW-12, GW-13, and GW-28.

Where ORP values are positive, we found arsenic levels to be below detection limits and iron concentrations also relatively low. Where ORP values are in the moderate- to high-negative range, we also found arsenic and iron concentrations to be high.

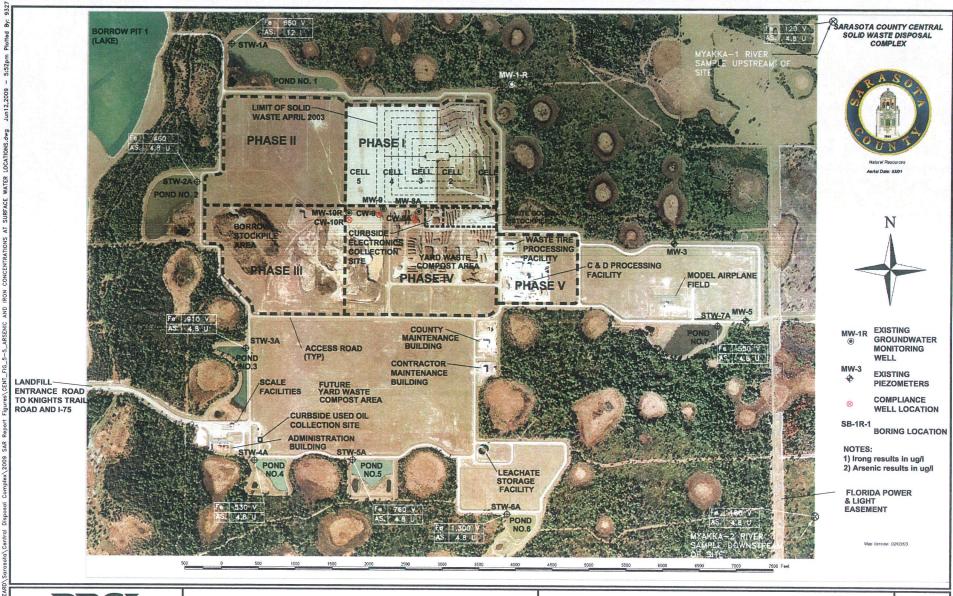
### 5.4 Degree and Extent of Impact to Surface Waters

Surface water samples (plus two duplicate samples) were collected at 7 man-made ponds located within the landfill property. In addition, surface water samples were collected from two locations on the Myakka River, to the east of the landfill property. Figure 5-5 shows the locations of the surface water sampling locations and presents the results from analysis of iron and arsenic concentrations in the samples. Table 5-11 summarizes the analytical data and the field data collected for the surface water sampling locations. The surface water data suggest that arsenic impacts from the groundwater may be affecting Pond 1, which had an arsenic concentration of 12 ug/l. The concentration of arsenic in Pond 1 is comparable to the concentration of arsenic found in groundwater from the nearby wells that formerly existed in Phase II. However, it should be noted that the arsenic concentration (12 ug/l) did not exceed the Surface Water Criteria for arsenic, which is 50 ug/l, based on Class III Fresh Water (per Chapter 302.430 FAC). Also, the configuration of the drainage control structure in this pond is such that there is no direct, continuous discharge of groundwater to surface water at this location. Any groundwater in this pond would mix with stormwater runoff and only discharge to surface waters during major storm events when the control elevation of the structure is exceeded.

Iron concentrations in the surface water are generally well below the concentrations found in the groundwater, but they do reflect the overall high background concentrations of iron found in the vicinity of the landfill. Iron concentrations from the duplicate sample from Pond 1 (Grabdup 1) and from Pond 6 were found to be equal to or greater than the Surface Water Criteria for iron, which is 1,000 ug/l, based on Class III Fresh Water. However, those iron concentrations from Pond 1 (1,000 ug/l) and Pond 6 (1,300 ug/l) represent only slight exceedances of the Surface Water Criteria.

As discussed in Section 3.2 each of these stormwater management ponds detains stormwater runoff to a control elevation above the elevation of the water table. At below control elevations these ponds serve to recharge or discharge (via evaporation) the surficial aquifer during wet or dry periods of the year. Above the control elevation, these ponds will discharge stormwater and residual pond water to surface waters.







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ARSENIC AND IRON CONCENTRATIONS AT SURFACE WATER LOCATIONS

**FIGURE** 

5-5

# **6.0 SITE ASSESSMENT OBJECTIVES**

The following section addresses in detail the specific objectives of the SA, as promulgated by Chapter 62-78.600(3), FAC.

# 6.1 Current Exposure and Potential Risk of Exposure to Humans and the Environment

Based on the information gathered during the CE and SA, the contaminants of concern are arsenic, iron and ammonia and are contained in the surficial groundwater aquifer that has interfaces with surface water in the seven stormwater ponds around the site. It is within this context that the following evaluation of exposure and potential risk of exposure to humans and the environment is made.

#### Current and Projected Use of Groundwater and Surface Water

The impacts at this site appear to be limited to the surficial aquifer. Groundwater in the surficial aquifer is currently not used for any purpose at this site, and the surface water ponds are used only for storm water management. Currently, there are no plans for changes to uses of either the groundwater or surface water at this site.

# Land Use Plans for the Area Affected by Contamination

Current plans for use of the areas affected by contamination include construction of additional landfill cells in Phases II, III and IV, and future yard waste composting to the south of the planned disposal cells. There are no plans to change the current use of the land in the area affected by the contamination.

# Exposed Human Population and Ecological Receptors

The only potential human receptors at this site are workers that are on-site during the work week and the landfill customers who are on-site significantly less time. The surficial groundwater is not used at the CCSWDC facility either for potable or irrigation purposes. The parties which use this site should be aware, however, of the potential risks for exposure if excavations are created in the impacted areas, and particularly if dewatering occurs. Based on these circumstances, the potential for exposure to humans at this site falls into the low probability of exposure category, as defined by the EPA (1989).

With regard to ecological receptors, the risk with this issue appears to be very low given that the only potential ecological receptors to the impacted groundwater would be the surface water bodies, and, as described in Section 5.4, the surface water quality limit for arsenic is well above the concentrations found in the groundwater. Iron concentrations met or just exceeded the surface water criteria limit only in Ponds 1 and 6.



#### Location, Degree and Extent of Plume

As shown on Figures 5-3 and 6-1, the COCs are present in a dissolved state in the groundwater of the surficial aquifer in the area from the northwest area of Phase II southeastward into the Phase I and Phase V areas. The impacted groundwater occupies the upper part of the aquifer.

#### Rate and Direction of the Plume

As discussed in Section 3.2.1, studies by Ardaman & Associates, Inc. (2008), found the average hydraulic gradient in the Phase II area ranged from approximately 0.0005 to 0.0011. The groundwater flow direction typically ranged from west to south-southwest. The hydraulic conductivity from site-specific field tests in the piezometers ranged from 0.25 to 4.1 feet per day. Considering an effective porosity of 0.25, the maximum groundwater flow velocity in the surficial aquifer would range from 0.003 to 0.098 feet per day or 1.1 to 36 feet per year.

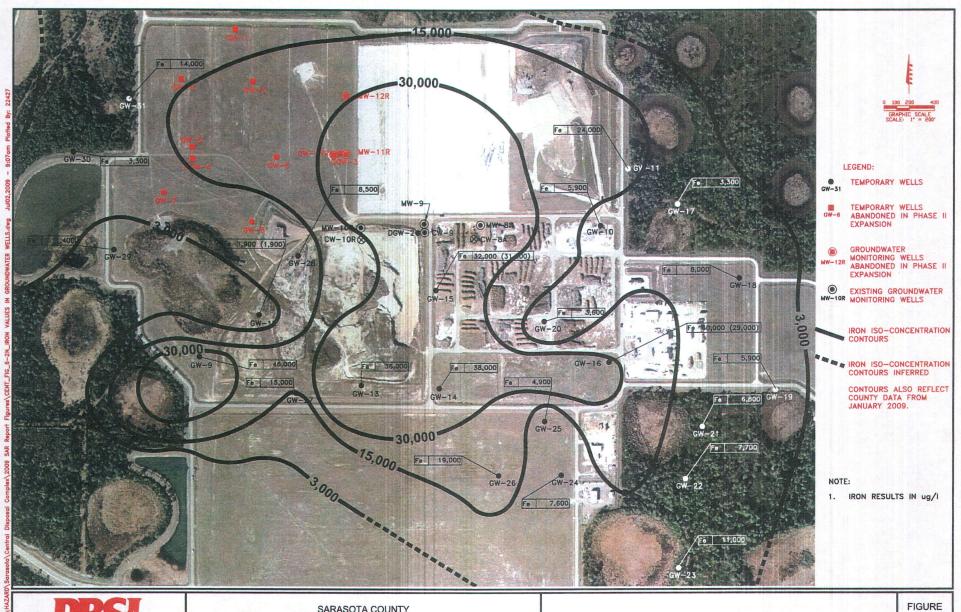
#### Potential for Further Migration to Source Property Boundary

Given what is currently known regarding the fate and transport mechanisms at play with the plume of impacted groundwater at this site, it is not yet possible to predict whether the plume will migrate to the boundary of the CCSWDC site boundary before attenuation takes a toll on the COC concentrations. Given that the property boundary is approximately one mile south of the leading edge of the plume, and the estimated groundwater flow rate approximately 36 feet per year; it is possible that dispersion and oxidation of the COCs will occur before the many years of travel time necessary for the plume to reach the property boundary.

#### 6.2 Contamination Character and Extent Dissolved In Groundwater

Data derived from CE and SA investigations (Figures 5-1 and 5-3) indicate that the plume of dissolved arsenic in the groundwater extends generally from the northwest area of Phase II southeastward into the Phase I and Phase V areas. This also generally defines the limits of that part of the plume with concentrations in excess of the GCTL. The highest concentrations are located in an area extending generally from Phase IV southeastward for a distance of approximately 100 feet. This area also exhibited the highest ORP values.

With regard to the other two COCs, ammonia (as N) and iron, the area where the ammonia (as N) concentrations exceed the GCTL generally follows that of arsenic. The iron concentrations as shown on Figure 6-1 were relatively high across the entire study area, even in the background area. Like arsenic and ammonia, the highest iron concentrations were detected at the wells located immediately south of the south side of the Phase I areas of the landfill, and extending into the Phase IV Area.



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**IRON VALUES IN GROUNDWATER WELLS FOR 2009** 

6-1

It was noted that there were no elevated concentrations of arsenic or ammonia in the wells screened from 15 to 20 feet BLS. This appears to indicate that the arsenic and ammonia impacts are limited to the upper 15 feet of the surficial aquifer at the site. However, the iron and TDS concentrations were higher than the SDWS in the deeper wells, even in the background area.

It should be noted that some of the constituents included in the groundwater sampling program were detected at concentrations in excess of the standards, including chloride and manganese. There is no obvious pattern with these detections that would suggest these constituents are originating from a specific source.

#### 6.3 Sources of Contamination

The Contamination Assessment conducted in 2008 investigated possible sources of contamination, and the following sources were ruled out:

- Yard Waste: The presence of arsenic metabolites associated with pesticides and herbicides in raw yard waste, milled yard waste, and finished compost from yard waste was considered along with the chemical composition of mulch that contained CCA treated wood and no connection to the contaminants of concern was found.
- Cattle Dip Vat soils: Historical use of the site prior to the construction of the landfill was as a cattle ranch. An area of the site in the immediate vicinity of suspected cattle dip vat was used to obtain borrow material for the landfill site. Soil testing in the cattle dip vat/borrow pit area was performed as part of the arsenic speciation studies, with no significant arsenic concentrations found to suggest that the area was a significant source of arsenic.
- Tire processing: The Phase V area of the landfill is the area designated for "Waste Tire Processing", and the County has, in the past, used chipped tires as erosion control material in stormwater ditches on the landfill itself. Based on published studies, Toxicity Characteristic Leaching Procedure (TCLP) conducted on scrap tire chips (method 1311 of USEPA), testing of tire pieces indicated that the metal constituents were determined to be significantly lower than regulatory threshold limits.

The findings of the SA do support the conclusions presented in the CE, that the iron, arsenic, and ammonia are naturally-occurring chemicals in the soils at the CCSWDC, and that the soils are releasing iron into the soil in areas of the site where RD is taking place, specifically in those areas where the DO levels are unusually low because of the lack of recharge from rainfall. This includes the footprint of the landfill and the Phase IV Area. It has been hypothesized that construction of the lined landfill cell, along with associated site development and other site activities (e.g., storage piles of cover soil and yard waste), have sufficiently decreased vadose zone oxygen content in some areas of the site that conditions suitable for accelerated iron reducing bacteria have developed, which has in turn resulted in the release of iron, arsenic, and ammonia-nitrogen into the surficial groundwater.

6-4



#### 6.4 Background Concentrations

At the CCSWDC, the area located to the north and northeast of Phase I is considered to be representative of the natural conditions of the site before development of the landfill took place. This area is at least seasonally upgradient of the active landfill cells, so that impacts from the landfill on this area are though to be negligible. Therefore, soil and groundwater samples collected from this area are considered representative of "background" conditions.

Since approximately 2001, groundwater samples have been collected from a "background" monitoring well, indicated as MW-1 (replaced by MW-1R), which is located to the northeast of the northeast corner of Phase I. During the CE sampling activities, one shallow temporary monitoring well (GW-2) and one deeper temporary monitoring well (DGW-1) were installed in the area to the north of Phase I. The July 2008 sampling results for these wells are provided in Table 5-6. In general, the results from sampling of MW-1R and GW-2 indicated that the only constituent consistently detected at concentrations greater than the GCTL was iron. Background concentrations of the contaminants of concern include the following:

 $\begin{array}{ll} \underline{\text{Concentration Range}} \\ \underline{\text{Iron}} & 280-6,200 \text{ ug/l} \\ \\ \text{Arsenic} & \text{Below Detection Limits} \\ \\ \text{Ammonia Nitrogen} & 0.12-0.534 \text{ ug/l} \\ \end{array}$ 

Temporary monitoring well DGW-1 was screened from 15 to 20 feet below surface. At this depth, the following three constituents were found to exceed their GCTLs: chloride, sodium, and TDS. This may indicate that groundwater from the deeper portion of the surficial aquifer may naturally be of slightly lower quality than the upper portion of the aquifer, but it should be noted that this was a one-time sampling event.

During the CE and SA activities, three soil borings were installed in the area north and northeast of Phase I (i.e., samples from the "background" area). Soil sample SB-1R-1 was collected from a location near MW-1R to a depth of 4.5 feet (just above the water table). The total arsenic concentration from a composite sample taken from this boring was 0.93 mg/kg. Speciation results from a sample collected at 4.5 feet from SB-1R-1 detected 0.05 mg/kg of Arsenic III and 0.20 mg/kg of Arsenic V.

Soil samples were also collected from a depth of 2 feet for evaluation of a wetland (Temp Well #1) and an upland area (Temp Well #2), both of which were located north of Phase I. Arsenic was not detected above the method detection limit (0.25 mg/kg) in either sample. Iron was detected at concentrations of 240 mg/kg and 550 mg/kg, respectively. Based on comparison with the iron and arsenic concentrations found in Phase II (see Table 5-2) and in Phase IV (see Table 5-5), the background arsenic and iron concentrations tend to be slightly lower than those found in the developed portion of the landfill.



#### 6.5 Need For Source Removal

There is no free product associated with the contaminants of concern. Given that there does not appear to be a single point source or "hot spot" within the soil that is acting as a source of groundwater contamination, it would not be practical to perform a source removal at this site, nor would it serve its intended purpose.

# 6.6 Geologic and Hydrogeologic Characteristics That Influence Migration and Transport of Contaminants

The COC's are in a dissolved state within the groundwater of the surficial aquifer. Therefore, the principal factor influencing the migration and transport of the contaminants is the flow dynamic of the groundwater of the surficial aquifer through the impacted area. Typically, groundwater flows laterally from areas of highest hydraulic areas to areas of lowest hydraulic areas. Within unconfined aquifers such as the surficial aquifer, the groundwater flow usually conforms to the topography of the land surface, with the higher areas flowing to the lower areas. At this site, the groundwater on the west side of the landfill site, and the west side of the plume of impacted groundwater, flows in a southwestward direction toward Cow Pen Slough, and groundwater beneath the east side of the site, and the east side of the plume of impacted groundwater, flows southeastward toward the Myakka River.

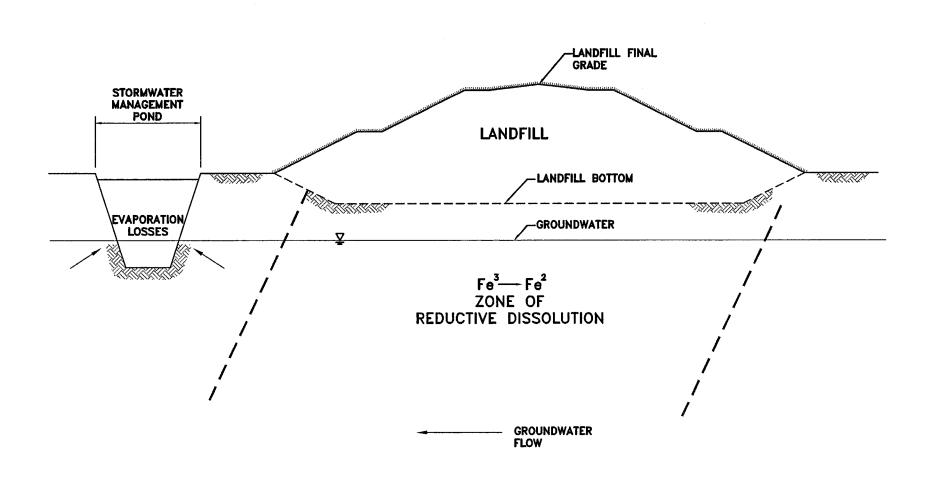
# 6.7 Mechanisms of Transport of Contaminants in the Immediate Vicinity of the Site

Our conceptual model of the mechanism for contaminant transport is presented as Figure 6-2. The COCs originate from the soil and leach into the groundwater through a process of RD in the areas where low DO and low ORP values are most prominent, that is the area immediately south of the landfill footprint in Phase I and the Phase IV Area. The plume of impacted groundwater then flows with the groundwater of the surficial aquifer. Groundwater on the west side of the impacted area flows in a southwesterly direction and groundwater on the east side of the impacted area flows to the southeast. The areas outside of the influence of the RD process have normal DO levels, and the COC's are below regulatory limits in these areas.

#### 6.8 Public Supply Well Survey

PBS&J reviewed the records on file with the Sarasota County Department of Public Health for any records pertaining to public and private potable water wells located within one-half mile of the plume of impacted groundwater. According to the files, there is no public supply wells located within one-half mile of the plume of impacted groundwater. There are records for private water supply wells located on the landfill property, one at the landfill administration building complex, approximately 1,500 feet southwest of the leading edge of the plume; and the other at the maintenance building, which is located near the leading edge of the plume. Both of these wells are cased to approximately 90 feet and are approximately 130 feet deep. A third supply well is located at the Materials Recycling Facility.





**PBS** 

SARASOTA COUNTY CENTRAL COUNTY SOLID WASTE DIPOSAL COMPLEX SITE ASSEMENT REPORT

SITE CONCEPTUAL MODEL DIAGRAM

FIG. 6-2

This well is located within the plume boundary, and is also a deep cased well. In should be noted, too, that previous studies in this area (see Appendix L) have reported that there is an upward gradient from the Floridan Aquifer in this area.

### 6.9 Surface Water Exposure to Contamination

Impacts to surface water from arsenic in the groundwater in the western portion of the site are not expected to occur since arsenic concentrations in the groundwater are below the surface water quality limits for arsenic. On the east side of the site in the Phase IV area, groundwater concentrations exceed surface water standards, but the groundwater is below the ground surface in this area and there is no connection of groundwater to surface water in this area.

Iron concentrations in the groundwater, including background, exceed the surface water limits.

Given that the stormwater ponds will not discharge to surface waters until filled to the control elevation with stormwater runoff, dilution of any iron or arsenic from the groundwater in these ponds will reduce the impact to surface water from discharges from these ponds.

### 6.10 Facilitate the Selection of a Remediation Strategy

There is low risk of exposure to human health and the environment from the contamination from the plume of COC-impacted groundwater at this site and there are no plans to change the current land use at this site. We believe that, once removed from the reductive dissolution environment of anoxic conditions and low ORP values, the iron and arsenic will revert to its oxidized state. Therefore, the most logical remediation strategy is Natural Attenuation with Monitoring, as promulgated at Chapter 62-780.690. In accordance with the requirements of this section of the rule, the following criteria can be met:

- a) As there is no free product associated with the contaminants of concern at this site.
- b) Contaminated soil is not present in the unsaturated zone.
- c) For the Natural Attenuation with Monitoring Plan, we recommend the establishment of an appropriate temporary point of compliance that will allow the demonstration that natural attenuation is in fact occurring at this site.
- d) We believe that the chemical process of reductive dissolution demonstrates that the contaminants of concern are conducive to natural attenuation.
- e) There are insufficient sampling locations or historical data to suggest that an overall decrease in the contamination is occurring, and we recommend that as part of the Natural Attenuation with Monitoring Plan additional sampling locations be established to demonstrate this.

This approach would require the preparation of a detailed Natural Attenuation with Monitoring Plan addressing each of the requirements of Chapter 62-780.690(1), the installation of a network of monitoring wells along the perimeter of the impacted area and the periodic monitoring of the



groundwater to monitor the movement of the plume. Included in this Plan would be the items required in Chapter 62-780.690(1)(f)2 as follows:

- a) A technical evaluation of groundwater and soil characteristics, chemistry, and biological activity that verifies that the contaminants have the capacity to degrade under specific site conditions. This evaluation will include the results of on-going County funded research by the University of Florida in this regard.
- b) A scientific evaluation of the plume migration in relation to the temporary point of compliance, an estimation of expected annual reductions in contaminant concentrations in monitoring wells, and an estimation of the time required to meet applicable No Further Action criteria; and
- c) A life-cycle cost analysis of remedial alternatives.

### **REFERENCES**

- PBS&J, 2008, Contamination Evaluation Report, Sarasota County Central County Solid Waste Disposal Complex, Nokomis, Florida.
- U.S. EPA, 1989, Risk Assessment Guidance for Superfund, Volume I.
- Sutcliffe, H, 1972, Appraisal of the Water Resources of Charlotte County, Florida, Florida Geological Survey Report of Investigation No. 78.
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- Ardaman and Associates, Inc. 2008, Geotechnical and Hydrogeological Report, Central County Solid Waste Disposal Complex.
- University of Florida Department of Environmental Engineering Sciences, 2008, Characterization of Sarasota County Central Landfill Soil for Investigating Causes of the Groundwater Exceedances.
- U.S. EPA, 2000, Workshop on Monitoring Oxidation-Reduction Processes in Groundwater Restoration.

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**TABLES** 

### TABLE 2-1 WATER QUALITY MONITORING NETWORK CENTRAL COUNTY SOLID WASTE DISPOSAL COMPLEX

		Leachate San	ipling Points			
Location (Sample	(ID)	Land	fill Cell	WACS Testsite Identification Numbe		
C-1		Ce	11 #1	20580		
C-2		Ce	11 #2	20581		
C-3		Ce	11 #3	20582		
C-4		Ce	11 #4	20583		
C-5		Ce	11 #4	20584		
Ğ	oundwa	ater Sampling P	oints (Monitorin	g Wells)		
Location/Well Identifier	Aquif	er Monitored	Designation	WACS Testsite II No.		
MW-1R		Surficial	Detection	20585		
MW-8A		Surficial	Detection	21455		
MW-9		Surficial	Detection	4509		
MW-10R		Surficial	Detection	4510		
MW-11R		Surficial	Detection	20588		
MW-12R		Surficial	Detection	20589		
MW-3		Surficial	Piezometer	4503		
MW-5		Surficial	Piezometer	4505		
	9	Surface Water S	Sampling Points			
Identifier		Locati	Location WACS Test Identification			
B2	О	ld Cowpen Slou	gh– Upstream	4519		
B4R	Old	l Cowpen Slough	n - Downstream	200605		

TABLE 3-1
Groundwater and Surface Water Elevation Readings
June 12, 2009

Identifier	Measuring Point Elevation (Ft-NGVD)	Depth to Water (Feet)	Water Elevation (Ft-NGVD)		
Groundwater					
MW-1R	24.43	6.90	17.53		
MW-8A	28.64	11.91	16.73		
MW-9	35.11	17.40	17.71		
MW-10R	31.79	14.13	17.66		
CW-8A	25.80	9.17	16.63		
CW-9	26.20	8.67	17.53		
CW-10R	26.98	9.27	17.71		
MW-3*	23.34	4.70	18.64		
MW-5*	23.19	5.40	17.79		
urface Water					
STW-1A	21.23	2.01	19.22		
STW-2A	20.18	3.00	17.18		
STW-3A	18.43	1.85	16.58		
STW-4A	17.35	1.94	15.41		
STW-5A	18.04	1.90	16.14		
STW-6A	17.67	2.85	14.82		
STW-7A	19.02	1.98	17.04		

<sup>\*</sup> Piezometers.

Horizontal Datum: Florida State Plane NAD83(90); Vertical Datum: 1929 NGVD.

Table 3-2
Pond Construction Data

Pond	Bottom Elevation	Orifice Elevation	Staff Guage Nail Mark		
1-A	12.5	20.1	21.23		
2-A	10.5	18.3	20.18		
3-A	12.5	18.1	18.43		
4-A	9.5	17.1	17.35		
5-A	10.0	17.7 A/17.8 B	18.04		
6-A	9.5	17.4	17.67		
7-A	12.0	20.0	19.02		

Note: All elevations in feet above the National Geodetic Vertical Datum.

<sup>\*</sup> Surveyed point on staff guage.

**TABLE 4-1: MONITOR WELL CONSTRUCTION DETAILS** 

#### Sarasota County CCSWDC

WELL NO.	MW-1R		MW-8A		MW-9		MW-10R		MW-11R*	
DIAMETER	2-inch		2-inch		2-inch		2-inch		2-inch	
WELL DEPTH	12.3		15.5		23.6		15.7		12.3	
SCREEN INTERVAL	12.0-12.3		5.5-15.5		13.6-23.6		5.7-15.7		2.0-12.0	
TOC ELEVATION	24.43		28.64		35.11		31.79		26.22	
	1	L	1 ====					L		
DATE	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW
(7/2008)	17.07	7.36	17.58	11.06	18.28	16.83	17.83	13.96	18.14	8.08
(4/2009)	NA	NA	16.89	11.75	16.95	18.16	17.37	14.42	NA	NA
			,		7					
WELL NO.	MW-12*		CW-8A		CW-9		CW-10R		CW-11R*	
DIAMETER	2-inch		2-inch		2-inch		2-inch		2-inch	
WELL DEPTH	12.3		15.5		15.5		15.7		15.5	
SCREEN INTERVAL	2.0-12.0		5.5-15.5		5.5-15.5		5.7-15.7		5.5-15.5	
TOC ELEVATION	26.63	Li	26.13		26.58	1	26.98		25.71	
DATE:	F ( E) (	550	F. 514	DT144	T E. E. (	DD4	T 51 51	DTM	FLEV	DTW
DATE	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW
(7/2008)	19.13	7.50	17.21	8.92	18.46	8.12	18.50	8.48	17.50	8.21
(4/2009)	NA	NA	16.76	9.37	16.98	9.60	17.42	9.56	NA	NA
WELL NO.	GW-1*		GW-2*		GW-3*		GW-4*		GW-5*	
DIAMETER	2-inch		2-inch		2-inch		2-inch		2-inch	
WELL DEPTH	15.3		13.3		15.3		15.3		15.3	
SCREEN INTERVAL	5.0-15.0		3.0-13.0		5.0-15.0		5.0-15.0		5.0-15.0	
TOC ELEVATION	28.06		25.59		27.95		27.65		27.81	
DATE	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW
(7/2008)	18.88	9.18	17.30	8.29	17.75	10.20	17.26	10.39	16.97	10.84
(4/2009)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WELL NO.	GW-6*		GW-7*		GW-8*	······································	GW-9	Γ Τ	GW-10	
DIAMETER	2-inch		2-inch		2-inch		2-inch		2-inch	
WELL DEPTH	15.3		15.3		15.3		15.3		15.3	
SCREEN INTERVAL	5.0-15.0		5.0-15.0		5.0-15.0	i	5.0-15.0		5.0-15.0	
TOC ELEVATION	27.70		27.77		28.42		28.09		29.03	
· · · · · · · · · · · · · · · · · · ·										
DATE	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW
(7/2008)	17.09	10.90	17.09	10.68	17.88	10.54	17.38	10.71	19.12	9.91
(4/2009)	NA	NA	NA	NA	NA	NA	16.37	11.72	16.98	12.05

Note: depth to water represents measurement from top of well casing

\* = Wells abandoned in Jan 09

NA = not applicable

Well depths and screen interval given from surface (not top of casing)

TABLE 4-1: MONITOR WELL CONSTRUCTION DETAILS (continued)

#### Sarasota County CCSWDC

WELL NO.	GW-11		GW-12		GW-13		GW-14		GW-15				
DIAMETER	2-inch		2-inch		2-inch		2-inch		2-inch	_			
WELL DEPTH	15.3		15.3		15.3		15.3		15.3				
SCREEN INTERVAL	5.0-15.0		5.0-15.0		5.0-15.0		5.0-15.0		5.0-15.0				
TOC ELEVATION	26.04		29.25		27.82		27.80		28.30				
						<del></del>	2.100		1 20:00				
DATE	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW			
(7/2008)	18.31	7.73	18.11	11.14	19.00	8.82	19.56	8.24	18.69	9.61			
(4/2009)	17.04	9.00	16.98	12.27	17.48	10.34	17.20	10.60	17.22	11.08			
WELL NO.	GW-16		GW-17		GW-18		GW-19		GW-20				
DIAMETER	2-inch		2-inch		2-inch		2-inch		2-inch				
WELL DEPTH	15.3		12.3		15.3		12.3		20.3				
SCREEN INTERVAL	5.0-15.0		2.0-12.0		5.0-15.0		2.0-12.0		10.0-20.0				
TOC ELEVATION	27.69		26.48		29.53		24.68		29.72				
	2.00												
DATE	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW			
(7/2008)	17.84	9.85	NA	NA	NA	NA	NA	NA	NA	NA			
(4/2009)	16.30	11.39	17.06	9.42	17.70	11.83	16.45	8.23	16.85	12.87			
WELL NO.	GW-21		GW-22		GW-23		GW-24		GW-25				
DIAMETER	2-inch		GW-22 2-inch		GW-23 2-inch		GW-24 2-inch		GW-25 2-inch				
DIAMETER WELL DEPTH	2-inch 13.3		2-inch 13.3		2-inch 13.3		2-inch 13.3		2-inch 13.3				
DIAMETER WELL DEPTH SCREEN INTERVAL	2-inch 13.3 3.0-13.0		2-inch 13.3 3.0-13.0		2-inch		2-inch 13.3 3.0-13.0		2-inch 13.3 3.0-13.0				
DIAMETER WELL DEPTH	2-inch 13.3		2-inch 13.3		2-inch 13.3		2-inch 13.3		2-inch 13.3				
DIAMETER WELL DEPTH SCREEN INTERVAL	2-inch 13.3 3.0-13.0		2-inch 13.3 3.0-13.0		2-inch 13.3 3.0-13.0		2-inch 13.3 3.0-13.0		2-inch 13.3 3.0-13.0				
DIAMETER WELL DEPTH SCREEN INTERVAL TOC ELEVATION DATE	2-inch 13.3 3.0-13.0 25.67	DTW	2-inch 13.3 3.0-13.0	DTW	2-inch 13.3 3.0-13.0	DTW	2-inch 13.3 3.0-13.0	DTW	2-inch 13.3 3.0-13.0 25.28	DTW			
DIAMETER WELL DEPTH SCREEN INTERVAL TOC ELEVATION  DATE (7/2008)	2-inch 13.3 3.0-13.0 25.67 ELEV NA	NA	2-inch 13.3 3.0-13.0 25.23 ELEV NA	<b>DTW</b>	2-inch 13.3 3.0-13.0 24.12	NA	2-inch 13.3 3.0-13.0 25.63	DTW NA	2-inch 13.3 3.0-13.0 25.28	DTW NA			
DIAMETER WELL DEPTH SCREEN INTERVAL TOC ELEVATION DATE	2-inch 13.3 3.0-13.0 25.67		2-inch 13.3 3.0-13.0 25.23		2-inch 13.3 3.0-13.0 24.12		2-inch 13.3 3.0-13.0 25.63		2-inch 13.3 3.0-13.0 25.28				
DIAMETER WELL DEPTH SCREEN INTERVAL TOC ELEVATION  DATE (7/2008) (4/2009)	2-inch 13.3 3.0-13.0 25.67 ELEV NA 15.35	NA	2-inch 13.3 3.0-13.0 25.23 ELEV NA 15.21	NA	2-inch 13.3 3.0-13.0 24.12 ELEV NA 14.57	NA	2-inch 13.3 3.0-13.0 25.63 ELEV NA 16.24	NA	2-inch 13.3 3.0-13.0 25.28 ELEV NA 16.41	NA			
DIAMETER WELL DEPTH SCREEN INTERVAL TOC ELEVATION  DATE (7/2008) (4/2009)  WELL NO.	2-inch 13.3 3.0-13.0 25.67 ELEV NA 15.35 GW-26	NA	2-inch 13.3 3.0-13.0 25.23 ELEV NA 15.21	NA	2-inch 13.3 3.0-13.0 24.12 ELEV NA 14.57	NA	2-inch 13.3 3.0-13.0 25.63 ELEV NA 16.24 GW-29	NA	2-inch 13.3 3.0-13.0 25.28 ELEV NA 16.41 GW-30	NA			
DIAMETER WELL DEPTH SCREEN INTERVAL TOC ELEVATION  DATE (7/2008) (4/2009)  WELL NO. DIAMETER	2-inch 13.3 3.0-13.0 25.67 ELEV NA 15.35 GW-26 2-inch	NA	2-inch 13.3 3.0-13.0 25.23 ELEV NA 15.21 GW-27 2-inch	NA	2-inch 13.3 3.0-13.0 24.12 ELEV NA 14.57 GW-28 2-inch	NA	2-inch 13.3 3.0-13.0 25.63 ELEV NA 16.24 GW-29 2-inch	NA	2-inch 13.3 3.0-13.0 25.28 ELEV NA 16.41 GW-30 2-inch	NA			
DIAMETER WELL DEPTH SCREEN INTERVAL TOC ELEVATION  DATE (7/2008) (4/2009)  WELL NO. DIAMETER WELL DEPTH	2-inch 13.3 3.0-13.0 25.67 ELEV NA 15.35 GW-26 2-inch 15.3	NA	2-inch 13.3 3.0-13.0 25.23 ELEV NA 15.21 GW-27 2-inch 15.3	NA	2-inch 13.3 3.0-13.0 24.12 ELEV NA 14.57 GW-28 2-inch 18.3	NA	2-inch 13.3 3.0-13.0 25.63 ELEV NA 16.24 GW-29 2-inch 15.3	NA	2-inch 13.3 3.0-13.0 25.28 ELEV NA 16.41 GW-30 2-inch 13.3	NA			
DIAMETER WELL DEPTH SCREEN INTERVAL TOC ELEVATION  DATE (7/2008) (4/2009)  WELL NO. DIAMETER WELL DEPTH SCREEN INTERVAL	2-inch 13.3 3.0-13.0 25.67 ELEV NA 15.35 GW-26 2-inch 15.3 5.0-15.0	NA	2-inch 13.3 3.0-13.0 25.23 ELEV NA 15.21 GW-27 2-inch 15.3 5.0-15.0	NA	2-inch 13.3 3.0-13.0 24.12 ELEV NA 14.57 GW-28 2-inch 18.3 8.0-18.0	NA	2-inch 13.3 3.0-13.0 25.63 ELEV NA 16.24 GW-29 2-inch 15.3 5.0-15.0	NA	2-inch 13.3 3.0-13.0 25.28 ELEV NA 16.41 GW-30 2-inch 13.3 3.0-13.0	NA			
DIAMETER WELL DEPTH SCREEN INTERVAL TOC ELEVATION  DATE (7/2008) (4/2009)  WELL NO. DIAMETER WELL DEPTH	2-inch 13.3 3.0-13.0 25.67 ELEV NA 15.35 GW-26 2-inch 15.3	NA	2-inch 13.3 3.0-13.0 25.23 ELEV NA 15.21 GW-27 2-inch 15.3	NA	2-inch 13.3 3.0-13.0 24.12 ELEV NA 14.57 GW-28 2-inch 18.3	NA	2-inch 13.3 3.0-13.0 25.63 ELEV NA 16.24 GW-29 2-inch 15.3	NA	2-inch 13.3 3.0-13.0 25.28 ELEV NA 16.41 GW-30 2-inch 13.3	NA			
DIAMETER WELL DEPTH SCREEN INTERVAL TOC ELEVATION  DATE (7/2008) (4/2009)  WELL NO. DIAMETER WELL DEPTH SCREEN INTERVAL TOC ELEVATION	2-inch 13.3 3.0-13.0 25.67 ELEV NA 15.35 GW-26 2-inch 15.3 5.0-15.0 26.20	NA 10.32	2-inch 13.3 3.0-13.0 25.23 ELEV NA 15.21 GW-27 2-inch 15.3 5.0-15.0 27.90	NA 10.02	2-inch 13.3 3.0-13.0 24.12 ELEV NA 14.57 GW-28 2-inch 18.3 8.0-18.0 31.75	9.55	2-inch 13.3 3.0-13.0 25.63 ELEV NA 16.24 GW-29 2-inch 15.3 5.0-15.0 28.26	NA 9.39	2-inch 13.3 3.0-13.0 25.28 ELEV NA 16.41 GW-30 2-inch 13.3 3.0-13.0 24.97	NA 8.87			
DIAMETER WELL DEPTH SCREEN INTERVAL TOC ELEVATION  DATE (7/2008) (4/2009)  WELL NO. DIAMETER WELL DEPTH SCREEN INTERVAL TOC ELEVATION	2-inch 13.3 3.0-13.0 25.67  ELEV NA 15.35  GW-26 2-inch 15.3 5.0-15.0 26.20	NA 10.32	2-inch 13.3 3.0-13.0 25.23  ELEV NA 15.21  GW-27 2-inch 15.3 5.0-15.0 27.90	NA 10.02	2-inch 13.3 3.0-13.0 24.12 ELEV NA 14.57 GW-28 2-inch 18.3 8.0-18.0 31.75	9.55 DTW	2-inch 13.3 3.0-13.0 25.63  ELEV NA 16.24  GW-29 2-inch 15.3 5.0-15.0 28.26	NA 9.39	2-inch 13.3 3.0-13.0 25.28  ELEV NA 16.41  GW-30 2-inch 13.3 3.0-13.0 24.97	NA 8.87			
DIAMETER WELL DEPTH SCREEN INTERVAL TOC ELEVATION  DATE (7/2008) (4/2009)  WELL NO. DIAMETER WELL DEPTH SCREEN INTERVAL TOC ELEVATION	2-inch 13.3 3.0-13.0 25.67 ELEV NA 15.35 GW-26 2-inch 15.3 5.0-15.0 26.20	NA 10.32	2-inch 13.3 3.0-13.0 25.23 ELEV NA 15.21 GW-27 2-inch 15.3 5.0-15.0 27.90	NA 10.02	2-inch 13.3 3.0-13.0 24.12 ELEV NA 14.57 GW-28 2-inch 18.3 8.0-18.0 31.75	9.55	2-inch 13.3 3.0-13.0 25.63 ELEV NA 16.24 GW-29 2-inch 15.3 5.0-15.0 28.26	NA 9.39	2-inch 13.3 3.0-13.0 25.28 ELEV NA 16.41 GW-30 2-inch 13.3 3.0-13.0 24.97	NA 8.87			

Note: depth to water represents measurement from top of well casing

NA = not applicable

Well depths and screen interval given from surface (not top of casing)

**TABLE 4-1: MONITOR WELL CONSTRUCTION DETAILS (continued)** 

### **Sarasota County CCSWDC**

WELL NO.	GW-31	DGW-1	DGW-2	DGW-3*	DGW-4*
DIAMETER	2-inch	2-inch	2-inch	2-inch	2-inch
WELL DEPTH	13.3	20.3	20.3	20.3	20.3
SCREEN INTERVAL	3.0-13.0	15.0-20.0	15.0-20.0	15.0-20.0	15.0-20.0
TOC ELEVATION	24.00	25.41	28.74	27.96	28.01

DATE	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW
(7/2008)	NA	NA	13.74	11.67	18.13	10.61	14.71	13.25	13.61	14.40
(4/2009)	14.95	9.05	NA							

Note: depth to water represents measurement from top of well casing

\* = Wells abandoned in Jan 09

NA = not applicable

Well depths and screen interval given from surface (not top of casing)

### TABLE 4-2 WATER ELEVATION READINGS 7/28-31/2008

Well Identifier	Top-of-Casing Elevation (Ft-NGVD)	Depth -to-Water (Ft-BTOC)	Water Elevation (Ft-NGVD)
	I	Wells	
MW-1R	24.43	7.36	17.07
MW-8A	28.64	11.06	17.58
MW-9	35.11	16.83	18.28
MW-10R	31.79	13.96	17.83
MW-11R	26.22	8.08	18.14
MW-12R	26.63	7.50	19.13
CW-8A	26.13	8.92	17.21
CW-9	26.58	8.12	18.46
CW-10R	26.98	8.48	18.50
CW-11R	25.71	8.21	17.50
GW-1	28.06	9.18	18.88
GW-2	25.59	8.29	17.30
GW-3	27.95	10.20	17.75
GW-4	27.65	10.39	17.26
GW-5	27.81	10.84	16.97
GW-6	27.70	10.90	16.80
GW-7	27.77	10.68	17.09
GW-8	28.42	10.54	17.88
GW-9	28.09	10.71	17.38
GW-10	29.03	9.91	19.12
GW-11	26.04	7.73	18.31
GW-12	29.25	11.14	- 18.11
GW-13	27.82	8.82	19.00
GW-14	27.80	8.24	19.56
GW-15	28.30	9.61	18.69
GW-16	27.69	9.85	17.84
DGW-1	25.41	11.67	13.74
DGW-2	28.74	10.61	18.13
DGW-3	27.96	13.25	14.71
DGW-4	28.01	14.40	13.61
		cometers	
PZ-2A	21.72	4.20	17.52

Abbreviations: FT = Feet; NGVD = National Geodetic Vertical Datum; BTOC = Below Top-of-Casing

## TABLE 4-3 WATER ELEVATION READINGS September 12, 2008

	I m		- 3 &		
Well Identifier	Top-of-Casing Elevation (Ft-NGVD)	Depth -to-Water (Ft-BTOC)	Water Elevation (Ft-NGVD)		
		Wells			
MW-1R	24.43	4.02	20.41		
MW-8A	28.64	10.25	18.39		
MW-9	35.11	15.74	19.37		
MW-10R	31.79	12.80	18.99		
MW-11R	26.22	4.90	21.32		
MW-12R	26.63	5.92	20.71		
CW-8A	26.13	7.74	18.39		
CW-9	26.58	6.90	19.68		
CW-10R	26.98	7.70	19.28		
CW-11R	25.71	7.33	18.38		
GW-1	28.06	7.80	20.26		
GW-2	25.59	5.39	20.20		
GW-3	27.95	9.11	18.84		
GW-4	27.65	9.23	18.42		
GW-5	27.81	9.50	18.31		
GW-6	27.70	10.12	17.58		
GW-7	27.77	9.35	18.42		
GW-8	28.42	9.06	19.36		
GW-9	28.09	9.10	18.99		
GW-10	29.03	8.75	20.28		
GW-11	26.04	6.00	20.04		
GW-12	29.25	9.85	- 19.40		
GW-13	27.82	7.70	20.12		
GW-14	27.80	7.55	20.25		
GW-15	28.30	8.58	19.72		
GW-16	27.69	8.70	18.99		
DGW-1	25.41	5.90	19.51		
DGW-2	28.74	9.75	18.99		
DGW-3	27.96	10.00	17.96		
DGW-4	28.01	12.99	15.02		
		zometers			
PZ-2A	21.72	1.73	19.99		

Abbreviations: FT = Feet; NGVD = National Geodetic Vertical Datum; BTOC = Below Top-of-Casing

TABLE 4-4 WATER ELEVATION READINGS 4/15-23/2009

Well Identifier	Top-of-Casing Elevation (Ft-NGVD)	Depth -to-Water (Ft-BTOC)	Water Elevation (Ft-NGVD)		
	Y	Wells			
MW-1R	24.43	NR	NR		
MW-8A	28.64	11.75	16.89		
MW-9	35.11	18.16	16.95		
MW-10R	31.79	14.42	17.37		
CW-8A	26.13	9.37	16.76		
CW-9	26.58	9.60	16.98		
CW-10R	26.98	9.56	17.42		
GW-9	28.09	11.72	16.37		
GW-10	29.03	12.05	16.98		
GW-11	26.04	9.00	17.04		
GW-12	29.25	12.27	16.98		
GW-13	27.82	10.34	17.48		
GW-14	27.80	10.60	17.20		
GW-15	28.30	11.08	17.22		
GW-16	27.69	11.39	16.30		
GW-17	26.48	9.42	17.06		
GW-18	29.53	11.83	17.70		
GW-19	24.68	8.23	16.45		
GW-20	29.72	12.87	16.85		
GW-21	25.67	10.32	15.35		
GW-22	25.23	10.02	15.21		
GW-23	24.12	9.55	_ 14.57		
GW-24	25.63	9.39	16.24		
GW-25	25.28	8.87	16.41		
GW-26	26.20	9.85	16.35		
GW-27	27.90	11.17	16.73		
GW-28	31.75	14.05	17.70		
GW-29	28.26	11.88	16.38		
GW-30	24.97	9.78	15.19		
GW-31	24.00	9.05	14.95		

Abbreviations: FT = Feet; NGVD = National Geodetic Vertical Datum; BTOC = Below Top-of-Casing, NR = Not Reported

### TABLE 5-1 SUMMARY OF SOIL SPLP AND SPECIATION ANALYTICAL DATA FOR 2009 CENTRAL COUNTY SOLID WASTE DISPOSAL COMPLEX

Analyte	SB-P4-1-2	SB-P4-2-2	SB-P4-3-4	SB-P4-4-4	SB-P4-5-2	SB-P4-5-6	GCTL	NADSC
Anions								
Ammonia (mg/l)	0.051	0.100	0.147	0.224	0.580	0.557	2.8	28
Nitrate-N (mg/l)	2.0 V	2.0 V	2.3 V	2.1 V	1.8 V	2.2 V	10	100
Metals								
Arsenic (mg/l)	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.010	0.1
Arsenic Speciation*								<u> </u>
Arsenic III (mg/kg)	0.029	0.029	ND	ND	0.028	0.125	NA	NA
ruscine in (mg/kg)			> TP>	ND	ND	ND	NA	NA
Arsenic V (mg/kg)	ND	0.71	ND	ND	ND	ND	IVA	1471
	ND SB-P4-6-6	0.71 SB-P4-7-6	SB-P4-8-4	SB-P4-8-6	SB-P4-11-6	SB-P4-12-6	GCTL	NADSC
Arsenic V (mg/kg)								
Arsenic V (mg/kg) Analyte								
Arsenic V (mg/kg)  Analyte  Anions	SB-P4-6-6	SB-P4-7-6	SB-P4-8-4	SB-P4-8-6	SB-P4-11-6	SB-P4-12-6	GCTL	NADSC
Arsenic V (mg/kg)  Analyte  Anions  Ammonia (mg/l)	SB-P4-6-6 0.154	SB-P4-7-6 0.148	SB-P4-8-4 0.15	SB-P4-8-6 0.27	SB-P4-11-6 0.126	SB-P4-12-6 0.228	GCTL	NADSC 28
Arsenic V (mg/kg)  Analyte  Anions  Ammonia (mg/l)  Nitrate-N (mg/l)	SB-P4-6-6 0.154	SB-P4-7-6 0.148	SB-P4-8-4 0.15	SB-P4-8-6 0.27	SB-P4-11-6 0.126	SB-P4-12-6 0.228	GCTL	NADSC 28
Analyte  Anions Ammonia (mg/l) Nitrate-N (mg/l)  Metals	SB-P4-6-6 0.154 2.2 V	SB-P4-7-6 0.148 2.1 V	SB-P4-8-4 0.15 2.2 V	SB-P4-8-6 0.27 2.2 V	SB-P4-11-6 0.126 2.1 V	SB-P4-12-6 0.228 2.1 V	GCTL  2.8 10	NADSC  28 100
Arsenic V (mg/kg)  Analyte  Anions  Ammonia (mg/l)  Nitrate-N (mg/l)  Metals  Arsenic (mg/l)	SB-P4-6-6 0.154 2.2 V	SB-P4-7-6 0.148 2.1 V	SB-P4-8-4 0.15 2.2 V	SB-P4-8-6 0.27 2.2 V	SB-P4-11-6 0.126 2.1 V	SB-P4-12-6 0.228 2.1 V	GCTL  2.8 10	NADSC  28 100

**Bold** values = Groundwater Criteria Exceeded (GCTL)

All samples collected on April 28, 2009

I = Reported Value is Between Method Detection Limit and Practical Quantitation Limit

ND = Not Detected (less than 0.026 for AsIII or 0.15 mg/kg for AsV)

\* = No Dimethylarsinic acid or Monomethylarsinic acid detected in any soil samples

V = analyte also detected in method blank

U = Below Reported Detection Limits

NA = Not applicable

Groundwater Criteria = Chapter 62-777 FAC and Chapter 62-550 FAC



### SUMMARY OF SOIL ANALYTICAL DATA FOR 2008 ARSENIC SOIL DELINEATION IN THE PHASE II AREA

	SB-11R-4-2	SB-11R-4-4	SB-11R-4-6	GD 11D 5.0	GD 44D 5.4	00.440.4				<u> </u>		I
	3D-11R-4-2	3B-11K-4-4	SB-11R-4-6	SB-11R-5-2	SB-11R-5-4	SB-11R-5-6	SB-11R-6-2	SB-11R-6-4	SB-11R-6-6	Residential SCTLs	Commercial SCTLs	Leachability
Boring Depth	2' bls	4' bls	6' bls	2' bls	4' bls	6' bls	2' bls	4' bls	6' bls			<del>                                     </del>
Total Arsenic	0.57 I	0.26 U	0.69 I (0.28 I)	0.22 U	0.22 U	0.46 I	0.60 I	0.77 I	0.24 U	2.1	12	*
Total Chromium	7.2	0.26 U	1.1 (0.95 I)	2.7	0.22 U	1.9	16	17	1.1	210	470	38
Total Copper	0.067 U	0.078 U	0.071 U	0.066 U	0.067 U	0.07 U	0.066 U	0.067 U	0.071 U	150	89,000	*
Total Iron	1,600	43	1,900	NA	NA	NA	NA	NA	NA	53,000	N/A	*
Total Lead	2.0	0.26 U	0.52 I (0.50 I)	0.81 I	0.22 U	1.0	2.5	2.5	0.53 I	400	1400	*
Total Nitrogen	224	137	139 (165)	343	60.8	83.4	155	137	61.3	N/A	N/A	N/A
	SB-11R-7-2	SB-11R-7-4	SB-11R-7-6	SB-11R-8-2	SB-11R-8-4	SB-11R-8-6	SB-11R-9-2	SB-11R-9-4	SB-11R-9-6	Residential SCTLs	Commercial SCTLs	Leachability
Boring Depth	2' bls	4' bls	6' bls	2' bls	4' bls	6' bls	2' bls	4' bls	6' bls			
Total Arsenic	0.84 I	0.34 I (0.61 I)	0.24 U	3.8	0.25 U	0.24 U	1.0	0.83 I	0.25 U	2.1	12	*
Total Chromium	17	13	0.71 I	22	0.26 I	1.0	23	17	0.29 I	210	470	38
Total Copper	0.067 U	0.072 U	0.072 U	1.0	0.074 U	0.071 U	1.3	0.074 U	0.074 U	150	89,000	*
Total Iron	NA	NA	NA	2,400	120	150	NA	NA	NA	53,000	N/A	*
Total Lead	2.5	2.4 (2.1)	0.24 U	1.7	0.25 U	0.24 U	2.6	2.6	0.25 U	400	1400	*
Total Nitrogen	214	93.9 (82.6)	86.1	50.2	375	172	111	119	32.9	N/A	N/A	N/A
	<u> </u>	SB-11R-10-4	SB-11R-10-6	SB-11R-11-2	SB-11R-11-4	SB-11R-11-6	SB-11R-12-2	SB-11R-12-4	SB-11R-12-6	Residential SCTLs	Commercial SCTLs	Leachability
Boring Depth	2' bls	4' bls	6' bls	2' bls	4' bls	6' bls	2' bls	4' bls	6' bls			
Total Arsenic	<b>2.2</b> (1.4)	0.44 I	0.24 U	0.33 I	0.25 U	1.5	0.45 I	0.23 U	0.69 I	2.1	12	*
Total Chromium	15 (13)	25	1.7	12	0.66 I	0.62 I	4.4	0.23 U	0.69 I	210	470	38
Total Copper	0.076 U	0.99	0.072 U	0.067 U	0.074 U	0.069 U	0.066 U	0.068 U	0.071 U	150	89,000	*
Total Iron	NA	NA	NA	NA	NA	NA	690	16	1,900	53,000	N/A	*
Total Lead	2.6 (2.5)	3.8	0.24 U	1.8	0.25 U	0.23 U	0.90	0.23 U	0.24 U	400	1400	*
Total Nitrogen	90.7 (95.5)	158	51.9	181	104	149	202	53.5	95	N/A	N/A	N/A
	SB-11R-13-2	SB-11R-13-4	SB-11R-13-6	SB-11R-14-2	SB-11R-14-4	SB-11R-14-6	SB-11R-15-2	SB-11R-15-4	SB-11R-15-6	Residential SCTLs	Commercial SCTLs	Leachability
Boring Depth	2' bls	4' bls	6' bls	2' bls	4' bls	6' bls	2' bls	4' bls	6' bls			
Total Arsenic	1.4	0.22 U	0.23 U	1.4	1.7	3.2 (2.8)	1.2	1.6	0.9 I	2.1	12	*
Total Chromium	18	0.34 I	0.75	2.3	0.55 I	0.59 I (0.54 I)	7.1	12	0.54 I	210	470	38
Total Copper	1.0	0.067 U	0.068 U	0.067 U	0.068 U	0.076 U	0.066 U	0.068 U	0.069 U	150	89,000	*
Total Iron	NA	NA	310	NA	NA	NA	NA	NA	NA	53,000	N/A	*
Total Lead	2.2	0.22 U	0.23 U	0.95	0.23 U	0.25 U (0.24 U)	1.2	2.0	0.23 U	400	1400	*
Total Nitrogen	280	82	104	203	174	37.8 (29.9)	151	119	116	N/A	N/A	N/A

#### Notes:

All samples collected on May 21, 2008  $\,$ 

All results in Milligrams per killogram

bls = below land surface

Standard = Chapter 62-777 Florida Administratice Code

NA= Not analyzed for that parameter

Duplicate results in parentheses (if different)

N/A = Not applicable

Bolded values indicate contaminant exceeding residential SCTLs but not industrial SCTLs.

<sup>\*</sup> Leachability values on Groundwater Criteria for lead may be derived using SPLP Test to calculate site specific SCTLs or may be determined using TCLP in the event oily wastes are derived.

TABLE 5-3 SUMMARY OF SOIL SPLP ANALYTICAL DATA FOR 2008 CENTRAL COUNTY SOLID WASTE DISPOSAL COMPLEX

Analyte	SB-11R-4-2	SB-11R-4-4	SB-11R-4-6	SB-11R-5-6	GCTL	NADSC
Anions						
Ammonia	0.21	0.47	0.42	0.51	2.8	28
Nitrate-N	2.4	2.2	2.0	2.1	10	100
Metals						
Arsenic	0.011 I	0.0048 U	0.0048 U	0.0048 U	0.010	0.1
					2011 Ref (1901 1970 - 19 - 1 A) A)	AN

Notes: All values in Milligrams per liter

All samples collected on May 21, 2008

**Bold** values = Groundwater Criteria Exceeded (GCTL)

I = Reported Value is Between Method Detection Limit and Practical Quantitation Limit

U = Below Reported Detection Limits

Groundwater Criteria = Chapter 62-777 FAC and Chapter 62-550 FAC

### TABLE 5-4 SUMMARY OF SOIL ANALYTICAL DATA FOR SB-11R-3 ARSENIC SOIL DELINEATION IN THE PHASE II AREA

	SB-11R-3-2	SB-11R-3-4	SB-11R-3-6	Residential SCTLs	Commercial SCTLs	Leachability
Boring Depth	2' bls	4' bls	6' bls			
Total Arsenic	0.27 U	0.22 U	4.3	2.1	12	*
Total Chromium	5.9	2.3	1.7	210	470	38
Total Copper	0.082 U	0.065 U	0.072 U	150	89000	*
Total Iron	720	330	6,800	53,000	N/A	*
Total Lead	2.1	1.1	1	400	1400	*
Total Nitrogen	200	200	100 U	N/A	N/A	N/A

#### Notes:

All results in Milligrams per killogram

All samples collected on July 7, 2008

bls = below land surface

Standard = Chapter 62-777 Florida Administratice Code

Bolded values indicate contaminant exceeding residential SCTLs but not industrial SCTLs.

<sup>\*</sup> Leachability values on Groundwater Criteria for lead may be derived using SPLP Test to calculate site specific SCTLs



### SUMMARY OF SOIL ANALYTICAL DATA FOR 2009 ARSENIC SOIL DELINEATION IN THE PHASE IV AREA

	SB-P4-1-2	SB-P4-1-4	SB-P4-1-6	SB-P4-2-2	SB-P4-2-4	SB-P4-2-6	SB-P4-3-2	SB-P4-3-4	SB-P4-3-6	Residential SCTLs	Commercial SCTLs	Leachability
Boring Depth	2' bls	4' bls	6' bls	2' bls	4' bls	6' bls	2' bls	4' bls	6' bls	<u> </u>		<u> </u>
Total Arsenic	1.0	1.0 I	3.8	2.0	1.1	0.39 I	3.0 (0.75 I)	0.27 U	0.25 U	2.1	12	*
Total Chromium	22	NA	NA	24	NA	NA	NA	0.71 I	NA	210	470	38
Total Copper	0.071 U	NA	NA	1.1	NA	NA	NA	0.082 U	NA	150	89,000	*
Total Iron	2,300	NA	NA	4,000	NA	NA	NA	270	NA	53,000	N/A	*
Total Lead	2.3	NA	NA	2.6	NA	NA	NA	1.0 I	NA	400	1400	*
Total Nitrogen	1,300	NA	NA	1,220	NA	NA	NA	3,700	NA	N/A	N/A	N/A
	SB-P4-4-2	SB-P4-4-4	SB-P4-4-6	SB-P4-5-2	SB-P4-5-4	SB-P4-5-6	SB-P4-6-2	SB-P4-6-4	SB-P4-6-6	Residential SCTLs	Commercial SCTLs	Leachability
Boring Depth	2' bls	4' bls	6' bls	2' bls	4' bls	6' bls	2' bls	4' bls	6' bls			
Total Arsenic	0.24 U	0.24 U	0.24 U	0.94 I	0.98 I	8.9	0.75 I	0.38 I (0.47 I)	0.39 I	2.1	12	*
Total Chromium	NA	0.24 U	NA	13	NA	5.0	NA	NA	0.90 I	210	470	38
Total Copper	NA	0.071 U	NA	0.077 U	NA	0.073 U	NA	NA	0.072 U	150	89,000	*
Total Iron	NA	73	NA	2,600	NA	6,800	NA	NA	460 V	53,000	N/A	*
Total Lead	NA	0.67 I	NA	1.9	NA	0.82 I	NA	NA	0.87 I	400	1400	*
Total Nitrogen	NA	3,000	NA	1,200	NA	1,900	NA	NA	400	N/A	N/A	N/A
	SB-P4-7-2	SB-P4-7-4	SB-P4-7-6	SB-P4-8-2	SB-P4-8-4	SB-P4-8-6	SB-P4-9-2	SB-P4-9-4	SB-P4-9-6	Residential SCTLs	Commercial SCTLs	Leachability
Boring Depth	2' bls	4' bls	6' bls	2' bls	4' bls	6' bls	2' bls	4' bls	6' bis			
Total Arsenic	0.25 U	0.25 U	0.24 U	0.77 I	0.34 I	0.29 I	1.3	0.25 U	0.39 I (0.45 I)	2.1	12	*
Total Chromium	NA	NA	2.2	NA	0.27 I	0.82 I	NA	NA	NA	210	470	38
Total Copper	NA	NA	0.073 U	NA	0.068 U	0.071 U	NA	NA	NA	150	89,000	*
Total Iron	NA	NA	820	NA	280	1,500	NA	NA	NA	53,000	N/A	*
Total Lead	NA	NA	0.93 I	NA	0.61 I	0.48 I	NA	NA	NA	400	1400	*
Total Nitrogen	NA	NA	660	NA	1,600	890	NA	NA	NA	N/A	N/A	N/A
	SB-P4-10-2	SB-P4-10-4	SB-P4-10-6	SB-P4-11-2	SB-P4-11-4	SB-P4-11-6	SB-P4-11-2	SB-P4-12-4	SB-P4-12-6	Residential SCTLs	Commercial SCTLs	Leachability
Boring Depth	2' bls	4' bls	6' bls	2' bls	4' bls	6' bls	2' bls	4' bls	6' bls			
Total Arsenic	0.41 I	0.24 U	0.59 I	0.22 U	0.41 I	0.77 I	0.25 U	0.66 I	0.24 U (0.41 I)	2.1	12	*
Total Chromium	NA	NA	NA	NA	NA	14	NA	NA	17	210	470	38
Total Copper	NA	NA	NA	١NA	NA	0.071 U	NA	NA	0.071 U	150	89,000	*
Total Iron	NA	NA	NA	NA	NA	2,300	NA	NA	2,800	53,000	N/A	*
Total Lead	NA	NA	NA	NA	NA	2.3	NA	NA	2.5	400	1400	*
Total Nitrogen	NA	NA	NA	NA	NA	1,500	NA	NA	760	N/A	N/A	N/A

#### Notes:

All samples collected on April 28, 2009 All results in Milligrams per killogram

bls = below land surface Standard = Chapter 62-777 Florida Administratice Code NA= Not analyzed for that parameter

Duplicate results in parentheses (if different)

I = value between laboratory method detection limit and practical quantitation limit

Bolded values indicate contaminant exceeding residential SCTLs but not industrial SCTLs. V = cc

V = compound also detected in method blank

<sup>\*</sup> Leachability values on Groundwater Criteria for lead may be derived using SPLP Test to calculate site specific SCTLs or may be determined using TCLP in the event oily wastes are derived.

Table 5-6
Groundwater Analytical Summary for 2008
July 28 - 31, 2008

		Well:	MW-1R	MW-8A	MW-9	MW-10R	MW-11R	MW-12R	CW-8A	CW-9	CW-10R	CW-11R
Analyte												
	Sam	pling Date:	7/31/2008	7/29/2008	7/30/2008	7/31/2008	7/29/2008	7/29/2008	7/29/2008	7/30/2008	7/29/2008	7/29/2008
	Standard <sup>(1)</sup>	Units										
Field Measurements												
Temperature		degrees C	26.02	27.4	28.2	26.22	27.5	28.4	27.3	27.7	27.5	27.4
pН	6.5-8.5*	STD	7.31	6.82	6.38	6.94	6.33	6.5	5,44	6.33	5.92	6.11
Conductivity		umhos/cm	630	1630	1760	1554	1140	113	820	1420	153	917
Dissolved Oxygen (DO)		mg/l	0.62	0.09	0.09	0.42	0.21	0.07	0.08	0.07	0.2	0.07
OxidReduct. Potential (ORP)	Fe Reduct -50	millivolts	61	-107	-116	-71	-68	-94	-41	-94	-74	-77
Ferrous Iron (Fe 2+)		mg/l	0.05	1	1.4	2.8	2.2	1.6	1.15	1.8	2.2	
Turbidity		NTU	27.1	1.91	14.1	4.46	2.07	5.1	5.28	17.1	7.85	5,96
Analyte												
Arsenic	10	ug/l	4.8 U	48	52	7 I	14 I	12 I	-53	53 (38)	9 I	20
Chloride	250*	mg/l	29	44	43	83	48	57	70	30 (30)	42	15
Iron	300*	ug/l	1,100 V	150,000 V	44,000 V	66,000 V	2,900 V	2,000 V	62,000 V	16,000 V (12,000)	15,000 V	17,000 V
Manganese	50*	ug/l	26	17	32	16	16	29	18	43 (45)	52	38
Nitrate Nitrogen	10	mg/l	0.014 U	0.014 U	0.16	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U (0.014U)	0.014 U	0.014 U
Sodium	160	mg/l	22	71	45	83	44	47	40	48 (46)	53	24
Sulfate	250*	mg/l	12	0.036 U	0.036 U	0.036 U	150	93	28	110 (133)	220	17
Total Alkalinity		mg/l	260	760	850	480	300	360	150	550 (530)	470	480
Total Ammonia-N	2.8	mg/l	0.148	18.2	13.8	11.4	0.594	1.01	5.68	3.1 (1.78)	2.52	2.82
Total Dissolved Solids (TDS)	500*	mg/l	404	876	1024	816	800	856	476	976 (924)	1024	680
Total Organic Carbon		mg/l	16.2	92.5	61.80	70.70	60.6	75.10	44.40	38.3 (37.6)	30.1	48.3
Speciated Arsenic												
Arsenic 3+ - As(III)		ug/l	NS	NS	NS							
Arsenic 5+ - As(V)		ug/l	NS	NS	NS							
DMAs		ug/l	NS	NS	NS							
MMAs		ug/l	NS	NS	NS							

Duplicate values in parenthesis

Notes: (1) - Maximum Contaminant Level, as established in Chapter 62-550. \* = Secondary Drinking Water Standards (SDWSs). Shading = an exceedance of its MCL or SDWS. V = compound also detected in laboratory method blank. Abbreviations: U = below detection limits., umhos/cm = microohms per centimeter; mg/l = miligrams per liter; NTU = nephelometric turbidity units; ug/l = micrograms per liter; NS = Not Sampled, ND = Not Detected. I = less than PQL.

### Table 5-6 (Continued) Groundwater Analytical Summary for 2008 July 28 - 31, 2008

		Well:	GW-1	GW-2	GW-3	GW-4	GW-5	GW-6	GW-7	GW-8	GW-9	GW-10
Analyte												
	San	npling Date:	7/29/2008	7/28/2008	7/29/2008	7/29/2008	7/29/2008	7/30/2008	7/30/2008	7/30/2008	7/30/2008	7/29/2008
	Standard <sup>(1)</sup>	Units										
Field Measurements												
Temperature		degrees C	28.02	26.19	27.84	27.15	30.44	27.32	28.33	27.6	26.84	26.82
pH	6.5-8.5*	STD	6.63	6.66	6.02	6.2	6.08	6.68	6.61	7.1	6.24	6.04
Conductivity		umhos/cm	796	590	3000	4000	2000	778	832	3626	1324	1300
Dissolved Oxygen (DO)		mg/1	0.81	0.62	0.71	0.78	0.65	0.44	0.38	0.39	0.36	0.26
OxidReduct. Potential (ORP)		millivolts	-108	32	23	-34	-73	-28	-50	-98	-93	0
Ferrous Iron (Fe 2+)		mg/l	1.5	0.7	2.6	4	2	3	2.2	2.95	1.2	2
Turbidity		NTU	0.89	69	2.63	49.19	1.54	156	124	3.4	4.34	4.6
Analyte												
Arsenic	10	ug/l	4.8 U	4.8 U	4.8 U	4.8 U	21	4.8 U	19 (21)	7 I	4.8 U	8 I
Chloride	250*	mg/l	33	53	38	47	140	34	15 (16)	120	120	62
Iron	300*	ug/l	1,400 V	6,200	18,000 V	23,000 V	48,000 V	8,200 V	50,000 V (75,000)	14,000 V	60,000 V	4,600 V
Manganese	50*	ug/i	16	5.2	5.2	29	110	33	18 (73)	36	31	16
Nitrate Nitrogen	10	mg/l	0.014 U	0.15 (0.14)	0.014 U	0.014 U	0.014 U					
Sodium	160	mg/l	14	46	16	46	79	25	14 (16)	460	93	52
Sulfate	250	mg/l	100	58	0.036 U	5	11	16	3,3 (6.4)	470	0.036 U	190
Total Alkalinity		mg/l	160	170	40	250	430	400	320 (320)	1100	410	390
Total Ammonia-N	2.8	mg/l	1.3	0.12	0,171	2.15	0.115	2.24	11.7 (11.2)	1.06	0.489	0.306
Total Dissolved Solids (TDS)	500*	mg/l	532	404	188	492	828	488	484 (460)	2216	848	872
Total Organic Carbon		mg/l	18.5	10.8	6.78	51.60	41.9	26.30	52.3 (58.3)	43.8	90	13.7
Speciated Arsenic												
Arsenic 3+ - As(III)		ug/l	0.41	NS	0.54	4.3	9.63	2.57	18.3	5.67	NS	7.29
Arsenic 5+ - As(V)		ug/l	ND	NS	0.44	0.94	1.58	1.06	3.29	0.89	NS	0.91
DMAs		ug/l	ND	NS	ND	ND	0.27	ND	ND	ND	NS	ND
MMAs		ug/l	ND	NS	ND	ND	ND	ND	ND	ND	NS	ND

Duplicate values in parenthesis

Notes: (1) - Maximum Contaminant Level, as established in Chapter 62-550. \* = Secondary Drinking Water Standards (SDWSs). Shading = an exceedance of its MCL or SDWS. V = compound also detected in laboratory method blank.

Abbreviations: U = below detection limits., umhos/cm = microohms per centimeter, mg/l = miligrams per liter; NTU = nephelometric turbidity units; ug/l = micrograms per liter; NS = Not Sampled, ND = Not Detected. I = less than PQL.

### Table 5-6 Continued) Groundwater Analytical Summary for 2008 July 28 - 31, 2008

		Well:	GW-11	GW-12	GW-13	GW-14	GW-15	GW-16	DGW-1	DGW-2	DGW-3	DGW-4
Analyte	Sam Standard <sup>(1)</sup>	pling Date: Units	7/28/2008	7/30/2008	7/30/2008	7/30/2008	7/29/2008	7/29/2008	7/28/2008	7/29/2008	7/30/2008	7/30/2008
Field Measurements												
Temperature		degrees C	26.52	26.91	26.68	26.59	28.64	27.57	26.5	26.11	27.09	27.79
pH	6.5-8.5*	STD	6.41	6,38	6.46	6.61	6.39	6.53	7.25	6.73	7.08	7.16
Conductivity		umhos/cm	856	1616	1392	1776	2927	1830	4155	1652	813	1614
Dissolved Oxygen (DO)		mg/l	0.26	0.43	0.36	0.4	0.13	0.6	1.41	0.29	0.34	1.54
OxidReduct. Potential (ORP)	Fe Reduct -50	millivolts	-81	-32	-110	-98	-76	-86	125	-98	-119	-99
Ferrous Iron (Fe 2+)		mg/l	2.8	3.7	1.8	1.2	1.2	2.6	0.05	2.4	3	3,25
Turbidity		NTU	105.4	5.82	10.09	3.09	2.23	2.98	12.7	2.37	30.7	3.21
Analyte												
Arsenic	10	ug/l	12 I	8 I	4.8 U	15 1	210 (230)	1100	4.8 U	4.8 U	8 I	4.8 U
Chloride	250*	mg/l	53	43	70	210	250 (250)	120	970	82	45	260
Iron	300*	ug/l	48,000	12,000 V	48,000 V	14,000 V	23,000 V (23,000)	19,000 V	280	3100 V	17,000 V	17,000 V
Manganese	50*	ug/l	36	65	19	41	34 V (33V)	16 V	10	5.9 V	17	19
Nitrate Nitrogen	10	mg/l	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U (0.23)	0.014 U				
Sodium	160	mg/l	68	84	76	170	130 (130)	140	260	180	38	120
Sulfate	250	mg/l	3.3	350	0.036 U	47	450 (450)	1.8	170	0.036 U	1.8	0.036 U
Total Alkalinity		mg/l	200	380	570	590	690 (700)	780	440	760	310	380
Total Ammonia-N	2.8	mg/l	0.306	6.66	0.438	1.87	10.1 (10.4)	25.1	0,534	0.823	0.382	0.45
Total Dissolved Solids (TDS)	500*	mg/l	624	1196	844	1180	2024 (2044)	1044	2320	1024	532	1012
Total Organic Carbon		mg/l	119	47.4	40.40	41.50	73.6 (75.4)	71.50	18.90	32.6	28	29.1
Speciated Arsenic												
Arsenic 3+ - As(III)		ug/l	NS	4.14	NS	NS	183	NS	NS	5.34	5.65	1.43
Arsenic 5+ - As(V)		ug/l	NS	0.67	NS	NS	12.5	NS	NS	0.74	0.91	0.5
DMAs		ug/l	NS	ND	NS	NS	0.25	NS	NS	ND	ND	ND
MMAs		ug/l	NS	ND	NS	NS	ND	NS	NS	ND	ND	ND

Duplicate values in parenthesis

Notes: (1) - Maximum Contaminant Level, as established in Chapter 62-550. \* = Secondary Drinking Water Standards (SDWSs). Shading = an exceedance of its MCL or SDWS. V = compound also detected in laboratory method blank.

Abbreviations: U = below detection limits., umhos/cm = microohms per centimeter; mg/l = miligrams per liter; NTU = nephelometric turbidity units; ug/l = micrograms per liter; NS = Not Sampled, ND = Not Detected. I = less than PQL.

Table 5-7
Groundwater Analytical Summary - Follow-Up Sampling in the Phase IV Area
April 22 & 23, 2009

		Well:	GW-10	GW-11	GW-14	GW-15	GW-16	GW-17	GW-18	GW-19	GW-20
Analyte											
	Sam	pling Date:	4/23/2009	4/22/2009	4/23/2009	4/23/2009	4/23/2009	4/22/2009	4/22/2009	4/22/2009	4/22/2009
	Standard <sup>(1)</sup>	Units									
Field Measurements											
Temperature		degrees C	26.4	25.0	26.7	24.09	24.26	25.4	23.48	26.5	25.53
pН	6.5-8.5*	STD	6.30	6,27	6.53	6.63	6.62	6.80	6,23	6.66	6.86
Conductivity		umhos/cm	1,280	853	2,380	2,757	1,671	1,690	1,105	1,380	1,466
Dissolved Oxygen (DO)		mg/1	0.15	0.20	0.25	1.3	0.85	0.2	1.27	0.4	0.28
OxidReduct. Potential (ORP)		millivolts	-97.3	-55.3	-84.6	-122.8	-132.4	-36.7	-105.3	-61.3	-114.6
Ferrous Iron (Fe 2+)		mg/l	1.8	2.0	2.2	3.5	2.8	1.4	2.1	2.4	2.6
Turbidity		NTU	5.14	47.1	8.42	8.1	0.85	9.8	2.22	4.44	9
Analyte											
Arsenic	10	ug/l	4.8 U	4.8 U	41	170 (140)	230 (220)	18 I	4.8 U	4.8 U	15 I
Chloride	250*	mg/l	NS	NS	220	370	66 (66)	NS	NS	NS	109
Iron	300*	ug/l	5,900	24,000	38,000	32,000 (31,000)	30,000 (29,000)	3,300	8,000	5,900	3,600
Manganese	50*	ug/l	NS	NS	8.0	15	10 (10)	NS	NS	NS	11
Nitrate Nitrogen	10	mg/l	NS	NS	0.014 U	0.014 U	0.014 U (0.014 U)	NS	NS	NS	0.014 U
Sodium	160	mg/l	NS	NS	180 V	120 V	87 V (86 V)	NS	NS	NS	210 V
Sulfate	250	mg/l	NS	NS	2.1	37	0.036 U (0.036 U)	NS	NS	NS	3.2
Total Alkalinity		mg/l	NS	NS	860	770	710 (720)	NS	NS	NS	570
Total Ammonia-N	2.8	mg/l	0.290	0.414	14.4	10.1 (10.7)	17.3 (17.3)	0.123	0.750	0.133	0.716
Total Dissolved Solids (TDS)	500*	mg/l	832	584	1,336	1,728 (1,692)	900 (904)	956	708	768	940
Total Organic Carbon		mg/l	NS	NS	44	55	40 (38)	NS	NS	NS	57
Speciated Arsenic											
Arsenic 3+ - As(III)		ug/l	2.19	1.37	27.1	106	145	6.99	3.59	4.24	5.22
Arsenic 5+ - As(V)		ug/l	3.25	0.401	9.61	40.2	33.8	9.40	2.73	0.561	8.70
DMAs		ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND
MMAs		ug/l	0.090	ND	ND	ND	ND	ND	ND	ND	ND

Duplicate values in parenthesis

Notes: (1) - Maximum Contaminant Level, as established in Chapter 62-550. \*= Secondary Drinking Water Standards (SDWSs). Shading = an exceedance of its MCL or SDWS. V = compound also detected in laboratory method blank.

Abbreviations: U = below detection limits.; umhos/cm = microohms per centimeter; mg/l = miligrams per liter; NTU = nephelometric turbidity units; ug/l = micrograms per liter; NS = Not Sampled, ND = Not Detected (less than 0.032 ug/l). I = less than PQL. DMA = Dimethylarsinic acid, MMA = Monomethylarsinic acid

Table 5-7 (continued) Groundwater Analytical Summary - Follow-Up Sampling in the Phase IV Area April 22 & 23, 2009

		Well:	GW-21	GW-22	GW-23	GW-24	GW-25	GW-26
Analyte								
	Sam	pling Date:	4/22/2009	4/23/2009	4/23/2009	4/22/2009	4/22/2009	4/22/2009
	Standard <sup>(1)</sup>	Units						
Field Measurements								
Temperature		degrees C	25,5	20.9	23.6	23.6	23.04	23.7
pH	6.5-8.5*	STD	6.77	6.90	6.67	6.75	6.82	6.37
Conductivity		umhos/cm	1,720	3,810	923	1,679	1,303	1,277
Dissolved Oxygen (DO)		mg/1	0.21	0.46	0.30	0.76	0.39	1.04
OxidReduct. Potential (ORP)	Fe Reduct -50	millivolts	-83.9	-64.5	-70.3	-152.9	-112.0	-91.2
Ferrous Iron (Fe 2+)		mg/l	1.6	2.8	1.8	2.6	2.8	2.4
Turbidity		NTU	1.91	207	8.3	1.15	16	2.17
Analyte								
Arsenic	10	ug/l	4.8 U	4.8 U	4.8 U	4.8 U	9 I	101
Chloride	250*	mg/l	340	NS	NS	NS	75	NS
ron	300*	ug/l	6,800	7,700	11,000	7,600	4,900	19,000
Manganese	50*	ug/l	18	NS	NS	NS	7	NS
Nitrate Nitrogen	10	mg/l	2.1	NS	NS	NS	0.014 U	NS
Sodium	160	mg/l	180 V	NS	NS	NS	130 V	NS
Sulfate	250	mg/l	3.8	NS	NS	NS	0.036 U	NS
Total Alkalinity	Marie Marie (C. 1884) Tropical Assessa (Assessa (Assessa (C. 1884)	mg/l	, 330	NS	NS	NS	550	NS
Total Ammonia-N	2.8	mg/l	0.143	0.157	0.223	0.208	0.125	0.580
Total Dissolved Solids (TDS)	500*	mg/l	1,020	2,492	608	956	836	776
Total Organic Carbon		mg/l	39	NS	NS	NS	57	NS
Speciated Arsenic								
Arsenic 3+ - As(III)		ug/l	4.72	2.30	NS	4.33	2.64	NS
Arsenic 5+ - As(V)		ug/l	1.44	2.61	NS	1.40	9.46	NS
DMAs	and the second of the contrada to the contrada	ug/l	ND	ND	NS	ND	ND	NS
MMAs		ug/l	ND	ND	NS	ND	ND	NS

Notes: (1) - Maximum Contaminant Level, as established in Chapter 62-550. \* = Secondary Drinking Water Standards (SDWSs). Shading = an exceedance of its MCL or SDWS. V = compound also Abbreviations: U = below detection limits.; umhos'cm = microohms per centimeter; mg/l = miligrams per liter; NTU = nephelometric turbidity units; ug/l = micrograms per liter; NS = Not Sampled, ND = Not Detected (less than 0.032 ug/l). I = less than PQL. DMA = Dimethylarsinic acid, MMA = Monomethylarsinic acid

Table 5-8
Groundwater Analytical Summary-Filtered Metals Samples
July 28 - 31, 2008

		Well:	MW-1R	GW-2	GW-4	GW-6	GW-7	Dup GW-7	GW-11	GW-13	DGW-3	DGW-4
Analyte												
	Sam	pling Date:	7/31/2008	7/28/2008	7/29/2008	7/30/2008	7/30/2008	7/30/2008	7/28/2008	7/30/2008	7/30/2008	7/30/2008
	Standard <sup>(1)</sup>	Units										
Filtered Metals												
Arsenic	10	ug/l	4.8 U	4.8 U	4.8 U	4.8 U	17 I	19	6 I	4.8 U	4.8 U	4.8 U
Iron	300*	ug/l	190 V	1,200	22,000 V	5,200	46,000	46,000	30,000	44,000	17,000	16,000
Manganese	50*	ug/l	25	4.6	27	28	11	11	31	18	16	17
Sodium	160*	mg/l	23	45	47	27	15	14	68	77	42	120

Notes: (1) - Maximum Contaminant Level, as established in Chapter 62-550. \* = Secondary Drinking Water Standards (SDWSs). Shading = an exceedance of its MCL or SDWS. V = compound also detected in laboratory method blank. Abbreviations: U = below detection limits., mg/l = milligrams per liter; ug/l = micrograms per liter; I = value is greater than detection limit but less than Practical Quantitation Limit.

Revised 7/14/08.

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Table 5-9 Groundwater Analytical Summary - Follow-Up Sampling in Western Zone and Phase III Area April 15 & 16, 2009

		Well:	GW-9	GW-12	GW-13	GW-27	GW-28	GW-29	GW-30	GW-31
Analyte										
		pling Date:	4/16/2009	4/16/2009	4/15/2003	4/15/2009	4/15/2009	4/15/2009	4/15/2009	4/15/2009
	Standard <sup>(1)</sup>	Units								
Field Measurements										
Temperature		degrees C	22.55	22.22	22.43	22.77	23.7	25.2	24.19	23.2
pH	6.5-8.5*	STD	6.24	5.98	6.34	5.39	5.61	6.32	7,77	6.12
Conductivity		umhos/cm	1904	1105	1559	750	1810	1080	1128	1110
Dissolved Oxygen (DO)		mg/1	0.99	1.48	1.24	1.92	1.13	1,16	5.59	0.95
OxidReduct. Potential (ORP)	Fe Reduct -50	millivolts	-93.4	-158.7	-105.1	6.4	-195.6	36.7	-49.5	-99
Ferrous Iron (Fe 2+)		mg/l	3.0	1.4	2.6	1.0	1.1	0.6	0.4	0.8
Turbidity		NTU	9.16	7.67	2.80	20.1	9.04	7.9	185	10.7
Analyte										
Arsenic	10	ug/l	24	4.8 U (4.8 U)	4.8 U					
Iron	300*	ug/l	46,000	1,900 (1,900)	36,000	15,000	8,500	1,400	3,300	14,000
Total Ammonia-N	2.8	mg/l	31.6	27.7 (27.4)	3.19	2.63	14.7	3.41	0.328	0.376
Total Dissolved Solids (TDS)	500*	mg/l	1044	688 (700)	888	624	1180	596	672	632

Duplicate values in parenthesis

Notes: (1) - Maximum Contaminant Level, as established in Chapter 62-550. \* = Secondary Drinking Water Standards (SDWSs). Shading = an exceedance of its MCL or SDWS. V = compound also detected in laboratory Abbreviations: U = below detection limits.; umhos/cm = microohms per centimeter; mg/l = miligrams per liter; NTU = nephelometric turbidity units; ug/l = micrograms per liter; I = less than PQL.

Table 5-10
Groundwater Analytical Summary-Filtered Metals Samples
April 15 - 23, 2009

								· · · · · · · · · · · · · · · · · · ·	
		Well:	GW-9	GW-11	GW-20	GW-22	GW-25	GW-27	GW-30
Analyte									
	Sam	pling Date:	4/16/2009	4/22/2009	4/22/2009	4/23/2009	4/22/2009	4/15/2009	4/15/2009
	Standard <sup>(1)</sup>	Units							
Filtered Metals									
Arsenic	10	ug/l	22	4.8 U	91	4.8 U	9 I	4.8 U	4.8 U
Iron	300*	ug/l	45,000	24,000	3,400	7,100	4,700	11,000	3 I

Notes: (1) - Maximum Contaminant Level, as established in Chapter 62-550. \*= Secondary Drinking Water Standards (SDWSs). Shading = an exceedance of its MCL or SDWS.

Abbreviations: U = below detection limits., mg/l = milligrams per liter; ug/l = micrograms per liter; l = value is greater than detection limit but less than Practical Quantitation Limit.

4

TABLE 5-11 SUMMARY OF SURFACE WATER ANALYTICAL DATA CENTRAL COUNTY SOLD WASTE DISPOSAL COMPLEX

Analyte	Pond 1	Grabdup1	Pond 2	Grabdup2	Pond 3	Pond 4	Pond 5	Pond 6	Pond 7	Surface Water Criteria
Sampling Date	(4/9/09)	(4/10/09)	(4/9/09)	(4/10/09)	(4/9/09)	(4/9/09)	(4/8/09)	(4/8/09)	(4/8/09)	
Arsenic	12 I	15 I	4.8 U	4.8 U	4.8 U	4.8 U	4.8 U	4.8 U	4.8 U	50
Iron	650 V	1,000 V	460	560 V	910 V	530 V	760 V	1,300 V	550 V	1,000
ORP	42.1	N/A	-42	N/A	-1.2	2.5	34.5	-28.3	-36.3	-
Fe 2+	0	N/A	0	N/A	0	0	0	0	0	-
Turbidity	42.5	N/A	26.1	N/A	48.4	19.2	34.9	49.7	17.7	•
pН	8.7	N/A	8.41	N/A	8.48	8.29	8.82	9.27	8.56	-
Temperature	25.1	N/A	23.3	N/A	19.1	16.47	25.37	23.59	24.3	-
Conductivity	1,021	N/A	898	N/A	323	314	301	368	370	-
Dissolved Oxygen	9.36	N/A	7.91	N/A	9.42	8.11	10.24	12.51	9.40	-

Notes: All analytical results in Micrograms per liter

Fe 2+ results in mg/l, Turbidity results in NTUs, Temperature results in degrees Celsius pH results in Standard units, Conductivity results in uS/cm, Dissolved Oxygen results in mg/l

N/A = Not Applicable (data not collected)

U = Below Method Detection Limit (shown as "U" on laboratory sheets)

I = Result is between Method Detection Limit and Practical Quantitation Limit

V = Analyte was detected in both the sample and the associated method blank

Surface Water Criteria = Chapter 62-302.530 FAC for Class III Fresh Water

Results in bold indicate exceedence of Surface Water Criteria (MCL)

### TABLE 5-11 (continued) SUMMARY OF SURFACE WATER ANALYTICAL DATA CENTRAL COUNTY SOLD WASTE DISPOSAL COMPLEX

Analyte	Myakka-1	Myakka -2	Surface Water Criteria
Sampling Date	(4/9/09)	(4/9/09)	
Arsenic	4.8 U	4.8 U	50
Iron	120 V	180 V	1,000
ORP	N/A	N/A	-
Fe 2+	N/A	N/A	-
Turbidity	N/A	N/A	-
pН	N/A	N/A	-
Temperature	N/A	N/A	-
Conductivity	N/A	N/A	-
Dissolved Oxygen	N/A	N/A	-

Notes: All analytical results in Micrograms per liter

Fe 2+ results in mg/l, Turbidity results in NTUs, Temperature results in degrees Celsius pH results in Standard units, Conductivity results in uS/cm, Dissolved Oxygen results in mg/l N/A = Not Applicable - analyte not evaluated in this sample

U = Below Method Detection Limit (shown as "U" on laboratory sheets)

I = Result is between Method Detection Limit and Practical Quantitation Limit

V = Analyte was detected in both the sample and the associated method blank Surface Water Criteria = Chapter 62-302.530 FAC for Class III Fresh Water

Results in bold indicate exceedence of Surface Water Criteria (MCL)

**APPENDICES** 

# APPENDIX A: SOIL BORING LOGS FOR SOIL SAMPLING

BORING LITHOLOGIC CLIENT: Sarasota County DATE 4/22/08 BORING NO. SB-IR-PROJECT: Arsenic Speciation TOTAL DEPTH 4,5 ft ELEVATION: 2 20 FL PROJECT NO: 100002165-01.0100.L DEPTH TO WATER: 4,5 ft DRILLER: PBS+J PBS+J CONTRACTOR: RISER LENGTH: SCREEN LENGTH AIM CCSWDC LOCATION: SCREEN SLOT WIDTH: NIA LOGGED BY: BB SPT ILOVS SPT BLOWS PER & DEPTH **DESCRIPTION** DESCRIPTION PER C DEPTH Gray, Silty fine sand Composite Samples for Brown, Silty 2 ]2 fine sand Total Arsenic collected at 3 2 Ft + 4.5 ft, Orange-tan fine, sand TD = 4.5 ft Grab sample For Arsenic 6 -Speciation collected at 7 4.5 ft. 18 19 10

REMARKS: Location is 50 ft. due east of MW-IR

BORING / WELL LITHOLOGIC Sarasota County BORING NO. 5B-8A-1DATE: 4122108 ELEVATION: 2 25 ft. Arsenic Speciation PROJECT: TOTAL DEPTH ft. PROJECT NO: 100002165-01.0100.1 DEPTH TO WATER: 8 Ft. DRILLER: PBS+J CONTRACTOR: PB5+J RISER LENGTH:  $A(\mathcal{U}$ SCREEN LENGTH: SCREEN SLOT WIDTH: N/D LOCATION: CCSWDC LOGGED BY: BB SPT MONS SPT BLOWS DESCRIPTION DESCRIPTION DEPTH Gray-olive, medium sand With shells 1 Composite Samples For 2 Gray-blue, clayey Total Arsenic fine Sand j collected at Beige-brown 2 ft., 4 ft., t fine sand 8 ft, Grab Sample brown medium Fine sand For Arsenic Speciation collected at Tan, fine 8 Ft, Sand 18 TD = 8 Ft. 10

REMARKS: Location is 50 ft. due south of

	LL LITHOLOGIC LOG
CLIENT: Sarasota County	DATE: 4/22/08 BORING NO. 5B-8A-2
PROJECT: Arsenic Speciation	TOTAL DEPTH 8,5 FT BLEVATION: 225 ft.
PROJECT NO: 100002165-01.0100.L	DEPTH TO WATER: 8,5 ft DRILLER: 885 tJ
CONTRACTOR: PBS + J	SCREEN LENGTH: N/A RISER LENGTH: N/A
LOCATION: CCSWOC	SCREEN SLOT WIDTH: NIA LOGGED BY: BB
PER C DEPTH DESCRIPTION	SPT BLOWS DEPTH DESCRIPTION
Gray-brown  Fine sand  Brown fine  Sand  Gray-brown  Fine sand  W  Gray fine  Sand  TD = 8,5 ft.	Composite samples for Total Arsenic collected at 2 ft., 4 ft., t 8.5 ft.  Grab sample for Arsenic Speciation collected at 8.5 feet
REMARKS.	26

REMARKS: Location is 100 ft. due South of.

CW-8A

S BORING / WELL LITHOLOGIC LOG Sarasota County CLIENT: DATE: BORING NO. 58-9-1 PROJECT: TOTAL DEPTH 7.5 FT Arsenic Speciation BLEVATION: 2 25 ft. PROJECT NO: 100002165-01.0100.1 DEPTH TO WATER: 7.5 Ft DRILLER: CONTRACTOR: RISER LENGTH: PBS4J SCREEN LENGTH:  $A \setminus U$ LOCATION: SCREEN SLOT WIDTH: NIA LOGGED BY: CCSWDC SPT ILOYS SPT BLOWS PER & DEPTH DESCRIPTION DESCRIPTION PER C H) Brown-gray Fine sand Composite Samples for 2 Total Arsenic Black-gray Fine sand Collected at 3 Z Ft., 4 Ft., + 7.5 ft. Gray Fine Sand 5 Tan-yallow -Grab sample fine sand for Arsenic 7 Speciation  $\nabla$ collected at TD=7.5 A. 7.5 ft. 16

REMARKS: Location is 50 ft. south of cw-9 in the area of old borrow soil

#### BORING WELL LITHOLOGIC Sarasota County CLIENT: DATE: 4122/08 BORING NO. 58-9-2 Arsenic Speciation TOTAL DEPTH PROJECT: ELEVATION: FF 25 Ft. PROJECT NO: 100002165 -01.0100.L DEPTH TO WATER: DB5 + 2 DRILLER: FI CONTRACTOR: PB5 ←J RISER LENGTH: NIA SCREEN LENGTH LOCATION: CCSWDC SCREEN SLOT WIDTH: LOGGED BY: ВB SPT BLOWS PER 6° DESCRIPTION DESCRIPTION DEPTH PER C DEPTH Gray Fine Sand i Gray-green 2 Composite 12 sandy clay Samples for Total Arsenic 3 collected at Gray, clayey 2 ft, 4 ft, t Sand 7.0 ft Tan, silty Sand with roots Grab sample For Arsenic Tan-orange Speciation fine is and $\sqrt{7}$ collected at И TD = 7.0 ft. 7.0 ft 18 19

REMARKS: Location is 90 ft. South of CW-9 in the area of old borrow soil

### BORING WELL LITHOLOGIC LOG CLIENT: Sarasota County DATE: L BORING NO. SB-IIR-I 23/08 PROJECT: Arsenic Speciation TOTAL DEPTH 2 22 Ft. 6.5 Ft BLEVATION: PROJECT NO: 100002165 -01.0100.L DEPTH TO WATER: 6.5 Ft DRILLER: PB5 + J CONTRACTOR: PBS+J RISER LENGTH SCREEN LENGTH: MIA CC SW DC LOCATION: SCREEN SLOT WIDTH: N/A |LOGGED BY: BBSPT MOTS SPT BLOWS PER & DEPTH **DESCRIPTION** DESCRIPTION PER (\* PER C DEPTH 10 Gray, Silty fine sand Composite 2 12 Samples for Total Arsenic 3 collected at Z Ft, 4 Ft, and 6.5 ft. 4 Gray-brown Silty, sand 5 Gray fine Gray-brown sand Grab sample TD = 6.5 ft 7 For Arsenic Speciation collected at 1,8 6,5 ft. 19 REMARKS:

CW-IIR

of

50

F+.

South

PBS BORI				OGIC	
DD O VECOM	ota County	TOTAL DEPTH	3/08	BORING NO. 5B	
<u> </u>	ic Speciation 2165-01.0100.L		C0.5 FT		: 22 ft
	5+J	SCREEN LENGT			
10	CEWDC	SCREEN SLOT	WIDTH ALLA		N/A 3B
OWE STATES	SCRIPTION	SPT NLOWS PER C DEPTH	DES	CRIPTION	<u>&gt; 0</u>
2 3 3 5	sray fine Sand Sray-brown Ity fine sand Brown Silty fine, sand Tan-brown Silty fine sand TD = 6.5 ft			composite amples for otal Arser off, 4ft, and 6.5 for Arser peciation Collected 6.5 ft.	ple nic

REMARKS: Location is SO Ft. West of CW-IIR.

CLIENT: Sarasota County DATE 4/23/08 BORING NO. 58-11R-3 PROJECT: Arsenic Spaciation TOTAL DEPTH G. 5.7+ ELEVATION: 2 22 A PROJECT NO. 10000165 - 01.0100.1 DEPTH TO WATER G.5.7+ DEBLER PBS+5  CONTRACTOR: PB5+5  SCREEN LENGTH: N/A RISER LENGTE: N/A LOCATION: CCSWDC SCREEN SLOT WIDTH: N/A LOGGED BT: BB  ST BLOTS PROJECT NO. 10000165 - 01.0100.1 DEPTH DESCRIPTION  FR. C SCREEN SLOT WIDTH: N/A LOGGED BT: BB  ST BLOTS PROJECT NO. 10000165 - 01.0100.1 DEPTH DESCRIPTION  FR. C DEPTH DESCRIPTION  FR. C DEPTH DESCRIPTION  Gray fine Sand  Composite Samples for Total Arsenic Collected at 2 ft., 4 ft.) And G.5 ft.  Tan-brown Silty sand  Tan-brown Silty fine Silty fine Silty fine Sand  TD = 6.5 ft  FOR Arsenic
PROJECT: Arsenic Speciation TOTAL DEPTH 6,5 ft ELEVATION: 222 ft PROJECT NO. 100007-165-01.0100.L DEPTH TO WATER 6.5 ft DRILLER: PBS+5  CONTRACTOR: PB5+5 SCREEN LENGTH N/A RISER LENGTH N/A LOGGED BY: 8B  TRUTE DEPTH DESCRIPTION  FOR A Sand  Composite  Samples for  Total Arsenic  Collected at  2 ft., 4 ft.,  Gray-brown  Silty sand  Tan-brown  Silty fine  To Gray fine  Gray fine  Gray brown  Silty fine  To Gray sample  For Arsenic
PROJECT NO: 100002165 - 01.0100.L DEPTH TO WATER 6.5 ft DRILLER PBS + 3  CONTRACTOR: PBS + 3  SCREEN LENGTH N/A RISER LENGTH N/A  LOCATION: CC SWDC SCREEN SLOT WIDTH N/A LOGGED BY: BB  ST BUTS DESCRIPTION  Gray fine  Sand  Composite  Samples for  Total Arsenic  Collected at  2 ft., 4 ft.,  Gray - brown  Silty sand  Tan - brown  Silty fine  Sand  Grab Sample  For Arsenic
CONTRACTOR: PBS+3  CONTRACTOR: PBS+3  CONTRACTOR: PBS+3  CONTRACTOR: PBS+3  CONTRACTOR: PBS+3  CONTRACTOR: N/A RISER LENGTE N/A  LOCATION: CCSWDC  SCREEN SLOT WIDTE N/A LOGGED BT: BB  ST BLOTS  PBR C  ST BLOTS  BEFTH DESCRIPTION  Gray fine  Samples for  Total Arsenic  Collected at  2 ft., 4 ft.,  Gray - brown  Silty sand  Tan - brown  Silty fine  TD = 6.5 ft  For Arsenic
BETT NOWS  THE COMPOSITE  Composite  Samples for  Total Arsenic  Collected at  2 ft., 4 ft.,  Gray fine  Silty sand  Tan-brown  Silty fine  Silty fine  Total Sample  Grab Sample  For Arsenic
Gray fine  Sand  Composite  Samples for  Total Arsenic  Collected at  2 ft., 4 ft.,  Gray - brown  Silty sand  Tan - brown  Silty fine  Silty fine  Tan - Gray - Gr
Gray fine Sand  Composite  Samples for  Total Arsenic  Collected at  2 ft., 4 ft.)  and 6.5 ft.  Tan-brown  Silty sand  Total Arsenic  Collected at  2 ft., 4 ft.)  Gray-brown  Silty sand  Grab Sample  To = 6.5 ft  To = 6.5 ft
REMARKS: Location is So ft. north of CW-IIR

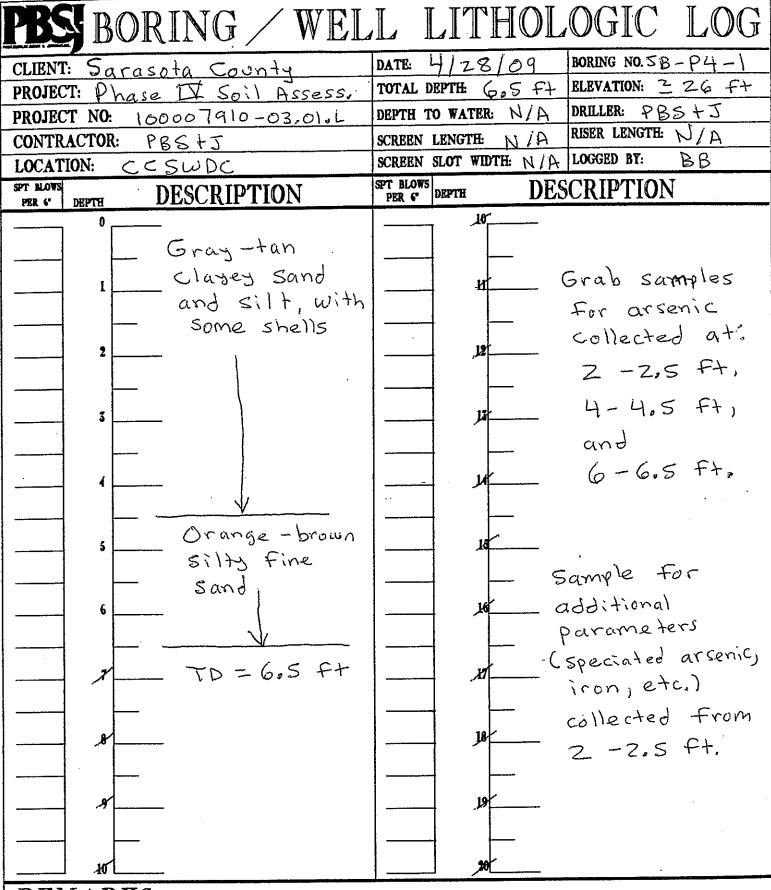
BORING / WELL LITHOLOGIC LOG Sansota County CLIENT: DATE: BORING NO. SB-CDV-08 PROJECT: Arsonic Speciation TOTAL DEPTH 5.5 Ft ELEVATION: 18 ft. PROJECT NO: 100002165-01.0100.L DEPTH TO WATER: 5,5 + DRILLER: PBS+J CONTRACTOR: PBS+J RISER LENGTH: SCREEN LENGTH: NIA  $A \setminus G$ SCREEN SLOT WIDTH: N/A LOCATION: CCSWDC LOGGED BY: BB SPT MOAS SPT BLOWS PER 6" DEPTH DESCRIPTION DESCRIPTION PER C DEPTH Light tan, Silty fine sand i 2 Composite Samples for Total Arsenic 3 collected at Tan-orange 2 ft., 4 ft., Silty fine sand and 5.5 ft. with limerock Pieces ! Light tan fine sand TD = 5,5 f+ Grab sample for Arsenic 7 Speciation Collected at 8 5.5 ft.

REMARKS: Located on the south side of the clearing shown in the area in the aerial photo provided by Ardaman

BORING / WELL LITHOLOGIC LOG Sarasota County CLIENT: BORING NO. SB-CDV-2 TOTAL DEPTH 5.5 FT PROJECT: Arsenic Speciation BLEVATION: 2 PROJECT NO: 10000 2165-01.0100.) DEPTH TO WATER: 5.5 ft DRILLER: CONTRACTOR: PBS 4J RISER LENGTH: SCREEN LENGTH:  $A\backslash M$ LOCATION: SCREEN SLOT WIDTH: N/A LOGGED BY: CCSWDC BBSPT ILOWS SPT BLOWS PER 6" DEPTH DESCRIPTION DESCRIPTION FER C DEPTH H Light tan, silty fine sand 1 2 Composite Tan-orange Samples for Clayey Sand 3 Total Arsenic with large collected at clay pieces 2 ft., 4 ft., and 5.5 ft. Tan, clayey sand with shell fragments TD=5.5 ft 16 Grab Sample И For Arsenic . Speciation 8 Collected at 5,5 Ft.

REMARKS: Located on the north side of the clearing shown in the area in the aerial photo.

Provided by Ardaman, so ft. north of SB-cov-1



BORING / WELL LITHOLOGIC BORING NO. 5B-P4-Z DATE: 28/09 CLIENT: Sarasota County ELEVATION: 2 26 FT TOTAL DEPTH 6.5 Ft PROJECT: Phase I Soil Assess. DRILLER: PBS+J AIN DEPTH TO WATER: 100007910-03,01.L PROJECT NO: RISER LENGTH CONTRACTOR: PBS+J SCREEN LENGTH: LOGGED BY: SCREEN SLOT WIDTH: N/A BB LOCATION: CCSWDC SPT BLOWS
PER 6 DEPTH SPT MOVS DESCRIPTION DESCRIPTION DEPTH 10 Brown fine Sand Grab samples 1 for arsenic collected at: 2 Z -Z,S ft, Gray-tan-green clasey sand 4-4.5 ft, and 6-6.5 ft. Gray - tan clayey sand and silty Sand Sample for additional Gray clayey sand parameters (speciated arsenic, TD=6.5 F+ iron, etc.) collected from 181 2-2,5 F4

#### BORING / WELL LITHOLOGIC LOG DATE: BORING NO. 5B-P4-3 4/28/09 CLENT: Sarasota County BLEVATION: 2 26 FT TOTAL DEPTH: 6.5 FT PROJECT: Phase I Soil Assess. DRILLER: PBS+J DEPTH TO WATER: AIN 100007910-03,01.L PROJECT NO: RISER LENGTH: NIA SCREEN LENGTH: CONTRACTOR: PBS+J SCREEN SLOT WIDTH: N/A LOGGED BY: BB CCSWDC LOCATION: SPT BLOWS PER 6° DEPTH SPT MOVS DESCRIPTION DESCRIPTION DEPTH PER ( 16 Tan Silty fine sand Grab samples H 1 for arsenic collected at: 2 Z -Z,S ft, Gray-tan clayey and 4-4.5 ft, silty, sand 3 and Gray-black 6-6.5 ft. Silty fine sand with Dup A collected roots 5 from 2-2,5 ft medium brown 6 Fine sand Sample for additional TD = 6,5 ft parameters collected From 18 4-4.5 Ft.

LITHOLOGIC BORING / WELL BORING NO. 5B-P4-4 DATE: CLIENT: Sarasota County BLEVATION: 2 26 FT TOTAL DEPTH: 6.5 Ft PROJECT: Phase IV Soil Assess. DRILLER: PBS+J DEPTH TO WATER: 100007910-03.01.L PROJECT NO: RISER LENGTH: MIA CONTRACTOR: PBS+J SCREEN LENGTH: LOGGED BY: SCREEN SLOT WIDTH: N/A BB LOCATION: CCSWDC SPT BLOWS PER C DEPTH SPT BLOVE DESCRIPTION DESCRIPTION DEPTH 10 medium brown silty sand Grab samples 1 for arsenic collected at: 2 Z -Z,5 ft, 4-4.5 ft, Gray Silty fine sand and 6-6.5 ft. medium brown fine Sand Sample for additional parameters TD=6.5 f+ (speciated arsenic, iron, etc.) collected from ]8 4-4,5 ft.

#### BORING / WELL LITHOLOGIC BORING NO. 5B-74-5 DATE: CLIENT: Sarasota County BLEVATION: 2 26 FT TOTAL DEPTH: 6.5 Ft PROJECT: Phase I Soil Assess. AIN DRILLER: PBS+J PROJECT NO: 160007910-03,01.L DEPTH TO WATER: RISER LENGTH: NIA PBS+J SCREEN LENGTH: CONTRACTOR: SCREEN SLOT WIDTH: N/A LOGGED BY: BB LOCATION: CCSWDC SPT BLOWS PER 6 DEPTH SPT NLOWS DESCRIPTION **DESCRIPTION** DEPTH 18\_ Gray -tan-green clayey and Grab samples silty sand 1 for arsenic collected at: 2 Z -Z,5 ft, Tan Silty 4-4.5 ft, sand and 6-6.5 ft, Samples for Gray - brown additional siltysand parameters -( speciated arsenics iron, etc.) TD = 6,5 ft collected ]& from 2-2,5 ft and 6-6:5 Ft

LITHOLOGIC LOG WELL BORING NO. 5B-P4-6 DATE: CLIENT: Sarasota County ELEVATION: 2 26 F+ TOTAL DEPTH 6.5 Ft PROJECT: Phase IX Soil Assess. DRILLER: PBS+J DEPTH TO WATER: AIN PROJECT NO: 100007910-03.01.L RISER LENGTH: SCREEN LENGTH: CONTRACTOR: PBS+J SCREEN SLOT WIDTH: N/A LOGGED BY: BB LOCATION: CCSWDC SPT BLOWS DEPTH SPT MOVS **DESCRIPTION** DESCRIPTION DEPTH 10 Gray - tan silty fine Grab samples Sand 1 for arsenic collected at: Z -Z,S ft, 4-4.5 ft, Tan silty Sand and 6-6.5 ft, Dup B collected at 4-4,5 ft. Light tan Silty sand Sample for TD = 6.5 ft additional parameters collected from 6-6.5 Ft.

BORING / WELL LITHOLOGIC LOG BORING NO. 58 - P4 -28/09 DATE: CLIENT: Sarasota County ELEVATION: 2 26 FT TOTAL DEPTH 6.5 Ft PROJECT: Phase I Soil Assess. DRILLER: PBS+J DEPTH TO WATER: N/A 100007910-03.01.L PROJECT NO: RISER LENGTH: MIA CONTRACTOR: SCREEN LENGTH: PBS+J SCREEN SLOT WIDTH: N/A LOGGED BY: BB LOCATION: CCSWDC SPT BLOWS DEPTH SPT MOVS DESCRIPTION **DESCRIPTION** DEPTH 10 Tan-brown silty sand Grab samples 1 for arsenic. collected at: Z -Z,S ft, 4-4.5 ft, Tan finegrained sand and 6-6.5 ft. Brown-tan silty sand Sample for additional parameters collected from TD = 6.5 ft 6-6,5 ft. 18

BORING / WELL LITHOLOGIC LOG BORING NO. 5B-\$4-8 CLIENT: Sarasota County DATE: TOTAL DEPTH BLEVATION: 2 26 FT 6.5 Ft PROJECT: Phase I Soil Assess. DRILLER: PBS+J 100007910-03.01.L DEPTH TO WATER: N/A PROJECT NO: RISER LENGTH: NA SCREEN LENGTH: **CONTRACTOR:** PBS+J SCREEN SLOT WIDTH: N/A LOGGED BY: BB LOCATION: CCSWDC SPT BLOWS DEPTH DESCRIPTION **DESCRIPTION** DEPTH 10\_ Gray -tan clayer sand Grab samples and silty sand for arsenic collected at: 2 Z -Z,S f+, Black - brown 4-4.5 ft, Silty fine and Sand 6-6.5 ft, Tan fine Samples for Sand additional parameters (Speciated arsenics TD=605 ft iron, etc.) collected from 184 4-4.5 FX and 6-6.5 Ft.

BORING / WELL LITHOLOGIC LOG BORING NO. 58-94-9DATE: CLIENT: Sarasota County ELEVATION: 2 26 F+ 6.5 Ft TOTAL DEPTH: PROJECT: Phase I Soil Assess. DRILLER: PBS+J AIN 100007910-03,01.6 DEPTH TO WATER: PROJECT NO: RISER LENGTH: SCREEN LENGTH: CONTRACTOR: PBS+J SCREEN SLOT WIDTH: N/A | LOGGED BY: BB LOCATION: CCSWDC SPT BLOWS PER 6' DEPTH SPT ILOVS DESCRIPTION **DESCRIPTION** PER C DEPTH 10 Gray-tan Silty and clayer sand Grab samples 1 for arsenic collected at: 2 Z -Z,5 ft, 4-4.5 ft, Dark gray and silty sand 6-6.5 ft, Dup C collected Tan-beige Fine Sand From 6-6.5 feet. TD = 6.5 Ft. 18

BORING / WELL LITHOLOGIC LOG BORING NO. 5B-P4-10DATE: CLIENT: Sarasota County ELEVATION: 2 26 FT 6.5 Ft TOTAL DEPTH PROJECT: Phase I Soil Assess. DRILLER: PBS+J 160007910-03,01.L DEPTH TO WATER: AIN PROJECT NO: NIA RISER LENGTH: CONTRACTOR: SCREEN LENGTH: PBS+J SCREEN SLOT WIDTH: N/A LOGGED BY: BB LOCATION: CCSWDC SPT BLOWS
PER 6° DEPTH SPT ILOWS **DESCRIPTION DESCRIPTION** DEPTH 10 Gray - tan silty and Grab samples clayey sand For arsenic collected at: Z -Z,S ft, 4-4.5 ft, medium brown and Fine sand 6-6.5 ft, Gray-tan-green clayey sand TD=6,5 ft **REMARKS:** 

### LITHOLOGIC LOG BORING / WELL DATE: BORING NO. 5B-P4-1) CLIENT: Sarasota County TOTAL DEPTH: 2 26 ft **ELEVATION:** 6.5 Ft PROJECT: Phase IX Soil Assess. DRILLER: PBS+J PROJECT NO: 100007910-03,01.L DEPTH TO WATER: RISER LENGTH: CONTRACTOR: PBS+J SCREEN LENGTH: SCREEN SLOT WIDTH: N/A LOGGED BY: BB LOCATION: CCSWDC SPT BLOWS PER C DEPTH SPT NOVS **DESCRIPTION** DESCRIPTION DEPTH 10, Light gray Silty sand Grab samples 1 for arsenic collected at: 2 Z -Z,5 ft, 4-4.5 ft, Tan-brown Fine sand and 6-6.5 ft, Gray - tan Sample for clayer sand additional parameters (speciated arsenic) TD = 6.5 ft iron, etc.) collected from 18 6-6.5 ft.

LITHOLOGIC LOG BORING / WELL BORING NO. 5B-P4-12 DATE: 28/09 CLIENT: Sarasota County TOTAL DEPTH: PROJECT: Phase IX Soil Assess. ELEVATION: 2 26 FT 6.5 Ft DRILLER: PBS+J 160007910-03,01.L DEPTH TO WATER: PROJECT NO: RISER LENGTH: MIA **CONTRACTOR:** PBS+J SCREEN LENGTH: SCREEN SLOT WIDTH: N/A LOGGED BY: BB CCSWDC LOCATION: SPT BLOWS PER C DEPTH **DESCRIPTION** SPT LLOWS DESCRIPTION 10 Gray-tan fine sand Grab samples 1 for arsenic collected at: 2 2 -Z,5 ft, Gray-brown 4-4.5 ft, Fine sand and 6-6.5 ft, Dup D collected at 6-6.5 ft Sample for additional parameters TD=6.5 ft collected from 6-6.5 fai

# **APPENDIX B:**

# WELL CONSTRUCTION DIAGRAMS AND SOIL BORING LOGS FOR TEMPORARY MONITORING WELLS

Site:

Sarasota County CCSWDC

Well Identifier:

Temp. Monitoring Wells GW-1, GW-3-GW-16

Drilling Method:

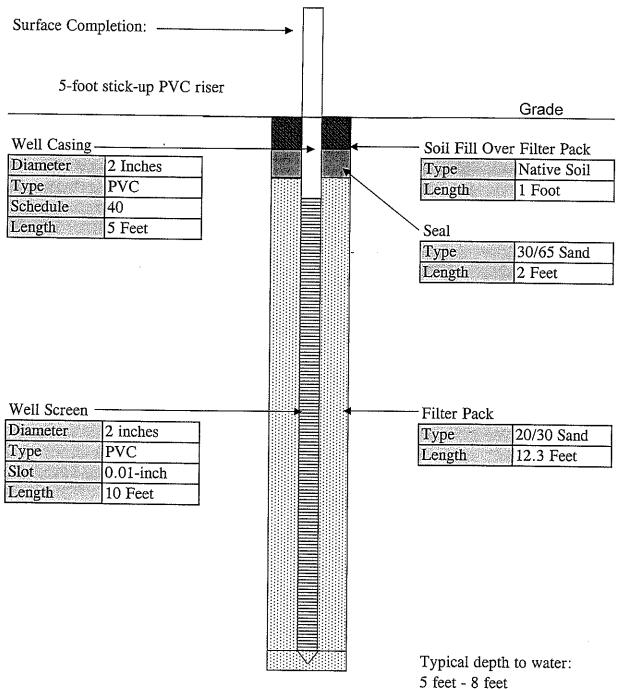
Hollow-Stem Auger

Borehole Diameter:

8 Inches

Total Depth:

15.3 feet below land surface



PBS&J

Note: Not to scale.

Site: Sarasota County CCSWDC Well Identifier: Temporary Monitoring Well GW-2 Drilling Method: Hollow-Stem Auger Borehole Diameter: 8 Inches Total Depth: 13.3 feet below land surface Surface Completion: -5-foot stick-up PVC riser Grade Well Casing -Soil Fill Over Filter Pack Diameter 2 Inches Туре Native Soil Туре **PVC** Length 6 Inches Schedule 40 Length 3 Feet Seal Туре 30/65 Sand Length 1 Foot Well Screen -Filter Pack Diameter 2 inches Type -20/30 Sand Type PVC Length 11.8 Feet Slot 0.01-inch Length 10 Feet

PBS&J

Note: Not to scale.

Depth to water:

3.5 feet

Site: Sarasota County CCSWDC Temp. Wells GW-17 and GW-19 Well Identifier: Drilling Method: Hollow-Stem Auger Borehole Diameter: 8 Inches Total Depth: 12.3 feet below land surface Surface Completion: -5-foot stick-up PVC riser Grade Well Casing-Soil Fill Over Filter Pack Diameter 2 Inches Type Native Soil Туре **PVC** Length 6 Inches Schedule 40 Length 2 Feet Seal Туре 30/65 Sand Length 6 inches Well Screen Filter Pack Diameter 2 inches Type 20/30 Sand Type **PVC** Length 11.3 Feet Slot 0.01-inch Length 10 Feet Depth to water:

PBS&J

Note: Not to scale.

3.5 feet

Site:

Sarasota County CCSWDC

Well Identifier:

Temp. Wells GW-21, 22, 23, 24, 25, 30, 31

Drilling Method:

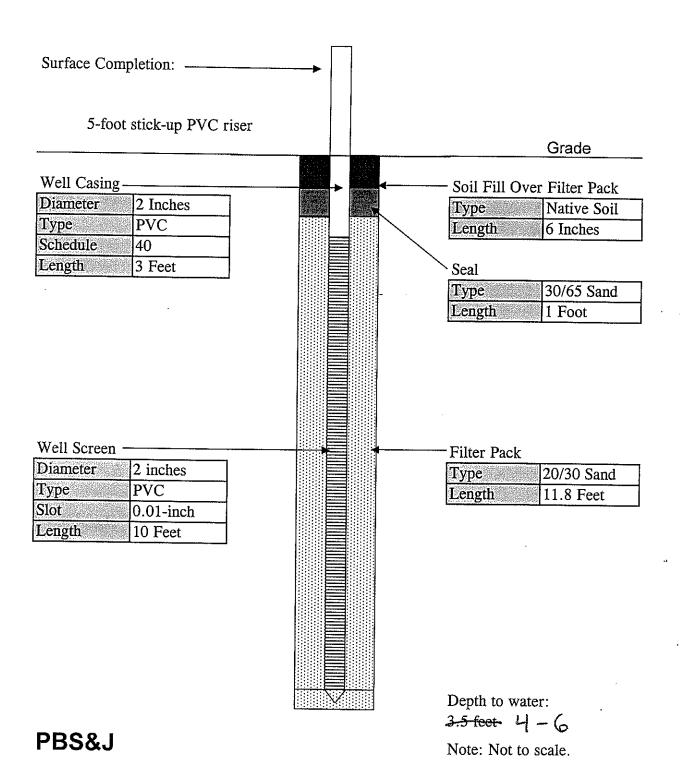
Hollow-Stem Auger

Borehole Diameter:

8 Inches

Total Depth:

13.3 feet below land surface



Site:

Sarasota County CCSWDC

Well Identifier:

Temp. Wells GW-18, 26, 27, and 29

Drilling Method:

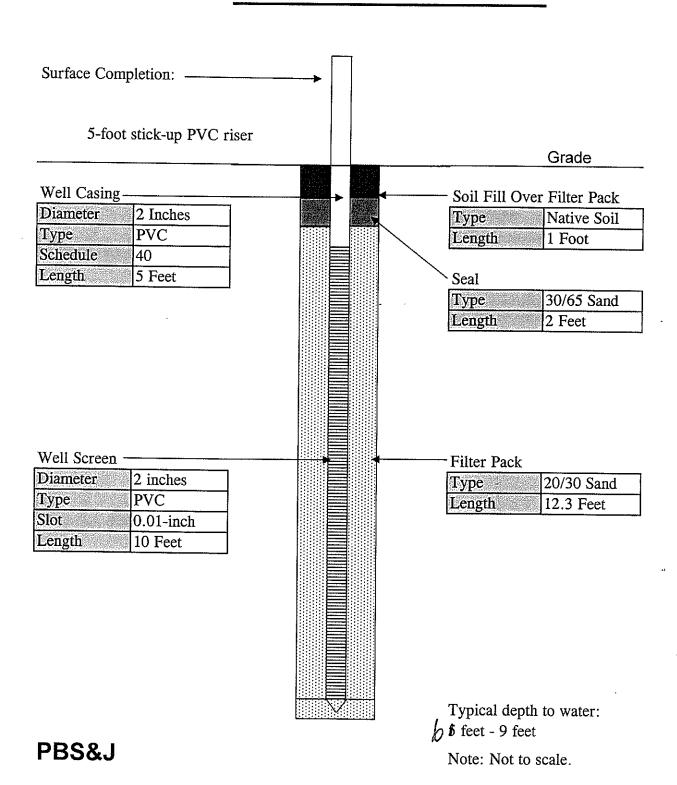
Hollow-Stem Auger

Borehole Diameter:

8 Inches

Total Depth:

15.3 feet below land surface



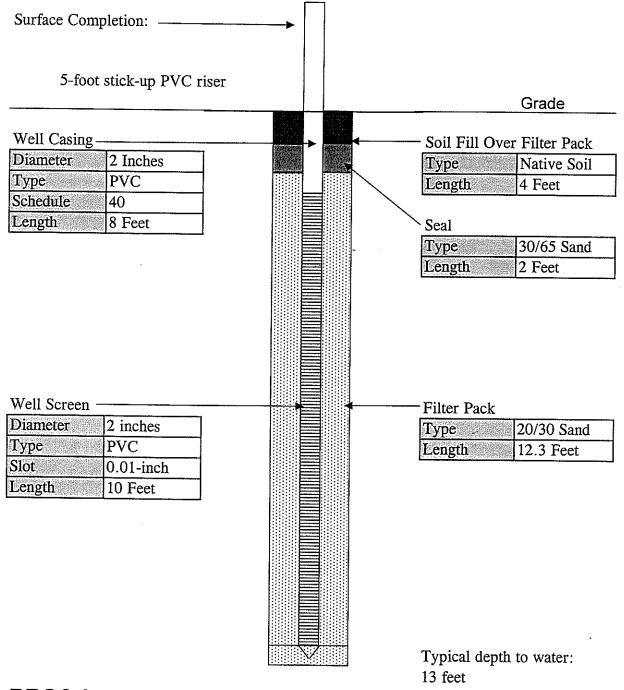
Site: Sarasota County CCSWDC

Well Identifier: Temporary Monitoring Well GW-28

Drilling Method: Hollow-Stem Auger

Borehole Diameter: 8 Inches

Total Depth: 18.3 feet below land surface



PBS&J

Note: Not to scale.

Site:

Sarasota County CCSWDC

Well Identifier:

Temporary Monitoring Well GW-20

Drilling Method:

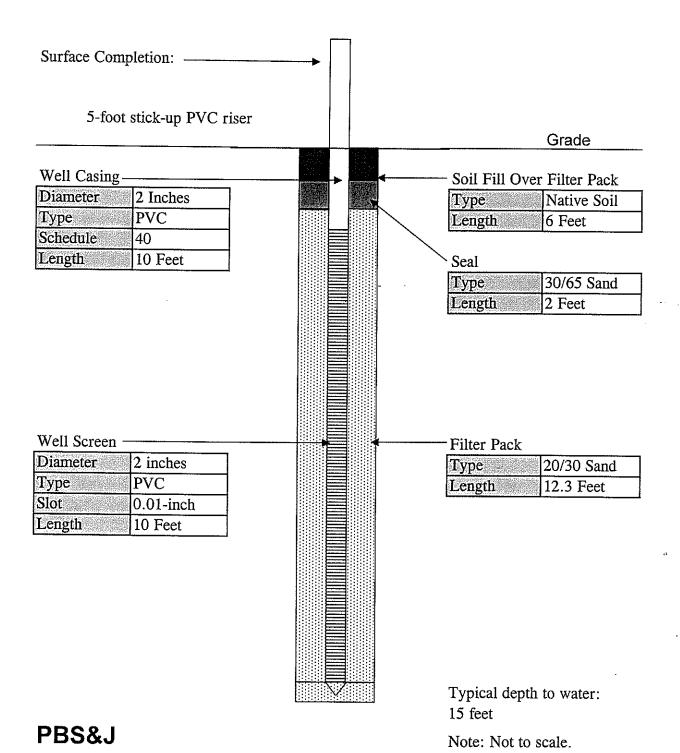
Hollow-Stem Auger

Borehole Diameter:

8 Inches

Total Depth:

20.3 feet below land surface



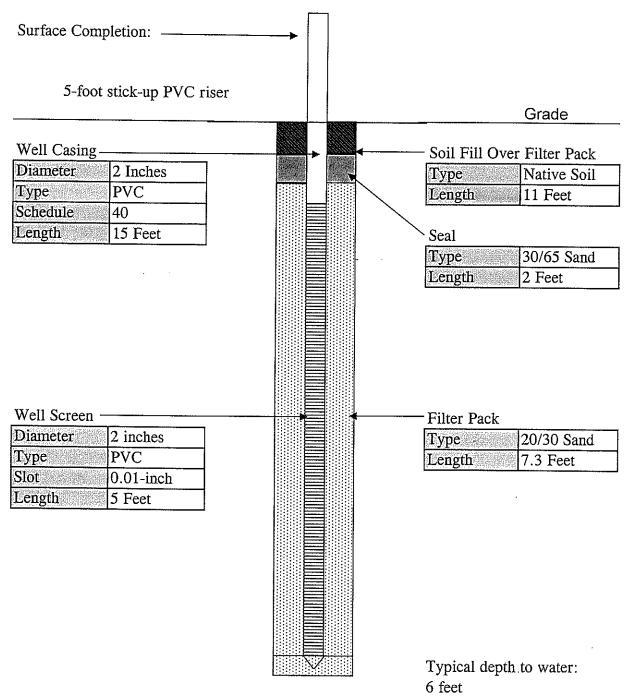
Site: Sarasota County CCSWDC

Well Identifier: Temp. Monitoring Wells DGW-1 - DGW-4

Drilling Method: Hollow-Stem Auger

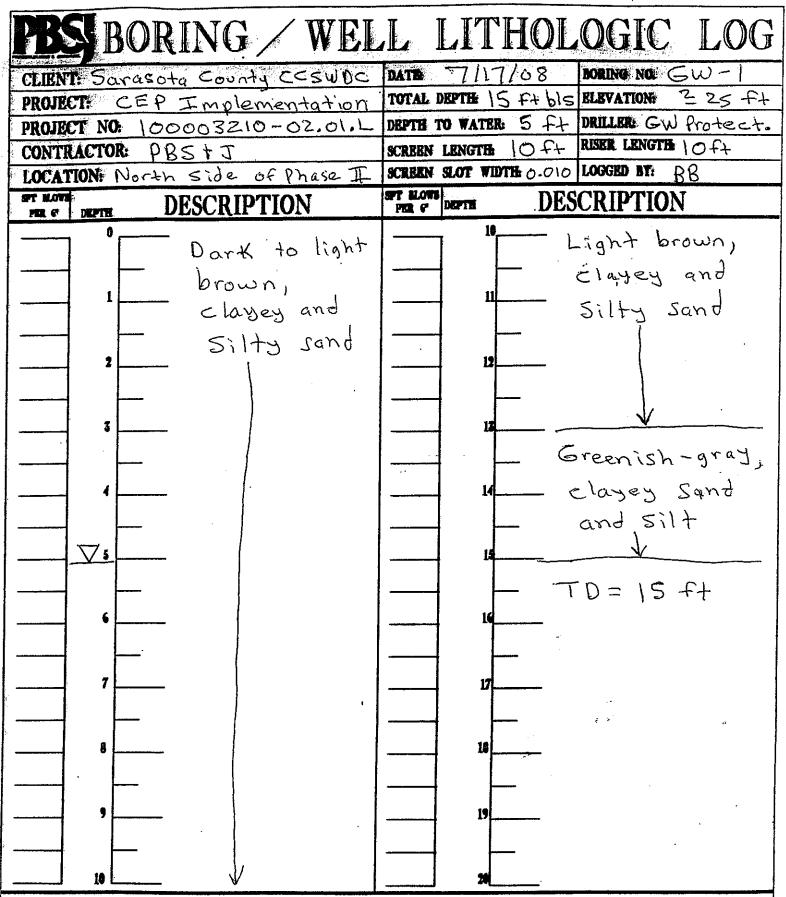
Borehole Diameter: 8 Inches

Total Depth: 20.3 feet below land surface



PBS&J

Note: Not to scale.



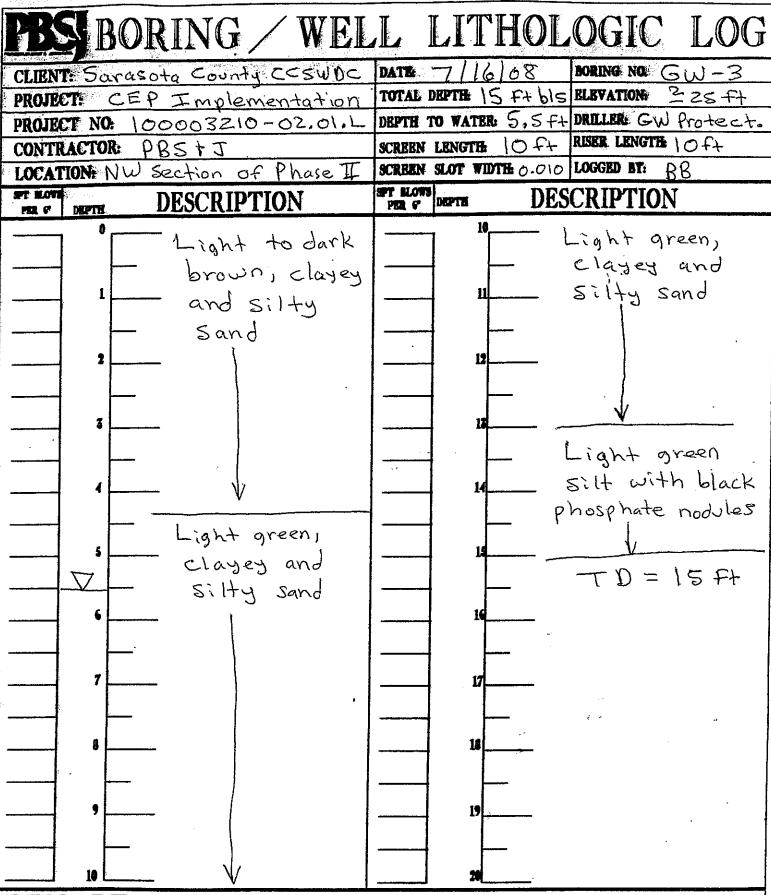
REMARKS: 20/30 sand from 15 ft to 3 ft bls
Well
Construction: 30/65 sand from 3 ft to 1 ft bls
No cover/ no pad

BORING / WELL LITHOLOGIC LOG CLIENT: Sarasota County CCSWDC DATE: 7/18/08 BORING NO. GW-2 TOTAL DEPTH 3 ft 6/5 ELEVATION: 2 20 ft CEP Implementation PROJECT: DEPTH TO WATER 335++ DRILLER GW Protect. PROJECT NO: 100003210-02.01.L SCREEN LENGTH: 10 ft RISER LENGTH: CONTRACTOR: P85+J LOCATION: North of Phase I SCREEN SLOT WIDTH: 0,010 LOGGED BY: BB SPT BLOWS PER 6" DEPTH DESCRIPTION DESCRIPTION DEPTH PER C Gray, Clayey Light brown fine sand Silt and sand 1 2 Hardness increased bywn. 12 and 13 ft. Tan-beige ID = 13 ft fine sand Light gray, 5ilty fine Sand with some clay

REMARKS: 20/30 Sand From 13 Ft bls to 1 ft bls

well

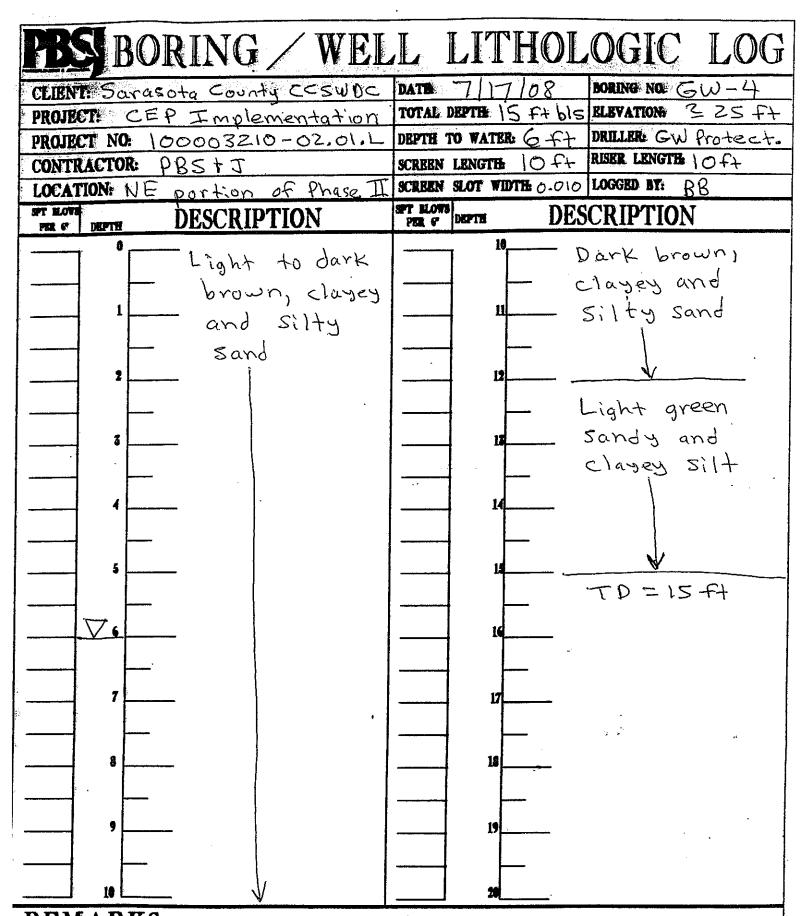
construction No pad/no cover



REMARKS:

Well construction.

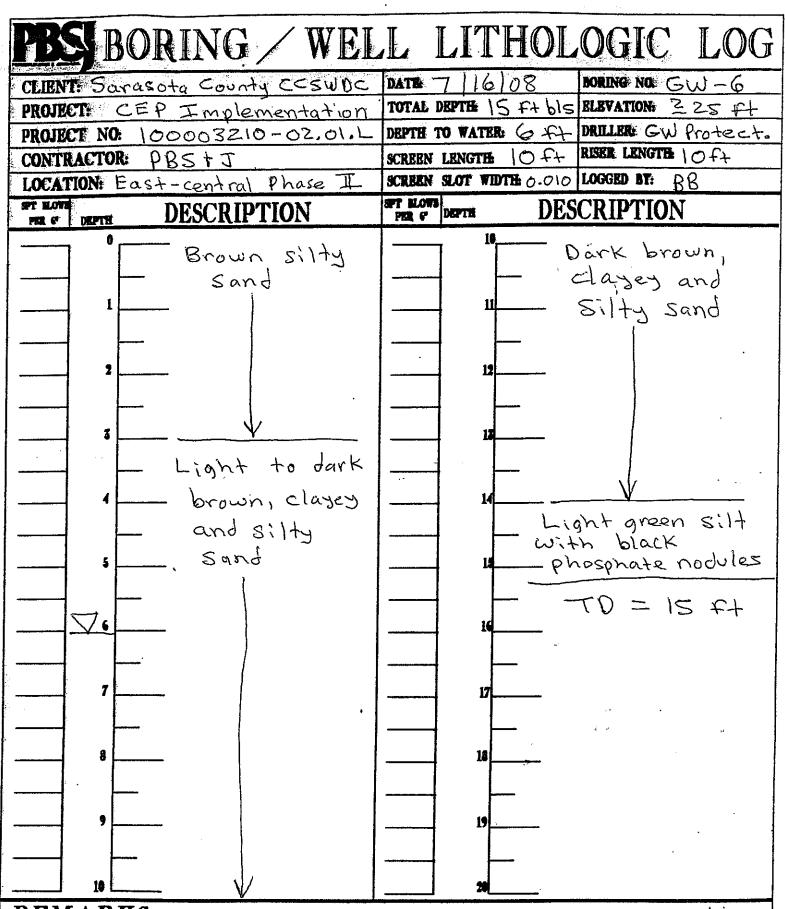
20/30 Sand from 15 ft to 3 ft bls 30/65 sand from 3 ft to 1 ft bls No cover/no pad



REMARKS: 20/30 sand from 15 ft to 3 ft bls
Well
Construction: 30/65 sand from 3 ft to 1 ft bls
No cover/ no odd

BORING / WELL LITHOLOGIC LOG CLIENT Sarasota County CCSWDC 15 Ft bis BLBVATION PROJECT: CEP Implementation 6 ft DRILLER GW Protect. PROJECT NO: 100003210-02.01.L DEPTH TO WATER: Off RISER LENGTH 10ft CONTRACTOR: **PBS+**1 SCREEN LENGTH SCREEN SLOT WIDTH 0.010 LOGGED BY: LOCATION West-central part of Phase I DESCRIPTION DESCRIPTION DEPTH Light brown, Light brown Silty and Silty and clayey sand clayey sand Gray-green, Sandy clay and silt with phosphate nodules TD = 15 ft V 6 7

REMARKS: 20130 sand from 15 ft bls to 3 ft bls
Well
construction: 30/65 sand from 3 ft to 1 ft bls



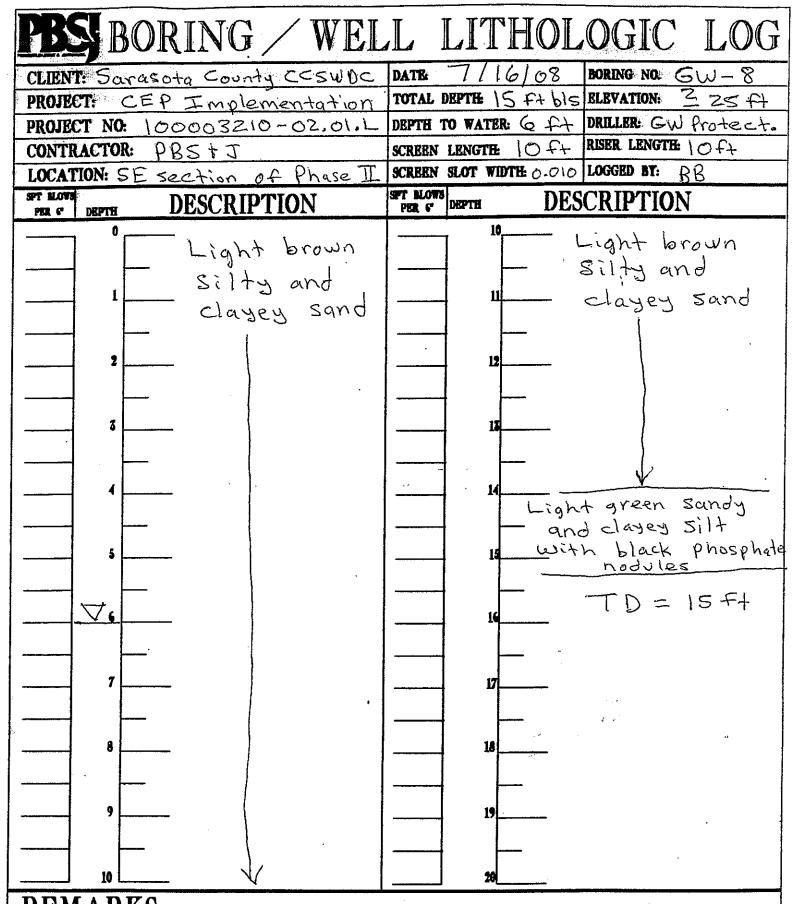
REMARKS: 20/30 Sand From 15 ft bls to 3 ft bls
Well
Construction: No cover / no pad

# BORING / WELL LITHOLOGIC LOG MORING NO. GW-7 CLIENT: Sarasota County CCSWBC TOTAL DEPTH 15 F+ 615 ELEVATION PROJECT: CEP Implementation DEPTH TO WATER 6 A DRILLER GW Protect. PROJECT NO: 100003210-02.01.L OF+ RISER LENGTH 10f+ SCREEN LENGTH DB2+1 CONTRACTOR: SCREEN SLOT WIDTH 0.010 LOGGED BY: LOCATION SW section of Phase I SPT BLOWS PER 6" DEPTH DESCRIPTION DESCRIPTION Dark brown, Light brown to clayey and dark brown, Silty Sand clayey and Silty Sand 3 Light green sandy silt with Small black phosphate nodules TD = 15 ft **\** 6 7

REMARKS:

construction:

20/30 sand from 15 ft bls to 3 ft bls
30/65 sand from 3 ft to 1 ft bls



REMARKS:

20/30 Sand from 15 ft bls to 3 ft bls

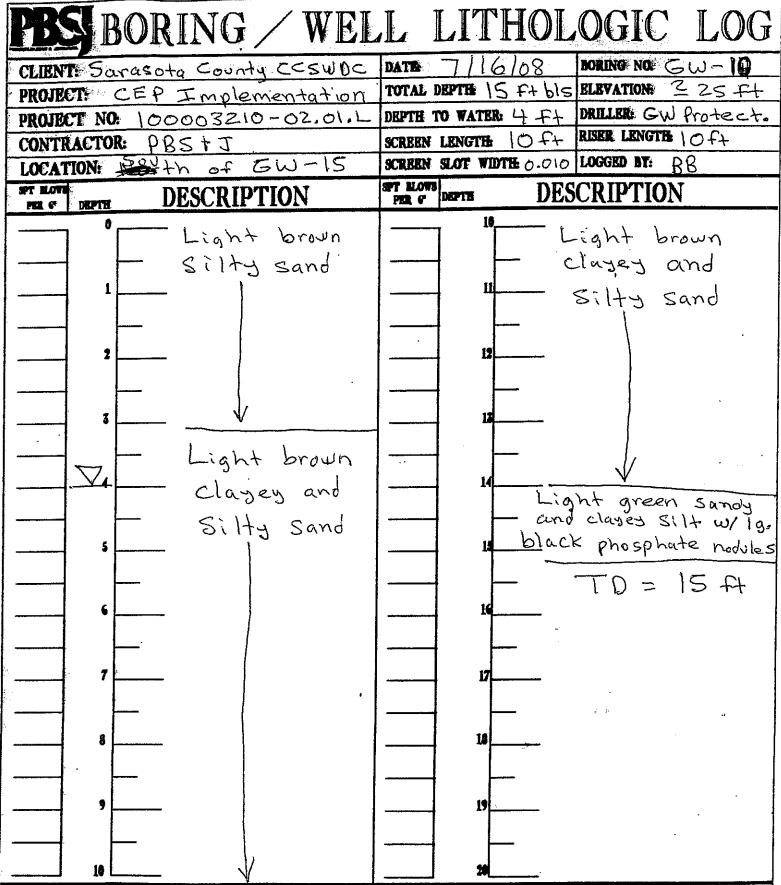
Well

Construction: 30/65 sand from 3 ft bls to 1 ft bls

No cover / no pad

SBORING WELL LITHOLOGIC LOG MORING NO. CW-9 CLIENT: Sarasota County CCSWDC 15 Ft bis ELBVATION 2 ZO Ft PROJECT CEP Implementation G II DRILLER GW Protect. PROJECT NO: 100003210-02.01.L DEPTH TO WATER: Of+ RISER LENGTH 10f+ CONTRACTOR: PBS+J SCREEN LENGTE SCREEN SLOT WIDTH 0.010 LOGGED BY: LOCATION 5 W section of Phase II PER C DEPTE DESCRIPTION **DESCRIPTION** Light brown, Light green clayes and sandy clayey and Silf with small Silty sand black phosphate notules and 2 Shell fragments TD=15 Ft  $\nabla$ 6 7

REMARKS: 20/30 Sand from 15 ft to 3 ft bls Well: 30/65 Sand from 3 ft to 1 ft bls Construction: Wn cover/no pad



REMARKS:

well Construction 20/30 sand from 15 ft to 3 ft bls
30/65 sand from 3 ft bls to 1 ft bls
No cover/No pad

# BORING / WELL LITHOLOGIC LOG HORING NO. GW-11 CLENT: Sarasota County CCSWDC 5 F4 bis BLBVATION 2 25 F4 PROJECT CEP Implementation DRILLER GW Protect. PROJECT NO: 100003210-02.01.L DEPTH TO WATER: Of RISER LENGTE 10ft PBS+J SCREEN LENGTH CONTRACTOR: SCREEN SLOT WIDTH 0.010 LOGGED BY: LOCATION: East of Phase I SPT BLOWS PER 6" DEFTE DESCRIPTION DESCRIPTION DEFTH Gray, sandy Light to dark and clayery prown, Silt clayey and Silty Sand Sandy limerock mixed with green Sandy clay and Silt TD = 15 ft 7

REMARKS:

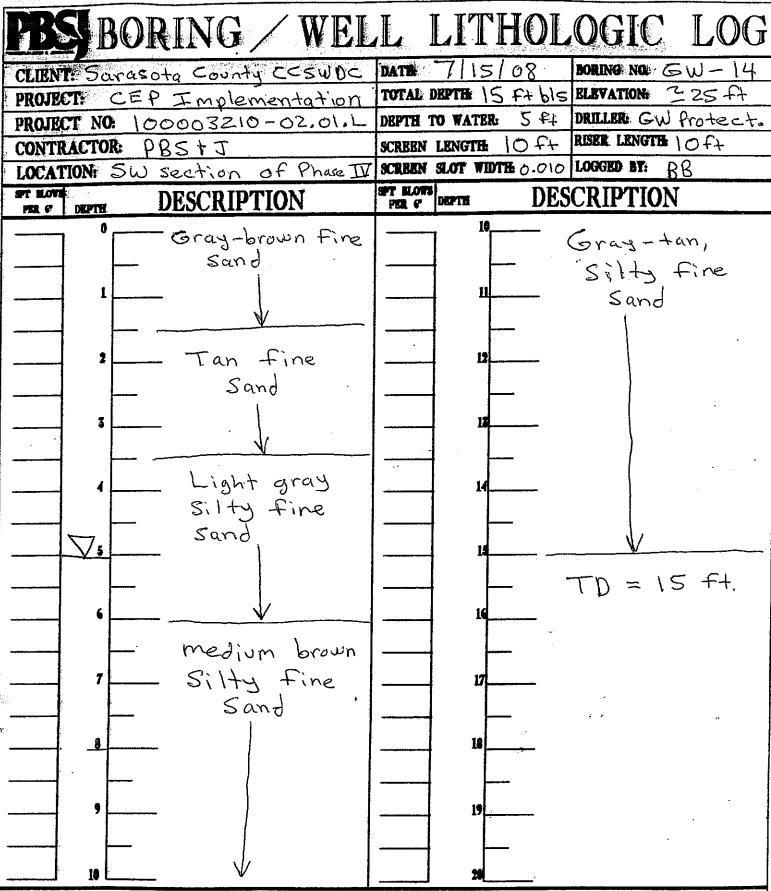
well construction: 20/30 sand from 15 ft to 3 ft bls 30/65 sand from 3 ft to 1 ft bls No cover/no pad

BORING / WELL LITHOLOGIC LOG borne no Gw-12 CLENT: Sarasota County CESWOC F+ b/s BLEVATION 225 Ft PROJECT: CEP Implementation It DRILLER GW Protect. PROJECT NO: 100003210-02.01.L DEPTH TO WATER: Of+ RISER LENGTE 10f+ CONTRACTOR: PBS+J SCREEN LENGTH LOCATION: Central part of Phase III SCREEN SLOT WIDTH 0.010 LOGGED BY: SPT NLOWS PER & DEPTH DESCRIPTION DESCRIPTION Dark brown Light to Silty sand dark brown silty sand Light green, clayey, Silfy Sand TD = 15 ft 77

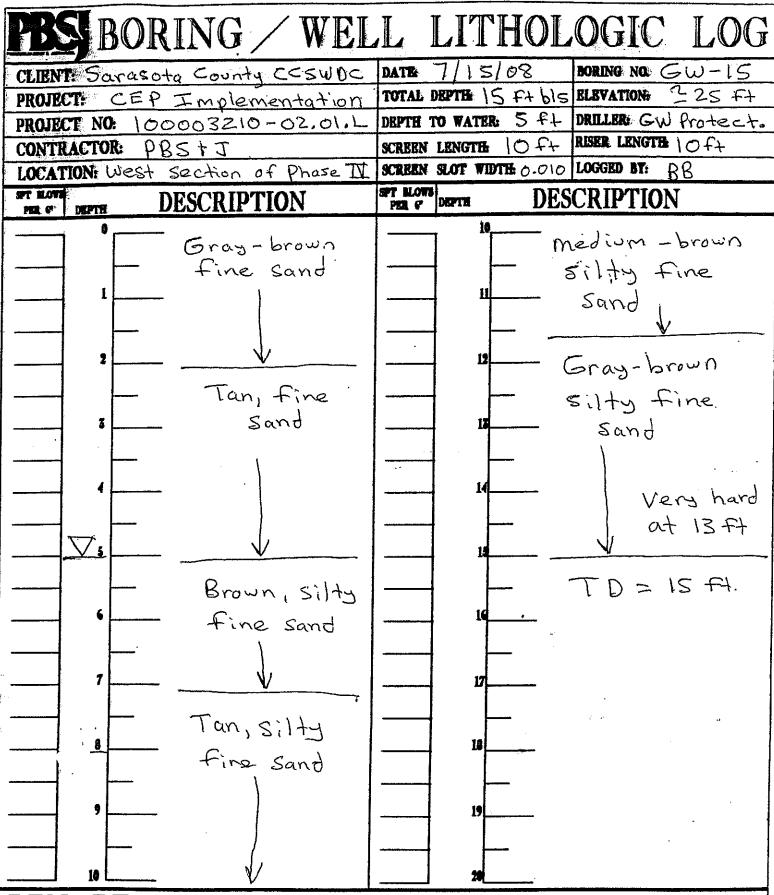
REMARKS: 20130 sand from 13 ft to 3 ft bls
well
construction: No cover/no pad

PBS BORING / WEI	L LITHOLOGIC LOG
CLENT Sarasota County CCSWDC	DATE 7/17/08 BORING NO. GW-13
PROJECT: CEP Implementation	TOTAL DEPTH 15 F+ 615 BLEVATION 2 20 F+
PROJECT NO: 100003210-02.01.L	DEPTH TO WATER: 4 Ft DRILLERE GW Protect.
CONTRACTOR: PBS+J	SCREEN LENGTH 10 ft RISER LENGTH 10 ft
LOCATION SE portion of Phase III	SCREEN SLOT WIDTH 0.010 LOGGED BY: 88
PER & DESCRIPTION	PER C DESCRIPTION
Light to dark brown, clayey and silty Sand  Light green, Sandy and clayey Silt, with Some rock Fragments	Light green Sandy and Clayer Silt With some rock fragments in lower portion  TD = 15 ft

REMARKS: 20/30 sand from 15 ft to 3 ft bls
Well
Construction: 30/65 sand from 3 ft to 1 ft bls

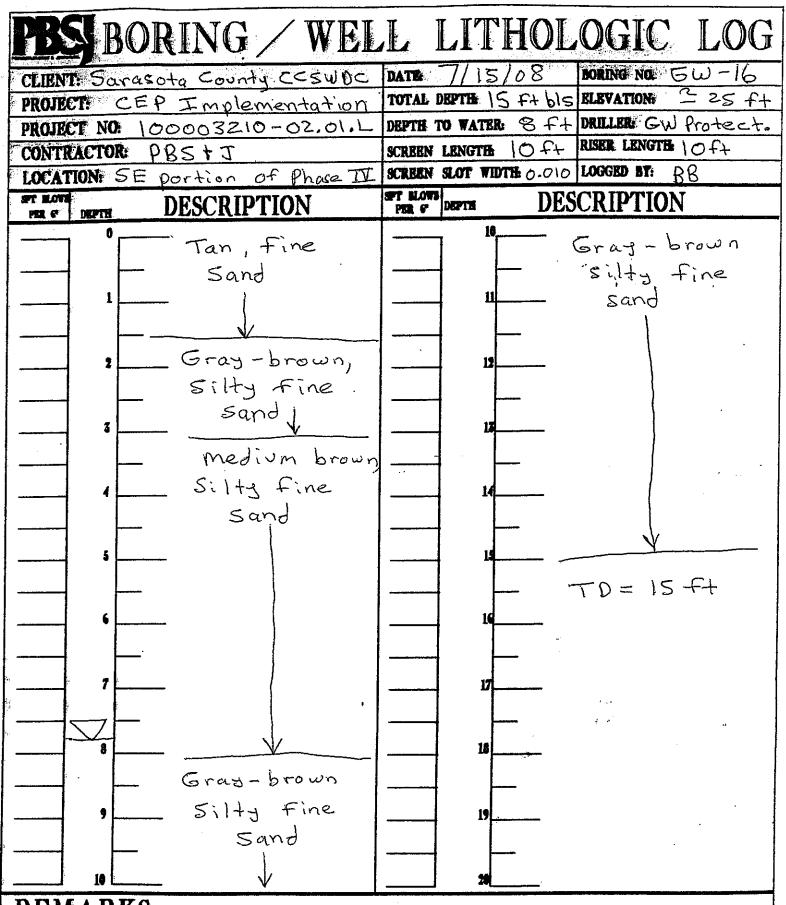


REMARKS: 20/30 sand from 15 ft to 3 ft bls
Well 30/65 sand from 3 ft to 1 ft bls
Construction: No cover/ no pad

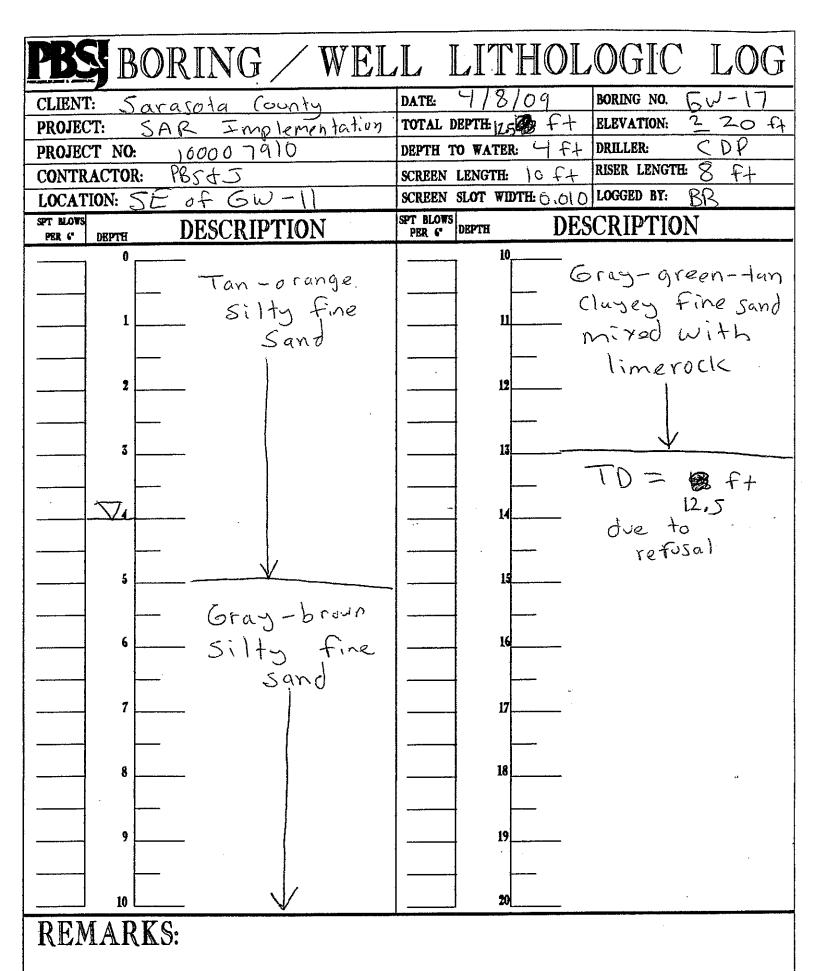


**REMARKS:** 

well construction= 20/30 Sand from 15 ft to 3 ft 30/65 Sand from 3 ft to 1 ft No cover/ on pad



REMARKS: 20/30 sand from 15 ft to 3 ft bls
Well 30/65 sand from 3 ft to 1 ft bls
Construction: No cover/ no pad



BORING / WELL LITHOLOGIC LOG boring no. 5 W = 18DATE: CLIENT: 5 grasota (ounty **ELEVATION:** 2 20 Ft TOTAL DEPTH PROJECT: SAR Implementation DEPTH TO WATER: 5 4+ DRILLER: CDP PROJECT NO: 10007910 10 F+ RISER LENGTH: 10 F+ PBS+J SCREEN LENGTH: **CONTRACTOR:** SCREEN SLOT WIDTH: O,Olo LOGGED BY: LOCATION: East of C+D facility SPT BLOWS DESCRIPTION DEPTH PER C DEPTH 10. Light gray fine sand Tan-brown Silty Fine Sand 1 12 medium brown Silty fine sand minor linerack at 159+ TD = 15 ft 17 18 19 10 REMARKS:

PBS BORING / WEL	L LITHOLOGIC LOG
CLIENT: Sarasota County	DATE: 4/8/09 BORING NO. GW-19
PROJECT: SAR Implementation	TOTAL DEPTH: 12 F+ BLEVATION: 2 20
PROJECT NO: 10000 7910	DEPTH TO WATER: 3,5 A DRILLER: < OP
CONTRACTOR: PB5+J	SCREEN LENGTH: 10 ft RISER LENGTH: 7 ft
LOCATION: E-SE of C+D facility	
SPT MOWS DEPTH DESCRIPTION	PER 6" DESCRIPTION
Gray fine Sand  Gray-brown  Fine Sand  Medium brown  Silty fine Sand  Sand  Oray-green  Coray-green  Colay	Gray-green-light  Gray-green-light  Gray-green-light  Gray-green-light  Gray-green-light  Gray-green-light  Gray-green-light  Gray-green-light  10  11  11  12  TD = 12 ft  13  14  15  16  17  18  19  20
REMARKS:	

PBS	BOR	ING/	WELI	LI	IT	HOL	OGIC	LOG		
CLIENT	: Savas	ota Count	I	DATE:	4/	7/89	BORING NO.	5W-20		
PROJEC		07910	7 7	TOTAL DE	PTH:	20 ft	ELEVATION:	2 23		
PROJEC	T NO: SA	R Implem	entation D	рертн то	) WATER	: 15 f+	DRILLER: (C	DP		
CONTR	ACTOR: PB	5+7	s	SCREEN L	ENGTH:	10 2+	RISER LENGT			
LOCAT	ION: Mulch	area near Po	rt-0-Lets	SCREEN S	LOT WIL	TH: 0.010	LOGGED BY:	BB		
SPT BLOWS PER 6°		<b>ESCRIPTION</b>	l re	PER 6 DESCRIPTION						
	0	}			10		(			
		Gray-bi	town		į					
		fine S	and		11		$\overline{\Psi}$			
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					ļ	<del></del>	Oranbe	-brown fine		
	2				12		S1177,	tine		
		V					Sand			
	3				13					
	3				14					
	<u></u>	Medium	brown		1					
	4	medium 511ty Sand			14					
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	5	Sand			715		ĺ			
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	9				19		$\bigvee$			
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	<u></u>	1/			}		Ity sar	id w/		
	10	V			20		Time	rock'		
REM	AARKS:									

PBS BORING / WEL	L LITHOLOGIC LOG
CLIENT: Sarasota County	DATE: 4/9/09 BORING NO. GW-21
PROJECT: SAR Implementation	TOTAL DEPTH: 13 FT BLEVATION: 220 FT
PROJECT NO: 10000 7910	DEPTH TO WATER: 5 F+ DRILLER: CDP
CONTRACTOR: PB<& J	SCREEN LENGTH: 10 + RISER LENGTH: 8 ++
LOCATION: DUC So OF CAD facility	SCREEN SLOT WIDTH: 0.010 LOGGED BY: BB
PER C DEPTH DESCRIPTION	SPT BLOWS DEPTH DESCRIPTION
Gray fine Sand  Tan-orange Silty fine Sand  Gray-brown Silty fine Sand  Silty fine Sand	Gray-green-tan mixture of Sandy Clay and Clayery Sand  TD = 13 ft Imerock at 13 ft
REMARKS:	

WELL LITHOLOGIC LOG BORING BORING NO. GW-22 Sarasota DATE CLIENT: 3 20 ft **ELEVATION:** PROJECT: TOTAL DEPTH SAR Implementation DP DRILLER: DEPTH TO WATER: PROJECT NO: 10000 7910 RISER LENGTH: 8 ft SCREEN LENGTH: CONTRACTOR: 2854J SCREEN SLOT WIDTH: O. 010 LOGGED BY: Rida RB LOCATION: SE SPT BLOWS PER 6" DEPTH DESCRIPTION DESCRIPTION DEPTH Gray-green-tun clayer sand Gray fire With Sand limerock 3 medium brown Silty Sand 17 7 Tan silty 18 Fire Sand 20 10

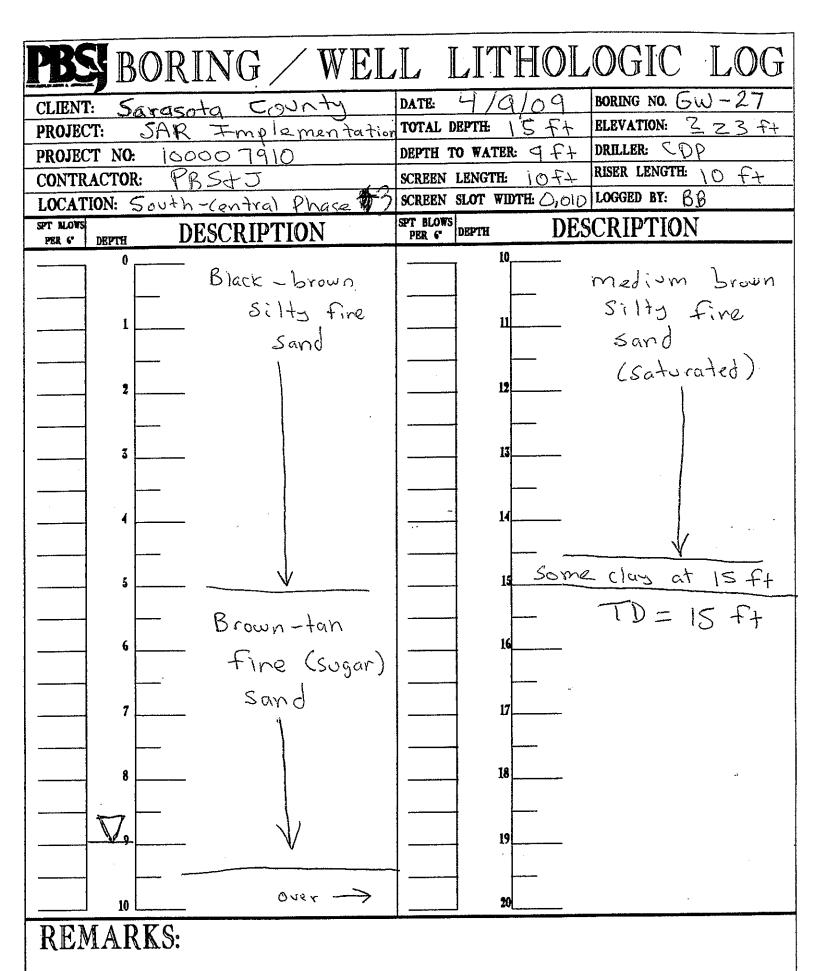
REMARKS:

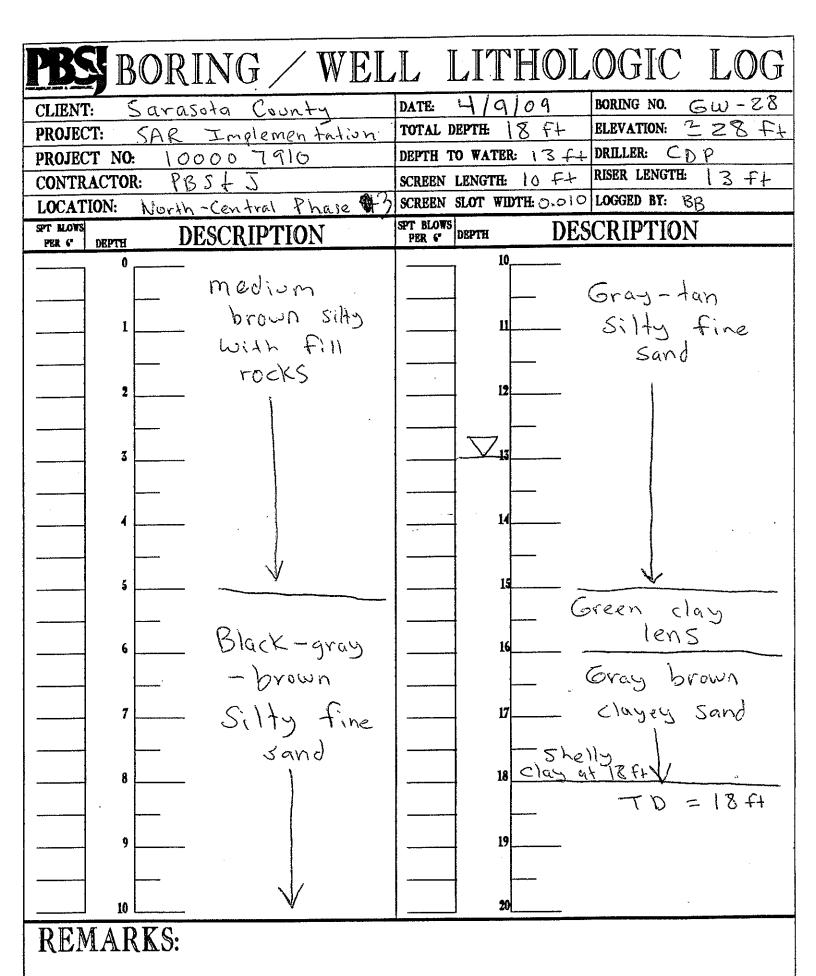
LITHOLOGIC LOG BORING BORING NO. DATE: Sarasota County CLIENT: 20 ft TOTAL DEPTH **ELEVATION:** PROJECT: JAR Implementation 4.5 FL DRILLER: DEPTH TO WATER: PROJECT NO: 10000 7910 RISER LENGTH: PBS+ J SCREEN LENGTH: CONTRACTOR: SCREEN SLOT WIDTH: 0,0 10 LOGGED BY: of Leachate LOCATION: NE Tank SPT BLOWS PER 6" DESCRIPTION DESCRIPTION DEPTH DEPTH Gray-green-lan Gray-brown c+1 iz Sandy clay fine sand Gras - green - tan clayer Sand W/ limerock 3 TD = 13 ft Gray -tan clasey and 5: 1ty fine 7 18 Gray-green-tan 1. Sands clay REMARKS:

PBS	BORING / WEI	LL LITHOLOGIC LOG
CLIEN'		DATE 4/7/09 BORING NO. 5W-24
PROJEC	· · · · · · · · · · · · · · · · ·	TOTAL DEPTH: 13 Ft ELEVATION: 2 20 ft
	CT NO: 100007910	DEPTH TO WATER: 4 F+ DRILLER: CDP
CONTTE	ACTOR. DOC 1 -	SCREEN LENGTH: 10 F+ RISER LENGTH: 8 F+
LOCAT	MON: 500 Ft 5-SE of 500	S SCREEN SLOT WIDTH: 0.010 LOGGED BY: BR
SPT MOVS	DESCRIPTION	SPT BLOWS DEPTH DESCRIPTION
	0	10
	medium	Gray - tan
		Silty fine sand
<u></u>		Sand
	Fire	
	2 Sand	Tan-white, Clayey
		sand mixed w/
	1.	white limerock
	3	13
, , , , , , , , , , , , , , , , , , ,	Gray-tan	TD = 13 Ft
	\ \( \sum_4 \)	
	Silty Fine	minor gray-gre
	<del>                                     </del>	clay also
	s Sand	14
	(Saturated)	
	6	16
	)	
	7	17
		18
	8	10
<u> </u>		
	] 9	19
	, ,	
	10	
RE	MARKS:	

LITHOLOGIC LOG BORING / WELL CLIENT: Sarasota County BORING NO. GW-25DATE: BLEVATION: 2 20 F+ TOTAL DEPTH SAR Implementation PROJECT: ++ DRILLER: 100007910 DEPTH TO WATER: PROJECT NO: RISER LENGTH: 8 Fx PBS4T SCREEN LENGTH: CONTRACTOR: LOCATION: Immediately 5 of Phase 4 SCREEN SLOT WIDTH: O.DIO LOGGED BY: SPT BLOWS PER C DESCRIPTION DESCRIPTION DEPTH DEPTH PER 6 Black-brown Light gray fine sand silty fine Sand Tan-orange Silty Fine 13 F+ Sand  $\nabla$ Gray - green clases fine Sand (Saturated) REMARKS:

BORING / WELL LITHOLOGIC LOG BORING NO. GW-26DATE: CLIENT: Sarasota County ELEVATION: 220 +7 PROJECT: SAR Implementation TOTAL DEPTH 15 F+ DRILLER: DEPTH TO WATER: ( ft 10000 7910 PROJECT NO: RISER LENGTE: 10 SCREEN LENGTH: 10 ++ CONTRACTOR: PBS + J LOCATION: S-SW OF GW-25 (50) SCREEN SLOT WIDTH: 0,010 LOGGED BY: BB SPT BLOWS DEPTH SPT BLOWS DESCRIPTION DESCRIPTION PER C DEPTH Medium brown Gray - tan fine sand silty fine sand Gray - tan ID = 12 tt Silty Fine Sand 18 20 10 REMARKS:





PBS	BORING / WEL	L LITHOLOGIC LOG
CLIENT	1: Sarasota County	DATE: 4/9/09 BORING NO. 6W-29
PROJEC	· · · · · · · · · · · · · · · · · · ·	TOTAL DEPTH: 15 Ft ELEVATION: 2 21Ft
PROJEC	CT NO: 10000 7910	DEPTH TO WATER: 8,5 DRILLER: CDP
	ACTOR: PBS4T	SCREEN LENGTH: 10 ft RISER LENGTH: 10 ft
	YON: NW corner of Phase 3	SCREEN SLOT WIDTH: 0,010 LOGGED BY: BB
SPT BLOWS PER C	DESCRIPTION	SPT BLOWS DEPTH DESCRIPTION
	Light gray Silty Fine Sand  Medium brown Silty Fine Sand  The Sand  Fine Sand	Gray silty fine  Sand  Light gray  Clayey fine  Sand  V  gray-limerock at  14 Ft  TD = 15 Ft
REN	MARKS:	

PBS	BOR	ING /	WEL		LIT	HOI	LOGIC	LOG
CLIENT	: Saras	sota Count	~\	DATE:	4/10	1/09	BORING NO.	5W-30
PROJEC		Imolemen		TOTAL I	EPTH:	13 ft	ELEVATION:	3 20 ft
PROJEC		000 7910		DEPTH T	O WATER	65ft		
	ACTOR:	B54J			LENGTH:	10 ft		8 ft
LOCAT	ION: West	+ of Phase 2/	of Pond 2			TH: 0.010	LOGGED BY:	BB
SPT BLOWS PBR 6"		ESCRIPTÍO	_	SPT BLOWS PER 6	DEPTH	DE	<b>SCRIPTION</b>	J
	0	Brown Fine Sand	ean-		10 11 12 13 14 15 16		Gray gree Clayey With lim TD=	n-tan Sand erock
	9	and & c	layey		19	 		,
REM	MARKS:							

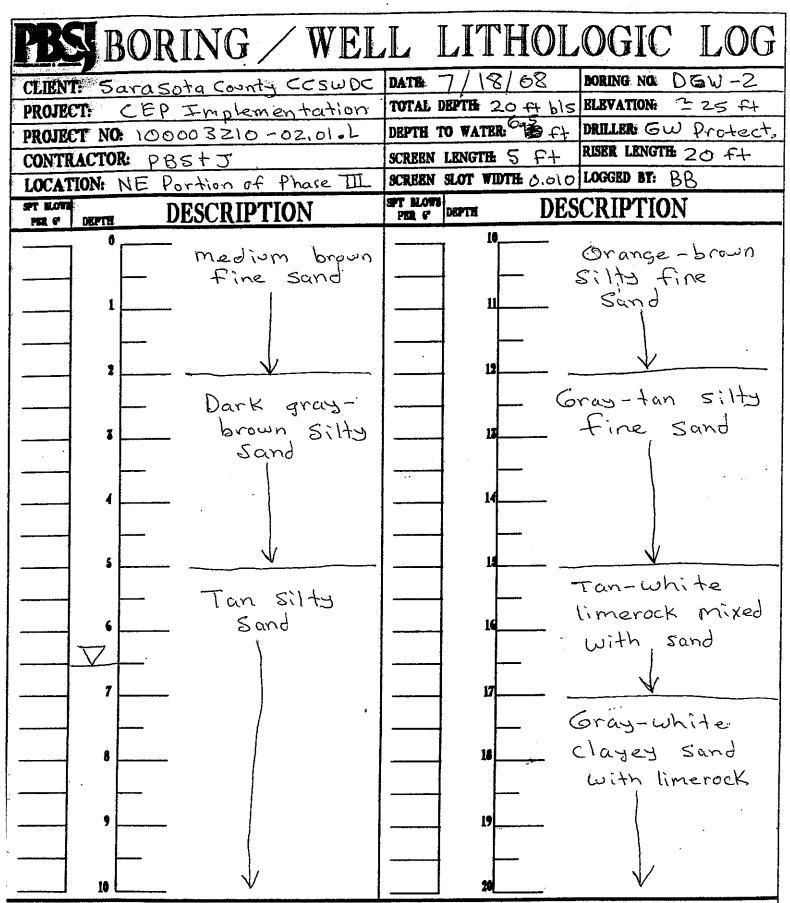
PBS BORING / WEL	L LITHOLOGIC LOG
CLIENT: Sarasota County	DATE: 4/10/09 BORING NO. 6w-31
PROJECT: SAR Implementation	TOTAL DEPTH: 13 F4 ELEVATION: 2 20 F4
PROJECT NO: 100007910	DEPTH TO WATER: 6 C+ DRILLER: CDP
CONTRACTOR: PBS+J	SCREEN LENGTH: 10 ft RISER LENGTH: 8 ft
LOCATION: Due west of Phase Z	SCREEN SLOT WIDTH: 0,010 LOGGED BY: BB
SPT NLOWS PER 6' DEPTH DESCRIPTION	SPT BLOWS DEPTH DESCRIPTION
Light tan  Light tan  Fine Sand  Silty fine  Sand  Fray - Jan  Sand  Silty Sand  Silty Sand	Gray - green-tan  Gray - green-tan  Clayey Sand  With limerock  (white)  15  16  18  19  19
REMARKS:	

#### WELL LITHOLOGIC LOG BORING CLIENT: 5 ara sota County CCSWDC BORING NO DGW-1 DATE TOTAL DEPTH 20 A bis BLEVATION 2 20 A+ PROJECT: CEP Implementation DEPTH TO WATER 23,54 DRILLER GW Protect, PROJECT NO: 100003210-02,01.L RISER LENGTH 20 F+ SCREEN LENGTE 5 F+ CONTRACTOR: PBS+J SCREEN SLOT WIDTH 0.010 LOGGED BY: BR LOCATION: North of Phase I DESCRIPTION DEPTH DESCRIPTION PER C mediom brown Light gray, silty fine sand fine Sand with minor day Gray-tan fine Sand hight tan, Sandy clay mixed with clayey sand Brown fine Sand Gray, Silty 8 fine sand Tan-white limerock with sand and clay

**REMARKS:** 

TD = 20 ft

Well = 30/65 Sand from 20 ft bls to 13 ft bls construction = 30/65 Sand from 13 ft bls to 11 ft bls Backfill soil to surface



**REMARKS:** 

Well Construction = TD = 20 ft
20/30 Sand from 20 ft bls to 13 ft bls
30/65 Sand from 13 ft bls to 11 ft bls
Backfill Soil to surface

### BORING / WELL LITHOLOGIC LOG BORING NO. DGW-3 CLENTE Sara Sota County CCSWDC DATE TOTAL DEPTH 20 # b/s BLEVATION ~ 25 ft CEP Implementation DEPTH TO WATER G It DRILLER GW Protect, PROJECT NO: 100003210-02,01.L RISER LENGTH 20 F+ CONTRACTOR: PBS+J SCREEN LENGTH 5 F+ SCREEN SLOT WIDTH 0.010 LOGGED BY: BB LOCATION: East section of Phase II PER C DEPTH DESCRIPTION DESCRIPTION Light to dark Dark brown, clayey and brown, clayey and Silty Silty Sand Sand 2 3 Light gray clayen sand and silt $abla_{f 6}$ Orange and white Silty limerock (volitic) 19

**REMARKS:** 

well construction

TD = 20 ft

20/30 Sand from 20 ft to 13 ft bls

30/65 Sand from 13 ft to 11 ft bls

Backfill soi) to surface

PRSIRORING / WEI	L LITHOLOGIC LOG
A CONTRACT OF A	
COMPLETE CONTROL OF THE CONTROL OF T	TOTAL DEPTH 20 A bis BLEVATION: 325 A
PROJECT: CEP Implementation PROJECT NO: 100003210-02,01.L	DEPTH TO WATER 6.5 Ft DRILLER GW Protect.
CONTRACTOR: PRS+J	SCREEN LENGTH 5 F+ RISER LENGTH 20 F+
LOCATION: SW portion of Phase I	SCREEN SLOT WIDTH 0.010 LOGGED BY: BB
PER C DESCRIPTION	PER C DESCRIPTION
Dark brown clayey and Silty Sand	Light green  Sandy and  clayer silt  with  limerock  fragments  Orange  oolitic  limerock

REMARKS:

TD = 20 FA

Well 20/30 Sand from 20 ft bls to 13 ft bls construction 30/65 sand from 13 ft bls to 11 ft bls

# APPENDIX C: GROUNDWATER SAMPLING LOGS

#### DEP-SOP-001/01

#### FS 2200 Groundwater Sampling

#### Form FD 9000-24

#### **GROUNDWATER SAMPLING LOG**

SITE

NAME:	PK PSO A	* CNI	19 6	C-5/120		LOCATION:					
WELL NO	M(c)-14	?		SAMPL	EID: M	12-12			DATE: 4/	22,68	<b>F</b>
PURGING DATA											
WELL	R (inches): 2	TUBING	(inches): , 24	WELL SO	CREEN INTE	RVAL feet	STATIC D	EPTH R (feet): <b>7.3</b>	PURGE PUMP T	YPE 7	5,432
WELL VO	LUME PURGE:	1 WELL VOL	UME = (TOTA	L WELL DE	PTH - ST	MIC DEPTH	TO WATER)	X WELL CA	OR BAILER:	) <del>P</del> 4	
only fill ou	t if applicable)		= ( /	1	feet - 7	· 2	feet)		gallons/foot	= 1K	gallons
EQUIPME	NT VOLUME PU	JRGE: 1 EQUI	PMENT VOL.	= PUMP VO	LUME + (TUE	SING CAPAC	ITY X		IGTH) + FLOW CELL	40	ganons
(Offig fill Ou	t if applicable)			= g	pailons + (	201 / gall	ons/foot X	1	feet) + -	galions =	gallons
INITIAL PL	JMP OR TUBINO	3	FINAL PUMI	OR TUBIN		PURGII	VG .	PURGI	NG - I	TOTAL VOLUM	4=
DEPTH IN	WELL (feet):	/2	DEPTH IN V		12_	INITIAT	ED AT /04	5 ENDE	DAT: [250]	PURGED (gallo	ons):2.8
TIME	VOLUME	VOLUME	PURGE	DEPTH TO	·pH (standard	TEMP.	COND.	DISSOLVEI OXYGEN		COLOR	ODOR
	PURGED (gallons)	PURGED (gallons)	(gpm)	WATER (feet)	units)	(°C)	or µS/cm)	(circle mg/L % saturation		(describe)	(describe)
1150	1.1	2,0	12	7.5	6.70	240	.100	.38	120	L. 13R	150 AF
1205	1.4	2.3	11	11	6.74	238	. 173	135	85	CLA	11)
1220	1.7	2.6	K	K	674	238	570	32	1944	7	11
1225	18	2.7	11	11	1.74	239	568	31	1883	• • •	pl
1230	1-9	2.8	11	11	674	739	569	.3/2	855	50	7
					(J-4-2-7	codel			00.00		
			· ·			7.					
					<u> </u>						
WELL CAP	ACITY (Gallons SIDE DIA, CAP	Per Foot): 0.7	'5" = 0.02;	1" = 0.04;	1.25" = 0.06						' = 5.88
10Billed lit	SIDE DIA. CAP	ACITY (Gal./Ft.	): 1/8" ≅ 0.00	U6; 3/16"	'=0.0014; SΔMP	1/4" = 0.002 LING DA		= 0.004; 3/8	" = 0.006; 1/2" =	0.010; 5/8'	" = 0,016
SAMPLED	BY (PRINT) / AF	FILIATION:	SA	MPLER S	IGNATURES		11/1	SAMPLING		CAMPUNIC	
GKIZ		PHE		1/1/20	Me	Ø -		INITIATED AT	1230	SAMPLING ENDED AT:	1235
PUMP OR T DEPTH IN V	TUBING VELL (feet):	12.4	SA	MPLE PUMP DW RATE (m	nL per minute	1: 453	13 M/L	TUBING MATERIAL CO	one. PA		
FIELD DEC	ONTAMINATION	V: Y N	FIE	LD-FILTERE ation Equipm	D: Y N		ER SIZE:	µm	DUPLICATE:	Y	`
	SAMPLE C		Filts	anon Equipi		PLE PRESER	NATION		_ INTENDED		
SAMPLE ID		MATERIAL	VOLUME	PRESER		TOTAL VO		FINAL	ANALYSIS AND/C	DR EQI	MPLING UIPMENT
CODE	CONTAINER	RS CODE		USE	D AD	DED IN FIEL		pН	METHOD		CODE
<u> </u>		<i>Fb</i>	50 ML						as sta	CB	>
<del></del>				1							
		_	ļ								
										``	
		<u> </u>	<u> </u>	l							
REMARKS:	<u> </u>										
	XMB	ASUAD	3 A 2	111	211	-4 -		21A: *	Y MKOB	2	
MATERIAL		AG = Amber G		Clear Glass;	PF = Pol	yethylene;	PP = Polyp	7/67/7	Silicone; T = Tefk		or/Coories
SAMPLING/	PURGING A	PP = After Peris	staltic Pump;	B = Bail		= Bladder Pu			mersible Pump;	PP = Peristal	er (Specify)
EQUIPMENT	CODES: RE	PP = Reverse	Flow Peristalt		,	v Method (Tu			= Vacuum Trap;	O = Other (S	

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

<sup>2.</sup> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

#### DEP-SOP-001/01

#### FS 2200 Groundwater Sampling

#### Form FD 9000-24

#### **GROUNDWATER SAMPLING LOG**

SITE NAME:	5MAS57A	CONS	TY CO	CSIND		SITE LOCATION:				_	
WELL NO	CIL	2-8A		SAMPL		(N)-	8A		DATE: 2/	22/18	<b>*</b>
PURGING DATA											
WELL	R (inches): 🗻	TUBING	(inches): 24		CREEN INTE		STATIC D		PURGE PUMP T	YPE Z/	0
WELL VO	WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY										
only fill out if applicable) = (											
EQUIPME (only fill ou	EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)										
	= 20 gallons + (20 gallons/foot X 1026 feet) + // gallons = /6 gallons										
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 124  FINAL PUMP OR TUBING DEPTH IN WELL (feet): 124  PURGING INITIATED AT: 125  PURGING ENDED AT: 7345  TOTAL VOLUME PURGED (gailons); 19											
	VOLUME	CUMUL.		DEPTH	pH	Γ'	COND.	DISSOLVED		1	Jis). /*
TIME	PURGED (gallons)	VOLUME PURGED	PURGE RATE	TO WATER	(standard units)	TEMP.	(μmhos/cm or μS/cm)	OXYGEN (circle mg/L or		COLOR (describe)	ODOR (describe)
/330	1.6/0	(gallons)	(gpm)	(feet) 9.4/	510	146	.657	% saturation)	10 2/7	16	1/ALE
/335	11	17	11	11	5/2	747	647	16	15 UK	- 4	11
1340	1.2	1-8	"	A	5:63	347		na	1447	1	1
1245	1.3	19	/1	11	5.4	747	64/0	111	138	4	11
					0 - 0 /	-	10.70		12-0		
				-		,					
WELL CAR	ACITY (C-#	7									
TUBING IN	PACITY (Gallons SIDE DIA. CAP	Per Foot): 0.7 ACITY (Gal./Ft.	/5" = 0.02; .):    1/8" = 0.00	1" = 0.04; 006; 3/16"	1.25" = 0.06 = 0.0014;	3; 2" = 0.1 1/4" = 0.002					' = 5.88 ' = 0.016
SAMPLED	BY (PRINT) / AF	FILIATION:	1 94	MDI ED(S) S	SAMP GNATURES	LING DA	ATA		•		
(	AGC MI	WY PA	ST	WIT LER(3)	See 1	lm!		SAMPLING INITIATED AT:	124/5	SAMPLING ENDED AT: /	12571
PUMP OR	TUBING WELL (feet):	12 1		MPLE PUMP		A.	u/	TUBING	- 40		<i>⊃20</i>
	OITAMINATION	V: Y (V)	FIE	LD-FILTERE			ER SIZE: _	MATERIAL CO	DE: //	Y . 6	
	SAMPLE C		Falt	ration Equipr		PLE PRESE	OVATION.		- INTENDED	<del></del>	MPLING
SAMPLE ID		MATERIAL	VOLUME	PRESER		TOTAL VO		FINAL	ANALYSIS AND/	OR EQ	JIPMENT
CODE	CONTAINER	S CODE		USE	D AD	DED IN FIEL	.D (mL)	pH			CODE
CW-E		- 1/1	SOM						AS SPA		
											a
					·						
										<del></del>	
REMARKS:	V 4. 1	1 ~		10000				/			
MATERIAL	<u></u>	45 BARL		HACH Clear Class		B1157		2734	944		
SAMPLING	PURGING A	AG = Amber G PP = After Peri	staltic Pump;	Clear Glass; B = Bail	er; BP	yethylene; = Bladder Pu	PP = Polyp imp; ES	P = Electric Subn	Silicone; T = Teff nersible Pump;	lon; O = Oth PP = Peristal	er (Specify) tic Pump
EQUIPMEN'		PP = Reverse	Flow Peristall	ic Pump;	SM = Strav	v Method (Τι	bing Gravity		Vacuum Trap;	O = Other (5	

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

#### DEP-SOP-001/01 FS 2200 Groundwater Sampling

#### Form FD 9000-24

#### **GROUNDWATER SAMPLING LOG**

NAME:_	APAS577	com	74 0	ZSU		SITE LOCATION:				·	
WELL NO	CW-	9		SAMPLI	EID:	w-9			DATE: 4/	22/08	
						GING DA	ATA				
WELL	R (inches): 2	TUBING DIAMETER (	inchan): 75	WELL SO	REEN INTE	RVAL_	STATIC D	EPTH R (feet): 881	PURGE PUMP TY	(PE/2)	
WELL VO	LUME PURGE:	1 WELL VOLU	IME = (TOTA	T MELL DE	TH - STA	TIC DEPTH	TO WATER)	X WELL CA	OR BAILER: PACITY	1121	
anly fill ou	t if applicable)		= (	15	feet - 8		feet)		gallons/foot	- 16	gallone
EQUIPME	NT VOLUME PO	JRGE: 1 EQUIF	MENT VOL.	= PUMP VOI					GTH) + FLOW CELL	**	gallons
(only fill ou	t if applicable)			= g	allons + ( 🦳	gail	ons/foot X	-26	feet) + ·/	gallens = /	7 gallons
INITIAL PL	JMP OR TUBIN	G. /	FINAL PUM	P OR TUBING	G	PURGII	VG .	PURGIN	• (	TOTAL VOLUM	, /
DEPTH IN	WELL (feet):	124	DEPTH IN V		12.4		ED AT:	ENDED	AT: /5/20   F	URGED (gallo	ins):
TIME	VOLUME	CÚMÚL. VOLUME	PURGE	DEPTH TO	pH (standard	TEMP.	COND.	DISSOLVED	TURBIDITY	COLOR	ODOR
•	PURGED (gallons)	PURGED (gallons)	RATE (gpm)	WATER (feet)	units)	(°C)	(μmhos/cm or μS/cm)	(circle mg/L, o % saturation)		(describe)	(describe)
1345	1	1.7 94	54	92	6.71	242	1.75	13	342	//	AKYD
1950	1.1	1.8	K	11	6.71	24/3	174	152/	3 16-7	- //	×
1455	1.2.	19	"	16	6.71	24.2	7.73	-12	4788	1	И
1500	43	2.^	11	11	6.71	247	173	-03	28 X	- //	<i>J</i> .
		7.6				4.7.4	7.00		5.07		
,							, 4	<u> </u>			
WELL CAP	ACITY (Gallons	Per Foot): 0.7 ACITY (Gal./Ft.)	5" = 0.02;	1" = 0.04;	1.25" = 0.06						= 5.88
TOBING IN	SIDE DIA. CAP	ACITY (Gal./Pt.)	: 1/8 = 0.0C	106; 3/16"	= 0.0014; SAMP	1/4" = 0.002 LING DA		= 0.004; 3/8"	= 0.006; 1/2" = 0	<u>3.010;</u> 5/8"	= 0.016
SAMPLED	BY (PRINT) / AF	FILIATION: 7	SA	MPLER(S) S	IGNATURES			SAMPLING		SAMPLING &	<u></u>
621	EG 11	WS A	355		20 1	WH		INITIATED AT	1500	ENDED AT:	305
PUMP OR T DEPTH IN I	TUBING NELL (feet):	PA		MPLE PUMP OW RATE (m	L per minute	160	ML	TUBING MATERIAL CO	DE.		
FIELD DEC	ONTAMINATIO	N: Y N	FIE	LD-FILTERE	D: Y		ER SIZE: _	μm	DUPLICATE:	Y	
		ONTAINER	1 116	Tation Equipm		PLE PRESER	ZVATION		- INTENDED		MPLING
SAMPLE ID	#	MATERIAL	VOLUME	PRESERV	/ATIVE	TOTAL VC	DL	FINAL	ANALYSIS AND/O	R EQL	JIPMENT
CODE	CONTAINE			USE	D AD	DED IN FIEL	D (mL)	pН	METHOD		CODE
CW-	/-/-		50 ML						AS SPAS		<del>}</del>
			ļ								
											ده
				<u> </u>							
				1							
REMARKS:											
	+ 46.	45ME	1 41	212-11		16.0	اور،	46-86	,		
MATERIAL		AG = Amber G		Clear Glass:		<i>الكالكا</i> yethylene;	PP = Polyp	ropylene: S =	Silicone; T = Teflo	n. 0 = 0#v	er (Specify)
SAMPLING/ EQUIPMEN	PURGING A	PP = After Peris	taltic Pump;	B = Bail	er; BP	= Bladder Pu		P = Electric Sub		PP = Peristalt	ic Pump
OTER, 4 T							OLEVICY	∍.anη, ¥1	- vacuum map,	O = Other (S	/pecity)

TES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

<sup>2.</sup> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

#### DEP-SOP-001/01 FS 2200 Groundwater Sampling Form FD 9000-24

#### **GROUNDWATER SAMPLING LOG**

NAME:	SAFAS	Sit Co	WV 19	CCS	400	SITE LOCATION:					
WELL NO	CW-	11R		SAMPL	E ID:	WIIR			DATE: 4//	22/08	
					PUR	GING DA	ATA				
WELL DIAMETER	R (inches): 2	TUBING DIAMETER (	inches):,25	DEPTH:	5 feet to	/S feet	STATIC D	R (feet): 8.5	PURGE PUMP T OR BAILER:	YPE BA	>
MELL VOI	LUME PURGE: t if applicable)	1 WELL VOLU	JME = (TOTA	AL WELL DE		8.6	TO WATER)	-	PACITY gallons/foot	-16	
EQUIPME	NT VOLUME PL	JRGE: 1 EQUI	MENT VOL.	= PUMP VO	LUME + (TU	BING CAPAC			GTH) + FLOW CELI	, . ·	<b>9</b> gallons
(only till ou	t if applicable)			= g	allons + (	90726 gail	ons/foot X	20	feet) +	gallons =	17 gallons
	IMP OR TUBING WELL (feet):	12-9	FINAL PUM DEPTH IN V		124	PURGII INITIAT	NG ED AT:	PURGII ENDED		TOTAL VOLUM PURGED (gallo	
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVEI OXYGEN (circle mg/L of % saturation	TURBIDITY or (NTUs)	COLOR (describe)	ODOR (describe)
1600	/	1.7	103	9.2	64	24./	1.13	0,13	7,55%	CC	reser
1605	1.1	1.8	K	11	6.45	240	1.13	0.12	7.BGX	11	1
1610	1.2	19	11	N	6.4/1	240	1.14	0.13	7.193	- 11	11
1615	1.3	2.0	11	11	6.47	29/	1.15	0.13	7,10 %	11	11
		ł									
										<u> </u>	
							<u> </u>			ļ	
			1		,					ļ	
WELL CAP	ACITY (Gallons	Per Foot): 0.7	5" = 0.02:	1" = 0.04;	1.25" = 0.0	6; 2" = 0.1	6; 3" = 0.	37; 4" = 0,65	; 5" = 1.02; 6"	" = 1.47; 12"	" = 5.88
TUBING IN	SIDE DÍA. CAP	ACITY (Gal./Ft.)	: 1/8" = 0.00	006; <b>3/16</b> "	= 0.0014;	1/4" = 0.002	26; 5/16"		•		= 0.016
SAMPLED	BY (PRINT) / AF	FILIATION:	SA	MPLER(S/S		LING DA	AIA .				
CRAL	5 MULD	PBST		In	2 M			SAMPLING INITIATED AT	1615	SAMPLING ENDED AT:	1620
PUMP OR	TUBING NELL (feet):	124		MPLE PUMP OW RATE (m		300	^	TUBING MATERIAL CO	- <del>/2</del>		<u>840</u>
	ONTAMINATIO	N: Y /1)	FIE	LD-FILTERE	D: Y		ER SIZE: _	µm	DUPLICATE:	Y	`
		ONTAINER	PAT	ration Equipr		PLE PRESER	NATION				
SAMPLE ID	#	MATERIAL	VOLUME	PRESER		TOTAL VC		FINAL	- INTENDED ANALYSIS AND/O	OR EQI	MPLING UIPMENT
cope	CONTAINER	RS CODE		USE	D AD	DED IN FIEL	D (mL)	pН	METHOD		CODE
JE CH	<i>~//</i> / <u>/</u>	17.	8311						AS SPAC	<u>., /3</u>	P
				1						<u> </u>	, o
REMARKS:	• • • •			, ,							
-	* MA	+SUARS	_k)//	HACH	VV	(3/分)	TY 1	BIR			
MATERIAL	CODES:	AG = Amber G		Clear Glass;		lyethylene;	PP = Polyp		Silicone; T = Teft	on; O = Oth	er (Specify)
SAMPLING/ EQUIPMEN		PP = After Peris FPP = Reverse		B = Bail tic Pump;		= Bladder Pu w Method (Tu			mersible Pump; = Vacuum Trap;	PP = Peristal O = Other (S	

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

<sup>2.</sup> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VO (only fill out if applicable)    EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VO (only fill out if applicable)    EQUIPMENT VOLUME   TUBING LENGTH) + FLOW CELL VOLUME   PURGING LENGTH) + FLOW CELL VOLUME LENGTH)   PURGING LENGTH) + FLOW CELL VOLUME LENGTH)	1,22+0,4=1. 1,22 gall		
PURGING DATA  WELL DIAMETER (inches): DIAMETER (inches): DIAMETER (inches): DIAMETER (inches): DIAMETER (inches): DIAMETER (inches): DEPTH: DIAMETER (inches): DEPTH: DIAMETER (inches): DEPTH: DIAMETER (inches): DEPTH: DEPTH: DEPTH: DEPTH TO WATER (feet): DEPTH TO WATER (feet): DOR BAILER: OR BAILER: OR BAILER: DIAMETER (inches): DEPTH TO WATER (feet): DOR BAILER: DIAMETER (inches): DEPTH TO WATER (feet): DEPTH TO WATER)  WELL CAPACITY TUBING CAPACITY TUBING LENGTH) + FLOW CELL VO  (only fill out if applicable)  DEPTH IN WELL (feet): DEPTH DH DEPTH DH TO WATER (feet): DEPTH DH TO WATER (feet): DEPTH DH TO WATER (feet): DISSOLVED OXYGEN (circle mg/L or WATER) (immhos/cm) OXYGEN (circle mg/L	1,22+0,4=1. 1,22 gal OLUME gallons = 0.44ba TAL VOLUME RGED (gallons): COLOR ODO		
DIAMETER (inches): DIAMETER (inches): DEPTH: feet to feet TO WATER (feet): OR BAILER:  WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY only fill out if applicable)  = ( 15	1,22+0,4=1. 1,22 gall OLUME gallons = 0.42ba TAL VOLUME RGED (gallons): COLOR ODO		
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY only fill out if applicable)  = ( 15	1,22+0,4 = 1. 1,22 gal OLUME  gallons = 0.44ba  TAL VOLUME RGED (gallons):  COLOR ODO		
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VO (only fill out if applicable)   = 0.214 gallons + ( 0.001 gallons/fcot X 6 feet) + 0.132	OLUME gallons = D. 42ba TAL VOLUME RGED (gallons): COLOR ODO		
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X. TUBING LENGTH) + FLOW CELL VO. (only fill out if applicable)  = 0.21A gallons + ( 0.006 gallons/fcot X 8 feet) + 0.132  INITIAL PUMP OR TUBING DEPTH IN WELL (feet):  PURGING INITIATED AT:  PURGED (standard units)  PURGED (gallons)  PURGED (standard units)  PURGED (circle mg/L or % saturation)  PURGED (circle mg/L or % saturation)	OLUME  gallons = <b>D. 4.2</b> ba  TAL VOLUME RGED (gallons):  COLOR ODO		
Final Pump OR TUBING   DEPTH IN WELL (feet):   PURGING   ENDED AT:   TOTO	TAL VOLUME RGED (gailons):		
DEPTH IN WELL (feet):         DEPTH IN WELL (feet):         INITIATED AT:         ENDED AT:         PUR           TIME         VOLUME PURGED (gallons) (gallons)         PURGE RATE (gpm)         DEPTH TO WATER (standard units)         TEMP (°C) (μmhos/cm or μS/cm)         OXYGEN (circle mg/L or % saturation)         TURBIDITY (NTUs)           930         O         O 1,15         7.36         STANTEO         47.7 · 6	RGED (gailons):  COLOR ODO		
TIME VOLUME PURGED (gallons) (gpm) (steet) VOLUME (gpm) (steet) VOLUME (gpm) (steet) VOLUME (gpm) (steet) VOLUME (standard units) (°C) (γC) (μmhos/cm (circle mg/L or γ/6 saturation) VOLUME (γC) (γC) (μmhos/cm (circle mg/L or γ/6 saturation) VOLUME (γC) (γC) (μmhos/cm (circle mg/L or γ/6 saturation) VOLUME (γC) (γC) (μmhos/cm (γC) (γC) (γC) (γC) (γC) (γC) (γC) (γC)	COLOR ODC		
932 0 0 0,15 736 STARTEO - 47.7 0			
943 1.62 1.62 0.15 814 7.43 25.93 637 1.20 47.7.0			
945 1.02 1.02 0,75 8,14 1.45 25,45 05/ 1.00 411/	PROVE NOW		
948 0.25 237 0,15 8,28 7,37 25.98 634 6-6 320.9	THENT WOR		
750 075 010 0 5 0 01 7 01 01 11 12 0 0 0 0	-		
958 0.75 3.83 0.15 8.45 7.31 26.02 630 0.62 27.1			
9 8 0 7 8 5. 8 8 0. 10 F. 75 F. 51 80.08 830 9 00 87. 1			
	-		
WELL CAPACITY (Gallons Per Foot): $0.75" = 0.02$ ; $1" = 0.04$ ; $1.25" = 0.06$ ; $2" = 0.16$ ; $3" = 0.37$ ; $4" = 0.65$ ; $5" = 1.02$ ; $6" = 1.02$ ; $6" = 1.02$ ; $1/4" = 0.0026$ ; $1/4" = 0.004$ ;			
SAMPLING DATA			
	SAMPLING ENDED AT:		
PUMP OF TIGHIC SAMPLE DIME	TOEDAI.		
DEPTH IN WELL (feet): FLOW RATE (mL per minute): "MATERIAL CODE:			
FIELD DECONTAMINATION: Y N FIELD-FILTERED. 1 DUPLICATE: Y  SAMPLE CONTAINER  SAMPLE CONTAINER  NATION DESCRIPTION OF THE PROPERTY OF THE PROPE	Y N		
SPECIFICATION SAMPLE PRESERVATION INTERNEED AND COR	SAMPLING EQUIPMENT		
SAMPLE ID # MATERIAL VOLUME PRESERVATIVE TOTAL VOL.* FINAL METHOD  CODE , CONTAINERS CODE VOLUME USED ADDED IN FIELD (mL) pH	CODE		
TOC	<u> </u>		
TDS .			
ALKSUKITY .	<u> </u>		
METACS			
APYMODIS			
METALS FILTERED	<del>_</del>		
ORP 6/			
: Ferver = 0.05 mg/	•		
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon			
SAMPLING/PURGING APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; F EQUIPMENT CODES: RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap;	PP = Peristaltic Pump O = Other (Specify)		

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

<sup>2.</sup> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

SITE NAME:							SITE OCATION:	*****			.,			7
WELL NO:	MW	<del>-94</del>		SA	MPLE ID:	, -		•			DATE: 7	129/15	 ੜ	-
				<u> </u>		PURG	ING DA	TA			.l	- 11 02		J
WELL DIAMETER	R (inches): 2	TUBING DIAMETER (	سے:(inches)		L SCREE		YAL feet	STATIC D			PURGE PUMP T OR BAILER:	TYPE PA		]
WELL VOL	UME PURGE: t if applicable)	1 WELL VOL	UME = (T	OTAL WEL	DEPTH	- STA	TIC DEPTH	TO WATER)	X W	ELL CAPA	CITY	1		-
		JRGE: 1 EQUI	= ( PMENT V	OL. = PUM	ree	t – <b>/</b> /, // E + (TUB!	<i>)[ŋ</i> ING CAPAC	feet)		سٹر G LENGT	gallons/foot H) + FLOW CEL	,	gallons	-
(only fill out	t if applicable)			=	gallon	s+( D	1026 gall	ons/foot X	20	fe	et) + 6	gallons =	6 gallons	
	MP OR TUBING WELL (feet):	3/2c5		UMP OR TU		سکد.(	PURGIN INITIAT			PURGING ENDED A		TOTAL VOLUM PURGED (gallo		]
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURO RATI (gpm	E WAT	ER (st	pH andard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	OX.	OLVED YGEN mg/L or turation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	DA.
1115	2	1,2	.08	11.0	6	8/	27.2	158	<u>ء ر</u>	29	10	CC	NO	]
1120	2.1	1.3	. 7	1	6	2	272	161	ļ <u>.</u>	!	410	10		
1125	2.2	1.4	11	11	6	.80	27.3	162		<u> </u>	40	1/		
1130	2.3	1.5	1,	//		.82	274	163		1	191	10	A	-10%
														-
·····		ļ							ļ					_
												-		-
-			1											-
						į		-	1					
		Per Foot): 0.7				5" = 0.06				= 0.65;			" = 5.88	
TOBING IN:	SIDE DIA. CAP	ACITY (Gal./Ft.	.): 1/8'' =	0.0006;	3/16" = 0. S		1/4" = 0.002 LING DA		= 0.004;	3/8" =	0.006; 1/2"	= 0.010; 5/8°	= 0.016	J
SAMPLED	BY (PRINT) / AI	_		SAMPLER					SAMPL	LING		SAMPLING .		]
PUMP OR 1		Wa MU	<u>{\bar{V}} </u>	<u>U</u>	Lin	1 MM INITIATED AT:								
DEPTH IN V				SAMPLE F	ΓΕ (mL þe				TUBIN MATER	G RIAL COD	E: PP			
FIELD DEC	ONTAMINATIO	-		FIELD-FIL Filtration E		Y 🚅	> FILT	ER SIZE: _	μm		UPLICATE:	Y	, >	
	SPECIF	CONTAINER CONTAINER				SAMP	PLE PRESER				INTENDED ANALYSIS AND		MPLING UIPMENT	
SAMPLE ID CODE	# CONTAINE	MATERIAL RS CODE	VOLU	ME PRE	SERVATI USED		TOTAL VO DED IN FIEL		FINAL pH		- METHOD		CODE	
				11113										
			1-0	1001-										
													ij	
~			-											
													<u> </u>	
REMARKS:	* 1100	SUAIB BOLANS	WIN	EA /	MG	le				**************************************				
MATERIAL		AG = Amber (	,	CG = Clear (	Blass:	PE = Pol	yethylene;	PP = Poly	propylene	s; <b>S</b> = S	licone; T = Te	flon; O = Oth	ner (Specify)	
SAMPLING EQUIPMEN		APP = After Per RFPP = Reverse			= Bailer; p; SI		= Bladder Pu w Method (Tu				ersible Pump; Vacuum Trap;	PP = Peristal O = Other (		

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

<sup>2.</sup> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

SITE NAME:	,		<del></del>				SITE LOCATION:				· · · · · ·		
WELL NO:	11:11=	A			SAMPLE	E ID:				DATE: 77	1901	 منخ	
				~~~~		PUR	GING DA	ATA	A.C		<u> </u>		
WELL DIAMETER		TUBING DIAMETER (i			DEPTH:/	REEN INTE	feet	TO WATE		OR BAILER:	TYPE	PP	)
only fill out	.UME PURGE: if applicable)	1 WELL VOLU	-		WELL DEF	feet - //	ATIC DEPTH	TO WATER)	x WELL CAF	PACITY gallons/foc	ot = /	.2	gailo
	NT VOLUME PU If applicable)	IRGE: 1 EQUIP			PUMP VOI	LUME + (TÜ	BING CAPAC		TUBING LENG	TH) + FLOW CE feet) + ろ		/IE	?, gallo
	MP OR TUBING	}			OR TUBING		PURGI	NG .	PURGIN ENDED	G 1 if in	TOTAL	/OLUM	<u>,                                     </u>
TIME VOLUME VOLUME PURGE PURGED PURGED RATE			DEPTH TO WATER	pH (standard units)	TEMP.	CÓND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L o	TURBIDITY		JRGED (gallons):  COLOR O (describe) (des			
1610	(gailons)	(gallons)	(gpm	_	(feet) [692	<del></del>	28.2	175	% saturation)	4/8	4		20
1615	15.	2.2	Ţ		1	Į į		177	.17	40	\ \ \ \		
620	1.7	2.3						176	.08	4/0	1		_b
625	13	2.4	V		4	V	<b>V</b>	176	. 09	7141	- G	•	
			<del> </del>	_									
			ļ								-		
		ļ											
	ACITY (Gallons SIDE DIA, CAP				l" = 0.04; 06; 3/16"	1,25" = 0.0 ' = 0.0014;	)6; 2" = 0 1/4" = 0.00				6" = 1.47; = 0.010;		= 5.88 = 0.016
SAMDLED:	BY (PRINT) / AF	EII IATION:		SAA	ADI ED(S) S	SAMF GNATURE	LING D	ATA				····	
	MI	1DD			, ,				SAMPLING INITIATED AT	1625	SAMPLING ENDED AT:		
PUMP OR 1 DEPTH IN V	TUBING "		٠	FLC		nL per minut		<b>&gt;</b>	TUBING MATERIAL CO	DE: DE	1,7		
FIELD DEC	ONTAMINATIO				LD-FILTERE ation Equipr			TER SIZE: _	μπ	Y 🕭			
3	SPECIF	ONTAINER ICATION					IPLE PRESE			INTENDED ANALYSIS AN		SAMPLING EQUIPMENT	
SAMPLE ID GODE	CONTAINE	RS CODE	VOLU	ME	PRESER USE		TOTAL VI DDED IN FIE		pH	NAL METHOD			CODE
*			-		<u> </u>				• •				
-							, •		•	<del>-</del>			<del></del>
	,		1		•		FU			·		, ,2	
				-,_									
				-			···						
REMARKS:		mla	( )			11/	1	mur		. /			
MATERIAL	MADULA	M/At	-//	<u> </u>	ZP = - Clear Glass	116	Johnston (1976)	- 11	propylene; S=	3	eflon:	) = Oth	er (Specify)
SAMPLING	/PURGING /	AG = Amber C APP = After Peri	istaltic Pu	mp;	<b>B</b> ≃ Ba	iler, BI	olyethylené; P = Bladder P	ump; E	SP = Electric Sub	mersible Pump;	PP =	Peristal	tic Pump
EQUIPMEN	T CODES: F	RFPP = Reverse	Flow Pe	ristalt	ic Pump;	SM = Str	aw Method (7	ubing Gravity	·	= Vacuum Trap;	0 =	Other (	Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

<sup>2.</sup> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

SITE NAME: •						OCATION:	•					
WELL NO:	MW-	IDR	,	SAMPLE	EID:				DATE: 7/	31/08		
					PURG	ING DA			,	1		
WELL DIAMETER	(inchae):	TUBING DIAMETER (	(inchae):	WELL SO DEPTH:	REEN INTER	VAL feet	STATIC DE	EPTH 13.96	PURGE PUMP OR BAILER:	TYPE <b>BP</b>		
WELL VOL	UME PURGE:							X WELL CAI			1.22	
only fill out	if applicable)		= ( [	3.65	feet - 13	.96	feet)	× 0.16	gallons/foo	ot = 0.75	gatio	
	NT VOLUME PL	IRGE: 1 EQUI						TUBING LENG	GTH) + FLOW CE	LL VOLUME		
(Only thi Out	t if applicable)			= 0.264 g	allons + ( <i>Ø</i> .	OD 6 gallo	ons/foot X	11:65	feet) + 0.132	gallons = [	0.47 gall	
	MP OR TUBINO WELL (feet):	IP OR TUBINO WELL (feet):		PURGIN INITIATE	G	PURGIN ENDED	IG	TOTAL VOLUM PURGED (gallo				
TIMÉ	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	TO (standard WATER units)		COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L o % saturation)	TURBIDITY or (NTUs)	COLOR (describe)	ODOF (describ	
820	,		0.15	1396	9174	UEV						
828	1.22	1.22	0.15	14.65	7.06	26,24	1573	5.02	22.8	OPAQUE	WON	
833	0.75	1.97	0.15	14.77	6.99	26.23	1577	2,62	9.62	CEAR	n	
838	0,75	2,72	0,15	14.75	695	26,25	1562	2.73	1. 8.05	CLEAR	Na	
943	0.75	3,27	BIS	14.82	6.94	26.22	1554	2.83	4.41	u	17	
					7 / -							
											<u> </u>	
											-	
		,				. ,	-,					
TUBING IN	ACITY (Gailons SIDE DIA, CAP			1" = 0.04; 1006; 3/16"		1/4" = 0.002	6; 5/16"				' = 5.88 ' = 0.016	
.SAMPLED	BY (PRINT) / AI	· FEILIATION:	18	AMPLER(S) S		LING DA	\ I A			T		
٠.		TILIATION.				•	* .	SAMPLING INITIATED AT	•.	SAMPLING ENDED AT:		
PUMP OR T DEPTH IN 1	TUBING WELL (feet):			AMPLE PUMF LOW RATE (n		): 	•	TUBING MATERIAL CO	DDE:			
FIELD DEC	ONTAMINATIO	N. Y N		IELD-FILTERE		FILT	ER ŞIZE: _	μm	DUPLICATE:	Y N	N	
		CONTAINER			•	PLE PRESER	RVATION		INTENDED		MPLING	
SAMPLE ID	) #.	ICATION - MATERIAL	VOLUME		VATIVE	TOTAL VO		FINAL	ANALYSIS ANI METHOD		UIPMENT CODE	
TOC	CONTAINE	RS CODE	-	USE	D AD	DED IN FIEL	D (ML)	pН				
700			<del>                                     </del>	<del> </del>								
ANDRO	4110		-	<u> </u>				.,				
UETALS	N/D									g2		
* 1 1 . 4 . 1 1	NITY											
ALGAL		·				.2.8						
	7 !	·~				~71						
FERRUS ORP			1		ļ	11	- 1			1.		
FRRRU									L		-	
FERRUS ORP				= Clear Glass		lyethylene;	PP = Poly		Silicone; T=7	reflon; O = Oth	ner (Specify	

EQUIPMENT CODES: RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain).

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

<sup>2.</sup> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)



SITE			SITE						
WELL NO: #H_//D	· · · · · · · · · · · · · · · · · · ·	SAMPLE ID:	LOCA	ION:			DATE:	4-2-1-0	
WELL NO: MI-ILR			URGIN	DATA	· · · · · · · · · · · · · · · · · · ·		DATE.	29108	
WELL 7' TUBING	3,7 V	VELL SCREEN				EPTH 200	PURGE PUMP	TYPF /	<u> </u>
DIAMETER (inches): DIAMETER (inches)	es):	DEPTH: 🧷	eet to	feet TC	) WATE	R (feet):	! OR BAILER:	···- /	
WELL VOLUME PURGE: 1 WELL VOLUME only fill out if applicable)	TOTAL W		_		•				,
EQUIPMENT VOLUME PURGE: 1 EQUIPME	= ( /5, S	, feet -	- 208	ΔΡΔΟΙΤΥ	feet)	X Z	gallons/foo GTH) + FLOW CEI	1 = /S	gallons
(only fill out if applicable)	=		+( ,00				feet) +		7 Spatlons
	NAL PUMP OR	TUBING	Р	URGING IITIATED A		PURGIN		TOTAL VOLUM PURGED (gallo	Æ .
TIME VOLUME VOLUME PURGED PURGED	PURGE RATE W	EPTH TO (star	H TE	MP. C	OND. nhos/cm μS/cm)	DISSOLVED OXYGEN (circle mg/L o % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1425 1 1.8			38 27	6 1	13	78 Saturation)	4/0		N)
1430 /1 /9	1	1 6.	35 2	25	1	.00	4/0	1	,
1435 17 20		4.	26 27	25 1	V	,71	40		
1446 1.3 21	*	6.	35 2	5 1.	24	. 21	× 2.07	1	8
								~	
					• • •				
WELL CAPACITY (Gallons Per Foot): 0.75" = TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1	= 0.02; 1" = 1/8" = 0.0006;	0.04; 1.25" 3/16" = 0.00	= 0.06; 2 014; 1/4" =	' = 0.16; : 0.0026;	3" = 0.3 5/16" =				' = 5.88 ' = 0.016
		SA	MPLIN						
SAMPLED BY (PRINT) / AFFILIATION:	SAMPL	ER(S) SIGNAT	URES:			SAMPLING	10110	SAMPLING	11/1-0
PUMP OR TUBING	SAMPI	E PUMP				INITIATED AT:	1990	ENDED AT:	420
DEPTH IN WELL (feet):	FLOW 1	RATE (mL per		EU TED C	<u></u>	MATERIAL CO	DE:		
FIELD DECONTAMINATION: Y N		FILTERED: Y n Equipment T		FILTER S	SIZE:	μm	DUPLICATE:	Y N	
SAMPLE CONTAINER SPECIFICATION			SAMPLE PI	RESERVAT	ION		MPLING		
SAMPLE ID # MÄTERIAL CODE CONTAINERS CODE	VOLUME P	RESERVATIVI USED		AL VOL 1 FIELD (m	L	FINAL pH	ANALYSIS AND - METHOD		UIPMENT CODE
				7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7			,		, ,,,,,,
SYME			ļ						£1
REMARKS:  ** MHASUCHUS W/HAC	- ]+	UT 1000			•	<u> </u>			
MATERIAL CODES: AG = Amber Glass	s; CG = Clea	ar Glass; Pi	E = Polyethyl	ene; PP	= Polyp	propylene; S =	Silicone; <b>T</b> = Te	eflon; O = Oth	ner (Specify)
SAMPLING/PURGING APP = After Peristalt EQUIPMENT CODES: RFPP = Reverse Flor	tic Pump; w Peristaltic Pi	B = Bailer; ump; SM	BP = Blad = Straw Meti	der Pump; od (Tubing		iP = Electric Sub Drain); VT	mersible Pump; = Vacuum Trap;	PP = Perista O = Other (	itic Pump

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

<sup>2.</sup> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

SITE NAME:						SITE LOCATION:						M
WELL NO:	MU-A	ZR		SAMP						DATE:	100	7
	7.1,7.			,		GING DA	NΤΑ			4 -	7-1-	<u></u>
WELL.	R (inches): 2	TUBING DIAMETER (	inches):		CREEN INTE		STATIC D	EPTH 7		PURGE PUMP TO BAILER:	TYPE	
WELL VOI	UME PURGE:			TAL WELL D	PTH - STA	TIC DEPTH	TO WATER)	X WEI				w.
	t if applicable)		= (	15.5	feet - Z		feet)		<u> </u>	gallons/foo	t = 1.6	gallons
	NT VOLUME PU t if applicable)	JRGE: 1 EQUI	PMENT VO		DLUME + (TUI		ITY X	TUBING	ELENGT	H) + FLQW CEI	LL VOLUME	1.8
					gallons + (		ons/foot X	<u>ے۔</u>		et) +	<b>2</b> gallons	
	MP OR TUBING WELL (feet):	12.5		JMP OR TUBII N WELL (feet):		PURGII INITIAT	NG ED AT: <b>/ 3</b> 4		URGING NDED AT		TOTAL VO PURGED (	
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)		pH (standard	TEMP.	COND. (µmhos/cm or µS/cm)	OXY	ng/L or	TURBIDITY (NTUs)	COLOI (describ	
14/5	多/	1.8	102	7.75	units/ 94/2	28.5	118	0.0	7	4/0	0	100
1420	1.1	19	•	1	6.51	28.4	1116			410	1	1
1425	1,2	20			6.50	28.4	.115		}	410	-	<u> </u>
1430	1.3	21	V	4	6-50	.28.4	1113	V	<u>ر</u>	X5.10	W	W
					***		<u> </u>	<u> </u>				
ļ_,						<u> </u>						
											<del>                                     </del>	
WELL CAP	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  TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											
TUBING IN	SIDE DIA. CAP.	ACTIY (Gal./Ft.	): 1/8" = C	3/10	5" = 0.0014; SAMP	1/4" = 0.002 LING DA		= 0.004;	3/8" =	0.006; 1/2"	= 0.010;	5/8" = 0.016
SAMPLED	BY (PRINT) / AF	FILIATION:		SAMPLER(S)				SAMPLI	NG	100.	SAMPLIN	G ,
PUMP OR	COKPOS FLIBING	- MUD	2	SAMPLE PUN				INITIATE		145	ENDED A	1: 1440
	NELL (feet):	12,5		FLOW RATE	mL per minute			MATERI		E: 🎤	a	
FIELD DEC	ONTAMINATIO	<u> </u>		FIELD-FILTER Filtration Equi		y FILT	ER SIZE:	μm	C	UPLICATE:	Υ	<u>®</u> .
	SPECIF	ONTAINER ICATION				PLE PRESEI				INTENDED ANALYSIS AND		SAMPLING EQUIPMENT
SAMPLE ID CODE	CONTAINE	MATERIAL CODE	VOLUM	Λ <del>-</del>	RVATIVE SED AD	TOTAL VO DED IN FIEL		FINAL pH		- METHOD	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	CODE
			ļ					<del></del>				
				es Per								
			SA	MI -								a
											<u> </u>	
			-									
REMARKS:			1				WHAT					
*	- MRASU	IARS 1	W/134E	H MA	784							,
MATERIAL	CODES:	AG = Amber (	<u>'</u>	G = Clear Glas	<del></del>	lyethylene;		propylene;		licone; T = Te		Other (Specify)
SAMPLING EQUIPMEN		APP = After Per AFPP = Reverse				= Bladder Pu w Method (T				ersible Pump; Vacuum Trap;		ristaltic Pump ner (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

<sup>2.</sup> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

SITE NAME:						SITE LOCATION:						
WELL NO:	Miles	- (h)	-84	SAMPL	E ID:	LOO/THOIL.			DATE:	129/10	7	
					PUR	GING DA	\TA			2//00		
WELL DIAMETER	R (inches):	TUBING DIAMETER (	, 25	WELL SO	CREEN INTE	RVAL feet	STATIC D	EPTH 5.7	PURGE PUMP 1	YPE DA	<u> </u>	
WELL VO	LUME PURGE: t if applicable)	1 WELL VOL	JME = (TOT	AL WELL DE	PTH - STA	ATIC DEPTH	TO WATER)	X WELL CA	APACITY		-	
1			=( /	5.5	feet – 🔰	7.92	feet)	x , 2	gallons/foot		gallons	
(only fill ou	NT VOLUME PL t if applicable)	JRGE: 1 EQUI	PMENT VOL.	_				_	IGTH) + FLOW CEL	L VÕLÜME	_	
						2026 gall		— · •	feet) + 5	gallons =	gallons	
1	JMP OR TUBING WELL (feet):	12.5		IP OR TUBIN NEĻL¶fēet):	72.5	PURGIN INITIATI	IG ED AT:///	PURGI ENDED		TOTAL VOLUM PURGED (gallo		
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPITE TO WATER (feet)	pH (standard units)	TEMP.	COND. (µmhos/cm or µS/cm)	DISSOLVEI OXYGEN (circle mg/L % saturation	TURBIDITY or (NTUs)	COLOR (describe)	ODOR (describe)	
1720	3.2	1.5	18	10.2	5.45	27.6	.827	50,	40	4	as	
1225	3.3	1.6	<u> </u>	1	5.44	27.5	.725	1.08	4/0	1		
12:30	34	17	*	A.	5.44	22.3	.870	.08	5.28×	· V	V-	
					1	<u></u>				<del>-</del>		
			<del>                                     </del>		1			-				
			<del>                                     </del>							-		
										1		
	,										<u> </u>	
	ACITY (Gallons SIDE DIA. CAP			1" = 0.04; 006; 3/16"	1.25" = 0.0 = 0.0014;	6; 2" = 0.1 1/4" = 0.002					" = 5.88 " = 0.016	
CAMPLED	DV (DDIN) 7 4	- III IA TION				LING DA	\TA					
GAI		MAD		AMPLER(S) S		5:		SAMPLING INITIATED AT				
PUMP OR T DEPTH IN \	TUBING WELL (feet):	12.5	FL	AMPLE PUMF OW RATE (n	L per minute		)_	TUBING MATERIAL C	ODE:	Ł		
FIELD DEC	ONTAMINATIO	N: Y N		ELD-FILTERE tration Equipr		FILT	ER SIZE: _	μm	DUPLICATE:	Y (Ñ	2	
	SPECIF	ONTAINER ICATION	_		SAM	PLE PRESEF	RVATION		INTENDED		AMPLING	
SAMPLE ID CODE	CONTAINE	MATERIAL CODE	VOLUME	PRESER' USE		TOTAL VO		FINAL pH	ANALYSIS AND/ - METHOD		UIPMENT CODE	
		PB	275%	u e					A6154110	1174 /-	<i>}</i> )	
	1	PH	530 W	50%	ACIS				Ayust	1 Pl	1	
		PA	Son	<u> </u>					775		A.	
<del></del>	<del></del>	PH	275	Ni	AUS	***************************************			MERGE	5 2	<u>, , , , , , , , , , , , , , , , , , , </u>	
		<u> </u>	40 M	HOL	4				73c	PC	3	
·											west.	
REMARKS:												
	ASUARD	WAACK	MET	3/L							,	
MATERIAL SAMPLING		AG = Amber C		= Clear Glass		lyethylene;	PP = Poly		= Silicone; T = Te		ner (Specify)	
EQUIPMEN		NPP = After Peri NPP = Reverse			ner; BP SM = Stra	Bladder Pu w Method (Tu	mp; ES ibing Gravity	o⊬ = Electric Su Drain); V	bmersible Pump; <b>T</b> = Vacuum Trap;	PP = Peristal O = Other (		

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

<sup>2.</sup> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

WELL NO: CW-9 SAMPLE ID: DATE: 7/30/08	`
	ــــــــــــــــــــــــــــــــــــــ
i Ollonia Dilli.	
WELL TUBING WELL SCREEN INTERVAL STATIC DEPTH STORMETER (inches): DIAMETER (inches): DEPTH: STATIC DEPTH STORMETER (inches): PURGE PUMP TYPE DEPTH: STATIC DEPTH STORMETER (inches): OR BAILER:	
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY  only fill out if applicable) = (/5 = feet - 2/1 feet) X 7 gailons/foot = /.	
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME	s galion
(only fill out if applicable) = gallons + ( gallons/fcot X 20 feet) + 1 gallons	=/ gallor
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 25 FINAL PUMP OR TUBING DEPTH IN WELL (feet): 125 PURGING ENDED AT: PURGED (g	
TIME VOLUME PURGED PURGED RATE WATER (gallons) (gpm) (feet) PURGED (gallons) (gpm) (	
1400 1 1.7 38 8.77 6.28 27.8 1.39 0.07 410 CL	1.10
1430 1:1. 1.8 1 1 6.30 1 1.40 1 40	1
1435 12 1.7 6.81 4 1.40 210 1	/
1940 13 20 4 4 6.33 27.7 1.42 4 17.12	<u> </u>
	_
1 10222 074 71017 [COMBINE GI COMP. 0110 0102] 1 0101, 1320 1100, 2 01111 2 01111	12" = 5.88 5/8" = 0.016
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010;  SAMPLING DATA	70 - 0.510
SAMPLED BY (PRINT) / AFFILIATION: SAMPLER(S) SIGNATURES: SAMPLING SAMPLING ENDED AT	
PUMP OR TUBING DEPTH IN WELL (feet); SAMPLE PUMP TUBING MATERIAL CODE: P. 15	
FIELD DECONTAMINATION: Y AS FIELD-FILTERED: Y FILTER SIZE:	<u>~</u>
SAMPLE CONTAINER SAMPLE PRESERVATION INTENDED	SAMPLING
	EQUIPMENT CODE
	-
SANI	
*.	
	,
· VOULT DUT HISE	
REMARKS: OFF = 94 FINANCE TA TILE INC.	
+ MKBSURB /U (HACH FERROUS FA = 1.8 Mg/L	
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polygropylene; S = Silicone; T = Teflon; O =	Other (Specify)
SAMPLING/PURGING APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Per	istaltic Pump er (Specify)

<sup>2.</sup> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

SITE NAME:			•			SITE LOCATION:					
WELL NO	12	W-IOF		SAMPLE		200/(11011.			DATE: 7	129/2	>
-					PURC	GING DA	ATA		<u> </u>	27/04	
WELL	R (inches): 2	TUBING DIAMETER (	(inches) 3/8	WELL SO DEPTH:	CREEN INTE	RVAL feet	STATIC D TO WATE	EPTH 8.48	PURGE PUMP OR BAILER:	TYPE &	``
WELL VO	LUME PURGE:					TIC DEPTH					
	ıt if applicable)	·	= ( [8	165	feet -	1.35	feet)		gallons/foo		gallons
EQUIPME (only fill ou	NT VOLUME PU ut if applicable)	JRGE: 1 EQUI	PMENT VOL. =					-	GTH) + FLOW CE		
			=		ralions + (			<u> </u>	feet) + , 6	gallons =	7Z gallons
	UMP OR TUBINO   WELL (feet):	3	FINAL PUMP DEPTH IN W		G	PURGII INITIAT	NG ED AT:/2:	PURGIN ENDED		TOTAL VOLUM PURGED (gallo	ME ons): 7
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP.	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L o % saturation	TURBIDITY (NTUs)		ODOR (describe)
1320	1	2.2	-08	9.08	591	27.3	153	0.14	4/0	<	کیر
1325	1.6	2.3,		{	572	274	15.2	0.18	40		)
1330	1.2	2.4	<b>-</b>		5.92	27.4	153	0.19	40	-	
1335	1-3	25	V	Λ	592	225	153	0.20	<del>x-78</del>	> <b>%</b>	4
	<u> </u>						-				
							<u></u>			-	<u> </u>
		<del></del>					]		<u> </u>		
			-								
WELL CAP	PACITY (Gailons	Per Foot): 0.7	'5" = 0.02; 1	I" = 0.04;	1.25" = 0.06	5; 2" = 0.1 1/4" = 0.002					" = 5.88
į iooneo ne	OIDE DIA: OAI	HOTTI (Galli L	j. 170 - 0.000	30, 3/10		LING DA	***	- 0.004, 3/6	- 0.006, 172	= 0.010; 5/8	" = 0.016
SAMPLED	BY (PRINT) / AF		. 1	/PLER(S) S	IGNATURES	;		SAMPLING	1255	SAMPLING	12/1
PUMP OR	TUBING	26 Ha		VPLE PUMP	<del></del>		,	INITIATED AT	1030	ENDED AT:	773
	WELL (feet): CONTAMINATION	/ <i></i> /		OW RATE (m LD-FILTERE	nL per minute		ER SIZE:	MATERIAL CC μm			
PIELD DEC		N: Y (N)	Filtr	ation Equipn					DUPLICATE:	Y (N	
SAMPLE ID	SPECIFI	ICATION MATERIAL	<del></del>	PRESER		PLE PRESEF TOTAL VO		FINAL	INTENDED ANALYSIS AND		AMPLING UIPMENT
CODE	CONTAINER	[	VOLUME	USE		DED IN FIEL		pH	- METHOD		CODE
			_								
			AMB								*******
	1		3 (17)								
		-	-								<b>;1</b>
REMARKS:	* MIA	SURIN	5 9	1470	A PI	112580					
MATERIAL		AG = Amber C		Clear Glass;		lyethylene;	PP = Polyp		Silicone; T = Te	· · · · · · · · · · · · · · · · · · ·	ner (Specify)
SAMPLING EQUIPMEN		APP = After Peri RFPP = Reverse		B = Bai ic Pump;		= Bladder Pu w Method (Ti	ımp; ES ubing Gravity	SP = Electric Sub Drain); VT	mersible Pump; = Vacuum Trap;	PP = Perista O = Other (	

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

<sup>2.</sup> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

SITE NAME:			******				SITE LOCATION:					
WELL NO:	C/N-1	IP.			SAMPLE	E ID:				DATE:	100/08	2
						PUR	GING DA					<b>,</b>
	R (inches): 2	TUBING DIAMETER (I	nches).	>	DEPTH:	REEN INTE	/S feet	TO WATE	EPTH <b>2, 2/</b> R (feet):	PURGE PUMP 1 OR BAILER:	TYPE &	Z)
	LUME PURGE: t if applicable)	1 WELL VOLU			_			TO WATER)	X WELL CA	PACITY	,	
FOLUBIA	NT VOLUME PU	DOS. 4 FOUR	= (	15	5	feet - S	(2)	feet)		gallons/foot	7 9 8.	gallons
	t if applicable)	NGE: 1 EQUIP	'WENT V			•			_	GTH) + FLOW CEL		. ~
						allons + (		ons/foot X	<u> </u>	feet) +	gallons =	gallons gallons
1	MP OR TUBING WELL (feet):	12.5			OR TUBING	12.5	PURGIN	ED AT		AT:	TOTAL VOLL PURGED (ga	IME llons):
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURG RATE (gpm)		DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVEI OXYGEN (circle mg/L of % saturation	TURBIDITY or (NTUs)	COLOR (describe)	ODOR (describe)
1570	理	1.6	-08	<u> </u>	8,16	6.11	27.4	914	,07	2/0	CL	المر
1515	/./	1.7	1		1	6.13	1	.915	1,08	40	1	1
1520	1.2	1.8				Ce.11		.915	107	40		
1525	13	19	V	•	<u>v</u> .	Cill	₩	.917		5-96*		V
	•			1								
<u> </u>												
								-				
			,					]				
	ACITY (Gallons SIDE DIA, CAP.				" = 0.04; 06; 3/16"	1.25" = 0.0 = 0.0014;	96; 2" = 0.1 1/4" = 0.002	6; 3" = 0. 26: 5/16"	37; 4" = 0.65 = 0.004; 3/8			2" = 5.88 8" = 0.016
		,				SAMP	LING DA					
SAMPLED	BY (PRINT) / AF	FILIATION:	`	SAM	IPLER(S) S	IGNATURE	S:		SAMPLING INITIATED AT	1525	SAMPLING ENDED AT:	25-3-
PUMP OR	TUBING WELL (feet):	17 5			IPLE PUMP		-1.		TUBING	200		<u> </u>
	ONTAMINATIO	N: Y (N)	•	FIEL	D-FILTERE			ER SIZE: _	MATERIAL C μm	DUPLICATE:	Υ . 1	N S
- 1225		ONTAINER		Filtra	ation Equipr	nent Type	IDI E DOGOG	31/42/01/	<del></del>		1	
SAMPLE ID		CATION MATERIAL	T		PRESER		IPLE PRESER		FINAL	INTENDED ANALYSIS AND		SAMPLING QUIPMENT
CODE	CONTAINER		VOLU	ME	USE		DDED IN FIEL		pΗ	METHOD		CODE
			ļ									
			<u> </u>									
			3/	m	<u> 12.</u>							<del></del>
												į,
					· · · · · · · · · · · · · · · · · · ·							
	***		ļ			~  -						
DEMARKS								- Indiana		<u></u>		
REMARKS:	11 8150	2.33\	W/H	m.	4 mi	7%						
MATERIAL		مرومهر AG = Amber G	lass; C	G = (	Clear Glass		olyethylene;	PP ≃ Polvi	propylene; S :	= Silicone; T = Te	flon; <b>O</b> = 0	Other (Specify)
SAMPLING	/PURGING A	PP = After Peri	staltic Pur	np;	B = Bai	ler, BF	= Bladder Pt	ımp; E	SP = Electric Su	bmersible Pump;	PP = Perist	taltic Pump
EQUIPMEN	i CODES: R	FPP = Reverse	LIOM Let	ıstaltı	c Pump;	SW = Stra	aw Method (To	uping Gravity	י טרמוח); V	T = Vacuum Trap;	O = Other	r (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

<sup>2.</sup> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

1:35

0.056 G/a

## Form FD 9000-24 GROUNDWATER SAMPLING LOG

SITE NAME:						SITE LOCATION:				1.00	
WELL NO:	GW-/			SAMPLI	•				DATE: 7	120/00	, samedonii
	7			1	PUR	SING DA	TA		/	7/100	101 1111
WELL DIAMETER	2 1 R (inches):	TUBING DIAMETER (I	inches);	WELL SO	REEN INTE	RVAL feet	STATIC D	EPTH R (feet): 918	PURGE PUMP OR BAILER:	TYPE P	D D
WELL VOL			ME = (TOT	AL WELL DEI	PTH - STA	TIC DEPTH 1	O WATER)	X WELL CAP	ACITY /7	1 × 0.0026	
EQUIPMEN	NT VOLUME PU	RGE: 1 EQUIF	= ( / PMENT VOL.	<i>9,55</i> = PUMP VOI	feet - 4, LUME + (TUE	III BING CAPACI	feet)	X DIE TUBING LENG	gallons/foc TH) + FLOW CE	t = 1,66 LL VOLUME	gallons
	t if applicable)				allons + (		ons/foot X	ا	eet) +	gallons =	gallons
	MP OR TUBING WELL (feet):	12	FINAL PUM DEPTH IN \	P OR TUBIN VELL (feet):	3	PURGIN INITIATE	G ED AT:	PURGING ENDED		TOTAL VOLUM PURGED (gaild	
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
11:05	and	4.0	0.056		STARI	ED					
11:35	1.70	1:70	0,056	9.73	6.36	28.04	018	47.7	0,77	CLEAR	-N
11:40	0.25	1.98	0.056	9.75	6.57	20.04	813	24.1	077	<u>l(</u>	L(
11:45	0.28	2.26	0096	9.77	6,60	<i>UB.01</i>	805	6.1	0,65	"	W
11:00	0,23	254	0000	979	662	20,02	199	5./	0.72	K	lt.
11:55	0,28	282	0.050	9.61	6.63	20,02	196	4.4	0.69	εf	41
	<u> </u>								-		
		VII = 160 L									• ,
	ACITY (Gallons			1" = 0.04;	<b>1.25"</b> = 0.06						' = 5.88
TOBING IN:	SIDE DIA, CAP	ACTIY (Gal./Ft.	): 1/8" = 0.0	006; 3/16"	= 0.0014; SAMP	1/4" = 0,002 LING DA	· · · · · · · · · · · · · · · · · · ·	= 0.004; 3/8"	= 0.006; 1/2"	= 0.010; 5/8'	" = 0.016
l .	BY (PRINT) / AF		SA	MPLER(S) S			<del></del>	SAMPLING		SAMPLING	
	CASTRE	2		Men	renna	D lQ/II	10	INITIATED AT:		ENDED AT:	
PUMP OR T DEPTH IN V	NELL (feet):		FL	MPLĘ/PUMF OW RATE (n	L per minute			TUBING MATERIAL COI	DE:		
FIELD DEC	OITANINATIO			ELD-FILTERE tration Equipr		filt	ER SIZE: _	μm	DUPLICATE:	Y N	
	SAMPLE C SPECIFI				SAM	PLE PRESER	VATION		INTENDED		MPLING
SAMPLE ID CODE	# CONTAINER	MATERIAL S CODE	VOLUME	PRESER USE		TOTAL VO		FINAL pH	ANALYSIS AND METHOD		UIPMENT CODE
, TOC	3	CG		HOL	4°C					4	PP
METALS	3 ]	PE		MITE		1.0				P	'P
MONINA	1/2	PE		H150	4°C						
TDS		DE			400						μ
ACKALINI	7.	PE			4°C						
ASC-B-4	4	PE		_					77. 11.		
FERRUS REMARKS	Fig							1,5			MP
arp							-	-108			
MATERIAL	CODES:	AG = Amber G	lass; CG	= Clear Glass	PE = Po	lyethylene;	PP = Polyp	propylene; S = S	Silicone; T = T	eflon; O = Oth	ner (Specify)
SAMPLING: EQUIPMEN	PURGING A	PP = After Peri FPP = Reverse	staltic Pump; Flow Perista	B = Ba		= Bladder Pu w Method (Tu		SP = Electric Subr Drain): VT :	nersible Pump; - Vacuum Trap;	PP = Perista O = Other (	

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

<sup>2.</sup> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

### DEP-SOP-001/01 FS 2200 Groundwater Sampling Form FD 9000-24

## GROUNDWATER SAMPLING LOG

CAOU COL											
FACILITY NAME:	Saras	070	<u>'007</u>	ty CCS		FACILITY LOCATION:	<	- ) aras =	ta Cour	ty Lar	nd fil
MONITORI	NG_SITE_NUM	· GW	~ <u>2</u>	WACS_				J 00 33		1/28/0	
					PUR	GING DA	ATA			12-610	Δ
WELL	(inches): 2	TUBING	inchae): \	WELL SO	REEN INTE	RVAL	STATIC D	EPTH R (feet): 8,29	PURGE PUMP T	YPE	111
WELL VOL	UME PURGE:	1 WELL VOL	JME = (TO	TAL WELL DE	PTH - STA	TIC DEPTH	TO WATER)	X WELL CA	OR BAILER: (	184.84	91710
•	if applicable)	•	= (	18	feet -	8.29	feet)	x 0.1	6 gallons/foot	= \_5	5 gallon
EQUIPMEN (only fill out	T VOLUME PU if applicable)	RGE: 1 EQUI	PMENT VO	L. = PUMP VO	LUME + (TU	BING CAPAC	ITY X	TUBING LEN	GTH) + FLOW CEL	L VOLUME	
				= 6 g	allons + ( ර.	0026 gall	ons/foot X	11,5	feet) + 0,2	_ gallons =	o.23 gallor
	MP OR TUBING VELL (feet):	1605		MP OR TUBING WELL (feet):	3 11,5	PURGIN INITIAT	NG ED AT: \\\	PURGII	NG 12:10	TOTAL VOLUM PURGED (gallo	1E 7,3
TIME	VOLUME	CUMUL. VOLUME	PURGE	DEPTH	pH	TEMP.	COND.	DISSOLVED		COLOR	ODOR
11112	PURGED (gallons)	PURGED (gallons)	RATE (gpm)	WATER (feet)	(standard units)	(°C)	" m or μS/cm)	(circle mg/L o	r (NTUs)	(describe)	(describe)
11:28	3.2	3,2	0.11	9.51	6.56	26.38	<del>  '                                   </del>	2.69	173	Clr-bry	non
11:39	<u> </u>	4.2	0.09	9.55	645	26.81	382	2,04	194		1
11.49	1	5,2	0.1	9.53	6.63	26.31	561	0.93	89,7		
11:59		6.2	0.1	9.50	6.65	26.2	580	0.64	7401		
12:09	1	7.2	0.1	9,53	6.66	26.19	590	0,62	69.0	V	V
											-
	-										* .
WELL CAP	CITY (Gallons	Per Foot): 0.7	5" = 0.02;	1" = 0.04;	1.25" = 0.06			37; <b>4" =</b> 0.65	5" = 1.02; 6'	' = 1.47; 12"	' = 5.88
TUBING INS	IDE DIA, CAPA	(CITY (Gal./Ft.)	): 1/8" = 0	.0006; 3/16"		1/4" = 0.002 LING DA		= 0.004; 3/8"	= 0.006; 1/2" =	0.010; 5/8"	= 0.016
SAMPLED E	Y (PRINT) / AFI	FILIATION:		SAMPLER(S) S			2	SAMPLING		SAMPLING	
Brad PUMP OR T	Bayne	14BS1	-2	Dra	py	9/6	m	INITIATED AT	1210	ENDED AT:	1215
DEPTH IN W		1105	<u>F</u>	AMPLÉ PUMP LOW RATE (m	L per minute	125	milm	TUBING MATERIAL CO	DE: PP		
FIELD DECC	NTAMINATION			IELD-FILTERE iltration Equipm		FILT	ER SIZE: ιὶςγογ	μm	DUPLICATE:	Y (N	)
	SAMPLE CO SPECIFIO	CATION			SAMI	PLE PRESER	VATION		INTENDED	SA	MPLING
SAMPLE ID	CONTAINE	MATERI E AL	VOLUM	E PRESERV	ATIVE	TOTAL VO	L	FINAL	ANALYSIS AND/O	OR EQI	JIPMENT CODE
	RS	CODE		035	D AU	DED IN FIEL	D (ML)	pH			
SEE	CHI	AINI	0 F	CUST	nnu	Fof	) -7	12010			
		1110	Ψ ·	4-031	001	101	<	128/08			**
			<u> </u>						,		
			<u> </u>		<u></u>						
							_				
REMARKS:		ORP :	=+38	2		1	F.	22+	=0.7	mala	
MATERIAL C		AG = Amber G		= Clear Glass;	PE = Pol	vethylene;	PP = Polypi		Silicone; T = Teff		r (Specify)
AMPLING/P	URGING AP	P = After Peris	taltic Pump	: B = Baile	er; BP :	Bladder Pur	mp; ESI	P = Electric Sub		PP = Peristalti	er (Specify)
EQUIPMENT		PP = Reverse		altic Pump; information	SM = Strav	Method (Tui	bing Gravity I	Orain): VT	= Vacuum Trap;	O = Other (S	

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

PH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

SITE NAME:						SITE LOCATION:					
WELL NO:	GW-	 -3		SAMPLE		LOCATION.			DATE: 7/	on lues	
<u> </u>	70				PUR	GING DA	TA		1/2	4/08	
WELL	(inches):	TUBING DIAMETER (I	i/4 lī inches):	OFOTU.	REEN INTE	RVAL	STATIC D	n	PURGE PUMP 1 OR BAILER:		
WELL VOI	UME PURGE: t if applicable)	1 WELL VOLU	JME = (TO	TAL WELL DEF 19.60	PTH - STA	ATIC DEPTH	O WATER)	X WELL CAI	PACITY 15x4		039 (1.1
EQUIPME	NT VOLUME PL	JRGE: 1 EQUIF	= ( / PMENT VOL	! <b>% : 000</b> L. = PUMP VOI	feet – /// LUME + (TUI	BING CAPACI	feet)	X Od 6 TUBING LENG	gallons/foot STH) + FLOW CEL	10-110	gallons
(only fill ou	t if applicable)			= g:	ailons + (	gallo	ons/foot X		feet) +	gallons =	galions
1	MP OR TUBING WELL (feet):	3		MP OR TUBINO WELL (feet):	3	PURGIN INITIATE	-	PURGIN ENDED	1	TOTAL VOLUM PURGED (gallo	
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP.	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L o % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1337			0,146	O.BTAL	TED	Her					
1347	1.54	1,54	0.145	10,47	6.32	31.62	4	8.89	2.79	CLEAR	NONE
1359	0.73	2.27	0,145	10.52	5,92	28.79	3	0.71	2,12	20	ŧſ
1402	0.73	300	0,145	1052	5.46	26.20	3	6.02	2.44	· 1	4.5
1407					6.02	27.84	3	843	263	,±(	i.
,	***************************************					,					
		Per Foot): 0.7 ACITY (Gal./Ft.)		1" = 0.04; 0006; 3/16"	1.25" = 0.00 = 0.0014;	6; 2" = 0.10 1/4" = 0.002					= 5.88 = 0.016
					SAMP	LING DA		,			
SAMPLED	BY (PRINT) / AF	FILIATION:	S	SAMPLER(S) S	IGNATURES	<b>š</b> :		SAMPLING INITIATED AT		SAMPLING ENDED AT:	
PUMP OR	TUBING NELL (feet):			SAMPLE PUMP LOW RATE (m		٠١٠		TUBING MATERIAL CO	INE:		
	ONTAMINATIO	N: Y N	F	IELD-FILTERE	D: Y N		ER SIZE: _	µm	DUPLICATE:	Y N	
<del></del>	SAMPLE C	CONTAINER		iltration Equipm		PLE PRESER	MOLTAV		INTENDED		AADI INIC
SAMPLE ID		ICATION  MATERIAL RS CODE	VOLUM	E PRESERV	VATIVE	TOTAL VO	L	FINAL pH	ANALYSIS AND METHOD	/OR EQI	MPLING JIPMENT CODE
TV	4	CG		HOL	4°C		J ()			Pi	Ø
METALS	; 7	pR		NITRI						17	
ALKALIN	ing 1	PE		10,7,7	<u> </u>						
MMONI	<i>l</i> /	DR		#250	1						ı
TAS	/	TE			7			İ			
ASCB-	9573 1	PE		-							
FERRUS 1								26			
REMARKS:	* •					,	<del></del>	23			
MATERIAL	CODES:	AG = Amber G	Slass; CG	= Clear Glass;	PE ≃ Pc	olyethylene;	PP = Poly	propylene; S =	Silicone; T = Te	flon; <b>O</b> = Oth	er (Specify)
SAMPLING EQUIPMEN		APP = After Peri RFPP = Reverse				= Bladder Pu w Method (Tu		SP = Electric Sub Drain); VT	mersible Pump; = Vacuum Trap;	PP = Peristal O = Other (S	tic Pump

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

<sup>2.</sup> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

SITE LOCATION:

SITE

NAME:

WELL NO:	GW-4	<u>.</u>		SAMPLE	ID:				DATE: 7/	29/08		
		~~~			PUR	GING DA			1	7		
WELL	(inches):	TUBING			REEN INTE		STATIC DI	EPTH R (feet): 10,39	PURGE PUMP 1	TYPE D	P	
DIAMETER WELL VOLU	JME PURGE:	DIAMETER (i 1 WELL VOLU	IME = (TOTA	DEPTH:	feet to PTH - STA	feet ATIC DEPTH T	O WATER)	X WELL CAP	OR BAILER:	•	=0.0391	
	f applicable)			1.56	feet - 10	_	-	× 0.16	gallons/fool			
EQUIPMEN	T VOLUME PU	RGE: 1 EQUIP	MENT VOL. =	PUMP VOL	UME + (TU	BING CAPACI	TY X	TUBING LENG	TH) + FLOW CEL		gallons \	
(only fill out i					allons + (		ns/foot X		reet) +	gallons =	gallons	
						<del></del>			-	<del>-</del>		
DEPTH IN W	IP OR TUBING VELL (feet):		FINAL PUMP DEPTH IN W	ELL (feet):	j	PURGIN		PURGING ENDED		TOTAL VOLUM PURGED (gallo		
TIME	VOLUME	CUMUL. VOLUME	PURGE	DEPTH TO	pH (standard	TEMP.	COND. (µmhos/cm	DISSOLVED	TURBIDITY	COLOR	ODOR	
1 HVIC.	PURGED (gallons)	PURGED (gallons)	RATE (gpm)	WATER (feet)	(statidaid units)	(°C)	or μS/cm)	(circle mg/L or % saturation)	(NTUs)	(describe)	(describe)	
1447		0	0.24	10,39	51	MED		70 00107010177				
1453	1.50	1.5	0,24	10.63	6.10	27.82	4	8.99	127	OPMAIS	NONE	
1456	1.20	3.70	0.24	10.65	6,09	27,44	4	9,63	110	u	U)	
1503	1.20	4.90	0.24	10.69	6.09	27.29	4	8.53	110	٤١	и	
150B	1.20	6.10	024	10,70	600	27,13	4	8.43	19:	(1	13	
1513	1,20	7:30	0.24	10.72	613	27.10	4	035	MA	Łſ	61	
1518	1.20	9.50	120	10.70	6.20	27.15	4	9.30	40.10	, ,,	21	
1517) 1.60 4.50 0104 10,10 0.00 0.11 4 40,50 10,19												
						1.				<u> </u>		
	CITY (Gallons									5" = 1.47; 12'	" = 5.88	
TUBING INS	IDE DIA. CAPA	ACITY (Gal./Ft.)	): 1/8" = 0.00	06; 3/16"	= 0.0014;	1/4" = 0.002 LING DA		= 0.004; 3/8"	= 0.006; 1/2"	= 0.010; 5/8'	" = 0.016	
SAMPLED B	Y (PRINT) / AF	FILIATION:	SAI	MPLER(S) S			NIA					
								SAMPLING INITIATED AT:		SAMPLING ENDED AT:		
PUMP OR TI			· ·	MPLE PUMP				TUBING				
DEPTH IN W		ut. V N		DW RATE (m LD-FILTERE			ER SIZE:	MATERIAL CO μm	DE: DUPLICATE:			
FIELD DECC	MANUTANIMATING	N: Y N ONTAINER	Filtr	ration Equipn	nent Type: _				DUPLICATE;	Y N		
	SPECIFI	CATION				PLE PRESER			INTENDED ANALYSIS AND		AMPLING UIPMENT	
SAMPLE ID CODE	# CONTAINER	MATERIAL CODE	VOLUME	PRESERV USE		TOTAL VO		FINAL pH	- METHOD		CODE	
TOC	4	C6		ACI							<i>tP</i>	
TOS	7	PE										
AMMONI	4 1	PE		HISDA							,	
METALS	5 <u>j</u>	PE		NITTL	'C						a	
ALKSLINI	ry I	PE		,								
45C-B-4	SC-8-4593 1 PR ,											
METALS	RTALS I FILTERED											
REMARKS:	IZDN			······································				4				
MP								34				
MATERIAL C		AG = Amber G		Clear Glass;		olyethylene;	PP = Polyp		Silicone; T = Te	· · · · · · · · · · · · · · · · · · ·	her (Specify)	
SAMPLING/F EQUIPMENT		.PP = After Peri FPP = Reverse		B = Bai tic Pump;		) = Bladder Pu aw Method (Τι		SP = Electric Subi Drain); VT	nersible Pump; = Vacuum Trap;	PP = Perista <b>O</b> = Other (		
VOTES: 1. T	he above do	not constitu	te all of the	informatic	n receilre	t by Chante	- 62-160 E	: A C				

pH:  $\pm$  0.2 units Temperature:  $\pm$  0.2 °C Specific Conductance:  $\pm$  5% Dissolved Oxygen: all readings  $\leq$  20% saturation (see Table FS 2200-2); optionally,  $\pm$  0.2 mg/L or  $\pm$  10% (whichever is greater) Turbidity: all readings  $\leq$  20 NTU; optionally  $\pm$  5 NTU or  $\pm$  10% (whichever is greater)

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PURGE PATE 0.24 GALMIN

<sup>2.</sup> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

SITE NAME:						SITE LOCATION:							
	GW-5	5		SAMPLE				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	DATE: 7/2	29/08			
					PUR	GING DA			7	-11-0			
WELL DIAMETER	R (inches):	TUBING DIAMETER (	inches):	WELL SO DEPTH:	REEN INTE	RVAL feet	STATIC D	EPTH 10.94	PURGE PUMP OR BAILER:	TYPE			
WELL VOI	UME PURGE:						TO WATER)	X WELL CA		CO10026	-0.04		
	t if applicable)			9.61	feet - //	1.64	feet)	U 1. W	gallons/foo	t = 1.41	gallons		
EQUIPMEI   (only fill ou	NT VOLUME PU t if applicable)	JRGE: 1 EQUII	PMENT VOL.	= PUMP VOL	.UME + (TUE	BING CAPAC	ITY X	TUBING LEN	3TH) + FLOW CEI	L VOLUME	1770		
		······	MINISTER.	≃ g:	allons + (		ons/foot X		feet) +	gallons =	gallons		
	IMP OR TUBIN( WELL (feet):	G	FINAL PUM DEPTH IN V	P OR TUBINO VELL (feet):	3	PURGIN INITIATI		PURGII ENDED		TOTAL VOLUM PURGED (gallo			
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP.	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L of % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)		
1608	9.60	0	0,198	10.84		STAR	TED						
1615	1,45	1,45	0.198	12,24	6.19	31.85	2	7.76	9,44	CLEAR	NOVE		
1620	0,99	2,44	0.198	1241	6004	30.90	2	8.02	2.22	, 4	47		
1625	0.99	343	0.198	12.65	6.02	30.11	2	B.12	1070	<u>u</u>	<u> </u>		
1630	0.99	4.42	0.198	12.76	p.08	30,44	2	7.78	1,54	, n	e1		
	 PACITY (Gallons			1" = 0.04;	1.25" = 0.00	<u> </u> 6; 2" = 0.1					' = 5;88		
TUBING IN	SIDE DIA, CAP	ACITY (Gal./Ft.	): 1/8" = 0.0	006; <b>3/16</b> "	= 0.0014; SAMP	1/4" = 0.002 LING DA		= 0.004; 3/8	' = 0.006; 1/2"	= 0.010; 5/8"	'= 0.016		
SAMPLED	BY (PRINT) / AF	FFILIATION:	SA	MPLER(S) S				SAMPLING		SAMPLING			
B. 1140 00	TUDING							INITIATED AT	:	ENDED AT:			
PUMP OR T DEPTH IN T	WELL (feet):		FL	MPLE PUMP OW RATE (π	L per minute	<u> </u>		TUBING MATERIAL CO	DDE:				
FIELD DEC	ONTAMINATIO			ELD-FILTERE tration Equipn		I FILT	ER SIZE: _	µm	DUPLICATE:	Y N			
		CONTAINER ICATION			SAM	PLE PRESEF	RVATION		INTENDED ANALYSIS AND		MPLING UIPMENT		
SAMPLE ID CODE	CONTAINE	MATERIAL RS CODE	VOLUME	PRESER\ USE		TOTAL VO		FINAL pH	- METHOD		CODE		
toc	4	CG		HC	i					Pi	P		
705	1'	PE											
METALS		PE		NITA	10								
ALKALIN	17	PE		1							a		
1543-45	13/2	PR	_										
AMINON'I	MONDUIL I PE H-504												
REMARKS:	C/0.0.10 10	2141						7.0			<del></del>		
020	HERUS IR	UN						20 -73					
MATERIAL	CODES:	AG = Amber (	Glass; CG	Clear Glass;	PE = Po	lyethylene;		<del></del>	Silicone; T = Te	eflon; O = Oth	er (Specify)		
SAMPLING EQUIPMEN		APP = After Per RFPP = Reverse		B = Bai Itic Pump;		= Bladder Pu w Method (Tu		SP = Electric Sul / Drain); V1	omersible Pump; = Vacuum Trap;	PP = Peristal O = Other (			

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.



<sup>2.</sup> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

SITE NAME:						SITE LOCATION:			•		
WELL NO:	GW-	6		SAMPLE	ID;				DATE: 1/3	30/08	
					PUR	GING DA	TA	1.00.11.11	- t	l ·	
WELL DIAMETER	(inches):	TUBING DIAMETER (iz	nches):	WELL SC DEPTH:	REEN INTE	RVAL feet	STATIC DI	EPTH R (feet). 10. 90	PURGE PUMP T	YPE	
WELL VOLU	JME PURGE:	1 WELL VOLU	ME = (TOTA	L WELL DEP		TIC DEPTH 1	O WATER)	X WELL CAP	ACITY /	×0.0020	5=0.64
only fill out i	f applicable)		= ( [4]	1.63	feet - 10	.90	feet)	× OJb	رب • gallons/foot		gallons
		RGE: 1 EQUIP			UME + (TUE	BING CAPACI			TH) + FLOW CEL		
(only fill out i	applicable)		:	= ga	allons + (	gallo	ons/foot X	!	feet) +	gallons =	gallons
INITIAL PUN DEPTH IN V	MP OR TUBING VELL (feet):		FINAL PUMP DEPTH IN W	OR TUBING /ELL (feet):	<b>3</b>	PURGIN INITIATE	_	PURGING ENDED A		TOTAL VOLUMI PURGED (gallor	
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
8:25	1.00	_	0.34	10.40		STARTE	ED.				
929	1.44	1.44	0,33	61.11	6.68	27.14	781	0.47	895	DPAQUE	NONE
334	1.07	3.09	0.33	11.21	6.70	27.25	788	0,59	194	£(	4
834	1.55	4,53	0.73	11.26	669	27.27	787	0.57	205	и	H
944	1.65	6.18	0.33	11.29	660	21.31	778	049	190	a	¢.r
849	1.65	1.93	0.33	11.35	6.68	2132	718	0.44	156	и	બ
		, -				1 1 2 1		,			
									. >		
											•:
WELL CAPA TUBING INS	CITY (Gallons IDE DIA, CAPA	Per Foot): 0.75 ACITY (Gal./Ft.):	5" = 0.02; : 1/8" = 0.00	1" = 0.04; 06: 3/16"	<b>1.25"</b> = 0.00 = 0.0014;	6; 2" = 0.16 1/4" = 0.002					= 5.88 = 0.016
						LING DA					
SAMPLED B	Y (PRINT) / AF	FILIATION:	. SAI	MPLER(S) SI	GNATURES	3:		SAMPLING		SAMPLING	"
PUMP OR T	IDING			MOLE ON MAD				INITIATED AT:		ENDED AT:	
DEPTH IN W				MPLE PUMP DW RATE (m		e):		TUBING MATERIAL CO	DE:		
FIELD DECC	IOITAMINATIO	N: Y N		LD-FILTERE ration Equipm		N FILT	ER SIZE:	μπ	DUPLICATE;	Y N	
	SAMPLE C SPECIFI	ONTAINER				PLE PRESER	VATION		INTENDED	SAI	MPLING
SAMPLE ID	#	MATERIAL	VOLUME	PRESERV		TOTAL VO		FINAL	ANALYSIS AND/ - METHOD		IIPMENT CODE
TOC	CONTAINER	RS CODE		HC		DED IN FIELI	) (ML)	pH [			DP
TOS	- <del></del>	PE		770							P
AMMONI	. /	PE		i+250	Ast.				(800	Pi	
METALS	2 /	PE		11270	)CF				610	77	
ALIFALIWII		PE							עוע		**
MGC-B-4		PE									
OPP		10	<del> </del>					-20			
REMARKS: FRILLY LIETO	£G 1	PE		1		FILTER	<u>'</u>	3			-
MATERIAL C		AG = Amber G	lass; CG =	Clear Glass;	PE = Po	lyethylene;	PP = Polyp	propylene; S = 3	Silicone; T = Te	flon; O = Othe	er (Specify)
SAMPLING/F EQUIPMENT		PP = After Peris FPP = Reverse		B = Bail tic Pump;		= Bladder Pu w Method (Tu		P ≃ Electric Subr Drain); VT :	nersible Pump; = Vacuum Trap;	PP = Peristalt O = Other (S	

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

<sup>2.</sup> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

NAME:				SAMPLE		LOCATION:	*	*	DATE: 7/	120/00	
WELL NO:	GW-7	<u>/</u>		SAMPLE					DATE: 7/	30/08	
						GING DA				<u> </u>	
WELL DIAMETER	(inches):	TUBING DIAMETER (i	nches):	WELL SO	REEN INTE feet to	RVAL feet	STATIC DE		PURGE PUMP OR BAILER:	TYPE	
WELL VOL	UME PURGE:									= D.nci	
only fill out	if applicable)		= ( /	9.70	feet -	10.60	feet)	× 0.16	クチザ・レン <i>Cの</i> gallons/foo	ot = 1.44	Ĺ
	IT VOLUME PU	IRGE: 1 EQUIF	MENT VOL	. = PUMP VOL	.UME + (TUE	SING CAPACI	TY X	TUBING'LENGT	H) + FLOW CE	LL VOLUME (	
(only fill out	if applicable)	· · · · · · · · · · · · · · · · · · ·			allons + (	• gallo	ons/foot X		eet) "+ .	gallons =	
	MP OR TUBING WELL (feet):			MP OR TUBING WELL (feet):	3 .	PURGIN INITIATE		PURGING ENDED A		TOTAL VOLUM PURGED (gall	
TIME	VOLUME PURGED (gailons)	VOLUME PURGED (gallons)	PURGE: RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP." (°C)	COND. (µmhos/cm- or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	(
1119	0		0.10	10.60		STARTE	D			OFAGUS	
1/34	1,50	150	Ado	12:30	6.66	26754	804	.0.36	200	W CONT	
11.30	0,50	2.00	0.10	12.56	6.65	2848	010	0.47	40.6	и	
11.00	0,50	2.50	0.10	12.77	6.63	28.37	821	0201	94.6	ų.	
1149	0,50	2.00	0,10	1293	6.61	20.32	0-39	036	124	. મ	1
	<u></u>	V V V V	01.0	1012	07.Q7	000	112		<del>                                     </del>		1
	<del></del>	<u> </u>	<del>  .</del>	1	<u> </u>						$\top$
	,			···	*						1
			<u>                                     </u>			-			<del>-</del>		+
						<u> </u>	· · ·		·		
WELL CAP	ACITY (Gallons	Per Foot): 0.7	'5" = 0.02;	1" = 0.04;	<b>1.25"</b> = 0.0	6; <b>2"</b> = 0.1	[ 6; 3" = 0.;				!" = 5
TUBING IN	SIDE DIA. CAP	ACITY (Gal,/Ft.	): 1/8" = 0.	0006; 3/16"	' ≈ 0.0014;	1/4" = 0.002 LING DA	6; <b>5/16</b> "	= 0.004; 3/8" =	= 0.006; 1/2"	= 0.010; 5/8	3" = C
SAMPLED	BY (PRINT) / Ai	FILIATION:	T s	AMPLER(S) S			1 .			0.4451.010	
	Gr.	-		1/1001	mum	MA B	sten	SAMPLING INITIATED AT:	1149	SAMPLING ENDED AT:	
PUMP OR	TUBING	~ <del>~~~</del>		AMPLE PUMF		all-log		TUBING	\ <del></del>		
DEPTH IN V			F	LOW RATE (n	nL per minute	¥): N FILT	ER SIZE:	MATERIAL COE	DUPLICATE:	Y N	
PIELD DEC	ONTAMINATIO	N: Y N		Iltration Equipr	ment Type:						
<u></u>	SPECIF	ICATION	<del></del>	245050		TOTAL VO		FINAL	INTENDED ANALYSIS AND		AMP QUIPI
	CONTAINE	RS CODE	VOLUM	PRESER USE		DDED IN FIEL	D (mL)	pH PINAE	METHOD	•	COI
SAMPLE ID CODE	· • s.										
TOC						-	<u> </u>				
TOC	·					1/ 1/ 					
CODE									•	41	
TOC TOC TDS	/is										
TOC TOC AMMON	11s .										
TOC TOC TDS	11s .							• •			
TOC TOC TOC AMMON METAL DUKAÜN AGC-8 49	1/18 	***************************************					<b>3</b> 0	•		-	•
TOC TOC AMMON METAL ALKAUN AGC-B 49 METACS	/w					FILTERE	30			•	-
TOC TOC TOC AMMON METAL DUKAÜN AGC-8 49	1/18 1/14 547							50 2,2	•	Fefion; O = O	

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

<sup>2.</sup> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

SITE NAME:						SITE LOCATION!	-		-	//	
WELL NO:	6W-P			SAMPLE	E ID:				DATE: 1/	29/08	
					PUR	GING DA	TA .		[	$\iota$	
WELL		TUBING		i	CREEN INTE		STATIC DE	PTH 10,54	PURGE PUMP	TYPE P	n
DIAMETER		DIAMETER (		DEPTH:	feet to		TO WATER		OR BAILER:	<u>.</u>	
	, in applications,		<del></del> (	19.62	feet - K	204	feet)	× 12.110	PACITY S <b>Y (%0026</b> ) gallons/foo	ot = $1.45$	1,50 galio
	IT VOLUME PU if applicable)	RGE: 1 EQUI	PMENT VO	DL. = PUMP VO	LUME + (TUi pallons + (		TY · X ons/foot X	TUBING LEN	GTH) + FLOW CE feet) +	ELL VOLUME gailons =	gallo
	MP OR TUBING	;	1	UMP OR TUBIN	G	PURGIN		PURGII ENDED		TOTAL VOLUM	
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURG RATE (gpm)	DEPTH E TO WATER	pH (standard units)	TEMP	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L of which saturation	TURBIDITY or (NTUs)	<del>                                     </del>	ODOR (describe
オンタカ	12	194	0.11	10.54		STAIT	90				
12/6	1.50	1.5	Deli	11.02	7.15	27.46	3605	0.74	55.2	OPAGUE	NON
1351	0.55	2.05	0,11	10.99	7.12	27.53	3626	0,52	11.9	મ	+7)
1356	0,55	2,60	0.11	11.03	7.10	27.60	3626	0.39	3. 3	( CEDE	NOW
	,			• -		<u></u>	<u> </u>		<u> </u>		
					<u> </u>		·		•		ļ
											<u></u>
					,						
7											
				,							· .
WELL CAP	ACITY (Gallons SIDE DIA, CAP	Per Foot): 0.	75" = 0.02	1" = 0.04;	1.25" = 0.0 " = 0.0014;						" = 5.88 " = 0.016
TOBING IN	SIDE DIA. GAI	MOTT (Gally)		0,000, 3710		LING DA		<u> </u>			
SAMPLED	BY (PRINT) / AF	FILIATION:		SAMPLER(S) S	SIGNATURE	S:		SAMPLING INITIATED AT		SAMPLING ENDED AT:	
PUMP OR	TUBING			SAMPLE PUM				TUBING			
	WELL (feet):			FLOW RATE (r FIELD-FILTER			ER SIZE:	MATERIAL C	7	Y , N	
	ONTAMINATIO			Filtration Equip					DUPLICATE:	<del></del>	
**. 4.	SPECIF					APLE PRESEF		**.	INTENDE ANALYSIS AN	_	AMPLING UIPMENT
· SAMPLE ID	CGNTAINE	MATERIA RS CODE	r Norn	ME PRESER		TOTAL VC DDED IN FIEL		FINAL pH	METHOD		CODE
TOC.						<i>:</i>					
AMMON	• ^							•	:		
The											
ALI4ALINI	T-1/					······································					
METAL	· / I				•.						
	4585										
ORP		ľ				-94	3	•			
						700	<u> </u>		•		
REMARKS FOULUS	,		*			200	• .	•	•	•	
		AG = Amber	Glass: (	CG = Clear Glass	s; PE = P	olyethylene;	PP = Poly	propylene; S			her (Specify

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160; F.A.C.

<sup>2.</sup> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

all depths below top of Casing (BTC)

FACILITY	50.00	sota C	<u> </u>	705	Mod	FACILITY		5	1		I.C. J.			
NAME:						LOCATION:		Jaruso	ta cou	ULA FU	notil			
MONITOR	ING_SITE_NUM	<u>" Gw</u>	9-9	WACS_		<del></del> -			DATE: /	130/08	3			
		T			PUR	GING DA	\TA							
	(inches): 2	DIAMETER (	inches): 1/4	WELL SO	REEN INTE	RVAL 20 feet	STATIC D	EPTH R (feet): 10.71	PURGE PUMP OR BAILER:	erista	atic			
only fill ou	t if applicable)	T TTELL VOLU		20		0.71				۱				
EQUIPME	NT VOLUME PU	IRGE: 1 EQUIF			feet - \LUME + (TUE	BING CAPAC	feet)	X O \	GTH) + FLOW CEL	t = l <sub>o</sub> S	gallons			
(only fill ou	t if applicable)				-			13.5			),2§gallons			
	MP OR TUBING WELL (feet):	13,5	FINAL PUMI DEPTH IN W		³ 13.5	PURGIN	IG ED AT: 12	PURGII	NG 1310	TOTAL VOLUM PURGED (gallo	IE 7			
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/c m or µS/cm)	DISSOLVED OXYGEN (circle mg/L of the second	TURBIDITY or (NTUs)	COLOR (describe)	ODOR (describe)			
1220	2.0	2.0	0.1	11.26	6.27	27.16	1331	0,46	6.44	brown	none			
1230		3.0	0.1	11.31	6,27	27.12	1331	0,42			)			
1240	1	4.0	0.1	11.29	6,26	27.00	1327	0.38						
1250	1	5.0	0.1	11.33	6.26	26.89	1327		<del></del>					
1300		6.0	0.1	11-31	6.24	26.84		0.36	111 -	1	V			
	1300 1 6.0 0.1 11.31 6.24 26.34 1324 0.36 4.34 V													
											•			
	,													
WELL CAP TUBING IN:	ACITY (Gallons SIDE DIA, CAP	Per Foot): 0.7 ACITY (Gal./Ft.)	5" = 0.02; ;   1/8" = 0.00	1" = 0.04; 06; 3/16"	1.25" = 0.06 = 0.0014;	3; 2" = 0.10 1/4" = 0.002					= 5.88 = 0.016			
						LING DA								
Bra	BY (PRINT) / AF	;	342 sa	MPLER(S) S	IGNATURES ECM	08	) 	SAMPLING INITIATED AT	1310	SAMPLING ENDED AT:	1315			
PUMP OR T	UBING	13.5	SAI	MPLE PUMP DW RATE (m	- /	125	m) min	TUBING MATERIAL CO						
	ONTAMINATIO		FIE	LD-FILTERE	D: Y <b>(</b> N	FILT	ER SIZE: _	<u>MATERIAL</u> CC	DUPLICATE:	Y (N	`			
		ONTAINER	Filtr	ation Equipn					DUFLICATE,	Y (N	/			
	4	CATION MATERI	1		SAM	PLE PRESER	VATION		INTENDED ANALYSIS AND		MPLING			
SAMPLE II CODE	CONTAIN RS		VOLUME	PRESER\ USE		TOTAL VO DED IN FIELI		FINAL pH	METHOD		JIPMENT CODE			
SEE	CHA	AIN O	FCI	STOV	27	FOR	7	130/08			17			
						· <del></del> ··				_				
REMARKS:	EMARKS:													
	Č	ORP =	-93	3			Fe.	2+ =	102 m	19/0				
MATERIAL	CODES:	AG = Amber G	ass; CG =	Clear Glass;	PE = Pol	yethylene;	PP = Polyp		Silicone; T = Ter	<u> </u>	er (Specify)			
SAMPLING/ EQUIPMENT	CODES: RE	PP = After Peris PP = Reverse	taltic Pump; Flow Peristalti	B = Bail c Pump;		= Bladder Pur v Method (Tui	mp; ES bing Gravity	P = Electric Sub Drain); VT	mersible Pump; = Vacuum Trap;	PP = Peristalt O = Other (S	ic Pump			

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

all depths below top of casing (BTC)

FACILITY NAME:	Sara	50tg C	-0274		SWDC	FACILITY LOCATION:		5araso-	ta Cou	nty La	ndfill			
	ING_SITE_NUM			1		LOCATION.			DATE:	7/201	02			
		<u> </u>			PUR	GING DA	λΤΑ			11 2-11	08			
WELL	R (inches): Z	TUBING	inches). \/	4 NEDTH	SCREEN INTE	ERVAL	STATIC D	EPTH 991	PURGE PUMP OR BAILER:	TYPE	-11>c			
WELL VOI	UME PURGE:	1 WELL VOLL	JME = (TO	TAL WELL DE	PTH - ST.	ATIC DEPTH	TO WATER)	X WELL CA	PACITY	1641840	21-1-1			
	t if applicable)		= (	20	feet	9.91	feet)	x 0.16		t = \ _ (	gallons			
EQUIPME! (only fill ou	NT VOLUME PÜ t if applicable)	JRGE: 1 EQUIP	MENT VOI		•			100	GTH) + FLOW CEL					
				= 0	gallons + ( C	, cologali	ons/foot X	13	feet) + Ø.2	- gallons =	O , උදිgallons			
	MP OR TUBINO WELL (feet):	15		MP OR TUBI! I WELL (feet):		PURGIN INITIATI	NG ED AT: 10	23 PURGIN ENDED	IG AT: [] 25	TOTAL VOLUM PURGED (gall	ME 7.3			
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP.	COND. (µmhos/c m or µS/cm)	DISSOLVED OXYGEN (circle mg/L o % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)			
1046	3.0	3,6	0,13	10.86	6.07	26.88	1303			elear	none			
1055	1	4.0	0.11	10.90	6.09	26,89	1301	6,38	5.60					
1104	Ì	5.0	0.11	10.81	6.07	2687	1302	0.37	4.58					
1113	1113 1 6.0 0.11 10.86 6.04 26.81 1300 0.28 3.60													
1122	1122 1 7.0 0.11 10.85 6.04 26.82 1300 0.26 4.60 V													
			<u> </u>			<u> </u>								
-														
											•			
			-											
WELL CAP	ACITY (Gallons	Per Foot): 0.7	5" = 0.02;	1" = 0.04;	<b>1.25"</b> = 0.0	06; 2" = 0.10	6; <b>3"</b> = 0.:	37; <b>4"</b> = 0.65;	5" = 1.02; 6	6" = 1,47; 12	" = 5.88			
TUBING IN	SIDE DIA, CAPA	ACITY (Gal./Ft.)	: 1/8" = 0.	.0006; 3/16	5" = 0.0014;	1/4" = 0.002	6; 5/16"				" = 0.016			
SAMPLED (	BY (PRINT) / AF	FILIATION:		SAMPLER(S)		LING DA	AIA O							
		:/ PBS+	. F	AS-	was.	× 5/16	ru-	SAMPLING INITIATED AT:	1125	SAMPLING ENDED AT:	1130			
PUMP OR T DEPTH IN V		13		SAMPLÉ PÚM LOW RATE (		e): [25	2/2	TUBING MATERIAL CO	DE PP					
FIELD DEC	ONTAMINATION	N: Y (N)	F	IELD-FILTER	RED: Y		ER SIZE: _	μm	DUPLICATE:	Y (N	)			
	SAMPLE C			nation Equip		IPLE PRESER	VATION							
SAMPLE IO CODE	14	MATERI	VOLUMI		RVATIVE	TOTAL VO	L	FINAL pH	INTENDED ANALYSIS AND METHOD	/OR EQ	AMPLING JUIPMENT CODE			
		-)	<del>-</del>		- 0		<u> </u>							
SEE	CHAN	N OF	<del> </del>	072C	D 4	FOR	- /	129/08			p			
<u> </u>			-											
	<del></del>		<del>                                     </del>											
			<del> </del>											
			-								·			
REMARKS:		ORP	<u> </u>			/ (		+ =2.0	Mali	-				
MATERIAL	CODES	AG = Amber GI		- Clear Class		<u> </u>		<u>_</u>						
SAMPLING/	PURGING A	PP = After Peris	staltic Pump	= Clear Glass ); B = Ba	ailer, BP	lyethylene; = 8ladder Pur	PP = Polyp mp; ES	P = Electric Subr		PP = Peristal				
		FPP = Reverse		auc rump;	5M = Stra	w Method (Tui	oing Gravity	⊔rain); VT	= Vacuum Trap;	O = Other (	Specify)			

1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

<sup>2.</sup> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

all depths below top of casing (BTC)

FACILITY NAME:	Sara	50+a C	-0274-	3 265	WDC	FACILITY LOCATION:	4	Saraso	ta cou	nty La	mofill
MONITORI	NG_SITE_NUN	1: 6 h	)~I\	WACS_	WELL:	-				128/0	
ł						GING DA					
WELL VOL	(inches): 2	TUBING DIAMETER (	inches): \/\c	WELL SO	CREEN INTE	RVAL 20 feet	STATIC D TO WATER	EPTH 773	PURGE PUMP OR BAILER: { PACITY	TYPE Perist	raltic
only fill out	if applicable)	777222 7022	= (	20		7,73		× Oil6			6 gallons
	NT VOLUME PU	JRGE: 1 EQUIF	MENT VOL.	= PUMP VO			ITY X	TUBING LEN	GTH) + FLOW CEL	T AOLUME	₩ ganone
(ditty till dat				= () g	allons + ( ប	.0026 gallo	ons/foot X	10.5	feet) + 0,2	gallons =	a,23 gallons
	MP OR TUBINO WELL (feet):	10,5		P OR TUBIN VELL (feet):	G LO.S	PURGIN NITIATI	IG ED AT: ÌS	25 PURGIN	IG AT: 1645	TOTAL VOLUI PURGED (gal	ME 7.0
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP.	COND. (µmhos/c m or µS/cm)	DISSOLVED OXYGEN (circle mg/L of % saturation	TURBIDITY r (NTUs)	COLOR (describe)	ODOR (describe)
1553	2.5	2.5	0.09	8,33	6.61	Z6.25	1025	0,97	73.1	brown	slight
1605	1	3.5	0.08	8.41		26.37	978	0.28	146.4		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
1610	0.5	4.0	0.1	8.35	6.48	26.43	944	0.21			
1620	<u> 0:5</u>	4,5	0.1	8.37	6.45	26,42	911	0.20	45,3		
1630	<u> </u>	5,5	0.)	8.41		26.51	883	0.30			
1640		6.5	0.1	8.40	6.41	26.52	856	0.26	105,4		
							<u> </u>				<u> </u>
			-								-
WELL CAP	ACITY (Gallons	Per Foot): 0.7	5" = 0.02:	1" = 0.04;	1.25" = 0.0	6; 2" = 0.16	3; <b>3</b> " = 0.3	37; 4" = 0.65;	5" = 1.02: 6	) 3" = 1.47; 12	" = 5.88
TUBING INS	SIDE DIA. CAP	ACITY (Gal./Ft.)	: 1/8" = 0.0	006; 3/16"	= 0.0014;	1/4" = 0.002	6; 5/16"				" = 0.016
SAMPLED E	BY (PRINT) / AF	FILIATION:	SA	MPŁER(S) S		LING DA	NIA O				
	Bayne	2/PBS=	. 1	Hora	in	96	2 -	SAMPLING INITIATED AT	16:45	SAMPLING ENDED AT:	16:50
PUMP OR T DEPTH IN V		10.5		MPLE PUMP OW RATE (m		1: 125	m//m	TUBING MATERIAL CO	DE: PP		
FIELD DEGG	OITAMINATIO	N: Y (N)	FIE	LD-FILTERE	D: (3)		ER SIZE:	μm	DUPLICATE:	Y (N	)
	SAMPLE C SPECIFI					PLE PRESER			i (Truppe		
SAMPLE IE	-#	MATERI	VOLUME	PRESERV USE		TOTAL VO		FINAL pH	INTENDED ANALYSIS AND METHOD		AMPLING QUIPMENT CODE
SEE	Z CHA	12/10	PC	457c	POV	FOR	2 71	28/08			٥
REMARKS:	$\bigcirc$	RP =	- 8	}	, <u>, ,</u>	/	Fe	2+ =	2,8	Mala	
MATERIAL O		AG = Amber Gi		Clear Glass;	PF = Po	lyethylene;	PP = Polyp	ronylene: 5 -			204 (D===25.3
SAMPLING	PURGING A	PP = After Peris	staltic Pump:	B = Bail	er; BP	= Bladder Pur	no: ES	P = Electric Sub	Silicone; T = Te mersible Pump;	PP = Perista	ner (Specify)
EQUIPMENT	CODES: RI	FPP = Reverse	Flow Peristal	tic Pump;	SM = Stra	w Method (Tul	bing Gravity	Drain); VT	= Vacuum Trap;	O = Other (	

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

<sup>2.</sup> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

WELL NO:	GW-12	<u> </u>		SAMPLE			*	19	DATE: 7/3	00/00	
		,	, .		PURC	ING DA	TA	·			
WELL DIAMETER	(inches):	TUBING DIAMETER (	inches):	WELL SC DEPTH:	REEN INTER feet to	RVAL feet	STATIC DI	EPTH U.14	PURGE PUMP T OR BAILER:	$\mathcal{P}$	F
WELL VOL		1 WELL VOLU	JME = (TO	TAL WELL DEP		_	O WATER)	X WELL CAP	PACITY O Y Oc0026 gallons/foot	z.0.04 = 1.36	
EQUIPMEN	NT VOLUME PU	RGE: 1 EQUI	= ( PMENT VOL						TH) + FLOW CEL	L VOLUME	2
(only fill out	if applicable)			= ga	alions + (	gallo	ons/foot X	··· .	feet) +	gallons ≈	•
	MP OR TUBINO WELL (feet):	3		MP OR TUBING WELL (feet):		PÜRGIN		PURGIN ENDED		TOTAL VOLU	
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP.	COND. (µmhos/cm' or µS/cm)	DISSOLVED OXYGEN (circle mg/L o % saturation)	TURBIDITY (NTUs)	COLOR (describe)	
1557			0.13	11.14	51	arte	D				
1607	140	i.40	0,13	11.59	6.55	27.27	1643	1.50	0.05	CLEAR	·
1612	0.65	205	013	11.64	6.42	27.10	1629	0.57	7.91	u	
1617	0.65	2.70	0.13	11.69	0.38	2691	1016	0.43	5.82	, n	
	<b>,</b>						45.4				
•											_
			<u> </u>						·		
WELL CAP	ACITY (Gallons SIDE DIA, CAP	Per Foot): 0:7 ACITY (Gal./Ft	75" = 0.02; ):   1/8" = 0.	1" = 0,04; .0006; 3/16"	1.25" = 0.06 = 0.0014;	5; 2" = 0.1 '1/4" = 0.002		37; 4" = 0.65; = 0.004; 3/8"		5" = 1.47; 1: = 0.010; 5/	2' 8'
CAMPLED	6 <b>57</b> (p.p.) (175 / 33	CU INTION	····	SAMPLER(S) S		LING DA	ATA				
SAMPLED I	BY (PRINT) / AF	- PILLIA FION:		SAMPLER(S) S	IGNATURES	i. My		SAMPLING INITIATED AT	:	SAMPLING ENDED AT:	
PUMP OR 3	rubing			SAMPLE PUMP				TUBING			
	NELL (feet):			FLOW RATE (m FIELD-FILTERE			ER SIZE:	MATERIAL CC	-		
FIELD DEC	ONTAMINATIO	N: Y N		iltration Equipm	nent Type:	<u></u> -		· · · · · · · · · · · · · · · · · · ·	DUPLICATE:		N
- CAMPICIO	SPECIF	ICATION	<del></del>	- Borceo		PLE PRESER		FINAL_	INTENDED ANALYSIS AND		SA Q
SAMPLE ID CODE	CONTAINE	RS CODE	VOLUM	PRESERV		TOTAL VC	!	pH	METHOD		
TOC CONTAINERS CODE							t A.	<u> </u>			Į
<i>100</i>			ļ								
10C 7DS	i4		<b>↓</b>								٠
TOC TDS AMMON	18	·				•					د،
TOC TOS AMMIN ALVALIN	<i>'''  </i>				<u>\</u>		•				
TOC TDS AMMIN <u>AWAUN</u> METAL	7// 2			į.	ŀ			•2			
TOC TOS AMMIN ALKALIN METAL ASC-10-4	9 464 ·										
TOC TOS AMMINI AMETAL ASC-19-4 ERREUS- BEMARKE	9 464 Fe							<i>3.</i> 70	,		
TOS AMMINI ALVALIA METAL ASC-10-4 ERRUS- BEMARKS	9 9 144 Fe		·					- 32			

<sup>2.</sup> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

all depths below top of Casing (BTC)

FACILITY						EACHITY					
NAME:	Sara:	50+q C	2004	3 CCS	MDC	FACILITY LOCATION:		Saraso	ta cou	nty La	mofill
MONITOR	ING_SITE_NUM	1: 6W	-13	WACS_	WELL:	940			DATE:	7/30/	08
					PUR	GING DA	ATA				
WELL DIAMETER	R (inches): Z	TUBING DIAMETER (	inches):\/᠘	WELL SO	CREEN INTO	ERVAL 20 feet	STATIC D	DEPTH ER (feet): 8.82	PURGE PUMP OR BAILER:	TYPE Parch	altic
only fill ou	LUME PURGE: t if applicable)	1 WELL VOL		AL WELL DEF 2 <i>0</i>	-111 - 31	ATIC DEPTH	TO WATER	) X WELLUA	PACITY		
EQUIPME	NT VOLUME PU	RGE: 1 EQUI	= (	= PUMP VOI	feet LUME + (TU	SS2 BING CAPAC	- feet	X のん(	O gallons/foo GTH) + FLOW CE	ot = 1.7	4 gallons
(only fill ou	t if applicable)					0.0026 gall	ons/foot X	11	feet) + 0,2		o,∠Zgallons
1	IMP OR TUBING WELL (feet):	3 [ ]	FINAL PUM DEPTH IN V	P OR TUBING VELL (feet):	G 11	PURGIN INITIAT	NG (O)	- ONOR	IG AT: 1130	TOTAL VOLUI PURGED (gall	ME (snol):
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP.	COND. (µmhos/c m or µS/cm)	DISSOLVED OXYGEN (circle mg/L o % saturation	TURBIDITY r (NTUs)		ODOR (describe)
1036	2.0	2,0	0.11	9.16	6.53	26.57	<del> </del>	1.95	32.8	brown	none
1045	1	3:0	0.11	9.24	6.4	126.77		0,43			
1054		4.0	0.11	9.25	6.50	26.78	1392		12.2		
1103	1	5.0	0.11	9.23	0	26.62	1394		10.12		
1112	<u> </u>	60	0.11	9.26		26.64	1391				
1121		م.[_	0.11	9,24	6.46	26.68	1392	0.36	10.09		
-					·						
		·	·								•
				<del></del>						<del>  _</del>	
WELL CAP	ACITY (Gallons	Per Foot): 0.7	'5" = 0.02;	1" = 0.04;	<b>1.25"</b> = 0.0	6; <b>2"</b> = 0.1	6; <b>3"</b> = 0.	.37; <b>4"</b> = 0.65;	5" = 1.02; 6	6" = 1.47; 12	!" = 5.88
TUBING IN:	SIDE DÍA. CAPA	ACITY (Gal./Ft.)	): 1/8" = 0.00	006; 3/16"	= 0.0014;	1/4" = 0.002 PLING DA	6; 5/16"				" = 0.016
	BY (PRINT) / AF			MPLETY(S) S			2	CAMBLING			
Bra PUMP OR T	d Bayn	ve/PB			un	Se / B	m	SAMPLING INITIATED AT:	1130	SAMPLING ENDED AT:	1135
DEPTH IN V		11	FL	MELE PUMP OW RATE (m	L per minute			TUBING MATERIAL CO	DE: PP		
FIELD DEC	ONTAMINATION	رپ	FIE   Filt	LD-FILTERE ration Equipm	D: (Y) { nent Type; _	FILT	ER SIZE: _	hw	DUPLICATE:	Y (A	2
	SAMPLE CO SPECIFI				SAM	IPLE PRESER	RVATION		INTENDED	9	AMPLING
SAMPLE II CODE	CONTAIN	E AL CODE	VOLUME	PRESER\ USE		TOTAL VO		FINAL pH	ANALYSIS AND METHOD	/OR EQ	UIPMENT CODE
SEE	CHF	TN 0	FC	USTO	Pa	FOR	7	130/08			£1
	-										•
REMARKS:	(	ORP	= -	110			F	2 2+	= 1,8	malo	
MATERIAL (		AG = Amber G		Clear Glass;	PE = Po	lyethylene;	PP = Polyp		Silicone; T = Te		ner (Specify)
SAMPLING/I EQUIPMENT		PP = After Peris PP = Reverse		B = Baili ic Pump;		= Bladder Pur w Method (Tul	mp; ES bing Gravity	6P = Electric Subr Drain); VT	nersible Pump; = Vacuum Trap;	PP ≈ Peristal O = Other (	ltic Pump

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

all depths below top of Casing (BTC)

FACILITY	_	١ .	- \		,	FACILITY			1		\				
NAME:	5ara:	sota C	~00U4-	3 CC 5	MDC	LOCATION:	*	Jaraso-	ta cou	nty La	ndfill				
MONITOR	NG_SITE_NUM	" GW	-14	WACS_	WELL:		<del></del>		DATE: 7	1301	20				
,						GING DA									
WELL	l (inches): Z	TUBING DIAMETER (	inches):\/_	WELL SO	REEN INTE	RVAL 20 feet	STATIC D TO WATE	EPTH R (feet):8,24	PURGE PUMP TO BAILER:	Peris	tal tic				
only fill out	.UME PURGE: if applicable)	1 WELL VOLU	JME = (TOTA = (	ALWELL DEF この	PTH - STA feet -	TIC DEPTH 12, 8	TO WATER)	X WELL CAI	PACITY	= 1.89					
EQUIPMEN	IT VOLUME PU	IRGE: 1 EQUIF		= PUMP VO		BING CAPAC	ITY X	TUBING LENG	STH) + FLOW CEL	L VOLUME	gallotis				
` '						.ao26 gall	<del>~ ?</del>	<del></del>	feet) + , O , 7						
1	MP OR TUBING WELL (feet):	10.5	FINAL PUM DEPTH IN V		10.5	PURGIN	ED AT:	ENDED	AT: 1010	TOTAL VOLUM PURGED (gallo	ns): 7.8				
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/c m or µS/cm)	DISSOLVED OXYGEN (circle mg/L o % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)				
922	2,5	2.5	0.11	2,69	7.39	2682	1502	1,95	9.52	clear	none				
931		3.5	0.11	8.61	6.97	26.76	1525	1,90	5,16						
940	!	4.5	0.11	8.59	675	26.69	1583	44)	3,90						
	949 1 5.5 0.11 8.65 6.69 26.70 1608 1.10 3.10														
958	958 1 6.5 0.11 8.60 6.62 26.59 1774 0.42 3.51														
1007	1	7.5	0.11	8.61	6.61	26.59	1776	0.41	3.09		4				
								·							
											··				
					-··										
TUBING IN	ACITY (Gallons SIDE DIA, CAP	Per Foot): 0.7 ACITY (Gal./Ft.)	5" = 0.02; ):   1/8" = 0.06	1" = 0.04; 006; 3/16"	1.25" = 0.00 = 0.0014;	6; 2" = 0.1 1/4" = 0.002		37; <b>4"</b> = 0.65; = 0.004; 3/8"			' = 5.88 ' = 0.016				
C 0 4 4 5 4 5 5 5						LING DA									
_	BOY (PRINT) / AF		242	MPLER(S) S	IGNATURES	065	) _/	SAMPLING INITIATED AT:	1010	SAMPLING ENDED AT:	1015				
PUMP OR T	UBING	10.5	SA	MPLE PUMP		125	mym	TUBING	00						
	ONTAMINATION		FIE	OW RATE (m ELD-FILTERE	D: Y (N	*	ER SIZE: _	MATERIAL CO μm	DE: T DUPLICATE:		\\				
	SAMPLE C		Filt	ration Equipn					DOFLICATE.	YN	, 				
	SPECIFI				SAM	PLE PRESER	RVATION		INTENDED		MPLING				
SAMPLE ID CODE	CONTAIN RS		VOLUME	PRESER		TOTAL VO IDED IN FIEL		FINAL pH	ANALYSIS AND/ METHOD		UIPMENT CODE				
SEE	<u> </u>	MIAT	OF	CV!	1072	7 F	-OR 7	1/30/08			٠,٠				
			· · · · · · · · · · · · · · · · · · ·	ļ											
			<u> </u>												
REMARKS:					. <u>L</u>										
· VEWINING.			0	3P =	_ 90	2 /	Co	rross	=   .	2 mg/	0				
MATERIAL (	CODES:	AG = Amber G		Clear Glass;		lyethylene;	PP = Polyp		Silicone; T = Tef						
SAMPLING/E	PURGING A	PP = After Peris	taltic Pump;	B = Bail	er; BP	= Bladder Pui w Method (Tu	mp: ES	P = Electric Subr	nersible Pump;	PP = Peristali					
TEC. 4 Th				ac i unitpi			only Glavity	υι <b>α</b> πη, ΥΙ:	= Vacuum Trap;	0 = Other (9	pecity)				

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

<sup>2.</sup> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

all depths below top of Casing (BTC)

NAME: ~	aras	ota C	<u>.00047</u>	, CC5	MDC	LOCATION:		)arasot	a Cour	nty La	ndfill
MONITORING	_SITE_NUM:	<u>6</u> w	-15	WACS_	WELL:	<del></del>			DATE:	7/29)	80
						GING DA					
WELL DIAMETER (in	ches): Z	TUBING DIAMETER (i	nches): 1/식	WELL SO DEPTH:	REEN INTE	RVAL 20 feet	STATIC D	EPTH R (feet): 9,6	PURGE PUMP TO BAILER: P	rrista	1+ic
only fill out if a	pplicable)		= (	20	rin – Sia feet –	(1), P	TO WATER)	X WELL CAP	ACITY	= 1,6	
EQUIPMENT \ (only fill out if a	OLUME PUR	RGE: 1 EQUIP	MENT VOL.	= PUMP VOI	UME + (TUE	BING CAPAC	ITY X		TH) + FLOW CELL		· ganeria
						co26 gall			feet) + O.2	gallons = C	3,23gallons
INITIAL PUMP DEPTH IN WE		1405	FINAL PUMP DEPTH IN W	/ELL (feet):	12.5	PURGII	ED AT: 110		1300 i	TOTAL VOLUM PURGED (gallo	1E ins): 7,5
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP, (°C)	COND. (µmhos/c m or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1205	2.0	2,0	0.1	105	6.60	29.01	3087	0.97	12.3	clear	none
1215		3.0	0.1	10.55	6:40	28,59	3047	0.68	3.36		
1225	!	4.0	0.1	10.53		28.47		0.18	2,63		
1235		5,0	0.1	10.59	6.39	28,50	2927	0.16	3.15		
1245		6.0	0.1	10.55	6.39		2928	0.15	2.34		
1255		7.0	0,1	10,54	6.39	28.64	2927	0.13	2.23	$\bigvee$	$\sqrt{}$
					_						
William Carrier											
WELL CAPACI TUBING INSID	IY (Gallons I E DIA, CAPA	er Foot): 0.7! CITY (Gal./Ft.)	5" = 0.02; :1/8" = 0.00	1" = 0.04; 06; 3/16"	1.25" = 0.06 = 0.0014;	3; 2" = 0.1 1/4" = 0.002	6; 3" = 0.3 6; 5/16" =				= 5.88 = 0.016
0440150.00					SAMP	LING DA	<b>ATA</b>				
Brad (	sayne		. !	MPLER(S) S	IGNATURES	06	)	SAMPLING INITIATED AT:	1300	SAMPLING ENDED AT:	305
PUMP OR TUB DEPTH IN WEL		1205	1	MPLE PUMP DW RATE (m		125	mym	TUBING MATERIAL COL	PP	)	
FIELD DECONT		: Y (N)	FIE	LD-FILTERE ation Equipm	D: Y		ER SIZE:		<del>'-</del> -	(Y) N	
	SAMPLE CO SPECIFIC		1 110	Liter Equipit		PLE PRESER	RVATION				
SAMPLE ID CODE	# CONTAINE RS	MATERI	VOLUME	PRESERV USE		TOTAL VO DED IN FIEL	L D (mL)	FINAL pH	INTENDED ANALYSIS AND/O METHOD	DR EQU	MPLING JIPMENT CODE
SEE	CH	AW	OF	TZW	4004	FOY	२ 7	129/08			¢1
-		_									
										<u> </u>	,
REMARKS:		<u> </u>	<u></u> <u>-</u> .								
TICHE GUICE.	0	RP		- 76			Fo	2+ =	1.2	,	
MATERIAL COL		AG = Amber GI	ass: CG =	Clear Glass;	PE = Poi	yethylene;	PP = Polypi		ilicone; T = Teflo	on: O = Othe	er (Specify)
SAMPLING/PUF EQUIPMENT CO	RGING AP	P = After Peris PP = Reverse I	taltic Pump;	B = Baile	er; BP	= Bladder Pu v Method (Tu	mp; ES	P = Electric Subm		PP = Peristalt O = Other (S	ic Pump

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

all depths below top of casing (BTC)

FACILITY NAME:	Sara:	sota C	20074-	CC5	WDC	FACILITY LOCATION:		Sar	asot	O COU	nty La	ndfill
MONITOR	ING_SITE_NUM			WACS_		<b>—</b>				DATE: 7		28
					PUR	GING DA	TA			<u>l F</u>	, 201   0	<i>,</i> 0
WELL VOI	R (inches): Z	TUBING DIAMETER (	inches): \/\	WELL SO	REEN INTE	RVAL 20 feet	STATIC TO WA	DEPTH (TER (feet):	9.85	PURGE PUMP T OR BAILER: { ACITY	YPE Peris-	taltic
only fill out	t if applicable)	TOLLE VOL	= (	20		7.85		et) X	_			3 gallons
EQUIPMENT (only fill out	NT VOLUME PU	RGE: 1 EQUI	PMENT VOL.	= PUMP VOI	UME + (TU	BING CAPACI	TY X	TUBI	NG LENG	TH) + FLOW CEL	L VOLUME	
				= 🖒 g:	allons + ( C	.0026 gallo	ons/foot X	12.	,5	feet) + 0.2	gallons =	0.23 gallons
1	MP OR TUBING WELL (feet):	12.5	FINAL PUMI DEPTH IN V		1209	5 PURGIN	ED AT:	100		945	TOTAL VOLU PURGED (gal	ME 7.5
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gailons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND (µmhos m or µS/cm	/c OX	SOLVED (YGEN e mg/L or aturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
9:15	2,5	2,5	6.17	10.31	657	27.25	(8)	2 3	3,27	9.89	clear	none
9:20	0.8	3.3	0.17	10.40	4	27.36	1813		,50	6.03		
9:25	0.8	4.1	0.17	10.37		27.40			.13	3,58		
9:30	0.8	4.9	0.17			27152			2,75	3.02		
91:35	0.8	5,8	0.17	10.35	6,53	27.57	183	30 C	<u> </u>	2.98	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	V
			<u></u>									
		- 110.4										<u> </u>
											-	
WELL CAP	ACITY (Gallons	Per Foot): 0.7	'5" = 0,02;	1" = 0.04;	1.25" = 0.0		3; 3" =	0.37; 4	" = 0.65;	5" = 1.02; 6	" = 1.47; 12	" = 5.88
TUBING IN	SIDE DÍA. CAPA	ACITY (Gal./Ft.	): 1/8" = 0.00	06; 3/16"	= 0.0014;	1/4" = 0.002		6" = 0.004;	3/8" :	= 0.006; 1/2" =	= 0.010; 5/8	3" = 0.016
	BY (PRINT) / AF			MPLERTS) S			2	SAMO	LINO		CAMPING	
Brad	Bayre	1PBS		15	u	0/_			TED AT:	945	SAMPLING ENDED AT:	950
PUMP OR T DEPTH IN \	TUBING WELL (feet):	1205		MÉLE∕PUMP OW RATE (m		): 125	Wil)	TÜBİN MATE	IG RIAL COI	DE: PP		
FIELD DEC	ONTAMINATIO	V: Y N		LD-FILTERE		D FILT	ER SIZE:			DUPLICATE:	Y	D
		ONTAINER CATION	*	]		PLE PRESER	VATION			INTENDED		AMPUNO.
SAMPLE II CODE	1 44	MATERI	VOLUME	PRESER\ USE		TOTAL VO		FINAL pH	-	ANALYSIS AND/ METHOD		AMPLING QUIPMENT CODE
SEE	(1)	MP17	OF	. دري	STOP	M F	OR "	7/29	108			
								<i>F</i> (				
			_									
			-					-				7.000
REMARKS:				ļ <u></u>								·
<b></b>	(	ORP.	<u> </u>	86		/	Fe	2+	`=	2.6	mole	
MATERIAL		AG = Amber C		Clear Glass;		lyethylene;	PP = Pc	lypropylen	e; <b>S</b> =8	Silicone; T = Te	ilon; O = Ot	her (Specify)
SAMPLING EQUIPMEN		.PP = After Peri FPP = Reverse		B = Bail		= Bladder Put w Method (Tu		ESP = Ele	ctric Subn	nersible Pump;	PP = Perista	

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SE

2. Stabilization Criteria For range of Variation of Last three consecutive readings (see FS 2212, section 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

### DEP-SOP-001/01 FS 2200 Groundwater Sampling

## Form FD 9000-24

### **GROUNDWATER SAMPLING LOG**

	ACILITY AME:	Saras	ota (	200 nz	4 605	woc	FACILITY LOCATION:	S	arasot	a Cour	Hy La	andfill
M	ONITORIN	G_SITE_NUM	_		WACS_I		١				1/28/	٥۶
						PUR	GING DA	TΑ				
D	/ELL IAMETER ( 'ELL VOLU	inches): 2	TUBING DIAMETER (i 1 WELL VOLU	nches): \/ \	WELL SC DEPTH: '	REEN INTE <b>2</b> Ofeet to PTH - STA	RVAL る feet ATIC DEPTH	STATIC TO WATER	DEPTH ER (feet): 11,67 R) X WELL CAR	PURGE PUMP T OR BAILER: Y	oristo	11tic
٥	nly fill out i	applicable)	RGE: 1 EQUIP	= ( 2	25	feet - \	1.67	fee	t) X O 1		= 2,\	3 gallons
(0	nly fill out i	fapplicable)				•	,0026 gall			feet) + O , Z		o, 2∃gailons
1	IITIAL PUM EPTH IN M	IP OR TUBING /ELL (feet):	13	FINAL PUM DEPTH IN V	OR TUBING	24.	- PURGIN	NG ED AT:	313 PURGIN	IG AT: 1420	TOTAL VOLUM PURGED (gallo	iE ns): 4.0
	TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/o m or µS/cm)	DISSOLVED	TURBIDITY r (NTUs)	COLOR (describe)	ODOR (describe)
1	350	2.8	2.8	6.07	24,72	7,26		· <del>{</del>	_ · · -	12,7	clear	None
ᅪᆣ	407	0.4	3,2	0.07	24,80	·	26.50		1041	509	+ - V	
			well	wer	U TI	4	Twi	le_				,
			YUT	bidi	ty g	04	belo	۱ س	IO NT	V For	the	2
			110/4	ms	27013	<u> </u>	ampl	e				
								\ ~ . ·				
								- A				
			Per Foot): 0.7 ACITY (Gal./Ft.)		1" = 0.04; 006; 3/16"	1.25" = 0.0 = 0.0014;	6; 2" = 0.1 1/4" = 0.002					' = 5.88 ' = 0.016
[ Q/	MDI ED 8	Y (PRINT) / AF	EN IATION:		MPLER(S) S		LING DA	ATA				
16		Bayn		42	1850	wy	06		SAMPLING INITIATED AT	1420	SAMPLING ENDED AT:	1435
1 ' '	EPTH IN W		24.5	FL	MPLE PUMP OW RATE (m	nL per minut	<del>-/-</del>	4) \w	TUBING MATERIAL CO	DDE: PP		
F	ELD DECC	NTAMINATION SAMPLE C			ELD-FILTERE tration Equipm		FILT	ER SIZE:	μ <b>m</b>	DUPLICATE:	Y (1)	<b>)</b>
S	AMPLE ID	SPECIFI # CONTAIN	CATION MATERI E AL	VOLUME	PRESER'USE	VATIVE	IPLE PRESEI TOTAL VO DDED IN FIEL	DL DL	FINAL pH	INTENDED ANALYSIS AND METHOD	OR EQ	MPLING UIPMENT CODE
-		RS	CODE	-				()	P			
5	EE	CH	MIN	OF	CV	072	07	FOR	7/28/08	)		, ,
RE	MARKS:	OP	(P =	+125	5	<u> </u>	-	Fe	2 27	= 0.0	)5 mg	ole
-	ATERIAL C		AG = Amber G		Clear Glass		olyethylene;			Silicone; T = Te	flon; O = Oth	er (Specify)
EC	MPLING/F QUIPMENT	CODES: R	PP = After Peri FPP = Reverse	staltic Pump; Flow Perista	B = Bai Itic Pump;		P = Bladder Pi aw Method (T	ımp; ubing Grav	ESP = Electric Sub ity Drain); VT	mersible Pump; = Vacuum Trap;	PP = Peristal O = Other (	

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

### DEP-SOP-001/01 FS 2200 Groundwater Sampling

### Form FD 9000-24

### **GROUNDWATER SAMPLING LOG**

NAME:	Saras	ota C	C+1.00.	CCS		FACILITY LOCATION:	S	arasot	a Coon	ty La	int-bank	
MONITOR	ING_SITE_NUM	Dou	1-2	WACS_\	NELL:	<del>-</del>	-	-	DATE: 7		<u>ා</u> දි	1
				· · · · · · · · · · · · · · · · · · ·	PURC	SING DA	\TA			170	<u></u>	J
WELL DIAMETER	(inches): 2	TUBING DIAMETER (		WELL SO DEPTH: 2	REEN INTER	RVAL 25 feet	STATIC D TO WATE	EPTH R (feet): 10 .Cl	PURGE PUMP T OR BAILER:	er isto	altic	
only fill out	if applicable)		= (	25	feet - 1	0.61	feet)	X WELL CAN	6 gallons/foot	= 2,3	O gallons	
(only fill out	NT VOLUME PU tif applicable)	RGE: 1 EQUIF	MENT VOL.;=			ing capac 6026 <sub>gail</sub>	ITY X	TUBING LENG	FEET) + FLOW CEL	L VOLUME	O, Z 3gailons	
	MP OR TUBING WELL (feet):	16,5	FINAL PUMP DEPTH IN W		16.5	PURGIN	NG ED AT: 13	20 PURGIN	IG AT: 1510	TOTAL VOLUM		
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP.	COND. (µmhos/c m or µS/cm)	DISSOLVED OXYGEN (circle mg/L o % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	
1342	2.0	2.0	୍ରଣ	15,28	6,94	26.26	1682	4,04	13,2	clear	elene	ne
1402	2.0	4.0	1	15.30	6,92	1		4,53				
1422	2.0	6.0	0.10	14.78	6.81	26.17	1683	0.93	Z,9)		<del>                                     </del>	
1452	2.0	8.0 8.0	0,10	14.59	-	26.17 26.15	1671	0.55				
1502	,	10,0	0,10	14.55	6.73		1652	0.41	2,59	1 1/		İ
, , , , ,	<u> </u>	7070		17123	<u></u>	26.11	1000	0,0,	2131	<u> </u>		
			*									
WELLCAR	ACITY (Gallons	Per Footh: 0.7	5º - 0.03:	1" = 0.04:	1.25" = 0.06	5: <b>2"</b> = 0.1	0. 0. 0	4" 0.05				
TUBING IN	SIDE DIA. CAPA	ACITY (Gal./Ft.	): 1/8" = 0.00 <sup>1</sup>	06; 3/16"	= 0.0014;	1/4" = 0.002	.6; <b>5/16</b> "	37; 4" = 0.65; = 0.004; 3/8"			" = 5.88 " = 0.016	
SAMPLED E	BY (PRINT) / AF	FILIATION:	102	MPI ER(S) &	SAMP IGNATURES	LING DA	ATA	<u> </u>				i
	Bayra	- IPBS	43	1152	ru	Q/a	}	SAMPLING INITIATED AT:		SAMPLING ENDED AT:	1515	
DEPTH IN V		1605	FLC		L per minute	): pal2	5 m/m	TUBING MATERIAL CO	DDE: PP			
FIELD DEC	ONTAMINATION			LD-FILTERE ation Equipm		FILT	ER SIZE:	μm	DUPLICATE:	Y (Ñ	D	
	SPECIFI	ONTAINER CATION			SAMI	PLE PRESEF	RVATION		INTENDED	SA	AMPLING	
SAMPLE II CODE	CONTAIN RS	MATERI E AL CODE	VOLUME	PRESER\ USE		TOTAL VO	)L D (mL)	FINAL pH	ANALYSIS AND METHOD	OR EQ	UIPMENT CODE	
SEE	CHA	0 01	(+ cu s	5 TO D	, 4	FOR		129/08				
			-									
								1	· · · · · · · · · · · · · · · · · · ·			
REMARKS:	OR	P =		98		1 5	-e, 2	4 =	2.4			
MATERIAL	CODES:	AG = Amber G	ilass; CG =	Clear Glass;	PE = Po	lyethylene;	PP = Polyr	propylene; S =	Silicone; T = Te	flon; O = Oti	her (Specify)	
SAMPLING/ EQUIPMEN		PP = After Peri FPP = Reverse		B = Bail ic Pump;		= Bladder Pu w Method (Tu		SP = Electric Sub Drain); VT	mersible Pump; = Vacuum Trap;	PP = Perista O = Other (	Iltic Pump	

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

<sup>2.</sup> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

SITE NAME:						SITE LOCATION:		. *			
WELL NO:	DGW-	ろ		SAMPLE	ID:				DATE: 7/3	0/08	
1					PURC	SING DA		•		l	
WELL DIAMETER	(inches):	TUBING DIAMETER (i	nches):	ì	REEN INTER			PTH <b>19.25</b> R (feet):	PURGE PUMP ' OR BAILER:	VI.	2
WELL VOL only fill out	UME PURGE: if applicable)	1 WELL VOLU	ME = (TOTA = ( • <b>2</b>	AL WELL DEP <b>A-BO</b>	TH - STA feet - 19	TIC DEPTH T	O WATER) feet)	X Dillo	OR BAILER: ACITY 4 0.01 gallons/foo	( <i>" ונילאו</i> ו	のち j.g gallon
	T VOLUME PU if applicable)	IRGE: 1 EQUIF	MENT VOL.	= PUMP VOL	UME + (TUE allons + (		TY X		TH) + FLOW CE	L VOLUME · gallons =	gallor
INITIAL PUI DEPTH IN V	MP OR TUBINO	3	FINAL PUM DEPTH IN V	P OR TUBING	3	PURGIN		PURGIN		TOTAL VOLUM	
TIME .	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gailons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	ρΗ (standard 'units)	TEMP.	COND.· (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/Dor % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe
1432	0	0	0,00	13.25		STANTE	D				
1453	1.90	1.90	0.09	17.00	7.03	27.23	840	0.53	61.4	OPLQUE	NONE
1458	0:45	235	0,09	17.09	6.95	27.25	924	0,39	40.3	· re	1 1
1503	0.45	2.80	0.09	17.28	7.04	27.30	815	0.36	27.3	CL STATE	4
1508	0.45	3.25	0.09	17,38	7.08	21.09	613	0.34	30.7	н	Lj
		1						•			
		<del></del>									
	*										
TUBING IN:	ACITY (Gallons SIDE DIA, CAP BY (PRINT) / A	 S Per Foot): 0.7 ACITY (Gal./Ft. FFILIATION:	): 1/8" = 0.0	1" = 0.04; 006; 3/16" AMPLER(S) S	SAMP	1/4" = 0.002 LING DA	6; 5/16"		= 0.006; 1/2"		" = 5.88 " = 0.016
PUMP OR T		~ · · · · · · · · · · · · · · · · · · ·		AMPLE PUMP OW RATE (m		٠.		TUBING MATERIAL CO	ne.	J	
	ONTAMINATIO	N: Y N	FI	ELD-FILTERE	D: Y 1		ER SIZE:	μm	DUPLICATE:	Y . N	
		CONTAINER		Itration Equipr		PLE PRESER	RVATION		INTENDED		AMPLING
SAMPLE ID		FICATION MATERIAL RS CODE	VOLUME	PRESER'	VATIVE AD	TOTAL VC	D (mL)	FINAL - pH	ANALYSIS AND METHOD	D/OR EC	CODE
TOC									•	·	
TD5						·			•		
AMMON	À					•	`.				
AUAUN	77			<u> </u>			,				
METAL	5					<u> </u>	5				····
AGC-B-	1556				•						
METAL						FIGFE	E0	<u>-119</u>			
DEMARKS.								- ()			•
REMARKS:	7.0					•		<b>-</b> 3			
PERECE - MATERIAL	CODES:	AG = Amber	Glass; CG	= Clear Glass	; PE = P	olyethyle <b>ze</b> ;	PP = Poly	propylene; S =	Silicone; T = T	eflon; O = O	ther (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

<sup>2.</sup> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

U:\SO\O\dG\HAZARD\FORMS\FDEP GW Sampling Form 2-1-04.doc

SITE NAME:						SITE LOCATION:		•	, , , , , , , , , , , , , , , , , , ,	<del></del> -	_
WELL NO:	DEWI-	4		SAMPLE	iD:				DATE: 7/3	30/08	
						GING DA	TA	14.40			
WELL DIAMETER	(inches):	TUBING DIAMETER (	inches):	WELL SCI	REEN INTE	RVAL • . feet	STATIC D		PURGE PUMP T OR BAILER:	TYPE	
WELL VOL	UME PURGE:	1 WELL VOLU	JME = (TOTA	L WELL DEP	TH - STA	TIC DEPTH T	O.WATER)	X WELL CAPA		+ 0.00Z6=	Û
•	if applicable)			1.70	feet - M	14 app.	: . $4\mathcal{O}_{feet)}$	× 0,16	gallons/foot	= 1.65	
	IT VOLUME PU	JRGE: 1 EQUI	PMENT VOL.	PUMP VOL	UME + (TUE	BING CAPACI	TY X	TUBING LENGT	H) + FLOW CEL	L VOLUME	
(Orny \$111 OBE	паррисавку			≖ ga	allons + (	gallo	ns/foot X	fe	et) +	gallons =	
	MP OR TUBINO	3		OR TUBING	3	PURGIN INITIATE		PURGING ENDED A		TOTAL VOLUM PURGED (gallo	
DEPTH IN \	NELL (reet):	CUMUL.	DEPTH IN W	DEPTH	ati	INTERNATION OF THE PARTY OF THE	COND.	DISSOLVED	<del>'</del>	1	F
TIME	VOLUME PURGED ·	VOLUME PURGED	PURGE RATE	TO WATER	pH (standard	TEMP. (°C)	(µmhos/cm	OXYGEN (circle mg/L or	TURBIDITY (NTUs)	COLOR (describe)	
•	(gallons)	(gallons)	(gpm)	(feet)	units)	( -7,	or μS/cm)	% saturation)	ļ.,,		Ļ
941			DE COL	1440	- 2-	STALTE	2	500	» »		L
1007	1.70	1.7	10.043	19.19	7.22	29.16	15/52	1.86	1514	OPDOVE	-
1012	0.37	207	0.073	19.50	1.24	21.80	1941	1.36	21.8	1 11	-
1017	0.37	2.44	0.073	19.94	7.19	27.99	1593	1.65	132	7	Ļ
1022	0.37	281	0.073	20,29	7.17	27.82	1608	1.34	13,2	CEAR	Ł
			0.073	20.44	7.16	27.79	1614	1.54	20%	<u> </u>	Ļ
						<u> -</u>		<u> </u>	_		Ļ
								•			Ļ
								<u> </u>	Ĭ		L
	10001001			45.004	4 052 - 0 0	0: 28 - 0.4	21 - 0	.37; 4" = 0.65;	5" = 1.02; 6	5" = 1.47; 12	Ļ
WELL CAP TUBING IN	SIDE DIA, CAF	s Per Foot): 0. PACITY (Gal./Ft		1" = 0.04; 006; 3/16"		1/4" = 0.002	6; •5/16"			= 0.010; 5/8	
CAMPIED	BY (PRINT) / A	CEILIATION:	1.64	MPLER(S) S		LING DA	ATA	1		1	_
SAMPLED.	•	FFILIATION:	34	wirlek(3) 5	MENATURE	<b>.</b>		SAMPLING INITIATED AT:		SAMPLING ENDED AT:	
			SA	MPLE PUMP	<del></del>			TUBING			_
PUMP OR	PUMP OR TUBING DEPTH IN WELL (feet):							I			
DEPTH IN				OW RATE (m	nL per minut		ER SIZE:	MATERIAL COL		· · · · · · · · · · · · · · · · · · ·	
DEPTH IN	ONTAMINATIO	,	FIE	OW RATE (m ELD-FILTERE tration Equipm	nL per minut ED: Y		ER SIZE:	r.m	DUPLICATE:	Ý N	
DEPTH IN \ FIELD DEC	ONTAMINATIO SAMPLE (	CONTAINER FICATION	FIE	LD-FILTERE tration Equipn	nL per minute ED: Y ment Type: SAM	N FILT IPLE PRESER	RVATION	<u>μ</u> m		S/	AN U
DEPTH IN	ONTAMINATIO SAMPLE (	CONTAINER FICATION MATERIA	FIE	LD-FILTERE tration Equipm	nL per minute ED: Y ment Type: SAN	N FILT	RVATION .	μm	DUPLICATE:	S/	-N
FIELD DEC	SAMPLE ( SPECII  CONTAINE	CONTAINER FICATION MATERIA	FIL	LD-FILTERE tration Equipn PRESER	nL per minute ED: Y ment Type: SAN	N FILT  IPLE PRESEF  TOTAL VO	RVATION .	μm FINAL-	DUPLICATE: INTENDED ANALYSIS AND	S/	 4/\ U
FIELD DEC  SAMPLE IE  CODE	SAMPLE ( SPECII ) # CONTAINE	CONTAINER FICATION MATERIA	FIL	LD-FILTERE tration Equipn PRESER' USE	nt per minute D: Y ment Type: SAN VATIVE ED A	N FILT  IPLE PRESEF  TOTAL VO  DOED IN FIEL	RVATION .	μm FINAL-	DUPLICATE: INTENDED ANALYSIS AND	S/	 4/\ U
SAMPLE ID CODE	SAMPLE ( SPECII ) # CONTAINE	CONTAINER FICATION MATERIA	FIL	LD-FILTERE tration Equipn PRESER	nt per minute D: Y ment Type: SAN VATIVE ED A	N FILT  IPLE PRESEF  TOTAL VO  DOED IN FIEL	RVATION .	μm FINAL-	DUPLICATE: INTENDED ANALYSIS AND	S/	 4/\ U
SAMPLE IC CODE  TOC	ONTAMINATIO SAMPLE ( SPECII ) # CONTAINE	CONTAINER FICATION MATERIA	FIL	LD-FILTERE tration Equipn PRESER' USE	nt per minut ED: Y ment Type: SAN VATIVE ED AI	N FILT  IPLE PRESEF  TOTAL VO  DOED IN FIEL	RVATION .	μm FINAL- pH	DUPLICATE: INTENDED ANALYSIS AND	S/	 4/\ U
SAMPLE IE CODE  TO COMMON ON TOS	ONTAMINATIO SAMPLE ( SPECII D # CONTAINE	CONTAINER FICATION MATERIA	FIL	ELD-FILTERE tration Equipm  PRESER' USE	nt per minut ED: Y ment Type: SAN VATIVE ED AI	N FILT  IPLE PRESEF  TOTAL VO  DOED IN FIEL	RVATION .	μm FINAL- pH	DUPLICATE: INTENDED ANALYSIS AND	D/OR EO	۸۸ ال
SAMPLE IC CODE  TO CAMPAN AND TO SAMPLE IC CODE  TO CAMPAN AND TO SAMPLE IC CODE  APPAN AND TO SAMPLE IC CODE  TO SAMPLE IC CODE  APPAN AND TO SAMPLE IC CODE  METAL SAMPLE IC CODE  NUMBER CONTROL OF TO SAMPLE IC CODE  NUMBER CONTROL OF TO SAMPLE IC CODE  NUMBER CONTROL OF TO SAMPLE IC CODE  NUMBER CONTROL OF TO SAMPLE IC CODE  NUMBER CODE  N	ONTAMINATIO SAMPLE ( SPECIII CONTAINE	CONTAINER FICATION MATERIA	FIL	ELD-FILTERE tration Equipm  PRESER' USE	nt per minut ED: Y ment Type: SAN VATIVE ED AI	N FILT	RVATION DL (mL)	μm FINAL- pH	DUPLICATE: INTENDED ANALYSIS AND	D/OR EO	۸۸ ال
SAMPLE IE CODE  TOCOMON ON TOS  NETALS NETALS	ONTAMINATION SAMPLE (SPECIAL CONTAINE C	CONTAINER FICATION MATERIA	FIL	ELD-FILTERE tration Equipm  PRESER' USE	nt per minut ED: Y ment Type: SAN VATIVE ED AI	N FILT  IPLE PRESEF  TOTAL VO  DOED IN FIEL	RVATION DL (mL)	μm FINAL- pH	DUPLICATE: INTENDED ANALYSIS AND	D/OR EO	AN U
SAMPLE IC CODE  TO CAMPAN AND TO SAMPLE IC CODE  TO CAMPAN AND TO SAMPLE IC CODE  APPAN AND TO SAMPLE IC CODE  TO SAMPLE IC CODE  APPAN AND TO SAMPLE IC CODE  METAL SAMPLE IC CODE  NUMBER CONTROL OF TO SAMPLE IC CODE  NUMBER CONTROL OF TO SAMPLE IC CODE  NUMBER CONTROL OF TO SAMPLE IC CODE  NUMBER CONTROL OF TO SAMPLE IC CODE  NUMBER CODE  N	ONTAMINATION SAMPLE (SPECIAL CONTAINS OF C	CONTAINER FICATION MATERIA	FIL	ELD-FILTERE tration Equipm  PRESER' USE	nt per minut ED: Y ment Type: SAN VATIVE ED AI	N FILT	RVATION DL (mL)	μm FINAL- pH	DUPLICATE: INTENDED ANALYSIS AND	D/OR EO	AN U
SAMPLE IC CODE  TOC  METALS  NAUNT  SSC-B-40  METALS	ONTAMINATION SAMPLE (SPECIAL CONTAINS (CONTAINS  CONTAINER FICATION MATERIA	VOLUME	ELD-FILTERE tration Equipm  PRESER' USE	nt per minut ED: Y ment Type: SAN VATIVE ED AI	N FILT	RVATION DL (mL)	рн FINAL- рн 93.25	DUPLICATE: INTENDED ANALYSIS AND	O/OR EO	4M 0U C	

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

<sup>2.</sup> Stabilization Criteria For Range of Variation of Last three consecutive Readings (SEE FS 2212, Section 3)

"pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2 optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

SITE NAME:	SALASO	TA CV	74 C	SWAC	2	SITE LOCATION:		4			
WELL NO		LAMS	TEM	△ SAMPLE		emp	Well	H 1_	DATE:	laka	
	184 =	#=1				SING DA					
WELL	R (inches):2	TUBING DIAMETER (	-25	WELL SO	REEN INTE	RVAL feet	STATIC I	DEPTH ER (feet): 6.8	PURGE PUMP T OR BAILER:	YPE A	
WELL VO	LUME PURGE:			AL WELL DE	TH - STA	TIC DEPTH	TO WATER	) X WELL CA	lea e e		
	it if applicable)		= ( <	7.5	feet – 🟒	28	feet		gallons/foot		gallons
	NT VOLUME PU it if applicable)	IRGE: 1 EQUII	PMENT VOL		•			TUBING LENG	GTH) + FLOW CEL		
					allons + (		ons/foot X		feet) +	gallons =	√ gallons
	JMP OR TUBING WELL (feet):	.9		IP OR TUBING NELL (feet):	9	PURGIN INITIAT		PURGIN ENDED	AT:/S/S	TOTAL VOLUM PURGED (gallo	ns): 5 G
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L o % saturation)	'TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1905	12.8	9	0.54	1170	6.88	22.7	1950	1.71	21.9	MENTE,	west
1510	12.9	21	1	N	10	22.9	1258	1.35	19.2	"	4
1515	13.	9.2	*	**	689	22,9	1959	188	19.54	. "	4
			1		يوه وس	مدد	/ 2	1 1			
					F-0 75		200	Mark			
				1			16,2				
								-			
-											
<u></u>			·								
WELL CAP	PACITY (Gailons ISIDE DIA, CAP	Per Foot): 0.7	75" = 0.02; ): 1/8" = 0.0	1" = 0.04; 006; 3/16"	1.25" = 0.06 = 0.0014;	6; 2" = 0.1 1/4" = 0.002					" = 5.88 " = 0.016
					SAMP	LING DA	•		,		
	BY (PRINT) / AF	1		AMPLER(S) S	IGNATURES	[/d		SAMPLING INITIATED AT	15/5	SAMPLING ENDED AT:	ノぐつハ
PUMP OR	TUBING	9	· S/	AMPLE PUMP		100	3	TUBING	<u>مر ۸</u>	,	<u> </u>
	WELL (feet): CONTAMINATIO	N: Y 2873	FI	OW RATE (n ELD-FILTERE	D; Y 🔨	<u> </u>	ER SIZE: _	MATERIAL CO	DUPLICATE:	Y Ñ	<u> </u>
	SAMPLE C	ONTAINER	Į Fi	Itration Equipm	• • • • • • • • • • • • • • • • • • • •	PLE PRESER	RVATION		INTENDED		AMPLING
SAMPLE II	D #	ICATION MATERIAL	VOLUME	PRESER	VATIVE	TOTAL VO	)L	FINAL	ANALYSIS AND	OR EQ	UIPMENT CODE
CODE	CONTAINE	RS CODE		USE	D AD	DED IN FIEL	.D (mL)	Hq			
		50	// - 5	1 3	15	ASSI	For B	1 601	<del></del>		
		IN	772 -	- 5An	A 1		1515	,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
											a
REMARKS	<u> </u>		1								·····
	f- M.	HEVRA	W	1/2/4	TV	BIBIA	11/200	_			•
MATERIAL	CODES:	AG = Amber (	Glass; CG	= Clear Glass;		lyethylene;			Silicone; <b>T</b> = Te	flon; O = Oth	ner (Specify)
SAMPLING EQUIPMEN		APP = After Per FPP = Reverse				= Bladder Pu w Method (To		SP = Electric Sub y Drain); VT	omersible Pump; = Vacuum Trap;	PP = Perista O = Other (	

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

<sup>2.</sup> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

SITE NAME:	540130	TH COU	0714	1 5 ls		SITE LOCATION:					****
WELL NO:		A TE	Sup.	SAMPLE		eno	Well	1 上 2-	DATE:	22 4/2	1/1
	While	#2	71 <u>7</u>		DUD	SING DA		· + ~			<i></i>
WELL	R (inches)2"	TUBING DIAMETER (	inches): 25	WELL SO	REEN INTE	RVAL.	STATIC D	EPTH R (feet) 6,2	PURGE PUMP OR BAILER:	TYPE 🚕	
WELL VOI	LUME PURGE:			L WELL DE	TH - STA	TIC DEPTH	TO WATER)	X WELL CA		15	- 1111111111111111111111111111111111111
	t if applicable)		= (	7,5		5.2	feet)	x .2	gailons/foo	ot =,5	gallons
	NT VOLUME PU t if applicable)	JRGE: 1 EQUII	PMENT VOL.	= PUMP VOI	LUME + (TUE	SING CAPAC	тү х	TUBING LEN	GTH) + FLOW CE	LL VOLUME	. /
				= g	allons + (	gall	ons/foot X		feet) +	gallons =	galions
1	JMP OR TUBING WELL (feet):	3 -7.	FINAL PUM DEPTH IN V	P OR TUBIN( VELL (feet):		PURGIN INITIATI	IG ED AT:/ <i>5[</i>	PURGII	NG PAT:/#30	TOTAL VOLUM PURGED (gail	
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE · (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP.	COND. (µmhos/cm or µS/cm)	DISSOLVEI OXYGEN (circle mg/L % saturation	TURBIDITY OF (NTUs)		ODOR (describe)
1620	12.0	4.8	4/130		550	2271	243	1.69	161	CAM	NAVE
1625	12.1	4.9	/e		5.49	22.76	244	1.71	158	10	11
1630	12.2	5.0	77		5.50	22:18	244	1.74	156-1	<u> </u>	/1
						<i>**</i> ** ** **			<u> </u>	1	
						CY P	5	<u> </u>	1.		
						FCA		1.0 M	7/2		
							l	/			
											·
	I PACITY (Gallons			1" = 0.04;	<b>1.25"</b> = 0.06						" = 5.88
TUBING IN	ISIDE DIA, CAP	ACITY (Gal./Ft.	): 1/8" = 0.0	006; 3/16"	= 0.0014; SAMP	1/4" = 0.002 LING DA		= 0.004; 3/8	" = 0.006; 1/2"	= 0.010; 5/8	" = 0.016
SAMPLED	BY (PRINT) / AI	FILIATION:	SA	MPLER(S) S			,	SAMPLING		SAMPLING	
PUMP OR	135 M	ns/PB	<u> </u>	16	m l	held.		INITIATED AT	£30	ENDED AT:	<u>635</u>
	WELL (feet):	67	FL	MPLE PUMP OW RATE (m	L per minute			TUBING MATERIAL C	ODE:	0/2	
FIELD DEC	OITAMINATIO		Fil	LD-FILTERE ration Equipn	D: Y ment Type:	FILT	ER SIZE: _	<u></u> μm	DUPLICATE:	Y	<b>&gt;</b>
	SPECIF	CONTAINER ICATION				PLE PRESER			INTENDED		AMPLING UIPMENT
SAMPLE ID CODE	CONTAINE	MATERIAL CODE	VOLUME	PRESER' USE		TOTAL VO DED IN FIEL		FINAL pH	- METHOD	//OK   EQ	CODE
		Sc./	<u>4 · 2</u>	' <i>B</i>	15	AS2	Fe 1	34 G	010		
		WA	+V -	52	2019	MARC	<u>'4515</u>	, 			
-				-							
			<del> </del>								
REMARKS:	<u> </u>	<u> </u>	<u>l</u>								
-	* MK	LS/AZ/	m//	HALL	- 45	1.0	5%	MILTR	۷.		•
MATERIAL		AG = Amber (		Clear Glass		lyethylene;	PP = Poly	propylene; S	= Silicone; T = To	eflon; <b>O</b> = Oti	her (Specify)
SAMPLING EQUIPMEN		APP = After Peri RFPP = Reverse		B = Bai Itic Pump;		= Bladder Pu w Method (Ti			bmersible Pump; F = Vacuum Trap;	PP = Perista O = Other	

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

<sup>2.</sup> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

## all depths below top of casing

## Form FD 9000-24 GROUNDWATER SAMPLING LOG

of casing (BTOC) Landfill

SITE	SITE Sarasota County CCSWDC LOCATION: Sarasota County Landfill														
WELL NO		-9		SAMPLE :				.0							
	<u> </u>	,(		SAIVIFLE		<u> </u>			DATE: 4	116	109				
WELL		TUBI	NG	) / WELL		GING DA	STATIC	DEDTU .	9110	GE PUMP T	VDE				
		Z DIAM	ETER (inches)	):	H: 1/2 fe	et to 2-0 f	PAT TO MAT	ER (foot)	72 000	BAILER: P	ristaltic				
				TAL WELL DEPT				WELL CAPAC	11 Y						
EQUIPME	NT VOLUME F	URGE: 1 EC	UIPMENT VO	26 fi	eet –	BING CAPACI	feet) X	UBING LENGTH	gallons/foo	t = [+	32 gallons				
(only fill ou	ıt if applicable)			_			ons/foot X		+ 0.1		_0.14 gallons				
	JMP OR TUBIN	IG 14		MP OR TUBING	14	DURCIN	-	DUDOWIO	1	TOTAL VO	LIBAT				
DEPTHIN	WELL (feet):	<del></del>		N WELL (feet):	14	INITIATE		ENDED AT:	11.02	PURGED (	gallons): 4,6				
TIME	VOLUME PURGED	CUMUL. VOLUME	PURGE	1	pH (standard	TEMP.	COND. (circle units)	OXYGEN (circle units)	TURBIDITY	COLO	R ODOR				
	(gallons) (gallons) (gpm) (feet) units) (C) µmnos/cm mg/L or (NTUs) (describe) (describe)														
10:36	10:36 2 2 0.125 12.87 6.28 22.54 1911 2.36 65.3 Lt. Bro None														
10:46	, \	3	0.1		6.33	22.45	1911	2.01	37.8		1-5145				
	10:50 0.4 3.4 0.1 12.81 6.25 22.38 1910 1.32 27.1														
	0:53 0.3 3.7 0.1 12.89 6.2 22.41 1909 1.22 25.9 V														
	0:56 0.3 4.0 0.1 12.85 6.2 22.52 1904 1.14 11.8 Clear														
	0:59 0.3 4.3 0.1 12.87 6.24 22.62 1906 1.01 9.06														
11:02	0.3	4.6	0.1	12.84	6.24	22.55	1904	0.99	9.16						
		-													
										<del>-</del>					
	<del> </del>	<u> </u>													
WELL CAP	ACITY (Gallon	s Per Foot):	0.75" = 0.02;	1" = 0.04; 1	. <b>25</b> " = 0.06			4" = 0.65; 5	5" = 1.02; 6	" = 1.47;	12" = 5.88				
	ISIDE DIA. CAI EQUIPMENT C		/I-t.): 1/8'' = 0 3 = Bailer;	.0006; 3/16" = BP = Bladder Pur	***************************************	1/4" = 0.0026	5; 5/16" = 0. Submersible Pur				5/8" = 0.016				
			******			LING DA		mp, rr=re	ristaltic Pump;	0=01	her (Specify)				
SAMPLED	BY (PRINT) / A	FFILIATION:	~ i ~	SAMPLER(8) SI			1	SAMPLING	1111	SAMPLIN	3 ,				
PUMP OR	d Bazz	<u>e 178</u>	247	TUBING	an	· 6/ K	<i>ov</i> ~	SAMPLING INITIATED AT	: 11.02						
	WELL (feet):	14		MATERIAL COD	E:	PP	Filtratio	-FILTERED: (3) on Equipment Typ	N ie:	FILTER SI	ZE: <u>1</u> μm				
	ONTAMINATIO			<u> </u>	TUBING	Y (N)rep	placed)	DUPLICATE:	Y	$\bigcirc$					
SAMPLE	LE CONTAINE	R SPECIFIC				ESERVATION		INTENDE ANALYSIS AN		MPLING JIPMENT	SAMPLE PUMP FLOW RATE				
ID CODE	CONTAINERS	CODE	VOLUME	PRESERVATIVE USED		OTAL VOL D IN FIELD (m	FINAL iL) pH	METHOD		CODE	(mL per minute)				
6W-9		PE	250 ml	N.tric				As +		PP	100				
				Sulfuric	<u> </u>			Ammor	iia f	166	100				
	- { - 1		500 ml	None	-	<u></u>		705	1.	486	100				
<u> </u>	<u> </u>	PE	25001	Nitric	-					APP	100				
					-			※った	Hered						
REMARKS:	<u>.                                      </u>				<u> </u>	ī									
		OR	<u> </u>	9 :	3.4	/	Fe	27 = 3	3.0	$myl_{Q}$					
MATERIAL		AG = Amber	Glass; CG =	= Clear Glass;	PE = Polye	thylene; F	PP = Polypropyle	ene; S = Silicon	ne; T = Teflo		her (Specify)				
SAMPLING	EQUIPMENT		APP = After Pe RFPP = Revers	ristaltic Pump; se Flow Peristaltic	B = Baile		Bladder Pump; Method (Tubing	ESP = Electric		Pump;					
OTES: 1.	The above o	not cone	titute all of	he information	ramp,	by Chanta	# 62 160 E A	Gravity Drain);	O = Other (S	эреспу)					

1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

all depths below top of casing (BTOC)

## Form FD 9000-24 GROUNDWATER SAMPLING LOG

SITE

NAME:	NAME: Sarasota County CCSWDC LOCATION: Sarasota County Landfill													
WELL NO:	ı	<u>6</u>	<u>w - 1</u>	2	SAMPLE I	D:	<u>6 w</u>	-12		DATE:	1/16	109		
						PURG	SING DA	TA						
WELL DIAMETER			TUBINI DIAME	TER (inches):	1/4 DEPT	SCREEN H: 0 fe	et to 20 f	STATIC I	ER (feet): 12	. 27   ORI	GE PUMP TY	PE ristaltic		
WELL VOI (only fill ou	UME PUI	RGE: ble)	1 WELL VO	UME = (TOT	AL WELL DEPT	H – STA	TIC DEPTH T	O WATER) X	WELL CAPACI	TY	_	_		
		-	IBCE: 4 FOL	= (	20 f	eet -	2,27	feet) X	0.16	gailons/foo	t = 10	24 gallons		
(only fill our	t if applica	bie)	JNGE. TEQL	NEWLAT VOL			.0026 gallo		UBING LENGTH)	+ PLOW CE		0.14 gallons		
INITIAL PL DEPTH IN			° 15		MP OR TUBING WELL (feet):	15	PURGIN	G DAT: <b>9</b> .60	PURGING			<u>_</u>		
	VOLU	ME	CUMUL.	DUDOE	DEPTH	рΉ		COND.	DISSOLVED OXYGEN					
TIME	PURG (galior	ED	VOLUME PURGED (gallons)	PURGE RATE (gpm)	WAIER	(standard units)	TEMP. (°C)	(circle units) µmhos/cm	(circle units) mg/L_or	TURBIDIT' (NTUs)	Y COLOF (describ			
9:16	2_		2	0.125	(feet) 12.82	/ 02	22.18	or μS/cm	% saturation 2. Z	700				
9:26 1 3 0.1 12.84 6.01 22.24 1115 2.37 7.20 1														
9:30 0.4 3.4 0.1 12.87 6.01 22.26 1114 1.83 8.72 V														
9:33	9:33 0.3 3.7 0.1 12.81 6.00 22.27 11/1 1.72 9.02 L+Brn													
	9:33 0.3 3.7 0.1 12.81 6.00 22.27 11/1 1.72 9.02 L+Brn 9:36 0.3 4.0 0.1 12.86 5.99 22.22 1107 1.59 8.64													
9:39	9:36 0.3 4.0 0.1 12.86 5.99 22.22 1107 1.59 8.64 1 9:39 0.3 4.3 0.1 12.87 5.99 22.21 1106 1.57 7.52													
9:42														
				1										
				_										
		-	···-									-		
WELL CAP	ACITY (G	alions	PerFoot): 0	.75" = 0.02;	1" = 0.04; 1	.25" = 0.06	; 2" = 0.16	3" = 0.37;	4" = 0.65; 5	i" = 1,02;	6" = 1.47; ·	12" = 5.88		
PURGING IN			ACITY (Gal./F		0006; 3/16" = BP = Bladder Pui		1/4" = 0.0020	5; 5/16" = 0.4 Submersible Pur		•		/8" = 0.016		
			<u> </u>	- Dalici,			LING DA	110741111111111111111111111111111111111	пр РР=Ре	ristaltic Pump	; <u>0 = 0π</u>	ner (Specify)		
			FFILIATION:		SAMPLER(S) S				SAMPLING	91	SAMPLING			
PUMP OR		22.4	z/PBS	42	Bre	<u>~~ (/</u>	pr		INITIATED AT		ENDED AT	: 10.00		
DEPTH IN		t):	15		TUBING MATERIAL COL	DE:	99		-FILTERED: Y on Equipment Typ	e: (1)	FILTER SIZ	ZE:μm		
FIELD DEC					>	TUBING	Y Nre	placed)	DUPLICATE:	$\odot$	N			
		AINE	R SPECIFICA	TION			ESERVATION		INTENDE ANALYSIS AN		MPLING UIPMENT	SAMPLE PUMP		
SAMPLE ID CODE	# CONTAINE	RS	MATERIAL CODE	VOLUME	PRESERVATIVI USED		OTAL VOL D IN FIELD (n	FINAL 1L) pH	METHOD		CODE	FLOW RATE (mL per minute)		
6U-12	- 1		PE	250	Nitric				Fetf	1 24	991	100		
			PE		Sulfurio				Anmoi		APP	100		
<u> </u>			PE	500	None	•			TD5	5	APP	100		
				•										
REMARKS:			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	0 =	، <u> </u>	7	7		<u> </u>	11				
	ORP = -158.7 / Fe 2+ = 1.4 ms/1													
MATERIAL			AG = Amber (		Clear Glass;	PE = Polye		PP = Polypropyl		ne; T = Tefi		her (Specify)		
SAMPLING	EQUIPM	ENI (			ristaltic Pump; e Flow Peristaltic	B = Baile Pump;		Bladder Pump; Method (Tubing	ESP = Electric Gravity Drain);	Submersible O = Other (				

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH:  $\pm$  0.2 units Temperature:  $\pm$  0.2 °C Specific Conductance:  $\pm$  5% Dissolved Oxygen: all readings  $\leq$  20% saturation (see Table FS 2200-2); optionally,  $\pm$  0.2 mg/L or  $\pm$  10% (whichever is greater) Turbidity: all readings  $\leq$  20 NTU; optionally  $\pm$  5 NTU or  $\pm$  10% (whichever is greater)

all depths below top of casing (BTOC)

## Form FD 9000-24 **GROUNDWATER SAMPLING LOG**

SITE

-

SITE NAME:														
WELL NO		W-13		SAMPLE ID:		-	3			+/19	5/09			
					PURC	SING DA	TA							
		Z TUBIN DIAME	ETER (inches):	'/4   DEPTH	: 1 Ø fe	INTERVAL et to 20	STATIC eet TO WAT	ER (feet):   O.	<b>34</b> OR F	GE PUMP T	YPE 2017ic			
(only fill ou	LUME PURGE: it if applicable)	: 1 WELL VO	)LUME = (TO) = (	TAL WELL DEPTH	- STA	TIC DEPTH 1	TO WATER) X	WELL CAPAC	ITY	1				
EQUIPME (only fill or	NT VOLUME P it if applicable)	URGE: 1 EQ		= PUMP VOLUM	E + (TUB	SING CAPACI	TY X T	UBING LENGTH		L VOLUME	. 1			
INDITIAL D			T		ns + ( 🗘 • 1	00 26 galk			+ 0,		= 0.14 gallons			
	JMP OR TUBIN   WELL (feet):   T	15		MP OR TUBING WELL (feet):	13	PURGIN	ED AT: LO:	PURGING ENDED AT:	10:40	TOTAL VO PURGED (	LUME 4.4			
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)		pH tandard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLC (descri				
10:16	10:16 2 2 0.125 10.95 6.40 22.34 1555 1.5 3.87 SHYELL None													
10:24	10:26 1 3 0.1 10.88 6.38 22.34 1560 1.47 5.61 Clear													
10:30	10:30 0.4 3.4 0.1 10.90 6.37 22.35 1558 1,35 3.20													
10:33	0:33 0.3 3.7 0.1 10.83 6,36 22.38 1558 1.30 2.48													
10:36	0:36 0.3 4.0 0.1 10.87 6.35 22.42 1559 1.25 2.62													
10:39	0.3	4.3	0.1	10.88 6			1559	1.24	2.80					
											-			
							-							
TUBING IN	PACITY (Gallon ISIDE DIA. CAI	s Per Foot): PACITY (Gal./	0.75" = 0.02; Ft.):   1/8" = 0.0	1" = 0.04; 1.2 0006; 3/16" = 0.	5" = 0.06 .0014;	2" = 0.16 1/4" = 0.002				" = 1.47; = 0.010;	12" = 5.88 5/8" = 0.016			
PURGING	EQUIPMENT C	ODES: B	= Bailer; E	3P = Bladder Pump	); ES		Submersible Pu		ristaltic Pump;		ther (Specify)			
214451 55	D14 (DD1) (D1)					LING DA	TA							
Brad	BY (PRINT) / A		55+5	SAMPLER(S) SIG	NATURE Cer		Par -	SAMPLING INITIATED AT	10:40	SAMPLIN ENDED A	IG IT: 10:55			
PUMP OR DEPTH IN	TUBING WELL (feet):	13		TUBING MATERIAL CODE	P	20		-FILTERED: Y		FILTER S	IZE:μm			
	ONTAMINATIO		IP Y (N		JBING		placed)	on Equipment Type DUPLICATE:	Y	<b>®</b>				
SAMI	PLE CONTAINE	R SPECIFICA				ESERVATION		INTENDE		MPLING	SAMPLE PUMP			
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	-	OTAL VOL D IN FIELD (n	FINAL	ANALYSIS AN METHOD	ID/OR EQU	JIPMENT CODE	FLOW RATE (mL per minute)			
GW-13	1	PE	250	Nitric				Fe + 1	As F	PP	100			
		PE	500 m	Sulfuric		******		Ammo	nia	APP	100			
V		PE	500 m	None				TOS		APP	100			
											£3			
DEMASKS														
REMARKS		OR	P =	-105	. 1	/ F	-e2+	= 2.	6 mg.	/1				
MATERIAL	CODES:	AG = Amber (	Glass; CG =	Clear Glass; , P	E = Polye	ethylene; l	PP = Polypropyl	ene; S = Silicor	ne; T = Teflo	n; <b>O</b> = 0	ther (Specify)			
	EQUIPMENT (	R		e Flow Peristaltic P		SM = Straw I	Bladder Pump; Method (Tubing		Submersible O = Other (S	Pump;				
ATEQ: 1	The above of	in antenne	ituto all af ti	na information		I had Observed	- 00 400 22 4	^						

titute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH:  $\pm$  0.2 units Temperature:  $\pm$  0.2 °C Specific Conductance:  $\pm$  5% Dissolved Oxygen: all readings  $\leq$  20% saturation (see Table FS 2200-2); optionally,  $\pm$  0.2 mg/L or  $\pm$  10% (whichever is greater) Turbidity: all readings  $\leq$  20 NTU; optionally  $\pm$  5 NTU or  $\pm$  10% (whichever is greater)

all depths below top of casing (BTOC)

## Form FD 9000-24 GROUNDWATER SAMPLING LOG

NAME: Sarasota County CCSWDC LOCATION: Sarasota County Landfill														
WELL NO	<u> </u>	1-27	<i>1</i>	SAMPLE ID		5 w -			DATE: L	+ /13	5109			
					PURC	SING DA	TA							
WELL	R (inches):	TUBIN				INTERVAL	STATIC	DEPTH 11		GE PUMP T				
WELL VO	LUME PURGE	: 1 WELL VC	TER (inches):	TAL WELL DEPTH	1: <b>[ Ø</b> fe	TIC DEPTH 7	eet TO WAT	ER (feet):	17 OR E	AILER:	ristaltic			
(only fill of	ut if applicable)		= (	20 6	. 1	1.17	faat) V	4 17	gallons/foot	- 1.	41 gallons			
EQUIPME	NT VOLUME P	URGE: 1 EQ	UIPMENT VOL	= PUMP VOLUM	IE + (TUÈ	ING CAPACI	TY X T	UBING LENGTH)		L VOLUME	galloris			
(Grity till de	at ii applicable)			= 🖒 gallor	ns + ( 🍎 🗸	0056 gallo	ons/foot X	feet)	+ 0.1	galions	= O.1 4 gallons			
	UMP OR TUBIN I WELL (feet):	16 14		MP OR TUBING WELL (feet):	14	PURGIN	G DAT:    . 4	PURGING ENDED AT:	12:22	TOTAL VOI	UME 4,6			
-		CUMUL.		DEPTH			COND.	DISSOLVED		- GROCD (E	janoris). F			
TIME	TIME PURGED PURGED RATE WATER (standard (°C)													
	(galions)	(gallons)	(gpm)		units)	(-C)	μmnos/cm <u>or</u> μS/cm	mg/L or % saturation	(NTUs)	(descrit	e) (describe)			
11:56	11:56 2.0 2.0 0.125 11.87 5.56 22.76 736 2.2 35.6 Brown None													
12:06 1 3 0.1 11.96 5.52 22.76 759 2.42 27.2 L+ Bro														
12:10 0.4 3.4 0.1 11.97 5.43 22.78 753 2.17 23,4														
12:13	12:13 0.3 3.7 0.1 11.93 5.42 22.79 752 2.1 22.3													
12:16	12:13 0.3 3.7 0.1 11.93 5.42 22.79 752 2.1 22.3 2:16 0.3 4.0 0.1 11.95 5.39 22.82 749 2.02 21.2													
12:19	0.3	4.3	0.1			22.79	748							
12:22	12:19 0.3 4.3 0.1 11.94 5.39 22.79 748 1.99 20.9													
							-, , <del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>							
							-							
NATE L CAR														
TUBING IN	PACITY (Gallon ISIDE DIA, CAI	s Per Foot): ( PACITY (Gal./i	0.75" = 0.02; Ft.):   1/8" = 0.0	1" = 0.04; 1.2 0006; 3/16" = 0	.5" = 0.06	; 2" = 0.16 1/4" = 0.0026					12" = 5.88 5/8" = 0.016			
	EQUIPMENT C			BP = Bladder Pum			Submersible Pur		ristattic Pump;		her (Specify)			
DA1101 ED						ING DA	TA							
	BY (PRINT) / A			SAMPLER(S) SIG	NATURE	(S):	)	SAMPLING INITIATED AT	12:22	SAMPLING	12:35			
PUMP OR		1 400 .		TUBÍNG		10	FISIO	FILTERED:		<u> </u>				
	WELL (feet):	14	II.	MATERIAL CODE	:	<u> </u>	Filtratio	n Equipment Typ		FILTER SI	ZE: <u>1</u> μm			
FIELD DEC	ONTAMINATIO	ON: PUM	P Y (N	) τι	JBING	Y (N)re	placed)	DUPLICATE:	Υ	(S)				
	PLE CONTAINE				APLE PRI	ESERVATION	1	INTENDE		MPLING	SAMPLE PUMP			
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED		OTAL VOL D IN FIELD (m	FINAL nL) pH	ANALYSIS AN METHOD		JIPMENT CODE	FLOW RATE (mL per minute)			
5W-27	l		250 ml	Nitric	,			Fe + P	A >	99	100			
	<u> </u>	PE	500 ml	Sulfuric				Ammon		PP	100			
	1	PE	500 ml	None				TOS	4	PP	100			
<u> </u>	1	PE	250 N	Nitric				Fe + A		4PP	100			
							·····	* = +;	itered		52			
REMARKS:			ORP	= 6.0	_	7	V 21	- 1	mal					
MATERIAL	ATERIAL CORES.													
	EQUIPMENT		PP = After Per		E = Polye B = Baile		PP = Polypropyle Bladder Pump;	ene; S = Silicon ESP = Electric			her (Specify)			
OTEO 4				Flow Peristaltic P	ump;	SM = Straw N	Method (Tubing (	Gravity Drain);	O = Other (S					

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH:  $\pm$  0.2 units Temperature:  $\pm$  0.2 °C Specific Conductance:  $\pm$  5% Dissolved Oxygen: all readings  $\leq$  20% saturation (see Table FS 2200-2); optionally,  $\pm$  0.2 mg/L or  $\pm$  10% (whichever is greater) Turbidity: all readings  $\leq$  20 NTU; optionally  $\pm$  5 NTU or  $\pm$  10% (whichever is greater)

SITE NAME:	54	KST!	Cella	15.0		SITE LOCATION:				т нум.		-
WELL NO	_			SAMPL		GW.	-28			DATE: 4//	15/09	
					PUR	SING DA	ATA					
WELL DIAMETE	R (inches): 2	TUBING DIAMETER (	inchest 5	WELL S	CREEN INTE	RVAL feet	STATIC D		Has	PURGE PUMP T OR BAILER:	YPE PP	
WELL VO	LUME PURGE:				PTH - STA	TIC DEPTH	TO WATER)	x w	ELL CAPA			<del></del>
-	,,	IBCE: 4 FOLD	= ( <b>2</b> (		feet /	4.05	feet)		2	gallons/foot		gailons
	NT VOLUME PU it if applicable)	RGE: 1 EQUI	PWENT VOL.		-			IORIN		H) + FLOW CELI		, — "
INITIAL DI	JMP OR TUBING	19	FINAL PUMF	•	gallons + (	PURGIN	ons/foot X		TE PURGING	et) +	gallons =	5 gallons
	WELL (feet):	15	DEPTH IN W	ELL (feet):	15	INITIAT	ED AT:	20	ENDED AT		TOTAL VOLUM PURGED (galic	
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gailons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	OX (circle	SOLVED (YGEN e mg/L or lituration)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1145	1	1.5	113	1415	5.53	241	1-62	1-	15	410	NOVE	NORSE
1150	1.1	1.6	1/	/1	5.58	23.8	161	/.	<u> 25 </u>	410	110	17
	/, =	1.7	11		5.61	23.7	1.81	/	<u> </u>	9.047	/ / /	/1
***					<u> </u>							
<del></del>							1					
				F= 7	P = 1	1 11	1,					
				BAR	= -							
					<del>  /</del>	224						
	ACITY (Gallons			1" = 0.04; 06: 3/16	1.25" = 0.00 " = 0.0014;	2" = 0.1 1/4" = 0.002		37; 4 <sup>1</sup> = 0.004;	" = 0.65; 3/8" =			' = 5.88 ' = 0.016
			·		SAMP	LING DA		,				
SAMPLED	BY (PRINT) / AI	1.	BST SA	MPLER(S) S سند	SIGNATURES	M	1	SAMP INITIA	LING TED AT: /	2.05	SAMPLING ENDED AT:	2/0
PUMP OR DEPTH IN	TUBING WELL (feet):	15		MPLE PUMI DW RATE (r	nL per minute	130		TUBIN MATE	IG RIAL CODI	E PE		
FIELD DEC	CONTAMINATIO	N: Y (*)		LD-FILTER		FILT	ER SIZE: _	µm		UPLICATE:	Y	<del></del>
		ONTAINER ICATION	,		SAM	PLE PRESE	RVATION			INTENDED		MPLING
SAMPLE IC CODE	CONTAINE	MATERIAL RS CODE	VOLUME	PRESER		TOTAL VO		FINAL pH		NALYSIS AND/ - METHOD		UIPMENT CODE
	)	PB	STORE					-		TDS		
	ユ	PL	500th	Has	50H	,				AMMA	11	1
····	3	PR	250/	NI	246				4	<u> 2010 (</u>	FetA	2)
												;3
					AND AND AND AND AND AND AND AND AND AND							
·····												
REMARKS				-			l	•				
	3.5' 0	F 5T	ICKUP	X	MEAS	VRS. A	W	HAC	47	VLB(b)	MATE	
MATERIAL	<del></del>	AG = Amber (	<del></del>	Clear Glass	<del></del>	lyethylene;	PP = Polyp			licone; T = Tet		er (Specify)
		NPP = After Peri NPP = Reverse		B = Ba tic Pump;		= Bladder Pu w Method (Ti				ersible Pump; Vacuum Trap;	PP = Peristal O = Other (	

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

<sup>2.</sup> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

	41500A	cv	TH CC	SUSC		SITE LOCATION:				,	
WELL NO:	GW-2	9		SAMPLE	E ID:	Ğ,	w - 2	-9	DATE: 4/	15/07	
	- 0.	•			PURC	SING DA	TA				
WELL DIAMETER	(inches): 2	TUBING DIAMETER (	_Z5 inches):	DEPTH:	REEN INTE	feet	STATIC DI TO WATE	R (feet): 🎵 📯 🤆	PURGE PUMP OR BAILER:	TYPE	
anhi fill aut i	if applicable)	1 WELL VOLU	•				•	X WELL CA		1=16	gallons
EQUIPMENT (only fill out i	T VOLUME PU if applicable)	RGE: 1 EQUIF	MENT VOL.	= PUMP VOI	LUME + (TÚE	SING CAPAC	TY X	TUBING LEN	GTH) + FLOW CE	LL VOLUME	, <del></del>
				· ·	alfons + (	<del></del>	ons/foot X	1	feet) +		gallons
DEPTH IN V	AP OR TUBING VELL (feet):	15	DEPTH IN V	. ,	<u>'/5</u>	PURGIN INITIATI	IG ED AT:/ <i>44</i>	PURGIN ENDED	AT:	TOTAL VOLUM PURGED (gallo	
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L o % saturation	TURBIDITY r (NTUs)	COLOR (describe)	ODOR (describe)
1545 1.1 1.8 " " 6.33 25.46 1.055 1.50										North	
1545	/./	1.8	11	1.20	40	er	"				
1550	12	1.9	11	//	6,32	25.2	1.08	1.16	7.24	" "/	•
						7	<del>- 17 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1</del>	•	*		
								-			
			-	Fest	=0.6	10/2					
		4.4		MA	1-36.	7					
WELL CAD	ACITY (Colland	Per Foot): 0.7	(E) = 0.00	411 = 0.04;	4 25" = 0.00	32 - 0.1	6: <b>3"</b> = 0.3	37: 4" = 0.65	; 5" = 1.02;	6" = 1,47; 12'	' = 5.88
TUBING INS	SIDE DIA. CAP	ACITY (Gal./Ft.	): 1/8" = 0.02;	7" = 0.04; 006; 3/16"	' = 0.0014;	1/4" = 0.002	ອ; ວ″≃ປ. ອ: 5/16‴:			•	' = 0.016
								0.00 /, 0.0			
SAMPLED B	Y (PRINT) / AF	FILIATION:	SA	AMPLER(S)_S		LING DA				T	
SAMPLED B	Y (PRINT) / AF		SA	AMPLER(S),S				SAMPLING	্যক্ত	SAMPLING ENDED AT:	(SON)
GARA PUMP OR T	S MU		SA	AMPLE PUMP	MA MILLE	/		SAMPLING INITIATED AT TUBING	Λ.1	SAMPLING ENDED AT:	<b>%</b> 0
PUMP OR TO DEPTH IN W	S MU	15	SA FL	AMPLE PUMP OW RATE (n	IGNATURES  M. J.///  IL per minute  D. Y. A	130		SAMPLING INITIATED AT TUBING MATERIAL CO	Λ.1	SAMPLING ENDED AT:	
PUMP OR TO DEPTH IN W	MU UBING VELL (feet): DNTAMINATIO SAMPLE C	15	SA FL	AMPLE PUMP OW RATE (n	nL per minute ED: Y ment Type:	130	ER SIZE:	SAMPLING INITIATED AT TUBING MATERIAL CO	DDE: PE	Y (N	) MPLING
PUMP OR TO DEPTH IN W	MU UBING VELL (feet): DNTAMINATIO SAMPLE C	N: Y SO	SA FL FII FII	AMPLE PUMP OW RATE (n ELD-FILTERE Itration Equipr	IGNATURES  IL per minute ED: Y ment Type:  SAM	PLE PRESER	ER SIZE:	SAMPLING INITIATED AT TUBING MATERIAL CO	DDE: PL	Y (N)	Ö
PUMP OR TO DEPTH IN W FIELD DECC	JUBING VELL (feet):  ONTAMINATIO  SAMPLE C  SPECIF  CONTAINEI	N: Y SO	SA FL FII FII	AMPLE PUMF LOW RATE (n ELD-FILTERE tration Equipr PRESER USE	IGNATURES  IL per minute ED: Y ment Type:  SAM	): 130 FILT	ER SIZE:	SAMPLING INITIATED AT TUBING MATERIAL CO µm	DDE: PLA  DUPLICATE:  INTENDED  ANALYSIS AND	Y (N)	MPLING UIPMENT
PUMP OR TO DEPTH IN W FIELD DECC	UBING VELL (feet):  DNTAMINATIO  SAMPLE C SPECIF  CONTAINEI  1	N: Y OF CONTAINER ICATION MATERIAL CODE	SA FL FII FII VOLUME	AMPLE PUMF OW RATE (n ELD-FILTERE tration Equipr PRESER USE	IGNATURES  IL per minute ED: Y ment Type:  SAM	PLE PRESEF TOTAL VO	ER SIZE:	SAMPLING INITIATED AT TUBING MATERIAL CO µm FINAL pH	DDE: PLA  DUPLICATE:  INTENDED  ANALYSIS AND	Y (N)	MPLING UIPMENT
PUMP OR TO DEPTH IN W FIELD DECC	JUBING VELL (feet):  ONTAMINATIO  SAMPLE C  SPECIF  CONTAINEI	N: Y OF CONTAINER ICATION RS MATERIAL CODE	SA FL FII FII	AMPLE PUMF OW RATE (n ELD-FILTERE tration Equipr PRESER USE	IGNATURES  IL per minute ED: Y ment Type:  SAM	PLE PRESEF TOTAL VO	ER SIZE:	SAMPLING INITIATED AT TUBING MATERIAL CO µm	DDE: PLA  DUPLICATE:  INTENDED  ANALYSIS AND	Y (N)	MPLING UIPMENT
PUMP OR TO DEPTH IN W FIELD DECC	UBING VELL (feet):  DNTAMINATIO  SAMPLE C SPECIF  CONTAINEI  1	N: Y OF CONTAINER ICATION MATERIAL CODE	VOLUME SOONS SOONS	AMPLE PUMF OW RATE (n ELD-FILTERE tration Equipr PRESER USE	IGNATURES  ALL per minute  ED: Y ment Type:  SAM  VATIVE  ED AL	PLE PRESEF TOTAL VO	ER SIZE:	SAMPLING INITIATED AT TUBING MATERIAL CO µm	DDE: PLA  DUPLICATE:  INTENDED  ANALYSIS AND	Y (N)	MPLING UIPMENT
PUMP OR TO DEPTH IN W FIELD DECC	UBING VELL (feet):  DNTAMINATIO  SAMPLE C SPECIF  CONTAINEI  1	N: Y OF CONTAINER ICATION MATERIAL CODE	SA FL FII FII VOLUME	AMPLE PUMF OW RATE (n ELD-FILTERE tration Equipr PRESER USE	IGNATURES  ALL per minute  ED: Y ment Type:  SAM  VATIVE  ED AL	PLE PRESEF TOTAL VO	ER SIZE:	SAMPLING INITIATED AT TUBING MATERIAL CO µm	DDE: PLA  DUPLICATE:  INTENDED  ANALYSIS AND	Y (N)	MPLING UIPMENT CODE
PUMP OR TO DEPTH IN W FIELD DECC	UBING VELL (feet):  DNTAMINATIO  SAMPLE C SPECIF  CONTAINEI  1	N: Y OF CONTAINER ICATION MATERIAL CODE	VOLUME SOONS SOONS	AMPLE PUMF OW RATE (n ELD-FILTERE tration Equipr PRESER USE	IGNATURES  ALL per minute  ED: Y ment Type:  SAM  VATIVE  ED AL	PLE PRESEF TOTAL VO	ER SIZE:	SAMPLING INITIATED AT TUBING MATERIAL CO µm	DDE: PLA  DUPLICATE:  INTENDED  ANALYSIS AND	Y (N)	MPLING UIPMENT CODE
PUMP OR TO DEPTH IN WE FIELD DECO	JUBING VELL (feet):  DITAMINATIO  SAMPLE C SPECIF  CONTAINEI  2  3	N: Y OF CONTAINER ICATION RS CODE PE PE PL	VOLUME SOONL STONL	AMPLE PUMP LOW RATE (IN ELD-FILTERE Itration Equipr	MATIVE ALL	PLE PRESEF TOTAL VO DED IN FIEL	ER SIZE:RVATION	SAMPLING INITIATED AT TUBING MATERIAL CO µm	DDE: PEDUPLICATE:  INTENDED ANALYSIS AND METHOD  TOS  AMMONG	Y (N)  O/OR EQ	MPLING UIPMENT CODE
PUMP OR TO DEPTH IN W FIELD DECC SAMPLE ID CODE	JUBING VELL (feet):  ONTAMINATIO  SAMPLE C SPECIF  CONTAINEI  1  2  3	N: Y OF CONTAINER ICATION RS CODE PE PE PL	VOLUME SOONL STONL	AMPLE PUMP LOW RATE (IN ELD-FILTERE Itration Equipr	IGNATURES  IN PERMINENT  IN PERMINENT  SAM  VATIVE  ED AD  AC  AC  AC  AC  AC  AC  AC  AC  AC	PLE PRESEF TOTAL VO DED IN FIEL	ER SIZE:RVATION	SAMPLING INITIATED AT TUBING MATERIAL CO PH	DDE: PLA  DUPLICATE:  INTENDED  ANALYSIS AND	Y (N)  NOR EQ	MPLING UIPMENT CODE

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

<sup>2.</sup> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

NAME:	Daras	ota C	ولمرده	CCZM		ITE OCATION:	Sara	sota c	wtness	Land	4.11				
WELL NO:	6 W	1-30		SAMPLE	: ID: (	- ریا خ	30		DATE:	1/15/	09				
,					PURC	SING DA	TA								
WELL DIAMETER	R (inches): 2	TUBIN	G TER (inches)		LL SCREEN	INTERVAL	STATIC	DEPTH G		GE PUMP TYP					
WELL VOI	LUME PURGE:				TH - STA	TIC DEPTH	OWATER) X	ER (feet):	TY ORE	AILER: Par	istaltic				
only fill ou	t if applicable)		<b>=</b> (	18	feet -	1.78	faat) Y	0.16	gallons/foot	= 1.37	7				
EQUIPMEN	NT VOLUME P t if applicable)	URGE: 1 EQI	JIPMENT VO	L. = PUMP VOL	UME + (TUE	ING CAPAC	TY X T	UBING LENGTH			gallons gallons				
(Only III) Ou	r ii applicable)			= 💋 ga	allons + (O	.0026 galid	ons/foot X	8 feet	)+ O.1	gallons =	6.(5 gallons				
3	IMP OR TUBIN WELL (feet):	G Z		MP OR TUBING I WELL (feet):	18	PURGIN	IG ED AT: \3.1	PURGING ENDED AT:	14.74	TOTAL VOLU	ME 3.7				
		CUMUL.	1	DEPTH		INITIALI	COND.	DISSOLVED		PURGED (gai	ions): [				
TIME	VOLUME PURGED	VOLUME PURGED	PURGE RATE	то	pH (standard	TEMP.	(circle units)	OXYGEN (circle units)	TURBIDITY		ODOR				
	(gallons)	(gailons)	(gpm)	WATER (feet)	units)	(°C)	μπhos/cm <u>or</u> μS/cm	mg/L or % saturation	(NTUs)	(describe)	(describe)				
13:30	2	2	0.12	5 DRY				70 Saturation							
13:40	Ø.5	2.5	0.05	17.72	7.69	23.61	1122	5,30	94.4	Beige	None				
13:50	0.5	3.0	0.05	DRY						4					
13:53	13:53 0.15 3.15 0.05 17.96 7.63 24.09 1124 5.55 182 Beige None 3:56 0.15 3.3 0.05 DRY														
	3:56 0.15 3.3 0.05 DRY														
	3:56 0.15 3.3 0.05 DRY 3:59 0.15 3.45 0.05 DRY														
	4:01 0.1 3.55 0.05 17.92 7,77 24.01 1107 5.69 189 Beige None														
14:04	0.15	3.70	0.05	DRY	7,77	24.19	1128	5,59	185	\ <u>\</u>	V				
											,				
				.							<u> </u>				
WELL CAP	ACITY (Gailon	l s Per Foot): (	1.75" = 0.02;	1" = 0.04;	1.25" = 0.06	3; 2" = 0.16	3" = 0.37;	4" = 0.65;	5" = 1.02; 6	" = 1.47; 12	." = 5.88				
	SIDE DIA, CAF EQUIPMENT C		ft.): 1/8" = 0 = Bailer:		= 0.0014;	1/4" = 0.002	6; <b>5/16"</b> = 0.	004; 3/8" = 0	.006; 1/2"	= 0.010; 5/8	" = 0.016				
1 ortonto i	EGON MENT	ODES. B	- baller,	BP = Bladder P	· · · · · · · · · · · · · · · · · · ·	LING DA	Submersible Pur	np; PP = Po	eristaltic Pump;	O = Othe	г (Specify)				
	BY (PRINT) / A			SAMPLER S)				SAMPLING		SAMPLING					
	Bagn	el PBS	7 7	152	con (	100		INITIATED AT	r: 14:04	ENDED AT:	14:34				
PUMP OR 1 DEPTH IN \	FUBING NELL (feet):	18		TUBING MATERIAL CO	DDE:	PP	FIELD-	FILTERED: Y	) N	FILTER SIZE	i: μm				
FIELD DEC	ONTAMINATIO	ON: PUM	P Y Q	D	TUBING	Y (N)re	placed)	DUPLICATE:		(N)					
SAMP	LE CONTAINE	R SPECIFICA	TION	1	SAMPLE PR	ESERVATIO	V	INTENDE		MPLING S	AMPLE PUMP				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATI USED		OTAL VOL D IN FIELD (n	FINAL pH	ANALYSIS AI			FLOW RATE nL per minute)				
Gw-30	l	PE	250	Nitrio				Fe +	A zA	PP	50				
	<u> </u>	PE	500	Sulfuci	د			Ammo		PP	50				
	1	PE	500	Non4				TOS	F	199	50				
		PE	250	Nitric				Fe + A		499	50				
								* = +	iltered		\$5				
REMARKS:															
· (CHOTING.	ORP = -49.5 / Fe2+ = 0.4 mg/1														
MATERIAL	ATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)														
SAMPLING	EQUIPMENT (	-		ristaltic Pump; se Flow Peristalt	B = Baile		Bladder Pump; Method (Tubing	ESP = Electri	c Submersible	Pump;					
IOTES: 1.	The above d			the information	on required	by Chapte	r 62-160. F.A.	C.	O = Other (S	phental					

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH:  $\pm$  0.2 units Temperature:  $\pm$  0.2 °C Specific Conductance:  $\pm$  5% Dissolved Oxygen: all readings  $\leq$  20% saturation (see Table FS 2200-2); optionally,  $\pm$  0.2 mg/L or  $\pm$  10% (whichever is greater) Turbidity: all readings  $\leq$  20 NTU; optionally  $\pm$  5 NTU or  $\pm$  10% (whichever is greater)

Revision Date: February 12, 2009

Note: This well went dry during development also.

SITE						SITE									
NAME: -	SARKSO	iA (	COLUTE	CLE	Jopa C	LOCATION:									
WELL NO:	GW	-31		SAMPL	EID: G	w-3)	)		DATE:	15/16	3				
						GING DA		***		<del>, , , , ,</del>					
WELL	R (inches): 2	TUBING DIAMETER (	inches 25	WELL S	CREEN INTE		STATIC D TO WATE		PURGE PUMP '	TYPE A					
WELL VOL	UME PURGE:						TO WATER)	X WELL CA	PACITY						
'	t if applicable)		= (	18:0	feet -	2.05	feet)	× , 2	gallons/foo	t =1.8	gallons				
EQUIPMEN	NT VOLUME PU t if applicable)	JRGE: 1 EQUI	PMENT VOL.	= PUMP VO	LUME + (TU	BING CAPAC	ITY X	TUBING LEN	GTH) + FLOW CE						
(oraly till out				= (	gallons + (	gall	ons/foot X		feet) +	galions =	9 gallons				
1	MP OR TUBING WELL (feet):	3 / 3	FINAL PUMI DEPTH IN V		13	PURGII INITIAT	NG ED AT: <b>/2</b> S	PURGII ENDED		TOTAL VOLUM PURGED (gallo					
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP.	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L of % saturation	TURBIDITY or (NTUs)	COLOR (describe)	ODOR (describe)				
1250	1.0	1.9	. 1	9.18	5.90	22.9	0.99	1.05	40	NOVE	e spite				
1255	1.1	2.0	11	11	6.05	23./	1.08	1.17	40	/1	-				
1300	1300 1.2 2.1 " " 6.09 232 1.10 1:02 10.74 "														
1305	1305 1.3 2.2 " " 6.12 73.2 1.11 0.95														
	· · · · · · · · · · · · · · · · · · ·		Fe	77 =	0.8	ME									
-			ORF	2	-99.	<i>o</i> -									
											-				
TUBING IN	ACITY (Gallons SIDE DIA, CAP	Per Foot): 0.7 ACITY (Gal./Ft.	'5" = 0.02; ): <b>1/8"</b> = 0.00	1" = 0.04; 006; 3/16'	1.25" = 0.0 " = 0.0014;	06; 2" = 0.1 1/4" = 0.002				,	' = 5:88 ' = 0.016				
0.4451.55	BY (PRINT) / AF					LING DA	ATA	y		······································					
SAMPLED	621265		SA	MPLEK(S) S	SIGNATURES	5:		SAMPLING INITIATED AT	1310	SAMPLING ENDED AT:	127				
PUMP OR 1	TUBING	12		MPLE PUMI				TUBING		1					
DEPTH IN V	VELL (IEEI): ONTAMINATIO	N: Y N	FIE	LD-FILTER			ER SIZE: _	MATERIAL CO μm	DUPLIÇATE:	Y N					
, 1000 000		ONTAINER	Fill	ration Equip											
SAMPLE ID		ICATION MATERIAL	1	PRESER		TOTAL VC		FINAL	INTENDED ANALYSIS AND	/OR EQ	MPLING UIPMENT				
CODE	CONTAINE	RS CODE	VOLUME	USI		DDED IN FIEL		pH	METHOD		CODE				
<u>610-3</u>	1 (	PE	500 HL			<u></u>	<u> </u>		<u>728</u> S						
	2	OB	500ML	H250	74				AMONDO	A					
	<u> </u>	FB.	250H	NIT	ZIC	<u></u>	-	-	6010/	15+1-c	( ۽				
-2000-7400-7-1										<u> </u>	ei.				
	-			-											
REMARKS:								•							
	4510	1= 57	ICK-III	O.F.	1 FASO	mar s	39 N	la-4 -	TILBIA	METE	L.				
MATERIAL	<u> </u>	AG = Amber (	Glass; CG =	Clear Glass		olyethylene;	PP = Polyp	propylene; S =	Silicone; T = Te		er (Specify)				
SAMPLING EQUIPMEN		NPP = After Peri		B = Ba		P = Bladder Pu aw Method (To	ımp; ES	P = Electric Sut Drain): VT	omersible Pump; = Vacuum Trap;	PP = Peristal O = Other (					

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

<sup>2.</sup> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

## DEP-SOP-001/01

### FS 2200 Groundwater Sampling

### Form FD 9000-24

### **GROUNDWATER SAMPLING LOG**

FACILITY NAME: I~	STAPASOT	A C	174	CONI		FACILITY LOCATION:					
	ING WELL NUM	" GW-	10	SAMPLE	ID: GU	V-10			DATE: 4/	23/39	
					PURC	SING DA	TA	_			
	R (inches):		inches): 🏒 🤇		feet to	feet	TO WATE	R (feet):	PURGE PUMP OR BAILER:	TYPE A	
	UME PURGE: t if applicable)	1 WELL VOLU	,	LWELL DEF		TIC DEPTH	•	X WELL CAI		9.5	
	NT VOLUME PU	JRGE: 1 EQUIF							gallons/foo GTH) + FLOW CEI		gallons
(Only in ou	і я аррясасіе)		*******	= g;	allons + (	galle	ons/foot X		feet) +	gallons =/	gailons
	IMP OR TUBINO WELL (feet):	3/5	FINAL PUMP DEPTH IN W	OR TUBINO /ELL (feet):	15	PURGIN INITIATI	ED AT:	PURGIN ENDED		TOTAL VOLUN PURGED (gallo	
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP.	COND. (µmhos/c m or µS/cm)	DISSOLVED OXYGEN (circle mg/L o % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1130	1	1.6	.03	12.48	6.79	76.3	1.28	0.24	6.69	NERE	Now
//>S	1.1	1.7	10	"	6.30	263	126	0.17	601	"	31
1140	1.2_	1.8	11	//	5.20	7.6.6	1.28	0.15	3.74	8	-
					<del> </del>						
								· · · · · · · · · · · · · · · · · · ·			
				OBP	7 -	17.3	,				
	• "			Fe2	<u> </u>	8 UZ	2				
						-					
	 PACITY (Gallons SIDE DIA, CAP			1" = 0.04;	1.25" = 0.06 = 0.0014;	5; 2" = 0.1 1/4" = 0.002	6; 3" = 0.				 " = 5.88 " = 0.016
TOBING IN	SIDE DIA. CAP	ACIT (Gal./FL	j. 178 – 0.00	100, 3/16	···	LING DA		- 0.004, 3/6	= 0.000, HZ	- 0.010, 5/6	- 0.016
SAMPLED	BY (PRINT) / AF	FILIATION:	SA	MPLER(S) S	IGNATURES	:		SAMPLING INITIATED AT	1145	SAMPLING ENDED AT	ستحدا
PUMP OR	TUBING WELL (feet):	15		MPLE PUMP OW RATE (m		300	2	TUBING MATERIAL CO	DDE:	F	<del>~~.,~</del>
	OITAMINATIO	N: Y (N	) FIE	LD-FILTERE	D: Y 🔨		ER SIZE: _	μm	DUPLICATE:	Y	>
		ONTAINER ICATION			SAMI	PLE PRESER	RVATION		INTENDED	SA	AMPLING
SAMPLE I CODE	D # CONTAIN RS	MATERI NE AL CODE	VOLUME	PRESER!		TOTAL VC	)L D (mL)	FINAL pH	ANALYSIS AND METHOD		UIPMENT CODE
			AS	A=1	- 43	W-1	7				
							·				
···						····					**************************************
11-771			<u> </u>								
				-				_			
	45	SCHO	14-110		45	# >	2 AS	C-B-	6892		
REMARKS:	CUF = 41	15" X	-MKI	S./L·LA	41/	- -L15-24	TIME	311/21/2	TEL		
MATERIAL	-/ "	AG = Amber C	Blass; CG =	Clear Glass;	PE = Po	lyethylene;	PP = Poly	propylene; S =	Silicone; T = Te	eflon; O = Oth	ner (Specify)
SAMPLING EQUIPMEN		APP = After Peri RFPP = Reverse		B = Bai tic Pump;		= Bladder Pu w Method (Ti		SP = Electric Sub Drain); VT	omersible Pump; = Vacuum Trap;	PP = Perista O = Other (	

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

<sup>2.</sup> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

### DEP-SOP-001/01 FS 2200 Groundwater Sampling

### Form FD 9000-24

### **GROUNDWATER SAMPLING LOG**

FACILITY NAME: I		CCS	WDC	<u>.</u>	1	FACILITY LOCATION:					
	ING WELL NUM:		210-11	SAMPLE		GW.	- 11		DATE: 22)	22/20	7
			* U.S. 1 1	l.		SING DA			( 7/	7407	
WELL DIAMETER		TUBING DIAMETER (ii		DEPTH:	REEN INTE	RVAL feet	STATIC DE	(feet): 40C	PURGE PUMP OR BAILER:	TYPE	83
	UME PURGE: if applicable)	1 WELL VOLU	ME = (TOTA	AL WELL DEP 17	TH - STA feet - 9	TIC DEPTH	TO WATER)	X WELL CA		<b></b>	galions
	NT VOLUME PUI	RGE: 1 EQUIP	MENT VOL.	= PUMP VOL		BING CAPAC		• -	IGTH) + FLOW CE	t = Z	yanons
(only fill out	t if applicable)			= ga	allons + (	gall	ons/foot X		feet) +	gallons =	gallons
	MP OR TUBING WELL (feet):	, <del>-,</del> ,	FINAL PUMI DEPTH IN V	P OR TUBINO VELL (feet):	13	PURGIN INITIAT		PURGI ENDE		TOTAL VOLUM PURGED (gallo	
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/c m or µS/cm)	DISSOLVE OXYGEN (circle mg/L % saturation	TURBIDITY or (NTUs)	COLOR (describe)	ODOR (describe)
1300	1.4	3		9.35					137	3	
1315	2.8	4.5	10	K					120		
1300	4.7	_6	"	"	6.27	25.0	165	0-22	63.5	plate.	Pair
1335		•	11	;( ()	6/	25 cd	,864	0.18	4.4.1		
340			17		6-21	25.0	.863	1.2	174-6		
7943						<u> </u>			9/./		·
							* -				
				OA	V2 _	55.3	_				
				7	024.	20 1	MAIC				
	ACITY (Gallons I			1" = 0.04; 006; <b>3/16"</b>	1.25" = 0.06 = 0.0014;	6; 2" = 0.1 1/4" = 0.002					" = 5.88 " = 0.016
	ns (nintern (am	711 12 71051	1 6.			LING DA	ATA	·			
SAMPLED	BY (PRINT) / AFI	FILIATION:	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	MPLER(S) S	IGNATURES	):		SAMPLING INITIATED A	T: 124	SAMPLING ENDED AT:	1355
PUMP OR T	TUBING WELL (feet):	13		MPLE PUMP OW RATE (m		A-		TUBING MATERIAL C	PODE:	SE	•
	ONTAMINATION	l: Y 65	FIE	ELD-FILTERE tration Equipm	D: (Y) N		ER SIZE:	μm	DUPLICATE:	Y	<u></u> 5
	SAMPLE CO SPECIFIO				SAM	PLE PRESE	RVATION	·····	INTENDED	SA	AMPLING
SAMPLE II CODE		MATERI	VOLUME	PRESER\ USE		TOTAL VO		FINAL pH	ANALYSIS AND METHOD		UIPMENT CODE
			AS	AT	G(	11-11	" Phi	/S:			
	5	250/1	PE					<u>.</u>	6010-	FUTT	
		1211 -	1	- no :		2	سد . مر مصر		17/02.1	1-121	
	-		10	20161	121	<u>DR</u>	CAUS	<u> </u>	1 4 1010	<u> </u>	
			<u></u>	Zyle		CT.	7 1				
REMARKS:		1 1 1	210.11	· · · · · · · · · · · · · · · · · · ·	1/1-11	A 7 . A		, 140	Shille	(Oa)	GAR.
MATERIAL	CODES:	AG = Amber G	iass: CG =	ا اللها الله الله الله الله الله الله ا	PF = Po	it //ROW liyethylene;	PP = Polyp	ronvlene: S	= Silicone; T = To	eflon O = Otl	er (Specify)
SAMPLING		PP = After Peris		B = Bai		= Bladder Pt		<del></del>	bmersible Pump;	PP = Perista	
		FPP = Reverse		ltic Pump;			ubing Gravity		T = Vacuum Trap;	O = Other	

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

<sup>2.</sup> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

### DEP-SOP-001/01 FS 2200 Groundwater Sampling

### Form FD 9000-24

### **GROUNDWATER SAMPLING LOG**

FACILITY NAME: I	5 AA4.5	574 5	254	C.25%		FACILITY LOCATION:					
MONITOR	ING WELL NUM	6470	19	SAMPLE	EID: G	2-19	•		DATE: 4/2	DOA.	
				1		GING DA	ATA		<u> </u>		
	R (inches):	TUBING DIAMETER (i	inches)************************************	DEPTH:	REEN INTE	feet		DEPTH 15.6 ER (feet):	PURGE PUMP T OR BAILER:	YPE P	5
only fill ou	t if applicable)		= ( <u>/</u>	12.8	feet - //	.6	fee	R) X WELL CA	gallons/foot		gallons
	NT VOLUME PU t if applicable)	JRGE: 1 EQUIP	MENT VOL. =		LUME + (TUi allons + (		ITY X ons/foot X		GTH) + FLOW CEL	L VOLUME gallons = *	フ丿 gallons
	IMP OR TUBING WELL (feet):	14	FINAL PUMP DEPTH IN W	ELL (feet):	G 14	PURGIN INITIAT	ED AT:	PURGII ENDED	AT: / 3/0	TOTAL VOLUM PURGED (gallo	IE (ns):2.3
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (μmhos/ m or μS/cm)	c OXYGEN (circle mg/L o	TURBIDITY or (NTUs)	COLOR (describe)	ODOR (describe)
1300	1	2./	6.04	10.7	6.57	269	2.37	0.42	10.7	NOWE	vari
1305	1.1	2.2	"	17	6.55	26.7	2.58	3 6.24		",	* **
1310	/. 2	2.3	73	"	6,53	26.7	0.25	8.47	//	,	
			,		OSI	=-8	4.6				
					F2	nt e	2.1	M9/1_			· .
	 PACITY (Gallons ISIDE DIA, CAP			1" = 0.04;	1.25" = 0.0 ' = 0.0014;	6; 2" = 0.1 1/4" = 0.002		0.37; 4" = 0.65 6" = 0.004; 3/8'			' = 5.88 ' = 0.016
1001110 111		TOTT (Odditt)	, b.cc	00, 0710		LING DA		0.00-1, 0.0	3.000, Tra	0.010, 0.0	0.010
SAMPLED	BY (PRINT) / AF	FILIATION:	SAI	MPLER(S) S	IGNATURES	5:		SAMPLING INITIATED AT	1315	SAMPLING ENDED AT:	
PUMP OR	TUBING WELL (feet):	14		MPLE PUMP	s nL per minute	1 40	0	TUBING MATERIAL C	DDE:	ES,	
	ONTAMINATIO		FIE	LD-FILTERE ation Equipr	ED: Y 🦯		ER SIZE:	μm	DUPLICATE:	Y W	<b>)</b>
	SPECIF	ONTAINER ICATION		Į	SAM	IPLE PRESE	RVATION		INTENDED		MPLING
SAMPLE I CODE	D # CONTAIN RS	MATERI IE AL CODE	VOLUME	PRESER USE		TOTAL VO		FINAL pH	ANALYSIS AND/ METHOD		UIPMENT CODE
			A	A	76	-10-1	7,	HUS.			
	i	PI	250%		,	-	/	-	NITTON.	51/<sub 2/	aste.
		PH	2.50/15	-					HALL	11574	
		J. F.	7500	<u> </u>				-	700	3/4	<u> </u>
	+ ′	PE	250 M.			•••			NA, MN,	<i>BJ (0)</i>	<u> </u>
		].	2 2	1	ر دار ا	-,( -	-3,05	2. A. MZ	TED		
REMARKS:	CKVA 2	Y'A A	17500 S C	W W	ATIO	72 1	47 J	ナラトC/	-h-life	? .	
MATERIAL		AG = Amber G	Glass; CG =	Clear Glass	; PE = Po	olyethylene;	PP = Po	lypropylene; S	Silicone; <b>T</b> = Te	flon; <b>O</b> = Oth	er (Specify)
SAMPLING EQUIPMEN		APP = After Peri RFPP = Reverse		B = Ba ic Pump;		= Bladder Pu aw Method (Ti		ESP = Electric Sulity Drain); V	omersible Pump; r = Vacuum Trap;	PP = Peristal O = Other (	

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

<sup>2.</sup> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

WELL NO:   G	NAME:	<u>Saras</u>	sota	Coun	ty ccs		TE OCATION:	Sara	sota C	tuco.	y Lar	id fill			
WELL PRINCE (Inches):	WELL NO	5	W-1	<u>5</u>	SAMPLE	ID: (	5W-	15		DATE:	[23	109			
DIAMETER (Inches):						PURC	SING DA	TA				***************************************			
WELL CAPACITY   WELL VOLUME   TWELT VOLUME   TOTAL WELL DEPTH   STATIC DEPTH TO WATER)   X   WELL CAPACITY   TOTAL YOLUME	DIAMETE		~ DIAME	TER (inches):	14   DEF	РТН: 1∕) fe	et to 2.0 1	feet TO WAT	ER (feet):	08 I or e	GE PUMP TYP	E E			
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW GELL VOLUME (or yill out if applicable)  INITIAL PUMP OR TUBING SPINITIAL PUMP OR TUBING SPINITIAL PUMP OR TUBING BEPTH IN WELL (feet): 15 PURGING NITIAL PUMP OR TUBING DEPTH IN WELL (feet): 15 PURGING NITIAL PUMP OR TUBING DEPTH IN WELL (feet): 15 PURGING NITIAL PUMP OR TUBING DEPTH IN WELL (feet): 15 PURGING NITIAL PUMP OR TUBING DEPTH IN WELL (feet): 15 PURGING NITIAL PUMP OR TUBING (galions) (galions) (gern) NITIAL PUMP OR TUBING (galions) (galions) (galions) (galions) (gern) NITIAL PUMP OR TUBING (galions) (galions) (galions) (gern) NITIAL PUMP OR TUBING (galions) (galions) (galions) (galions) (gern) NITIAL PUMP OR TUBING (galions) (galions) (galions) (gern) NITIAL PUMP OR TUBING (galions) (ga	WELL VO	LUME PURGE: t if applicable)	1 WELL VO		AL WELL DEP	TH - STA	TIC DEPTH	TO WATER) X	WELL CAPACI	TY	171				
Contylination   Purpose	EQUIPME	NT VOLUME P	URGE: 1 EQL			feet - UME + (TUE	ING CAPAC	feet) X ITY X T				<u>5</u> gallons			
INTIAL PUMP OR TUBING   15   IPURGING   15	(only fill ou	t if applicable)							•	1		o.≢4 <sub>gallons</sub>			
TIME VOLUME PURGED CAMULE PURGED PURGED PURGED PURGED PURGED (per purge) (per			<sup>6</sup> 15			i 5	PURGIN	IG ED AT: 8\59	PURGING ENDED AT:	9:41	TOTAL MOUN				
TIME			CUMUL.	1	···		]	1	DISSOLVED		1 13-1	1			
Carrier   Carr	TIME	PURGED	PURGED	RATE	WATER	(standard		(circle units) µmhos/cm	(circle units)						
Q  21	733					/ / 2			% saturation						
9:25 0.36 3.36 0.09 13.23 6.11 23.81 2747 1.59 6.3  9:24 0.36 3.72 0.09 13.32 6.65 23.87 2754 1.34 9.1  9:32 0.27 3.49 0.09 13.30 6.63 23.99 2754 1.32 7.8  9:33 0.27 4.26 0.09 13.32 6.63 23.99 2754 1.32 7.8  9:33 0.27 4.53 0.64 13.31 6.63 23.99 2757 1.30 7.7  9:41 0.27 4.80 0.09 13.30 6.63 24.09 2757 1.30 7.7  9:41 0.27 4.80 0.09 13.30 6.63 24.09 2757 1.30 8.1  WELL CAPACITY (Gallons Per Foot): 0.76" = 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  WELL CAPACITY (Gallons Per Foot): 0.76" = 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  WELL CAPACITY (Gallons Per Foot): 0.76" = 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  WELL CAPACITY (Gallons Per Foot): 0.76" = 0.02; 1" = 0.04; 1.25" = 0.016; 1.14" = 0.0026; 316" = 0.004; 316" = 0.008; 112" = 0.010; 516" = 0.016  WELL CAPACITY (Gallons Per Foot): 0.76" = 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  WELL CAPACITY (Gallons Per Foot): 0.76" = 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  WELL CAPACITY (Gallons Per Foot): 0.76" = 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  WELL CAPACITY (Gallons Per Foot): 0.76" = 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  WELL CAPACITY (Gallons Per Foot): 0.76" = 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  WELL CAPACITY (Gallons Per Foot): 0.76" = 0.02; 1" = 0.04; 1.25" = 0.06; 1" = 0.04; 3.79 = 0.06; 3" = 0.07; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88  WELL CAPACITY (Gallons Per Foot): 0.76" = 0.02; 1" = 0.04; 1.25" = 0.06; 3" = 0.06; 3" = 0.06; 3" = 0.06; 3" = 0.06; 3" = 0.06; 3" = 0.06; 3" = 0.06; 3" = 0.06; 3" = 0.06; 3" = 0.06; 3" = 0.06; 3" = 0.06; 3" = 0.06; 3" = 0.06; 3" = 0.06; 3" = 0.06; 3" = 0.06; 3"				1	14011	,					Clear	Pone			
9:29 0.36 3;72 0.09 13.32 6.65 23.87 2754 1.34 9,1 9,1 9;35 0.27 3,49 0.09 13.30 6.63 23.99 2754 1.32 7.8 9;35 0.27 4.26 0.69 13.32 6.63 23.99 2754 1.31 7.5 9;35 0.27 4.53 0.09 13.30 6.63 23.99 2757 1.30 7.7 9;41 0.27 4.80 0.09 13.30 6.63 24.09 2757 1.30 7.7 9;41 0.27 4.80 0.09 13.30 6.63 24.09 2757 1.30 8.1 V V V V V V V V V V V V V V V V V V V		42/					<del></del>		<u> </u>						
9.32 0.27 3.49 0.09 13.30 6.63 23.99 2754 1.32 7.8  9.35 0.27 4.26 0.09 13.32 6.63 23.99 2757 1.30 7.7  9.37 0.27 4.53 0.69 13.31 6.63 23.99 2757 1.30 7.7  9.39 0.27 4.53 0.69 13.30 6.63 24.09 2757 1.30 7.7  9.40 0.27 4.80 0.09 13.30 6.63 24.09 2757 1.30 8.1)  WELL CAPACITY (Gallons Per Fool): 0.75"=0.00: 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  TUBING INSIDE DIA. CAPACITY (Gallons Per Fool): 0.75"=0.006: 3/16"=0.0014: 114"=0.0026: 5/16"=0.004: 3/8"=0.006: 112"=0.010: 5/8"=0.016  PURGING EQUIPMENT CODES: B = Baller; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Perfetaltic Pump; O = Other (Specify)  SAMPLED BY (PRINT)/AFFILIATION: 5/40 5/40 5/40 5/40 5/40 5/40 5/40 5/40															
9:35	<del></del>	9:32 0.27 3.49 0.09 13.30 6.63 23.99 2754 1.32 7.8													
9:32		9:35 0.27 4.26 0.09 13.32 6.63 23.98 2754 1.31 7.5													
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 TUBING INSIDE DIA. CAPACITY (GAL/FL): 1/8" = 0.0006: 3/16" = 0.0014: 1/4" = 0.0026: 5/16" = 0.004: 3/8" = 0.006: 1/2" = 0.010: 5/8" = 0.016 PURGING EQUIPMENT CODES: B = Baller: BP = Bladder Pump: ESP = Electric Submersible Pump: PP = Peristaltic Pump: O = Other (Specify)    SAMPLED BY (PRINT) / AFFILIATION: BP = Bladder Pump: SIGNATURE(6): SAMPLING DATA   SAMPLED BY (PRINT) / AFFILIATION: SAMPLER(8): SIGNATURE(6): SAMPLING ENDED AT: 10:15   PUMP OR TUBING		1:38 0.27 4.53 0.69 13.31 6.63 23,99 2757 1.30 7.7													
WELL CAPACITY (Gallons Per Fool): 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 TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016  PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)  SAMPLED BY (PRINT) / AFFILIATION: SAMPLER(S): GIGNATURE(S): INITIATED AT: 9'. 4 ENDED AT: 10'. 1.5  PUMP OR TUBING DECONTAMINATION: PUMP Y N TUBING Y Noteplaced)  SAMPLE CONTAINER SPECIFICATION SAMPLE PRESERVATION INTERIODED CONTAINER SPECIFICATION SAMPLE PRESERVATION INTERIODED CONTAINERS PRESERVATIVE TOTAL VOL ADDED IN FIELD (mL) pH MATERIAL CODE: APP 72 I SO  SEC Chapter of Customer Glass; CS = Clear Glass; PE = Polygthylene; PP = Polygropylene; S = Silicone; T = Teffon; O = Other (Specify)	<del></del>														
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016  PURGING EQUIPMENT CODES: B = Bailer; BP = Blaideder Pump; ESP = Electric Submersible Pump; PP = Peristallic Pump; O = Other (Specify)  SAMPLED BY (PRINT) / AFFILIATION:  BY CAJ BAYNE / PBS + J  TUBING DEPTH IN WELL (feet): 5  TUBING MATERIAL CODE: PP  FIELD DECONTAINER SPECIFICATION  SAMPLE PRESERVATIVE ID CODE  SAMPLE PRESERVATIVE USED  ADDED IN FIELD (mL)  FINAL METHOD  ANALYSIS AND/OR METHOD  ANALYSIS AND/OR METHOD  APP  2 ) SO  MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyptopylene; S = Silicone; T = Teffon; O = Other (Specify))		1-71 0.21 4.80 0.09 13.30 6.63 24.09 2757 1.30 8.1 \													
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016  PURGING EQUIPMENT CODES: B = Bailer; BP = Blaideder Pump; ESP = Electric Submersible Pump; PP = Peristallic Pump; O = Other (Specify)  SAMPLED BY (PRINT) / AFFILIATION:  BY CAJ BAYNE / PBS + J  TUBING DEPTH IN WELL (feet): 5  TUBING MATERIAL CODE: PP  FIELD DECONTAINER SPECIFICATION  SAMPLE PRESERVATIVE ID CODE  SAMPLE PRESERVATIVE USED  ADDED IN FIELD (mL)  FINAL METHOD  ANALYSIS AND/OR METHOD  ANALYSIS AND/OR METHOD  APP  2 ) SO  MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyptopylene; S = Silicone; T = Teffon; O = Other (Specify))															
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016  PURGING EQUIPMENT CODES: B = Bailer; BP = Blaideder Pump; ESP = Electric Submersible Pump; PP = Peristallic Pump; O = Other (Specify)  SAMPLED BY (PRINT) / AFFILIATION:  BY CAJ BAYNE / PBS + J  TUBING DEPTH IN WELL (feet): 5  TUBING MATERIAL CODE: PP  FIELD DECONTAINER SPECIFICATION  SAMPLE PRESERVATIVE ID CODE  SAMPLE PRESERVATIVE USED  ADDED IN FIELD (mL)  FINAL METHOD  ANALYSIS AND/OR METHOD  ANALYSIS AND/OR METHOD  APP  2 ) SO  MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyptopylene; S = Silicone; T = Teffon; O = Other (Specify))	14/5/ . 0 4 7	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" = 5.20													
SAMPLED BY (PRINT) / AFFILIATION:  SAMPLED BY (PRIN		TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016													
SAMPLED BY (PRINT) / AFFILIATION:  Brad Bayne / PBS+3  TUBING DEPTH IN WELL (feet):  SAMPLER SY NATERIAL CODE:  PIELD DECONTAMINATION:  PUMP Y (N)  TUBING Y (N)	PURGING	PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)													
Brad Bayne / PBS+5	SAMPLED	RY (PRINT) / A	EEU IATION:		CAMDI EDACI			ATA			<del></del>				
PUMP OR TUBING DEPTH IN WELL (feet):  FIELD DECONTAMINATION:  PUMP Y N TUBING Y Nireplaced)  SAMPLE CONTAINER SPECIFICATION  SAMPLE PRESERVATION  SAMPLE PRESERVATION  SAMPLE PRESERVATION  SAMPLE PRESERVATION  SAMPLE PRESERVATION  INTENDED ANALYSIS AND/OR EQUIPMENT CODE (mL) PH METHOD  CODE CONTAINERS  CODE CONT					SAMPLY (S)	AIAI	:(0). - () 1	/S		9:41		10:15			
FIELD DECONTAMINATION: PUMP Y N TUBING Y N PRESERVATION  SAMPLE CONTAINER SPECIFICATION  SAMPLE PRESERVATION  SAMPLE PRESERVATION  SAMPLE PRESERVATION  SAMPLE PRESERVATION  INTENDED ANALYSIS AND/OR EQUIPMENT CODE (mL) prinute)  FLOW RATE (mL) per minute)  SEC Chair of Custody for 4/23/09  SEC Chair of Custody for 4/23/09  REMARKS:  ORP = -122.8 / Fe 2 + -3.5  MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)	PUMP OR	TUBING		1		.ns. D	.0				FILTER SIZI	<u>≣:μ</u> π			
SAMPLE CONTAINER SPECIFICATION  SAMPLE PRESERVATION  SAMPLE PRESERVATION  SAMPLE PRESERVATION  SAMPLE PRESERVATION  SAMPLE PRESERVATION  ANALYSIS AND/OR EQUIPMENT CODE  CONTAINERS CODE  VOLUME PRESERVATIVE TOTAL VOL FINAL METHOD  ANALYSIS AND/OR EQUIPMENT CODE  (mL per minute)  APP 2 I SO  REMARKS:  ORP - 122.8 / Fe 2 + - 3.5  MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teffon; O = Other (Specify)					<del></del>	, ,	Y (N)re		1						
ID CODE CONTAINERS CODE VOLUME VSED ADDED IN FIELD (mL) PH METHOD CODE (mL per minute)  See Chain of Custody for 4/23/09  REMARKS:  ORP = -122.8 / Fe 2 + = 3.5  MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teffon; O = Other (Specify)	SAME	PLE CONTAINE	R SPECIFICA		-	SAMPLE PR	ESERVATIO	N	INTENDE	D SA	MPLING S				
See Chain of CVS-ody for $4/23/09$ REMARKS:  ORP = $-122.8$ / Fe $^2$ + $=3.5$ MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teffon; O = Other (Specify)				VOLUME											
REMARKS: $ORP = -122.8 / Fe^{2+} = 3.5$ MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teffon; O = Other (Specify)										A	PP 7	2 150			
REMARKS: $ORP = -122.8 / Fe^{2+} = 3.5$ MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teffon; O = Other (Specify)					<del>.</del>			<u> </u>			<u> </u>	\			
REMARKS:  ORP = -122.8 / Fe 2 + = 3.5  MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teffon; O = Other (Specify)	see	Cha	in of	<u> </u>	<u>ody </u>	for	4/2	3/09							
REMARKS:  ORP = -122.8 / Fe 2 + = 3.5  MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teffon; O = Other (Specify)								1	ļ						
REMARKS:  ORP = -122.8 / Fe 2 + = 3.5  MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teffon; O = Other (Specify)											1,				
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)	REMARKS	REMARKS:													
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)			0	RP =	= - 1	22.	8 /	Fe	T = 3	3,5					
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump: B = Bailer: BP = Bladder Pump: ESP = Flectric Submersible Pump:	MATERIAL	.CODES:	AG = Amber G	Blass; CG =	Clear Glass;	PE = Poly	ethylene;				on; O = Oth	er (Specify)			
RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)	SAMPLING	EQUIPMENT													

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH:  $\pm$  0.2 units Temperature:  $\pm$  0.2 °C Specific Conductance:  $\pm$  5% Dissolved Oxygen: all readings  $\leq$  20% saturation (see Table FS 2200-2); optionally,  $\pm$  0.2 mg/L or  $\pm$  10% (whichever is greater) Turbidity: all readings  $\leq$  20 NTU; optionally  $\pm$  5 NTU or  $\pm$  10% (whichever is greater)

Revision Date: February 12, 2009

NAME:	Saro	isota (	Count.	7 CCS 4	20C   ro	TE CATION:	Sara	so+a	Count	1 La	ndfill			
WELL NO:	6	W-1	6	SAMPLE	ID:	Gil	1-16		DATE: ز	1/23	109			
				•	PURC	SING DA				<del></del>				
WELL DIAMETER			ER (inches);	14 DEP	L SCREEN TH: 10 fe	et to 20 f	STATIC	DEPTH ER (feet):	391 ORE	GE PUMP T AILER: Pe	ristaltic			
(only fill ou	t if applicable)			20		11,30	=	0.16	gallons/foot	_ \.	38 gallons			
EQUIPMEI (only fill ou	NT VOLUME P t if applicable)	URGE: 1 EQU		= PUMP VOL	UME + (TUE	IING CAPACI	TY X T	UBING LENGTH)	+ FLOW CEL	L VOLUME	= O; \ \ \ \ gallons			
	MP OR TUBIN	6 14		MP OR TUBING		BUBOK		T DUDOUG	ľ	TOTAL VOI	LUME , 1 /			
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP.	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or	TURBIDITY (NTUs)		R ODOR			
11:21	2.	2	0.125	11.84	6.85	24,21	1675	% saturation	0.63	5 Clea	ir None			
11:31	Ì	3	0.1	11.88	6.64	24,36	1673	1,25	0.25	1	100112			
11:35	0,4	3,4	0.1	11.89	6.62	24,39	1674	1,23	0.85					
11:38	0.3	3,7	0.1	11.90	6.61	24,40	1674	1.13	1.1					
11,45	0.3	40	0.1	11.88	6,60	24.4)	1675	1.09	0.8					
11:45	1:48 0.3 4.6 0.1 11.89 6.62 24.26 1671 0.87 0.9													
11-48	1-48 0.5 4.6 0.1 11.88 6.62 29.26 1671 0.86 0.85 V													
	WELL CAPACITY (Callogs Por Escal). A 7511 - 0.002. All - 0.004. A 2511 - 0.002. All - 0.071. All													
	NELL 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 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.005; 1/2" = 0.010; 5/8" = 0.016													
PURGING	PURGING EQUIPMENT CODES: B = Bailer, BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)													
SAMPLED.	BY (PRINT) / A	FEILIATION:		SAMPLER(S)		LING DA	MA	1		1				
Brad	~ ′		242		un	9/3		SAMPLING INITIATED AT	84111:	SAMPLIN ENDED A	G T: \Z\30			
PUMP OR		14		TUBING MATERIAL CO	DE: PP			-FILTERED: Y	<u></u>	FILTER S				
	ONTAMINATIO	ON: PUMP			TUBING	Y (N)re	placed)	DUPLICATE:	<u> </u>	N				
SAMF	LE CONTAINE	R SPECIFICAT	ION		SAMPLE PR	ESERVATIO	V	INTENDE		MPLING	SAMPLE PUMP			
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIV		OTAL VOL D IN FIELD (n	nL) PH	ANALYSIS AN METHOI		JIPMENT CODE	FLOW RATE (mL per minute)			
									f-	+PP	2 150			
<b>7</b>	~\\ -\					11 1 - 6	, ,			1				
See	Chai	n of	C7241	<u>ody t</u>	701	4/23	109			<del> </del>				
REMARKS:	ORP = $-132.4$ / Fe <sup>2+</sup> = 2.8													
					-		<u>.e</u>							
MATERIAL	CODES:	AG = Amber G CODES: AF		Clear Glass;	PE = Polye		PP = Polypropyl Bladder Pump:	ene; S = Silicon ESP = Electric	ne; T = Tefle		ther (Specify)			
				e Flow Peristalt			Method (Tubing		O = Other (					

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH:  $\pm$  0.2 units Temperature:  $\pm$  0.2 °C Specific Conductance:  $\pm$  5% Dissolved Oxygen: all readings  $\leq$  20% saturation (see Table FS 2200-2); optionally,  $\pm$  0.2 mg/L or  $\pm$  10% (whichever is greater) Turbidity: all readings  $\leq$  20 NTU; optionally  $\pm$  5 NTU or  $\pm$  10% (whichever is greater)

Revision Date: February 12, 2009

#### DEP-SOP-001/01 FS 2200 Groundwater Sampling

### Form FD 9000-24

### **GROUNDWATER SAMPLING LOG**

FACILITY NAME: I	5	NHSO TH	CITT	4 4		FACILITY LOCATION:								
	NG WELL NUM			SAMPLE	/	-117-1-	7		DATE: 4/	22/07				
L		000	<u> </u>		PUR	GING DA	ATA							
WELL DIAMETER		TUBING DIAMETER (i		DEPTH:	REEN INTE	feet	STATIC DI	R (feet): 7,42	PURGE PUMP T OR BAILER:	YPE A	3			
	.UME PURGE: if applicable)	1 WELL VOLU	ME = (TOTA	L WELL DE			-	X WELL CAP	PACITY					
	•••		= (	7.80	feet -	.42	feet)	x . 2	gallons/foot		gallons			
	NT VOLUME PU if applicable)	RGE: 1 EQUIP	MENT VOL.						STH) + FLOW CEL		100			
	07-		····		ailons + (		ons/foot X	1	feet) +		gallons			
	MP OR TUBING WELL (feet):	13	DEPTH IN V	P OR TUBIN VELL (feet):	°13	PURGII INITIAT	NG ED AT;	PURGIN ENDED	AT: /205	TOTAL VOLUM PURGED (galle	ns);			
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP.	COND. (µmhos/c m or	DISSOLVED OXYGEN (circle mg/L o % saturation)	TURBIDITY r (NTUs)	COLOR (describe)	ODOR (describe)			
1115	gunono,	(gallons)	1/3	961		· · · · · · · · · · · · · · · · · · ·	μS/cm)	76 Saturation)	15					
1125	2	3.6	11 2	11					291					
145	15	45	4	4					241					
1155	3	54	t	17	6.83	2541	169	0.2	10.5	NOUZ	Resis			
1200	3.5	6.3			6.81	7537	169	0.2	17.3	7				
	1205 4 7.7 6.80 35.4 1.6.9 0.2 9.8%													
	Fort = 1.4 male													
	OF = -36.7													
	OAD = +36.7													
											·			
	ACITY (Gallons SIDE DIA. CAPA			1" = 0.04; 006: 3/16"	1.25" = 0.00 = 0.0014:	6: 2" = 0.1 1/4" = 0.002					" = 5.88 " = 0.016			
					SAMP	LING DA	<del></del>		,	·				
	BY (PRINT) / AF	,	_ SA	MPLER(S) S	IGNATURES	S:		SAMPLING		SAMPLING	12 GA			
PUMP OR	LES MULS		SA	MPLE PUMF				INITIATED AT: TUBING	120	ENDED AT:	1 Lain C			
DEPTH IN V	NELL (feet):	13	FL		nL per minute		ER SIZE:	MATERIAL CC	DDE:		<del></del>			
FIELD DEC	ONTAMINATION			tration Equip			ER GIZE	µ,,,	DUPLICATE:	Y	<b>*</b>			
****	SAMPLE C SPECIFI	CATION			SAM	PLE PRESE	RVATION		INTENDED		AMPLING			
SAMPLE I CODE	D # CONTAIN RS	MATERI E AL CODE	VOLUME	PRESER USE	*****	TOTAL VO	-	FINAL pH	ANALYSIS AND/ METHOD	OR EQ	CODE			
	1	DE	25000	Not	VC.	_		-	60/0	457-F	(e)			
		PIZ	SOM	1425	24	<b></b>			AMOUNT	4				
		PR	SCOHL	_			- ا	^	7/15					
	1	PH	Inous	-		-			FS 5	PICLA	1700			
			·						•					
REMARKS:	CKUP = 1	4051	- 41 83	as Ad A	w/es	arel a	10-01	AR5A		Pricity Mil-n-				
ハリン ハイ C MATERIAL		AG = Amber G	לר <i>עונורן</i> lass; CG =	<i>∏/∕3</i> 2/2> : Clear Glass		olyethylene;	PP = Polyr	_ ,	Silicone; T = Te	<del></del>	her (Specify)			
SAMPLING		.PP = After Peri FPP = Reverse	stattic Pump;	B = Ba	iler; BP	= Bladder Po aw Method (T	ump; ES	SP = Electric Sub	mersible Pump; = Vacuum Trap;	PP = Perista O = Other	iltic Pump			

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

<sup>2.</sup> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

SITE S	saraso	ta Co.	onty.	CC5W	DC SI	TE CATION:	Sara	.sota c	Count	J Lan	9411			
WELL NO:	GW	81-18		SAMPLE	ID: G	W-1	8		DATE:	122	109			
					PURC	ING DA	TA				,  -			
WELL	R (inches): Z	TUBING	FER (inches):	14 DEF	L SCREEN	INTERVAL et to 乙の f	STATIC (	DEPTH ER (feet): \	83 PURG	E PUMP TYP	e ristaltic			
WELL VOL	UME PURGE:	1 WELL VOI	UME = (TOT/	AL WELL DEP	TH - STA	TIC DEPTH T	O WATER) X	ER (feet): \\. WELL CAPACI	TY					
	NT VOLUME P		= (		teet - \	1, 0 2	feet) X	<u> ひ、) し</u> UBING LENGTH)	gallons/foot		\ gallons			
(only fill out	t if applicable)	onoc. The	# ##ZIEF VOE.			.0026 gallo		UBING LENGTA) 나 feet)	4- 1		0.14 gallons			
	MP OR TUBIN	G 14	FINAL PUM	P OR TUBING		DUDOIN	10	BURGING	· · · · · · · · · · · · · · · · · · ·	TOTAL MOULE				
DEPTH IN	WELL (feet):	, t	DEPTH IN V	VELL (feet):	' 14	INITIATE	ED AT: 8 55	> ENDED AT:	9:37	PURGED (gal	lons): 4, 6			
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)			
9:11	2	2	0.125	12,40	6,25	23.16	1053	1.89	3,65	Yellov	None			
9:21	i	_3	00	12.42	6.41	23,28	1092	), 73	2.31	Lt. Yel	)			
9:25	1	3.4	0.1	12.48	6.32	23,27	1093	1,62	2,22					
9:28	0.3	3,7	0.1	12.49	6.22	23.37	1094	<u> 7.28</u>	2,29					
9:31	7:34 0.3 4.3 0.1 12.42 6.20 23.41 1100 1.36 1.91													
	7:34 0.3 4.3 0.1 12.42 6.20 23.41 1100 1.36 1.91													
4:37														
	11 0. 1 1. 1 0. 1 0. 1 0. 1 1 1 1 0 0 1 1 1 1													
WELL CAP	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  TURING INSIDE DIA CAPACITY (Gallot): 18" = 0.0006; 216" = 0.004; 118" = 0.0026; 516" = 0.004; 118" = 0.0026; 516" = 0.004; 118" = 0.0026; 516" = 0.004; 118" = 0.0026; 516" = 0.004; 118" = 0.0026; 516" = 0.004; 118" = 0.0026; 516" = 0.004; 118" = 0.0026; 516" = 0.004; 118" = 0.0026; 516" = 0.004; 118" = 0.0026; 516" = 0.004; 118" = 0.0026; 516" = 0.004; 118" = 0.0026; 516" = 0.004; 118" = 0.0026; 516" = 0.004; 118" = 0.0026; 516" = 0.004; 118" = 0.0026; 516" = 0.0026; 118" = 0.													
	TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016													
T DITORIO	PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)  SAMPLING DATA													
	BY (PRINT) / A			SAMPLER(S)			2	SAMPLING	<i>a</i> .	SAMPLING				
Brac		ne IP	BStJ	pra	un	() ()	Suz	INITIATED AT		ENDED AT:				
PUMP OR T DEPTH IN \	VELL (feet):	14		TUŠIŃG MATERIAL CO	DDE:	PP		-FILTERED: Y on Equipment Typ		FILTER SIZE	μm			
FIELD DEC	ONTAMINATIO	ON: PUMI	^ Y (N	)	TUBING	Y (N)re	placed)	DUPLICATE:	Υ .(	JD (AL				
	LE CONTAINE					ESERVATIO		INTENDE ANALYSIS AN		IPLING S	AMPLE PUMP			
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATI USED		OTAL VOL D IN FIELD (r	nL) FINAL	METHOD			FLOW RATE mL per minute)			
									A	PP /	Z 200			
										<u> </u>	)			
5e2	Chair	of	CUST	<u>004</u>	tor	4/22	2/09							
					-		•							
				AUG.										
REMARKS:		-				,		1		V	V			
		OR'	P ==	1050	3	/ F	-e 2+	= 20)						
MATERIAL	CODES:	AG = Amber G	lass; CG =	Clear Glass;	PE = Poly		PP = Polypropyl		ne; T = Teflor	n; O = Othe	er (Specify)			
SAMPLING	EQUIPMENT		PP = After Peri PP = Reverse		B = Bail ic Pump;		Bladder Pump; Method (Tubing		Submersible f					

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

pH:  $\pm$  0.2 units Temperature:  $\pm$  0.2 °C Specific Conductance:  $\pm$  5% Dissolved Oxygen: all readings  $\leq$  20% saturation (see Table FS 2200-2); optionally,  $\pm$  0.2 mg/L or  $\pm$  10% (whichever is greater) Turbidity: all readings  $\leq$  20 NTU; optionally  $\pm$  5 NTU or  $\pm$  10% (whichever is greater)

Revision Date: February 12, 2009

<sup>2.</sup> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

### DEP-SOP-001/01

#### FS 2200 Groundwater Sampling

#### Form FD 9000-24

### **GROUNDWATER SAMPLING LOG**

FACILITY NAME: I						LOCATION:					
MONITORING WE	ELL NUM:	6	11-10	7 SAMPLE	E ID:	2/110	M		DATE: 3	122/2	~ <b>7</b>
		· · · · · · · · · · · · · · · · · · ·	<del>"</del>	<b>I</b>	PURC	SING DA	TÁ		1		/
VELL DIAMETER (inche	s): D	UBING IAMETER (i		DEPTH:	REEN INTER	feet	TO WATE	R (feet).	PURGE PUMP T OR BAILER:	YPE PA	WINNESS CO.
nly fill out if appli	cable)		= ( , <u>,</u>	6.95	feet - 8	23	feet)	×.2	gallons/foot		galions
QUIPMENT VOL only fill out if appli		e: Tegoir	MENI VOL		allons + (		ns/foot X		ΓH) + FLOW CEL eet) +	gallons =	gallons
IITIAL PUMP OR EPTH IN WELL (	(feet):	<u>//                                    </u>		MP OR TUBING WELL (feet):	3	PURGIN INITIATE	D AT: 4/			TOTAL VOLUM PURGED (gallo	
TIME   PUF	LUME RGED	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP.	COND. (µmhos/c m or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
155	/	19	.08	8.41	6.70	2/1/0	1.38	0-61	6.718	NOUR	ZKILSE N
505   505	2	2.0 2.j	K	11	6.69	16.5 26.5	11	0.48	444 4	2	11
-						j.					
			,			OBP	- A	13			*
					Fe	3,2	= 2.	14/2			-
ELL CAPACITY JBING INSIDE D				1" = 0.04; 0006; 3/16"		1/4" = 0.002	5; <b>5/16"</b> :	37;			' = 5.88 '' = 0.016
	KIT / ACCU	MATION	1-2			LING DA	TA				
MPLED BY (PR	NUD	A HON:		AMPLER(S) S				SAMPLING INITIATED AT:	1570	SAMPLING ENDED AT:	520
IMP OR TUBING			S	AMPLE PUMP LOW RATE (m	L per minute	800		TUBING , MATERIAL COL	DE: A	屋	
LD DECONTAN	INATION:	<u> </u>	F	IELD-FILTERE	D: Y 🖊	FILT	ER SIZE:	um I	DUPLICATE:	Y Ó	
A4815 ID	MPLE CON SPECIFICA #			W. W. W. W. W. W. W. W. W. W. W. W. W. W		PLE PRESER			INTENDED ANALYSIS AND/		MPLING UIPMENT
AMPLE ID C	ONTAINE RS	CODE	VOLUME	USE	D AD	TOTAL VO DED IN FIELI		FINAL pH	METHOD		CODE
			1.	AS,	67 G	300-17	, <sub> </sub>				
											c)
<u></u>					-						
EMARKS: 5	TICKY SURID	024.4 Whi	yed.	TUEBI	DINE	TE A	5 54	16 15 Th	) <u>/</u> 4B	±=ASI	-B-18
ATERIAL CODE	S: AC	3 = Amber G	lass; CG	= Clear Glass;		iyethylene;	PP = Polyp	propylene; S = S	Gilicone; T = Tel	flon; O = Oth	ner (Specify)
MPLING/PURG		= After Peris P = Reverse				= Bladder Pu w Method (Tu		P = Electric Subm Drain); VT =	nersible Pump; Vacuum Trap;	PP = Perista O = Other (	

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

<sup>2.</sup> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

FIELD DECONTAMINATION: PUMP Y N TUBING Y Neplaced)  SAMPLE CONTAINER SPECIFICATION  SAMPLE PRESERVATION  SAMPLE PRESERVATION  SAMPLE PRESERVATION  SAMPLE PUMP FLOW RATE (mL per minute)  SAMPLE MATERIAL CODE  CONTAINERS  CODE  CONTAINERS  CODE  CONTAINERS  CODE  CONTAINERS  CODE  CONTAINERS  CODE  CONTAINERS  CODE  CONTAINERS  CODE  CONTAINERS  CODE  CONTAINERS  CODE  CONTAINERS  CODE  CONTAINERS  CODE  CONTAINERS  CODE  CONTAINERS  CODE  CONTAINERS  CODE  CONTAINERS  CODE  CONTAINERS  CODE  CONTAINERS  CODE  CODE  CODE  CONTAINERS  CODE  CO	NAME: Sarasota County CCSWDC LOCATION: Sarasota County Land fill													
MELL COLOMETER (inches):	WELL NO: GW-20 SAMPLE ID: GW-20 DATE: 4/22/09													
DIAMETER (Inches):														
EQUIPMENT YOLUME PURGE: 1 EQUIPMENT YOL. PUMP YOLUME FURDING ACAPACITY X TUBING EINGTH) + FLOW GELL YOLUME (only iff bould if applicable) =	DIAMETER (inches): 4 DIAMETER (inches): 14 DEPTH: 12 feet to 22 feet TO WATER (feet): 12,87 OR BAILER: Parish 1,6													
EQUIPMENT VOLUME FURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING EINGTH) = FLOW CELL VOLUME (only fill out 1 applicable)    Open	= (24  feet - 14  gallons/foot = 14													
INTIAL PUMP OR TUBING   C   DEPTH IN WELL (feet):	EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME  (only fill out if applicable)													
TIME VOLUME PURGED PURGED PURGED PURGED PURGED PURGED PURGED (Generally Composition) (Application) (														
S   1   2   2   0.09   14.04   7.24   25.68   1447   0.65   20   Clear   None   15.28   1   3   0.09   14.03   6.99   25.51   14.59   0.21   36   15.32   0.36   3.36   0.09   14.02   6.96   25.45   1457   0.58   16   15.34   0.36   3.72   0.09   13.97   6.90   25.46   1460   0.51   17   15.39   0.21   3.99   0.09   13.98   0.87   25.46   14.65   0.47   7.1   15.39   0.27   4.26   0.09   13.98   0.87   25.49   14.65   0.47   7.1   15.42   0.27   4.53   0.09   13.98   6.87   25.60   14.68   0.39   4.4   15.48   0.27   4.8   0.27   4.8   0.09   13.97   6.86   25.59   1466   0.36   8.8   15.51   0.27   5.07   0.09   13.97   6.86   25.53   1466   0.28   9.0   V   V   15.48   0.27   4.8   0.27   4.8   0.09   13.97   6.86   25.53   1466   0.28   9.0   V   V   15.48   0.27   5.07   0.09   13.97   6.86   25.53   1466   0.28   9.0   V   V   V   V   V   V   V   V   V	TIME VOLUME PURGED PURGED RATE WATER (standard units)  VOLUME (gallons) (gallons) (gam) (feet) (feet) (gallons) (gallons) (gam) (feet) (feet) (feet) (gallons) (gam) (feet) (feet) (gallons) (gam) (feet) (gallons) (gam) (feet) (gallons) (gam) (feet) (gallons) (gam) (feet) (gallons) (gam) (feet) (gallons) (gam) (feet) (gallons) (gam) (feet) (gallons) (gam) (feet) (gallons) (gam) (feet) (gallons) (gam) (feet) (gallons) (gam) (feet) (gallons) (gam) (gam) (feet) (gallons) (gam) (feet) (gallons) (gam													
S. 28														
15:36	15:28 1 3 0:09 14:03 6:49 25:51 1459 0.81 36													
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DCODE CONTAINERS CODE VOLUME USED ADDED IN FIELD (mL) PH METHOD CODE (mL per minute)  See chair of CUSTODY for 4/22/09	THE TOP OF THE CASE OF THE CAS													
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REMARKS: ORP = -114 ( / Fa 2+ - 2 / 6	See chain of Custody for 4/22/09													
REMARKS: ORP = -114 / / Fa 2+ - 2 /6														
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()KV = -1)4 / 1 + 0.24 - 7.6	REMARKS: D C D													
11 106 / 12 = 200	ORP = -114.6 / Fe 2+ = 2.6													
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)	MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)													
	SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump;  RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)													

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH:  $\pm$  0.2 units Temperature:  $\pm$  0.2 °C Specific Conductance:  $\pm$  5% Dissolved Oxygen: all readings  $\leq$  20% saturation (see Table FS 2200-2); optionally,  $\pm$  0.2 mg/L or  $\pm$  10% (whichever is greater) Turbidity: all readings  $\leq$  20 NTU; optionally  $\pm$  5 NTU or  $\pm$  10% (whichever is greater)

Revision Date: February 12, 2009

### DEP-SOP-001/01

### FS 2200 Groundwater Sampling

#### Form FD 9000-24

### **GROUNDWATER SAMPLING LOG**

EQUIPMENT VOLUME   PURGES   1 EQUIPMENT VOL   2 PUMP VOLUME   TUBING   CAPACITY   X   TUBING   LENGTH) + FLOW CELL VOLUME   Gallons   Capacity   X   TUBING   CAPACITY   CAPACITY   CAPACITY   CAPACITY   CAPACITY   CAPACITY   CAPACITY   CAPACITY   CAPACITY   CALIFORNIA   TUBING   CAPACITY   CAPACITY   CALIFORNIA   TUBING   CAPACITY   CAPACITY   CAPACITY   CALIFORNIA   TUBING   CAPACITY   CAPACITY   CAPACITY   CALIFORNIA   TUBING   CAPACITY   CALIFORNIA   TUBING   CAPACITY   CAPACITY   CALIFORNIA   TUBING   CAPACITY   CAPACITY   CALIFORNIA   TUBING   CAPAC	NAME: I	SARASO	TH CU	174	CLSWASC	FACILITY LOCATION:					
WELL CAPACITY (Gallons   Per Foot): 0.75" = 0.02:	MONITORIN	G WELL NUM	GIL	1-21	SAMPLE ID:	G111-	21		DATE:	22/29	2
WELL CAPACITY (Gallons Per Fool): 0.75" = 0.02: 1" = 0.04: 1.25" = 0.06: 2"   7.25   7.72   7.21   7.25   7.88   7.25   7.72   7.21   7.25   7.88   7.25   7.72   7.21   7.25   7.88   7.25   7.72   7.21   7.25   7.25   7.72   7.21   7.25   7					PI	URGING DA	TA				
Gell   Gell	DIAMETER (i		DIAMETER (i		DEPTH: fe	et to feet				YPE	
Colv   File   Colv   File   Colv   File	only fill out if	applicable)		= ( 1	8.0 feet -	10.3	feet)	x , Z	gallons/foot	= 1.7	gallons
DEPTH IN WELL (feet):			RGE: 1 EQUIF			•			_		gallons
TIME VOLUME PURGED PURGED PURGED (gallons) PURGED (gallon						PURGIN INITIATE	IG ED AT: /5		- ,		
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  TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.016; 5/8" = 0.016  SAMPLING DATA  SAMPLED BY (PRINT) / AFFILIATION:  SAMPLER(S) SIGNATURES:  SAMPLED BY (PRINT) / AFFILIATION:  SAMPLE DEPTH IN WELL (feet):  FIELD DECONTAMINATION: Y  SAMPLE CONTAINER  SPECIFICATION  SAMPLE CONTAINER  SPECIFICATION  SAMPLE PUMP  FILTER SIZE: µm	TIME	PURGED	VOLUME PURGED	RATE	TO stand	dard (PC)	(μmhos/c m or	OXYGEN (circle mg/L or			ODOR (describe)
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  TUBING INSIDE DIA, CAPACITY (Gall/FL): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.016; 5/8" = 0.016  SAMPLED BY (PRINT) / AFFILIATION:  SAMPLED BY (PR	1610	1	1.8	.08	10,4 6:	75 25.5	1.74	0.22	40	KEXE	Nous
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PUMP OR TUBING DEPTH IN WELL (feet):  FIELD DECONTAMINATION: Y  SAMPLE CONTAINER SPECIFICATION  SAMPLE ID CODE  # MATERIA CODE  FIELD-FILTERED: Y Filter SIZE:mm  DUPLICATE: Y  SAMPLE PRESERVATION  INTENDED ANALYSIS AND/OR METHOD  SAMPLING EQUIPMENT CODE  FINAL PH  TUBING MATERIAL CODE:  DUPLICATE: Y  SAMPLE PRESERVATION  INTENDED ANALYSIS AND/OR METHOD  CODE	- 4			SAN	MPLER(S) SIGNATI	URES:		SAMPLING INITIATED AT:	1625	SAMPLING ENDED AT: /	
SAMPLE CONTAINER SPECIFICATION  SAMPLE ID CODE  SAMPLE ID CODE  SAMPLE PRESERVATION  SAMPLE PRESERVATION  INTENDED ANALYSIS AND/OR METHOD  SAMPLING EQUIPMENT CODE  CODE	PUMP OR TU	IBING		FLC	W RATE (mL per n			TUBING	Ad		
SPECIFICATION  SAMPLE ID CODE  SAMPLE ID CODE  # CONTAINE RS CODE  SAMPLE ID CODE  # CODE  PRESERVATIVE USED  TOTAL VOL ADDED IN FIELD (mL)  PRESERVATIVE USED  FINAL PH  INTENDED ANALYSIS AND/OR METHOD  CODE  SAMPLING EQUIPMENT CODE	FIELD DECO						ER SIZE:	μm	DUPLICATE:	Y (1	)
SAMPLE ID CONTAINE AL CODE VOLUME USED ADDED IN FIELD (mL) PH METHOD CODE		SPECIFI	CATION			SAMPLE PRESER	RVATION				
		CONTAIN	E AL	VOLUME							
AS A1 (350-17, 1205:			HS.	AT 6	521-17,	PEUS:	·				
1 PE 125M NITHATE/SCY/CHECKIN		1	Piz	125/41					NITKATE /	SOY/Ch	LEXINE
/ PE 250KL ACKNINTY	_,	<del>                                     </del>	PE	250 M				_	ACKKIN	r/ TV	
1 DR 250M TOC		<del>                                     </del>		25014	-				TOC ALL	22 20 20	
1 PR 2812 - 1 - NA, MN BY 6010	<del></del>		712	25077					<u>אנוין קידנין :</u>	31 40	<u>/ O</u>
			0 /-	<u></u>		•				_	
REMARKS: STICKUT = 45 WEASURD WI HACH	REMARKS:	STICKU	7 2 49		م او ب عام			X MEASO	KND 101	1440.	
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specif	MATERIAL C	STAC	AG = Amber 6	Blass: CG =	Clear Glass: PE		189.		KONNE	10 747 flon: 0 = Otl	ner (Specify)
SAMPLING/PURGING APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump EQUIPMENT CODES: RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)	SAMPLING/P	URGING A	.PP = After Peri	staltic Pump;	B = Bailer;	BP = Bladder Pu	ımp; ES	SP = Electric Subi	mersible Pump;	PP = Perista	itic Pump

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

<sup>2.</sup> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

### DEP-SOP-001/01

#### FS 2200 Groundwater Sampling

#### Form FD 9000-24

### **GROUNDWATER SAMPLING LOG**

FACILITY NAME: I	5,	A/24507A	CNTY	CLSW	100	FACILITY LOCATION:					
MONITORII	NG WELL NUM	GL	1-22	SAMPLE II		SW-2			DATE: 4	1/23/09	
						GING DA					
	(inches): 2	TUBING DIAMETER (ii 1 WELL VOLU	nches): 25	WELL SCRI DEPTH: L WELL DEPT	feet to	feet	STATIC TO WAT TO WATER	DEPTH ER (feet) O.C R) X WELL C	PURGE PUMP OR BAILER:	TYPE #	<b>`</b>
only fill out	if applicable)	RGE: 1 EQUIP	= ( / -	7.75 i	eet - <i>10</i>	202	fee	a) x 7		ot = 16	gallons
only fill out	if applicable)			= gallo	ons + (	gallo	ons/foot X		feet) +	·	gallon
	MP OR TUBING VELL (feet):	13	FINAL PUMF DEPTH IN W		<u> </u>	PURGIN	ED AT: 🖊		D AT:	PURGED (gall	
TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/o m or µS/cm)	c OXYGEN (circle mg/L	TURBIDITY or (NTUs)	COLOR (describe)	ODOR (describe)
240	1.7	17	<u>3</u> "	10.31	<u> 91</u>	20.9	3.77	0.66	324	NOUR	ROWE
0850	1.2	1.9	,,	7 6	190	20.9	3.81	0.46	2074	"	1
						·					
yAAAA HII JA				ORP =	-6	45					
				FeZ+ =	2,8	ng/	<u> </u>				
		Per Foot): 0.7 ACITY (Gal./Ft.)		1" = 0.04; 1 006; 3/16" =	.25" = 0.0 0.0014;	6; 2" = 0.1 1/4" = 0.002	  6; 3" = !6; 5/16	$\begin{array}{ccc} & & & & \\ 0.37; & & 4" = 0.6 \\ 5" = 0.004; & & 36 \end{array}$		,	" = 5.88 " = 0.016
						LING DA	ATA			T	
SAMPLED 6	Y (PRINT) / AF	FILIATION:	SA	MPLER(S) SIG	NATURES	S:			AT: 6900	SAMPLING ENDED AT:	1916
PUMP OR T DEPTH IN V		ノカ		MPLE PUMP OW RATE (mL	per minute	=): 300		TUBING MATERIAL	CODE:	PR	•
TELD DEC	ONTAMINATIO	N: Y (N)		LD-FILTERED ration Equipme		N FILT	ER SIZE:	_ <b></b> µm	DUPLICATE:	Υ	<u></u> 2
	SPECIF	ICATION			SAM	IPLE PRESER	RVATION		INTENDED		AMPLING
SAMPLE ID	CONTAIN	MATERI E AL CODE	VOLUME	PRESERVA USED		TOTAL VO		FINAL pH	ANALYSIS AND METHOD		CODE
		1.4	AS	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	(1)-1	7 , FIU:	5				<u> </u>
		FR	25000	NM\$	16				6010 -	FIL ISER	<u>a</u>
										,	
								*			
REMARKS:	7/=5.1	V. 112	EA ( 1. 1. 18)	11/114	~//	· 11.20.4.4	16-783	ASSOR	cition lot	B # = A	5L-B-68
O J /C/^		AG = Amber G	/\to \( \lambda \) \( \lambda	Clear Glass;		IKBLEX/ olyethylene;		<u>*                                     </u>	S = Silicone; T = T		her (Specify)
AMPLING/	PURGING A	APP = After Peri		B = Baile	r, BF	P = Bladder Pu aw Method (Ti	ımp;	ESP = Electric S	Submersible Pump; VT = Vacuum Trap;	PP = Perista O = Other	

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

<sup>2.</sup> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

#### DEP-SOP-001/01 FS 2200 Groundwater Sampling

### Form FD 9000-24

### **GROUNDWATER SAMPLING LOG**

SAMPLE D: C-U-23  PURRING WELL NUM: 5U-25  SAMPLE D: C-U-23  PURRING DATA  WELL SCREEN INTERVAL  DEPTH For feet to fee	FACILITY NAME: I	SARASO	THE CUT	M C	SWO	c	FACILITY LOCATION:					
WELL CAPACTY (Gallons Per Pool). 0.75 - 0.02 - 1 - 0.00 - 1 - 0.00 - 1 - 0.00 -							W-2"	<b>5</b>		DATE:	23/09	
WELL CAPACITY (Gallons Per Fool): 0.75" = 0.02: 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.07; 4" = 0.85; 5" = 1.02; 6" = 0.016; DISSOLVED TURING CAPACITY (Gallons Per Fool): 0.75" = 0.002; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.07; 4" = 0.85; 5" = 1.02; 5" = 0.016; DISSOLVED TURING CAPACITY (Gallons Per Fool): 0.75" = 0.002; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.07; 4" = 0.85; 5" = 1.02; 5" = 1.02; 5" = 0.016; DISSOLVED TURING CAPACITY (Gallons Per Fool): 0.75" = 0.002; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.07; 4" = 0.85; 5" = 1.02; 5" = 1.02; 5" = 0.016; DISSOLVED TURING CAPACITY (Gallons Per Fool): 0.75" = 0.002; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.07; 4" = 0.85; 5" = 1.02; 5" = 1.02; 5" = 0.016; DISSOLVED TURING CAPACITY (Gallons Per Fool): 0.75" = 0.002; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.07; 4" = 0.85; 5" = 1.02; 5" = 1.02; 5" = 0.016; DISSOLVED TURING CAPACITY (Gallons Per Fool): 0.75" = 0.002; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.07; 4" = 0.85; 5" = 1.02; 5" = 1.02; 5" = 0.016; DISSOLVED TURING CAPACITY (Gallons Per Fool): 0.75" = 0.002; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.07; 4" = 0.85; 5" = 1.02; 5" = 1.02; 5" = 0.019; 5" =	-									· · · · · ·	<i>q</i>	
Could be policible	DIAMETER		DIAMETER (in		DEPTH:	feet to	feet	STATIC D TO WATE	EPTH R (feet): 2_SS	PURGE PUMP T OR BAILER:	YPE DO	)
CONTROL   Facility   Control   Con			1 WELL VOLU	ME = (TOTA = (	LWELL DEF 7,4	_					= 1.8	gallons
INITIAL PUMP OR TUBING   PURGE   PUR			IRGE: 1 EQUIP			•		ITY X	TUBING LENGT	H) + FLOW CEL	L VOLUME	13 gallons
TIME			3 /3		OR TUBING	· · · · · ·	PURGIN	NG	PURGING	}	TOTAL VOLUI	ME
		VOLUME PURGED	CUMUL. VOLUME PURGED	PURGE RATE	DEPTH TO WATER	pH (standard	TEMP.	COND. (µmhos/c m or	DISSOLVED OXYGEN (circle mg/L or	TURBIDITY	COLOR	ODOR
12   1   1   1   1   1   1   1   1   1	1510	1	1.9	.05	7.78	6.66	23.3		0.32	144	COPIE	NOWE
WELL CAPACITY (Galions Per Fool): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.08; 2" = 0.18; 3" = 0.37; 4" = 0.85; 5" = 1.02; 6" = 1.47; 12" = 5.88  TUBING INSIDE DIA. CAPACITY (Galions Per Fool): 18" = 0.0008; 316" = 0.0014; 114" = 0.0026; 516" = 0.004; 316" = 0.0016; 516" = 0.0016;	1015	1./	2.0	*	J1			11	0,29	10.2	/1	13
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 TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0006; 3/16" = 0.0014; 04" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.016  SAMPLING DATA  SAMPLED BY (PRINT) / AFFILIATION:  SAMPLED BY (PRINT) / AFFILIATION:  SAMPLE PUMP POR TUBING  PUMP OR TUBING  SAMPLE (Lifect): / 3  FLOW RATE (mL per minute): 5000  TUBING  MATERIAL CODE: PS  PIELD-FILTERED: Y FILTER SIZE: µm DUPLICATE: Y  SAMPLE CONTAINER  SAMPLE PRESERVATION  SAMPLE PRESERVATION  SAMPLE PRESERVATION  SAMPLE PRESERVATION  SAMPLE PRESERVATION  RS  ANAPLE PRESERVATION  ANALYSIS AND/OR EQUIPMENT  CODE  A DED IN FIELD (mL)  ANALYSIS AND/OR EQUIPMENT  CODE  A DED IN FIELD (mL)  ANALYSIS AND/OR EQUIPMENT  CODE  A DED IN FIELD (mL)  ANALYSIS AND/OR ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANAL	1070	1.2	2./	1/	"	6-67	33.6	**	0.20	2.34	"	11
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 TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0006; 3/16" = 0.0014; 04" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.016  SAMPLING DATA  SAMPLED BY (PRINT) / AFFILIATION:  SAMPLED BY (PRINT) / AFFILIATION:  SAMPLE PUMP POR TUBING  PUMP OR TUBING  SAMPLE (Lifect): / 3  FLOW RATE (mL per minute): 5000  TUBING  MATERIAL CODE: PS  PIELD-FILTERED: Y FILTER SIZE: µm DUPLICATE: Y  SAMPLE CONTAINER  SAMPLE PRESERVATION  SAMPLE PRESERVATION  SAMPLE PRESERVATION  SAMPLE PRESERVATION  SAMPLE PRESERVATION  RS  ANAPLE PRESERVATION  ANALYSIS AND/OR EQUIPMENT  CODE  A DED IN FIELD (mL)  ANALYSIS AND/OR EQUIPMENT  CODE  A DED IN FIELD (mL)  ANALYSIS AND/OR EQUIPMENT  CODE  A DED IN FIELD (mL)  ANALYSIS AND/OR ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANAL	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,											
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 TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0006; 3/16" = 0.0014; 04" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.016  SAMPLING DATA  SAMPLED BY (PRINT) / AFFILIATION:  SAMPLED BY (PRINT) / AFFILIATION:  SAMPLE PUMP POR TUBING  PUMP OR TUBING  SAMPLE (Lifect): / 3  FLOW RATE (mL per minute): 5000  TUBING  MATERIAL CODE: PS  PIELD-FILTERED: Y FILTER SIZE: µm DUPLICATE: Y  SAMPLE CONTAINER  SAMPLE PRESERVATION  SAMPLE PRESERVATION  SAMPLE PRESERVATION  SAMPLE PRESERVATION  SAMPLE PRESERVATION  RS  ANAPLE PRESERVATION  ANALYSIS AND/OR EQUIPMENT  CODE  A DED IN FIELD (mL)  ANALYSIS AND/OR EQUIPMENT  CODE  A DED IN FIELD (mL)  ANALYSIS AND/OR EQUIPMENT  CODE  A DED IN FIELD (mL)  ANALYSIS AND/OR ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANAL												
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 TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0006; 3/16" = 0.0014; 04" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.016  SAMPLING DATA  SAMPLED BY (PRINT) / AFFILIATION:  SAMPLED BY (PRINT) / AFFILIATION:  SAMPLE PUMP POR TUBING  PUMP OR TUBING  SAMPLE (Lifect): / 3  FLOW RATE (mL per minute): 5000  TUBING  MATERIAL CODE: PS  PIELD-FILTERED: Y FILTER SIZE: µm DUPLICATE: Y  SAMPLE CONTAINER  SAMPLE PRESERVATION  SAMPLE PRESERVATION  SAMPLE PRESERVATION  SAMPLE PRESERVATION  SAMPLE PRESERVATION  RS  ANAPLE PRESERVATION  ANALYSIS AND/OR EQUIPMENT  CODE  A DED IN FIELD (mL)  ANALYSIS AND/OR EQUIPMENT  CODE  A DED IN FIELD (mL)  ANALYSIS AND/OR EQUIPMENT  CODE  A DED IN FIELD (mL)  ANALYSIS AND/OR ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANAL												
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 TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0006; 3/16" = 0.0014; 04" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.016  SAMPLING DATA  SAMPLED BY (PRINT) / AFFILIATION:  SAMPLED BY (PRINT) / AFFILIATION:  SAMPLE PUMP POR TUBING  PUMP OR TUBING  SAMPLE (Lifect): / 3  FLOW RATE (mL per minute): 5000  TUBING  MATERIAL CODE: PS  PIELD-FILTERED: Y FILTER SIZE: µm DUPLICATE: Y  SAMPLE CONTAINER  SAMPLE PRESERVATION  SAMPLE PRESERVATION  SAMPLE PRESERVATION  SAMPLE PRESERVATION  SAMPLE PRESERVATION  RS  ANAPLE PRESERVATION  ANALYSIS AND/OR EQUIPMENT  CODE  A DED IN FIELD (mL)  ANALYSIS AND/OR EQUIPMENT  CODE  A DED IN FIELD (mL)  ANALYSIS AND/OR EQUIPMENT  CODE  A DED IN FIELD (mL)  ANALYSIS AND/OR ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANALYSIS ANAL					••••	OAP	2 -70	3.3				
TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016   SAMPLING DATA						FC2	<u> </u>	8 M.	6/2.			
TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016   SAMPLING DATA	WELL CAF	ACITY (Gallons	Per Foot): 0.7:	5" = 0.02:	1" = 0.04:	1.25" = 0.0	6: <b>2" =</b> 0.1	6: 3" = 0.	37: 4" = 0.65:	5" = 1.02; 6	" = 1,47; 12	2" = 5.88
SAMPLED BY (PRINT) / AFFILIATION:  SAMPLER(S) SIGNATURES:  SAMPLING INITIATED AT: 1820 SAMPLING ENDED AT: 2838  PUMP OR TUBING DEPTH IN WELL (feet): 13 SAMPLE PUMP FLOW RATE (mL per minute): 500 MATERIAL CODE:  FIELD-FILTERED: Y FILTER SIZE: Jrm DUPLICATE: Y  SAMPLE CONTAINER SPECIFICATION  SAMPLE PRESERVATION  SAMPLE ID CONTAINER RS CODE  AL CODE  PRESERVATIVE USED  ADDED IN FIELD (mL)  ANALYSIS AND/OR METHOD  CODE  ADDED IN FIELD (mL)  ANALYSIS AND/OR METHOD  CODE  ANALYSIS AND/OR METHOD  CODE  ANALYSIS AND/OR METHOD  CODE  REMARKS:  STICKE = 4/6' * MASSURS WITHACH MATERI  SAMPLER(S) SIGNATURES:  SAMPLING ENDED AT: 2830  MATERIA CODE:  PRESERVATIVE TOTAL VOL FINAL PH  ANALYSIS AND/OR METHOD  CODE  ANALYSIS AND/OR METHOD  CODE  REMARKS:  STICKE = 4/6' * MASSURS WITHACH MATERI  SAMPLER(S) SIGNATURES:  SAMPLING ENDED AT: 2830  AMPLING ENDED AT: 2830  ANALYSIS AND/OR METHOD  CODE  SAMPLING ENDED AT: 2830  ANALYSIS AND/OR METHOD  CODE  ANALYSIS AND/OR METHOD  CODE  ANALYSIS AND/OR METHOD  ANALYSIS AND/OR METHOD  CODE  ANALYSIS AND/OR METHOD  ANALYSIS AND/OR METHOD  CODE  ANALYSIS AND/OR METHOD  A						= 0.0014;	1/4" = 0.002	26; 5/16"		0.006; 1/2" =	= 0.010; 5/8	i" = 0.016
PUMP OR TUBING DEPTH IN WELL (feet): 13  SAMPLE PUMP FLOW RATE (mL per minute): 5700  FIELD DECONTAMINATION: Y N FILTER SIZE:mm DUPLICATE: Y M SPECIFICATION SAMPLE CONTAINER SPECIFICATION SAMPLE ID CONTAINE RS CODE  1 2500 PR	SAMPLED	BY (PRINT) / AF	FILIATION:	SA	MPLER(S) S			AIA	SAMBLING		SAMPLING	
FIELD DECONTAMINATION: Y N FILTERED: Y FILTER SIZE: µm DUPLICATE: Y N FILTER SIZE: µm DUPLICATE: Y N FILTER SIZE: µm DUPLICATE: Y N FILTER SIZE: µm DUPLICATE: Y N FILTER SIZE: µm DUPLICATE: Y N FILTER SIZE: µm DUPLICATE: Y N FILTER SIZE: µm DUPLICATE: Y N SAMPLE PRESERVATION  SAMPLE ID CONTAINE RS PECIFICATION MATERIAL CODE: PFESERVATION SAMPLE PRESERVATION SAMPLE PRESERVATION FINAL PH MATERIAL CODE: PFESERVATION SAMPLE PRESERVATION SAMPLE PRESERVATION SAMPLE PRESERVATION METHOD CODE  1 2594 FB N TAIC GOIO (AS \$ FC)  1 2594 FB N TAIC GOIO (AS \$ FC)  1 2594 FB N TAIC GOIO (AS \$ FC)  1 2594 FB N TAIC GOIO (AS \$ FC)  1 2594 FB N TAIC GOIO (AS \$ FC)  1 2594 FB N TAIC GOIO (AS \$ FC)  1 2594 FB N TAIC GOIO (AS \$ FC)  1 2594 FB N TAIC GOIO (AS \$ FC)  1 2594 FB N TAIC GOIO (AS \$ FC)  1 2594 FB N TAIC GOIO (AS \$ FC)  1 2594 FB N TAIC GOIO (AS \$ FC)			<u> </u>						INITIATED AT:	12020	ENDED AT:	<u> ୬୪.୬୪</u>
SAMPLE ID CONTAINE SAMPLE ID CONTAINE RS CODE  PRESERVATIVE USED  TOTAL VOL ADDED IN FIELD (mL)  PRESERVATIVE USED  TOTAL VOL ADDED IN FIELD (mL)  PRESERVATIVE USED  TOTAL VOL ADDED IN FIELD (mL) ANALYSIS AND/OR METHOD  ANALYSIS AND/OR METHOD  ANALYSIS AND/OR METHOD  TOTAL			/3	FL	OW RATE (m	L per minute	- <u> </u>		MATERIAL COE	)E: D		
SAMPLE ID CODE CODE RS CODE VOLUME PRESERVATIVE USED TOTAL VOL ADDED IN FIELD (mL) FINAL PH SOUR TOSS AMPLING EQUIPMENT CODE  1 252M FR N/TAIC - GOVO (AS FC)  2 PE 500K TOSS  3 Ph 250K TOSS  3 Ph 250K TOSS  SAMPLING EQUIPMENT CODE  NATIONAL FINAL PH NETHOD  ANALYSIS AND/OR METHOD  CODE  SAMPLING EQUIPMENT CODE  TOSS  TOSS  AWARDE ID CODE  SAMPLING EQUIPMENT CODE  SAMPLING EQUIPMENT CODE  TOSS  TOSS  STICKT = 4.6. ** MRASURR N/HACH MRTRL.	FIELD DEC	ONTAMINATIO	N: Y 🚺				S FILT	ER SIZE:	μm	DUPLICATE:	Y (	<u>s</u>
SAMPLE ID CONTAINE RS CODE VOLUME VOLUME USED ADDED IN FIELD (mL) PH METHOD CODE  1 250M PR NITAIC - GOID (AS FC)  2 PR 530 ML 1- SOUL ADDED IN FIELD (mL) PH METHOD CODE  1 250M PR NITAIC - GOID (AS FC)  3 Ph 250M II- SOUL ADDED IN FIELD (mL) PH METHOD CODE  REMARKS:  STICKT = 4'6' ** MRASUARS W/ HACH METRL.						SAM	IPLE PRESEI	NOITAVS				
1 252M FR NTTAIC GOID (ASSFC) 2 'PR 550M TOS 3 Ph 250M H, SON MMGNA  REMARKS: 5TICKN = 4'6' * MRASUAR MATRI.		CONTAIN	IE AL	VOLUME								
REMARKS: STICKIN = 4'6' + MRASUARD W/HACH METER.		1	25541	PR	NI	X1C	` _		-	6010 4	45 5 FC	2)
REMARKS: STICKN = 4'6' & MRASURD W/HACH METER.		2	1. 37.5	580 IK	<u> </u>					70S		a ,
STICKE = 46. 7 MRASURS W/HACH METER.	****	3	_ Ph	250ML	1/250	24				rungs	W	
STICKE = 46. 7 MRASURS W/HACH METER.		_		<u> </u>	-						,	
STICKE = 4.6. * MRASURES W/HACH METER.	AND THE PARTY OF T			1	1							
STICKE = 46. 7 MRASURS W/HACH METER.					1							
			/ ¥	MR.	· I PA	w/	11-11	116-1	·BD.	AL-MORPHY AND REPORT		• .
		- 1		Blass; CG =	Clear Glass		olyethylene;	, ,, ,		Silicone; T = Te	flon; O = Ot	ther (Specify)
SAMPLING/PURGING APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump EQUIPMENT CODES: RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)	SAMPLING	/PURGING /	APP = After Peris	staltic Pump;	B = Ba	iler; BF	= Bladder Po	ump; Es	SP = Electric Subn	nersible Pump;	PP = Perista	altic Pump

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

<sup>2.</sup> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

SITE NAME:	NELL NO: GW-24 SAMPLE ID: GW-24 DATE: 4/22/09													
WELL NO:			<b>-</b>	1		SW-				12210	<u> </u>			
		•				SING DA	TA			7				
WELL DIAMETER WELL VOL			ER (inches):	`/4   DEP	L SCREEN TH: STA	et to \ 🛪 f	STATIC ( eet TO WAT	DEPTH ER (feet):	39 OR BA	EPUMPTYPE AILER: Per	staltic			
(only fill out	if applicable)		= (	18	feet -	9.39	feet) X	016	gallons/foot		y galions			
(only fill out	if applicable)	URGE: 1 EQUI	PMENT VOL.			BING CAPACI UO 26 gallo	:	UBING LENGTH)	+ FLOW CELL		.13 <sub>gallons</sub>			
INITIAL PU	MP OR TUBIN	G i	FINAL PUM	P OR TUBING		PURGIN	IG ,	PURGING	-	TOTAL VOLUM	45			
DEPTH IN	WELL (feet):	12	DEPTH IN V	T	12	INITIATE	D AT: 10 - 3	S ENDED AT:	11:07	PURGED (gallo	ins): 4,6			
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm <u>or</u> µS/cm	OXYGEN (circle units) mg/L <u>or</u> % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)			
10:51	Z,	72	0.125	9.57	710	23,72	1668	2,15	6.55	Lt. Yell	None			
11.05	0.4	3	0.)	9.61	(0.88	23.60	1678	1.21	2.02		<del>                                     </del>			
11,08	0.3	3.4	0.1	9.60	6.84	23,54	1682	0,97	0.85	<del>  </del>	<del>                                     </del>			
11:11	11-11 0.3 4.0 0.1 9.59 6.71 23.39 1682 0.81 2.06 V													
11:14														
11;12														
TUBING IN	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  TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016  PURGING EQUIPMENT CODES: B = Bailer: BP = Bladder Pump: ESP = Electric Submersible Pump: PP = Peristaltic Pump: O = Other (Specify)													
PURGING	EQUIPMENT C	ODES: B	Bailer; B	P = Bladder P		SP = Electric	Submersible Pu	mp; PP=Pe	ristaltic Pump;	O = Other	(Specify)			
SAMPLED	Bay		BStJ	SAMPLER(S)			2/	SAMPLING INITIATED AT	: 11/17	SAMPLING ENDED AT:	11:25			
PUMP OR T	TUBING WELL (feet):	12		TUBING MATERIAL CO	DDE:	PP		-FILTERED: Y	De:	FILTER SIZE	<u></u> µm			
FIELD DEC	ONTAMINATIO	ON: PUMF	YN	)	TUBING	Y N(re	placed)	DUPLICATE:	Y	₩				
SAMP SAMPLE	LE CONTAINE	R SPECIFICAT		PRESERVATI		ESERVATIO	N FINAL	INTENDE ANALYSIS AN			AMPLE PUMP			
	CONTAINERS	CODE	VOLUME	USED		D IN FIELD (r		METHO	). C	ODE (n	nL per minute)			
								<del> </del>	<u>}</u>	7 17	_ Z00			
5ee	Chain	of C	25+00	1. 6	0 1	1122	109							
26.6	CITOCI		, , , , ,	3 7	3,	112-	/  -							
			_											
DEMARKS										$\forall$	$\sqrt{}$			
REMARKS:		ORP		-15	2.9		Fe 2	+ = 2	.6					
MATERIAL	CODES:	AG = Amber G		Clear Glass;	PE ≍ Poly	ethylene;	PP = Polypropyl		ne; T = Teflo	n; O = Othe	r (Specify)			
SAMPLING	EQUIPMENT		PP = After Peri PP = Reverse	istaitic Pump; Flow Peristal	B = Bai tic Pump;		Bladder Pump; Method (Tubing		c Submersible O = Other (S					

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH:  $\pm$  0.2 units Temperature:  $\pm$  0.2 °C Specific Conductance:  $\pm$  5% Dissolved Oxygen: all readings  $\leq$  20% saturation (see Table FS 2200-2); optionally,  $\pm$  0.2 mg/L or  $\pm$  10% (whichever is greater) Turbidity: all readings  $\leq$  20 NTU; optionally  $\pm$  5 NTU or  $\pm$  10% (whichever is greater)

Revision Date: February 12, 2009

SITE NAME:	Saras	oła C	nt rec	CCSW	OC S	ITE OCATION:	Saras	iota Ca	PFACE	Land	F:II			
WELL NO	: 6	W-25		SAMPLE I		6W~			DATE: 4	12210				
					PUR	SING DA	TA							
			ER (inches):	<sup>1</sup> /다   DEPT	H: 🏌 fe	INTERVAL eet to ( )	eet TO WAT	ER (feet): 🗶	(271 or ba	EPUMPTYPE	:staltic			
(only fill or	at if applicable)		<b>=</b> (	18 6	eet –	8.8	7 feet) X	WELL CAPAC	ITY gallons/foot	= 4	6 gallons			
EQUIPME (only fill ou	NT VOLUME P It if applicable)	URGE: 1 EQU	PMENT VOL.	= PUMP VOLU		BING CAPACI	TY X T	UBING LENGTH	+ FLOW CELL	VOLUME	_			
1	JMP OR TUBIN	G   }	FINAL PUM DEPTH IN V	P OR TUBING	11	BLIBGIA		1		gallons = 0 FOTAL VOLUM PURGED (gallo	いろ gallons			
DEI TITTI	VVLLL (leet).	CUMUL.	DEFIRING	DEPTH	• • •	INITIATI	COND.	DISSOLVED	13 -33   1	PURGED (gallo	ns): ¬ 、 /			
TIME	VOLUME PURGED (gallons)	VOLUME PURGED (gallons)	PURGE RATE (gpm)	I to I	pH (standard units)	TEMP. (°C)	(circle units) μmhos/cm or μS/cm	OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)			
13:26	<u> </u>	2_	0.125	9.19	2.97	2343	1323	2,19	18,9	5 It Yell	None			
13:34	0 (	3	0.1	19.19	0.84	23.11	1310	0.87	17.5					
13:40		3.4	(0)	9.17	ڲػ؈	23.04	1305	0.47	1.34					
13:46	0.3	13,7 12,D	0.)	9.21	0.59	23.09	1306 1306	0.45	19,16	<del>                                     </del>				
13:44	0.3	47	0.1	919	2.70	23.14	1305	0.49	12.7	<del>                                     </del>				
13152	3:52 0.3 4.6 0.1 9.19 6.84 23.03 1304 0.40 16 L+Bm													
13:55	13:55 0.3 4.9 0.1 9.18 6.82 23.04 1303 0.39 16 V													
WELL CAI	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													
	TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016													
, , , , , , , , , , , , , , , , , , , ,	PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)  SAMPLING DATA													
	SAMPLING DATA  SAMPLED BY (PRINT) / AFFILIATION: SAMPLER(S): SAMPLING INITIATED AT: 13:55 SAMPLING INITIATED AT: 13:55 ENDED AT: 14:25													
PUMP OR		11		TUBING MATERIAL COD	)F:	PP		-FILTERED: Y on Equipment Typ		FILTER SIZE:	μm			
FIELD DEC	CONTAMINATIO	ON: PUME			TUBING	Y (N)(re	placed)	DUPLICATE:		N				
	PLE CONTAINE		ION	S/	MPLE PR	ESERVATIO	N	INTENDE			MPLE PUMP			
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME F	PRESERVATIVE USED		OTAL VOL D IN FIELD (r	FINAL nL) pH	ANALYSIS AN METHOI	o c	ODE (m	LOW RATE L per minute)			
		<u> </u>							<u> </u>	PP 2	150			
Seo.	chain	of c	50t2c	15 Fo	<u>,                                    </u>	+1221	0 😭	_			_			
				<u></u>			<u> </u>				1			
DEMARKS	DEMARKS:													
REMARKS	ORP = -112:0 / Fe 2+= 2.8													
MATERIAL	. CODES:	AG = Amber G	lass; CG = C	Clear Glass;	PE = Poly	/	PP = Polypropyl			n; <b>O</b> = Other	(Specify)			
SAMPLING	EQUIPMENT		P = After Peris		B = Bail	er; BP =	Bladder Pump; Method (Tubing	ESP = Electri	c Submersible F	oump;				
IOTEO: 4		la nat sanat					carea (190119	Cours Diani,	<u> </u>	Poorty)				

OTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

pH:  $\pm$  0.2 units Temperature:  $\pm$  0.2 °C Specific Conductance:  $\pm$  5% Dissolved Oxygen: all readings  $\leq$  20% saturation (see Table FS 2200-2); optionally,  $\pm$  0.2 mg/L or  $\pm$  10% (whichever is greater) Turbidity: all readings  $\leq$  20 NTU; optionally  $\pm$  5 NTU or  $\pm$  10% (whichever is greater)

Revision Date: February 12, 2009

<sup>2.</sup> STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

NAME:	Saras	10ta (	[05/t=	1 CCSW		CATION:	Saro	isota C	wnty	Land-f	"()			
WELL NO:	-		6	SAMPLE	ID: C	5W-	-26		DATE: 4	1721	09			
					PURC	ING DA	TA		<del>-</del>		• • • • • • • • • • • • • • • • • • • •			
			TER (inches); \	AL WELL DEP	LSCREEN TH: \ O fe TH - STA	et to 20 f	STATIC I eet TO WATI O WATER) X	ER (feet): 4	&S∣orba		staltic			
l	NT VOLUME P	IBCE: 4 COU	= (	<u> 20</u>	feet -	9,85	feet) X	O.16 UBING LENGTH)	gallons/foot		gallons			
	t if applicable)	orde. 1 EQU		_		0026gallo		に feet)			N3 gallons			
	MP OR TUBIN WELL (feet):	12	FINAL PUM DEPTH IN V	P OR TUBING VELL (feet):	12	PURGIN INITIATE	G DAT: []'S[		12:35 P	OTAL VOLUM URGED (gallo	Ens): 4,90			
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm <u>or</u> µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)			
12.06	Z	2	0.125	10.12	6.57	23,43	1178	2.01	8,64	Lt Brn	None			
12:16	<u> </u>	3	0.)	10.18	<u>6.43</u>	23.41	1174	1.74	[2.]					
12:20	0.4	3.4	(,0	10.20	6.39	23.38	1172	1.59	2,14					
12:23	0.3	3.7	0.)	10.2	6.34	23,47	12.4)	1.66	3.34					
12:26	2:29 0.3 4.3 0.1 10.21 6.35 23.65 12.74 1.08 1.15													
	2.32 0,3 4.6 0.1 10,20 6.37 23.71 1277 1.05 2.30													
	2.53 013 4,7 0.1 10.00 (0.31 23.10 1211 1.04 2.11 1.04													
	TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016													
PURGING	PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)													
CAMBIED	SAMPLING DATA													
Bra	SAMPLED BY (PRINT) / AFFILIATION: SAMPLER(S) SIGNATURE(S):  SAMPLED BY (PRINT) / AFFILIATION:  SAMPLING INITIATED AT: 12-35 ENDED AT: 12-35 ENDED AT: 12-45													
PUMP OR DEPTH IN	TUBING WELL (feet):	12	_   `	TUBING MATERIAL CO	DE: PP			-FILTERED: Y on Equipment Typ	ne:(N)	FILTER SIZE:	им			
FIELD DEC	ONTAMINATIO	ON: PUM	P Y (N	)	TUBING	Y (N)	placed)	DUPLICATE:	Υ	(A)				
	LE CONTAINE					ESERVATIO		INTENDE ANALYSIS AN			MPLE PUMP LOW RATE			
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATI USED		OTAL VOL D IN FIELD (1	FINAL nL) pH	METHO	) C	ODE (m	L per minute)			
									A	PP -	2 150			
	- C - C -					7.1.	- 100							
see	chai	nof	دی ع	100 y	+05	4/2	2/09							
											<u> </u>			
REMARKS:	REMARKS: $000 - 012 / 602 + 24$													
		08 8		-91	.2	<u>/</u> †	-2 -7	=2	<u>,                                    </u>					
MATERIAL		AG = Amber (		Clear Glass;	PE = Poly		PP = Polypropy		· · · · · · · · · · · · · · · · · · ·	·	(Specify)			
SAMPLING	EQUIPMENT		PP = After Per FPP = Reverse	istaltic Pump; Flow Peristali	B = Bai tic Pump;		Bladder Pump; Method (Tubing		c Submersible F O = Other (S					

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

# APPENDIX D: SURFACE WATER SAMPLING LOGS

NAME:	SNAS	OTA .	CVT4	(5 GV	31	SITE LOCATION:	Pa	1 30		_	
WELL NO:	Bon			SAMPLI	•			,	DATE: 4	419	
					PUR	GING D	ATA	·····		7,0	
DIAMETER (		TUBING DIAMETER (	(inches):	DEPTH:	CREEN INTE	/A-feet	STATIC E	R (feet):	PURGE PUMP OR BAILER:	XE.	
only fill out i	applicable)	NA	= (		feet		feet)	X WELL C	APACITY gallons/foo	ot -	aallaa
EQUIPMENT (only fill out it	VOLUME PU	RGE: 1 EQUI	PMENT VOL.	= PUMP VOI	LUME + (TU	BING CAPAC	ITY X		NGTH) + FLOW CE		gallon
		NA			allons + (	gal	lons/foot X		feet) +	gallons =	gallor
DEPTH IN W	P OR TUBING ELL (feet):	NH CUMUL	FINAL PUM DEPTH IN V		Nt	PURGII	NG ED AT:		DAT:/230	TOTAL VOLUM PURGED (galle	ME ons):3
TIME	VOLUME PURGED (gallons)	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVE OXYGEN (circle mg/L % saturation	or (NTUs)		ODOR (describe)
1215	16	7e 11	BALL		8.70	25.1	102)	7.36		1 Vovos	Non
/225									42.5		
						ORP =	42.1				
						Fe 24	7 O				
					- Alva						
		,	,								
WELL CAPAC	CITY (Gallons I	Per Foot): 0.7	<b>5"</b> = 0.02:	1" = 0.04;	<b>1.25</b> " = 0.00	6; <b>2"</b> = 0.10	6; <b>3"</b> = 0.3	37; <b>4"</b> = 0.65	5; <b>5"</b> = 1.02; <b>6</b>	)	
TUBING INSI	DE DÍA. CAPA	CITY (Gal./Ft.)	1/8" = 0.00	06; 3/16"	= 0.0014;	1/4" = 0.002 LING DA	6; <b>5/16"</b> =				= 5.88 = 0.016
SAMPLED BY	(PRINT) / AFF	FILIATION:	SAI	MPLER(S) S			(IA				
SA) PUMP OR TU		108/		Sh	n fl	eles			1230	SAMPLING ENDED AT:	135
DEPTH IN WE	LL (feet):		FLO	MPLE PUMP DW RATE (m)		100 /	4	TUBING MATERIAL CO	ODE:	٤	
FIELD DECON	ITAMINATION		Filtr	LD-FILTEREI ation Equipm	D: Y ent Type:	FÎLTI	ER SIZE:	µm	DUPLICATE:	Y	>
0.11015.10	SAMPLE CO SPECIFIO	CATION	T			PLE PRESER	VATION		INTENDED		MPLING
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERV USEI	ATIVE AD	TOTAL VOI DED IN FIELD		FlNAL pH	ANALYSIS AND METHOD		JIPMENT CODE
			AS	AT	- 8	ans	7				
									· · · · · · · · · · · · · · · · · · ·		
EMARKS:	1.0.	Cua A	. 1/-1-	., -	- 14 -						
IATERIAL CO		SIRS AG = Amber Gla		CH Clear Glass;	PF = Dal	<b>SIM</b> yethylene;	PP = Polypro	anulana: C	Ciliana T T	1	/0
AMPLING/PU QUIPMENT C	RGING AP	P = After Perist PP = Reverse F	taltic Pump;	B = Baile	r; BP =	= Bladder Pun v Method (Tub	np; ESP	= Electric Sub	Silicone; T = Tef mersible Pump; = Vacuum Trap;	PP = Peristalti O = Other (S	

2. Stabilization Criteria For range of variation of Last three consecutive readings (see FS 2212, section 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

<sup>1.</sup> The above do not constitute all of the information required by Chapter 62-160, F.A.C.

SITE NAME:	SALAS	STAC	NIC	15/1	20	SITE LOCATION:	P	nA 7	7	_	
WELL NO:	Pon	0 2		SAMPLE					DATE: 4/	19/19	
					PUR	GING D	ATA		70	7.07	
WELL DIAMETER	(inches):	TUBING DIAMETER	inches 25	WELL SO	REEN INTE		STATIC D	EPTH	PURGE PUMP	TYPE AA	,
WELL VOL	UME PURGE:	1 WELL VOL	UME = (TOTA	L WELL DEF	PTH - ST	ATIC DEPTH	TO WATER)	R (feet)	OR BAILER:		
only fill out	if applicable)	NA	= (		feet -		feet)		gallons/foo	ot =	L gollon
EQUIPMEN	IT VOLUME PU if applicable)	RGE: 1 EQUI	PMENT VOL. =	PUMP VOL	.UME + (TU	BING CAPAC	CITY X		GTH) + FLOW CE		' gallons
(oray am out	ii applicable)	12	. =	= ga	allons + (	gal	lons/foot X		feet) +	gallons =	gallon
	MP OR TUBING WELL (feet):	11/-	FINAL PUMP DEPTH IN W		B 1/1_	PURGI	NG	PURGIN		TOTAL VOLUM	ME of the
	<u> </u>	CUMÙL.		DEPTH	N/	INITIAT	ED AT: ///	DISSOLVED	AT: 1/4/5	PURGED (gallo	ons): 5 (4)
TIME	VOLUME PURGED (gallons)	VOLUME PURGED (gallons)	PURGE RATE (gpm)	TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	OXYGEN (circle mg/L o % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1130	16		4/180	1	8.44	23,3	898	7.91	26.27	+ JUDAZ	2825
1145							0.0		28.1		
					0	RP = .	-42.	0			
					1=	220	= 0				
					1			Y			
											• • • • • • • • • • • • • • • • • • • •
WELL CAPA TUBING INS	ACITY (Gallons I	Per Foot): 0.7 CITY (Gal./Ft.)	<b>5"</b> = 0.02; <b>1</b> : <b>1/8"</b> = 0.000	" = 0.04; 6: 3/16" :	<b>1.25"</b> = 0.06	6; <b>2"</b> = 0.1 <b>1/4"</b> = 0.002	6; <b>3"</b> = 0.3	7; <b>4"</b> = 0.65; 0.004; <b>3/8"</b>			= 5.88
					SAMP	LING DA		0.004, 0/6	- 0.000, 172	- 0.010, <b>3/6</b>	= 0.016
SAMPLED B	Y (PRINT) / AFF	FILIATION:	SAM	IPLER(S) SI	GNATURES	1 //	-	SAMPLING	1.01.00	SAMPLING	
PUMP OR T	III M	בעשי	24 500	PLE PUMP		44		INITIATED AT:	1145	ENDED AT:	150
DEPTH IN W			/ FLO	W RATE (mil	per minute		4	TUBING MATERIAL CO	DE:	PR	
FIELD DECC	NTAMINATION	Y 💇		D-FILTERED		ク FILT	EŔ SIZE:	μm	DUPLICATE:	Y 1	)
	SAMPLE CC SPECIFIC				SAMI	PLE PRESER	RVATION		INTENDED	SAN	MPLING
SAMPLE ID CODE	# CONTAINERS	MATERIAL	VOLUME	PRESERV. USE		TOTAL VO		FINAL	ANALYSIS AND/ METHOD		JIPMENT CODE
		, , , ,	AS	A		OND	- P	рН			
							-1				
		1.					_				
REMARKS:	<u> </u>	'A - 4	- A -	./							
ATERIAL C		BASUA G = Amber GI		/ HAC		KBIS		<u> </u>			
AMPLING/P QUIPMENT	URGING AP	P = After Peris		B = Baile	r; BP :	yethylene; = Bladder Pur		= Electric Subm		PP = Peristaltic	
TEC. 1 Th		-44"	iow i enstaile	r ump,	2141 - 2018A	v ivieuroa (Tu	bing Gravity D	rain); VT =	Vacuum Trap;	O = Other (Sp	pecify)

The above do not constitute all of the Information required by Chapter 62-160, F.A.C.
 Stabilization Criteria for range of variation of Last three consecutive readings (see FS 2212, section 3)

SITE NAME: ~	SNUSS	TH C	WIT	CISAI		SITE LOCATION:	Pres	0 3			
WELL NO	POV	<b>D</b> 3		SAMPLI		***************************************		<u> </u>	DATE:	1/2/20	
						GING DA	ATA			.//O //	
	R (inches):	TUBING DIAMETER	(inches):	DEPTH:	REEN INTE	feet	STATIC D	R (feet):		PTYPE PP	
only fill of	it if applicable)	V4	= (		feet -		feet)		CAPACITY gallons/fo	not -	
EQUIPME (only fill ou	NT VOLUME PU	IRGE: 1 EQUI	PMENT VOL	= PUMP VOI	-UME + (TUE	BING CAPAC	ITY X		ENGTH) + FLOW C		gallons
INITIAL DI	IMP OR TURBLE	14		_	allons + (		ons/foot X	м	feet) +	gallons =	gallons
	JMP OR TUBING WELL (feet):	NA		MP OR TUBING WELL (feet):	WF	PURGII INITIAT	NG ED AT:		ED AT: MON	TOTAL VOLUM PURGED (galle	ME ons): <b>2 44</b>
TIME	VOLUME PURGED (gallons)	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLV OXYGE (circle mg/ % saturati	N TURBIDIT L or (NTUs)		ODOR (describe)
0845	16	ALON	14A	1	8418	P.1	323	9.47	2 49.	to Nave	UNI
0355									48.4		
				Fa	- <del>-</del> - (						
				12/	-	1.2					
					•	•					
-											
											**
WELL CAP	ACITY (Gallons SIDE DIA. CAP	Per Foot): 0.7 ACITY (Gal./Ft.	'5" = 0.02; ): 1/8" = 0.0	1" = 0.04; 006; 3/16"	<b>1.25"</b> = 0.06 = 0.0014;	; <b>2"</b> = 0.1 <b>1/4"</b> = 0.002	6; <b>3"</b> = 0.0				' = 5.88 ' = 0.016
	BY (PRINT) / AF			AMPLER(S) SI	SAMP	LING DA				1	0.010
6		MUSS	0,	The second	· Kap			SAMPLING INITIATED A	T: 0900	SAMPLING ENDED AT:	Aar
PUMP OR T DEPTH IN V	TUBING WELL (feet):	L	A SA	MPLE PUMP OW RATE (m	L per minute)	100	MA	TUBING MATERIAL (	CODE:	PR	7703
FIELD DEC	ONTAMINATION		FII	ELD-FILTERE tration Equipm	D: Y		ER SÍZE:	μm	DUPLICATE:	Y Ø	
CAMPLEID	SAMPLE C	CATION				LE PRESER			INTENDED ANALYSIS AND	1	MPLING
SAMPLE ID CODE	CONTAINER	S CODE	VOLUME	PRESERV		TOTAL VO		FINAL pH	METHOD		JIPMENT CODE
			AS	AT	Po	D 7	7				
											~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
REMARKS:	+ URL	SUANS	1.1/1	Vact -	T)/4 0	.1.4	ATE!				,
MATERIAL		AG = Amber G	lass; CG =	Clear Glass;	PE = Poly	ethylene;	PP = Polypr	opylene; S	= Silicone; <b>T</b> = Te	eflon; <b>O</b> = Othe	er (Specify)
SAMPLING/ EQUIPMENT	T CODES: RF	PP = After Peris PP = Reverse	taltic Pump; Flow Peristal	<b>B</b> = Baile tic Pump;	er; BP = SM = Straw	Bladder Pun Method (Tub	np; ESF ping Gravity [	P = Electric Su Drain); V	ibmersible Pump; T = Vacuum Trap;	PP = Peristalti O = Other (S	

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH:  $\pm$  0.2 units Temperature:  $\pm$  0.2 °C Specific Conductance:  $\pm$  5% Dissolved Oxygen: all readings  $\leq$  20% saturation (see Table FS 2200-2); optionally,  $\pm$  0.2 mg/L or  $\pm$  10% (whichever is greater) Turbidity: all readings  $\leq$  20 NTU; optionally  $\pm$  5 NTU or  $\pm$  10% (whichever is greater)

U:\SO\OldG\HAZARD\FORMS\FDEP GW Sampling Form 2-1-04.doc

MMAKRA-1 945

SITE NAME:	5 DASS	TA	COINT	CLSMY	SITE LOCATION:	Por	13 4			
WELL NO:	POND	4		SAMPLE ID:	-			DATE: 4	0/19	····
					RGING DA	ATA			100	
	UME PURGE:	TUBING DIAMETER 1 WELL VOL	(inches).	WELL SCREEN INT DEPTH feet	to feet	STATIC DE TO WATER TO WATER)	(feet): A/A	PURGE PUMP OR BAILER: PACITY	TYPE	
EQUIPMEN	. II applicable) NT VOLUME PUI	NA	= (	feet - = PUMP VOLUME + (T		feet)	x	gallons/foo GTH) + FLOW CE		gallor
(only fill out	if applicable)	Vk		= gallons + (		ons/foot X		feet) +	gallons =	gallo
	MP OR TUBING WELL (feet):	NA	FINAL PUMI DEPTH IN V	P OR TUBING VELL (feet):	PURGIN INITIATI	IG ED AT:273	PURGIN ENDED	IG AT: <i>07:35</i>	TOTAL VOLUM PURGED (gallo	ME ons):3/4
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (ggm)	DEPTH pH TO (standard units)	d TEMP.	COND. (μπhos/cm or μS/cm)	DISSOLVED OXYGEN (circle mg/L o % saturation)	TURBIDITY (NTUs)	1	ODOR (describe
0750	1 GA		4/1PM	8.29	16.47	314	8.11	21.74	+ con	Wads
0800								19.2		
·										
				120	7.2	5)				
					4					
-										
			· · · · · · · · · · · · · · · · · · ·							
WELL CAPA TUBING INS	ACITY (Gallons F	Per Foot): <b>0.7</b> CITY (Gal./Ft.)	<b>5"</b> = 0.02; : <b>1/8"</b> = 0.00	06; <b>3/16"</b> = 0.0014;		5; <b>5/16"</b> = (	; <b>4"</b> = 0.65; 0.004; <b>3/8"</b>			= 5.88 = 0.016
SAMPLED B	Y (PRINT) / AFF	ILIATION:	SAI	MPLER(S) SIGNATURE	PLING DA		SAMPLING INITIATED AT:	ron .	SAMPLING ENDED AT:	00-
PUMP OR TO DEPTH IN W	UBING	NA		MPLE PUMP DW RATE (mL per minut	e): [00		TUBING	Car I	PA	805
	NTAMINATION:		FIE	LD-FILTERED: Y ation Equipment Type			MATERIAL COI μm	DUPLICATE:	Y	)
	SAMPLE CO SPECIFIC			SAN	MPLE PRESER	/ATION		INTENDED		MPLING
SAMPLE ID CODE	CONTAINERS		VOLUME		TOTAL VOL DDED IN FIELD		FINAL pH	ANALYSIS AND/ METHOD	1	ODE
		A	S A	T Paus	7					
EMARKS:	+ MRt	SOLAS	n/s	Who 4 -	48181	USTE	r&			
ATERIAL C		G = Amber Gla	ass; CG = 0			PP = Polyprop	oylene; <b>S</b> = S	ilicone; <b>T</b> = Tef	on: O = Other	r (Specify)
AMPLING/P QUIPMENT		P = After Perist P = Reverse F	altic Pump; low Peristaltic	B = Bailer; BP Pump; SM = Stra	= Bladder Pum w Method (Tub	p: ESP =	= Electric Subm		PP = Peristaltio	Pump

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

VELL NO:	5AR4SK BOND		COLL	SAMPLI		LOCATION:	POI	7.5	<u> </u>	DATE: ///	10/0	
	POND	<u> </u>		] 0,		SING DA	\ T A			DATE:	2101	
/ELL	. 11	TUBING	.25	WELL SO	REEN INTE		STATIC D	FPTH		PURGE PUMP	TVDE A.	
	R (inches)	DIAMETER	(inches):	DEPTH:	feet to	feet	TO WATE	R (feet)	P/A	OR BAILER:		
nly fill out	UME PURGE: t if applicable)	WELL VOL	UME = (IOIAL !	WELL DEF	PTH – STA	TIC DEPTH	TO WATER)	X W	ELL CAP	ACITY		
DUIPME	NT VOLUME PUF	RGE: 1 FOUL	PMENTVOL -	DI IMP VOI	feet -	INC CADAC	feet)			gallons/foo		gallons
nly fill out	t if applicable)	1/4	. M.Z.VI VOL					IUBIN	NG LENG	TH) + FLOW CEI	LL VOLUME	
		M	-		allons + (	gall	ons/foot X		!	feet) +	gallons =	gallon
	MP OR TUBING WELL (feet):	MA	FINAL PUMP DEPTH IN WE		NA	PURGII		1	PURGING		TOTAL VOLUM PURGED (gaile	
	VOLUME	CUMUL. VOLUME	PURGE	DEPTH	pН		COND.	DISS	OLVED		- ONGED (gain	Jils).
TIME	PURGED	PURGED	RATE	TO WATER	(standard units)	TEMP. (°C)	(µmhos/cm	OX (circle	YGEN mg/L or	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
(7)	(gallons)	(gallons)	(gpm)	(feet)	,		or μS/cm)		turation)			(describe)
20 C	1 GAC		21 WT	VA	8.82	20.71	301	10.	14	30.3	AMIZ	241
00										34.9*	<u>'</u>	
			- 00		21 _				****			
			OF	د څ	4.5							
			Fe.4	r = 4	)							
									•			
			*									
ELL CAP	ACITY (Gallons P SIDE DIA. CAPAC	er Foot): <b>0.7</b> CITY (Gal./Ft.)	'5" = 0.02; 1' ): 1/8" = 0.0006	' = 0.04; 3: <b>3/16"</b>	<b>1.25"</b> = 0.06; = 0.0014:	2" = 0.10		37; <b>4"</b> = 0.004;	= 0.65;			= 5.88
						ING DA		- 0.004,	3/0 -	0.000, 1/2 =	= 0.010; <b>5/8</b> "	' = 0.016
MPLED E	BY (PRINT) / AFF	ILIATION:	SAMI	PLER(S) SI	GNATORES:	1	-/	SAMPL	ING	_	SAMPLING	
MP OR T	MAG M	(V)	0444	_ l	Mes	M	w	INITIAT	ED AT:	1100	ENDED AT:	605
	VELL (feet):	NA	FLOV	PLE PUMP V RATE (mi	_ per minute):	10	0	TUBING	S NAL COD	E: 12		
LD DEC	ONTAMINATION:	Y		)-FILTEREI		FILTI	R SIZE:	μm		OUPLICATE:		7
-	SAMPLE CO			.o., Edarbii,		LE PRESER	VATION			INTENDED		
AMPLE ID	SPECIFIC.	MATERIAL	VOLUME	PRESERV	ATIVE	TOTAL VOI		FINAL		ANALYSIS AND/	OR EQI	MPLING JIPMENT
CODE	CONTAINERS	CODE		USEI		ED IN FIELD	) (mL)	pН		METHOD	(	CODE
		-	15	AT	Pol	10 /						
												***************************************
			1									
			<del> </del>									
1ARKS:	MRAS	Y AD	W/N	e#	7 1/2	of a Let	RTE					
<del>_</del> }	M. RAS	ULAD ULTIS	W/N	1= /4 VLGL	TILLE	HA THE	RTEL	5k		* 77481b	TTY NO	
ERIAL C		G = Amber Gl		PACE Par Glass; B = Baile	PE = Polye	AWH () ethylene; Bladder Pun	RTEL R TO PP = Polypro	opylene;	S = Sil		on; O = Other	r (Specify)

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

	TARASOT	M. CO	UNT!	(15W)	SITE LOCATION:	PO	NS 6	-		
WELL NO:	POUR	6		SAMPLE ID:				DATE: 4	1869	
14/51/		T			PURGING D				7 0 - 7	
WELL VOL	R (inches):	TUBING DIAMETER	(inches):	WELL SCREE	NINTERVAL  et to feet  STATIC DEPTH	TO WATER	ER (feet):	PURGE PUMP OR BAILER:	TYPE	
only fill out	if applicable)	NA	= (	feet	t <b>–</b>	feet)	) X	gallons/foo		gallor
(only fill out	if applicable)	IRGE: 1 EQUI	PMENT VOL. = =	PUMP VOLUME	E + (TUBING CAPA)	OITY X Ions/foot X	TUBING LEN	NGTH) + FLOW CE	LL VOLUME gallons =	
	MP OR TUBINO WELL (feet):		FINAL PUMP DEPTH IN WI	OR TUBING	PURGI	NG .	PURGI	ING	TOTAL VOLUM	galloi 1E 🕳 🐧
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED	PURGE RATE	DEPTH TO WATER (sta	pH TEMP.	COND. (µmhos/cm or µS/cm)	DISSOLVE OXYGEN (circle mg/L	D TURBIDITY	PURGED (gallo	ODOR (describe
1650	(ganons)	(gallons)	a/LPM	(feet)	27 25.5	368	% saturation /2.51	56.1	* Nach	1 Xere
1700								49.7		
			,							
				0	RP = -20	3.3				
					e 27 = 0					
-										
		· · · · · · · · · · · · · · · · · · ·								
NELL CAP	ACITY (Gallons SIDE DIA. CAPA	Per Foot): <b>0.7</b> <b>CITY</b> (Gal./Ft.)	5" = 0.02; 1' ): 1/8" = 0.000		" = 0.06; <b>2</b> " = 0.1 014; <b>1/4"</b> = 0.002	1 6; <b>3"</b> = 0.0 26; <b>5/16"</b> :				= 5.88 = 0.016
SAMPLED B	Y (PRINT) / AFI	FILIATION:	SAM	PLER(S) SIGNA	AMPLING DA	ATA				
VUMP OR T	GFV26	= MUD	>	PLE PUMP	n Mas		SAMPLING INITIATED AT	1700	SAMPLING ENDED AT:	705
DEPTH IN W		- <b>V</b> /4	FLOV	V RATE (mL per D-FILTERED: Y		SER SIZE:	TUBING MATERIAL CO µm		Ph	
	SAMPLE CO SPECIFIO	ONTAINER	Filtra	tion Equipment T				DUPLICATE:	Y Ø	MPLING
SAMPLE ID CODE	# CONTAINERS	MATERIAL	VOLUME	PRESERVATIVI USED		L	FINAL pH	ANALYSIS AND METHOD	OR EQU	IPMENT ODE
			AG	AT	POMO	7				
EMARKS:										
	MAS	VEXS	W/HA	# 7	VE WIM	BIRL	•			
ATERIAL C	ODES: A	AG = Amber Gl		ear Glass; PE	= Polyethylene;	PP = Polypr		Silicone; <b>T</b> = Tef	ion; O = Other	(Specify)
AMPLING/P QUIPMENT		P = After Perisi PP = Reverse F	taltic Pump; Flow Peristaltic	<b>B</b> = Bailer; Pump; <b>SM</b> :	BP = Bladder Pur = Straw Method (Tu	np; ESF bing Gravity [	P = Electric Sub Drain); VT	mersible Pump; = Vacuum Trap;	PP = Peristaltic O = Other (Sp	

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

### Form FD 9000-24

GROUNDWATER SAMPLING LOG

NAME:	5AX+50	DA 6	ast	2 CCSAL	SITE LOCATION:	PO	110	7		
WELL NO	PONE	ムフ		SAMPLE ID:		<b>-</b>		DATE:	4/2/20	7
				PUR	GING DA	TA			11212	<i>-</i>
WELL	1A	TUBING	. 25	WELL SCREEN INT				PURGE PUMP	TYPE	
DIAMETER WELL VOI	LUME PURGE:	1 WELL VOL	(inches): UME = (TOTA)	DEPTH: feet to WELL DEPTH - ST	feet	TO WATER	R (feet):	OR BAILER:	173	
only fill ou	t if applicable)	1/4			*		•	APACITY		
EQUIPME	NT VOLUME PU	RGE: 1 EQUI	= ( PMENT VOL. =	feet – PUMP VOLUME + (TU	IRING CAPACI	TY X		gallons/foo IGTH) + FLOW CEI		gallons
(only fill ou	t if applicable)	14	_				TOBING LEP		LL VOLUME	
INITIAL OL		<u>`</u>		gallons + (	galic	ons/foot X		feet) +	gallons =	gallons
	JMP OR TUBING WELL (feet):	VA	FINAL PUMP DEPTH IN WI		PURGIN	G D AT: <b>/4/</b>	PURGI	NG DAT! 500	TOTAL VOLUI	ME ons): <b>1.</b>
	VOLUME	CUMUL.		DEPTH DH	7	COND.	DISSOLVE		PURGED (gail	ons) L
TIME	VOLUME PURGED	VOLUME PURGED	PURGE RATE	WATER (standard	TEMP. (°C)	(μmhos/cm	OXYGEN (circle mg/L		COLOR	ODOR
1100	(gallons)	(gallons)	(gpm)	(feet) units)		or μS/cm)	% saturation		(describe)	(describe)
1500	1 SAE		41471	8.56	24.3	370	9.46	17.17	Nour	Lowh
					OP	P = _	2/.3			
					Fo	2+ 2	A M	2/1		
					16	-		76-		
									<del> </del>	
			<del>                                     </del>							
WELL CAP	ACITY (Gallons F	Per Foot): 0.7	5" = 0.02: 1	" = 0.04; 1.25" = 0.0	6; <b>2"</b> = 0.16	. 2" 20				
TUBING IN	SIDE DIA. CAPA	CITY (Gal./Ft.)	): <b>1/8"</b> = 0.000	6; <b>3/16"</b> = 0.0014;	1/4" = 0.0026	; <b>3"</b> = 0.3' ; <b>5/16"</b> =				" = 5.88 " = 0.016
CAMPLED	BY (PRINT) / AFF	THE LATION	1 0		LING DA	TA				
SAMPLED	TEA LA	-ILIATION:	SAM	PLER(S) SIGNATURES	5: A 12	1111	SAMPLING	1000	SAMPLING	
PUMP OR T	UBING	<u> </u>	SAM	PLE PUMP	7 /W		INITIATED AT	1300	ENDED AT: 2	505
DEPTH IN V		NA	FLO	N RATE (mL per minute			TUBING MATERIAL CO	DDE:		
FIELD DEC	ONTAMINATION	: Y 🚳		D-FILTERED: Y tion Equipment Type:	T FILTE	R SIZE:	μm	DUPLICATE:	Y	}
	SAMPLE CO				PLE PRESERV	/ATION		INTENDED		
SAMPLE ID	1	MATERIAL	VOLUME	PRESERVATIVE	TOTAL VOL		FINAL	ANALYSIS AND/	OR EQ	MPLING UIPMENT
CODE	CONTAINERS	S CODE			DED IN FIELD	(mL)	pH	METHOD		CODE
312			250 ML		2.50 ML			15 9 F	C 137	7
Pars ?	7							1324	MBITTA	人
								601	<b>'</b>	
REMARKS:			/							
*	MRASCA	33: u	// Klack	TURB	D142	TEK				
ATERIAL C		AG = Amber GI	ass; CG = CI			PP = Polypro	pylene; S =	Silicone; <b>T</b> = Tefl	on: <b>O</b> = Oth	er (Specify)
AMPLING/F		P = After Peris		B = Bailer; BP	= Bladder Pum w Method (Tubi	p: ESP	= Electric Subi	mersible Pump;	PP = Peristalt	ic Pump
	he above do n				w wiedlog (Inpl	ng Gravity Di	iain), VT	= Vacuum Trap;	O = Other (S	pecify)

not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

# **APPENDIX E:**

LABORATORY ANALYTICAL REPORT FOR APRIL 2008 SPECIATION SAMPLING



May 12, 2008

Brad Bayne 5300 West Cypress Street, Suite 200 Tampa, FL 33607-1784 (813) 282 7275

Re: Sarasota Landfill

Dear Mr. Bayne,

Attached is the report associated with eleven (11) solid and four (4) liquid samples submitted for arsenic speciation analysis on April 23, 2008. All samples were received on April 24, 2008 in a sealed containers at 2.1°C and 3.8°C, respectively. Arsenic speciation analysis in solid samples was performed via pH-controlled phosphate extractions followed by ion chromatography inductively coupled plasma dynamic reaction cell mass spectrometry (IC-ICP-DRC-MS). The liquid samples were analyzed for arsenic speciation using IC-ICP-DRC-MS. Total arsenic analysis was performed by inductively coupled plasma dynamic reaction cell mass spectrometry (ICP-DRC-MS). Any analytical issues associated with the analysis are addressed in the following report.

If you have any questions, please feel free to contact me at your convenience.

Sincerely,

Hakan Gürleyük Senior Scientist

Applied Speciation and Consulting, LLC

HAKAN GÜRLEYÜK

### Applied Speciation and Consulting, LLC

Report Prepared for:

Brad Bayne 5300 West Cypress Street, Suite 200 Tampa, FL 33607-1784

May 12, 2008

### 1. Sample Reception

Eleven (11) solid and four (4) liquid samples were submitted for arsenic speciation analysis on April 23, 2008. All samples were received in acceptable condition on April 24, 2008 in sealed containers at 2.1°C and 3.8°C, respectively.

All samples were received in a laminar flow clean hood void of trace metals contamination and ultra-violet radiation. The samples were designated discrete sample identifiers upon reception and then stored in a secure polyethylene container known to be free from trace metals contamination until the samples could be prepared.

### 2. Sample Preparation

All sample preparation is performed in laminar flow clean hoods known to be free from trace metals contamination. All applied water for dilutions and sample preservatives are also monitored for contamination to account for any biases associated with the sample results.

<u>Total Arsenic Quantification by ICP-DRC-MS (Solid)</u> Prior to analysis, approximately 0.5g of the sample was digested with concentrated HNO<sub>3</sub> in a hot block digestion apparatus.

Arsenite Speciation Analysis by IC-ICP-DRC-MS Approximately 1.0g of each sample was transferred to 50mL polypropylene centrifuge tubes. A known volume of a H<sub>3</sub>PO<sub>4</sub> solution was then added to each sample. All extractions were placed on an inverted shaker for 24 hours at 80RPM. All extracts were then centrifuged for 1 hour and the supernatant was decanted, filtered with a syringe filter (0.45µm), and injected directly into sealed autosampler vials. All sample extracts were analyzed by ion chromatography inductively coupled plasma dynamic reaction cell mass spectrometry (IC-ICP-DRC-MS).

<u>Arsenate Speciation Analysis by IC-ICP-DRC-MS</u> Approximately 1.0g of each sample was transferred to 50mL polypropylene centrifuge tubes. A known volume of a Na<sub>3</sub>PO<sub>4</sub> solution was then added to each sample. All extractions were placed on an

inverted shaker for 24 hours at 80RPM. All extracts were then centrifuged for 1 hour and the supernatant was decanted, filtered with a syringe filter (0.45 $\mu$ m), and injected directly into sealed autosampler vials. All sample extracts were analyzed by ion chromatography inductively coupled plasma dynamic reaction cell mass spectrometry (IC-ICP-DRC-MS).

<u>Arsenic Speciation Analysis by IC-ICP-MS</u> Prior to analysis, all liquid samples were filtered with a syringe filter  $(0.45\mu\text{m})$  and injected directly into sealed autosampler vials. No further sample preparation was performed as any chemical alteration of the samples may shift the equilibrium of the system resulting in changes in speciation ratios.

#### 3. Sample Analysis

All samples analysis is precluded by a minimum of a five-point calibration curve spanning the entire concentration range of interest. Calibration curves are performed at the beginning of each analytical day. All calibration curves, associated with each species of interest, are standardized by linear regression resulting in a response factor. All sample results are **instrument blank corrected** to account for any operational biases.

Prior to sample analysis, all calibration curves are verified using second source standards which are identified as initial calibration verification standards (ICV).

Ongoing instrument performance is identified by the analysis of continuing calibration verification standards (CCV) and continuing calibration blanks (CCB) at a minimal interval of every ten analytical runs.

<u>Total Arsenic Quantification by ICP-DRC-MS</u> All sample digests for total arsenic quantification were analyzed by inductively coupled plasma dynamic reaction cell mass spectrometry (ICP-DRC-MS). Aliquots of each sample digest are introduced into a radio frequency (RF) plasma where energy-transfer processes cause desolvation, atomization, and ionization. The ions are extracted from the plasma through a differentially-pumped vacuum interface and travel through a pressurized chamber (DRC) containing a specific reactive gas which preferentially reacts with either interfering ions of the same target mass to charge ratios (m/z) or with the target analyte, producing an entirely different mass to charge ratio (m/z) which can then be differentiated from the initial interferences. A solid-state detector detects ions transmitted through the mass analyzer, on the basis of their mass-to-charge ratio (m/z), and the resulting current is processed by a data handling system.

<u>Arsenic Speciation Analysis by IC-ICP-DRC-MS</u> All samples for arsenic speciation analysis were analyzed by ion chromatography inductively coupled plasma dynamic reaction cell mass spectrometry (IC-ICP-DRC-MS). Aliquots of each sample extract are injected onto an anion exchange column and mobilized by an acidic (pH < 7) gradient. The eluting arsenic species are then introduced into a radio frequency (RF)

plasma where energy-transfer processes cause desolvation, atomization, and ionization. The ions are extracted from the plasma through a differentially-pumped vacuum interface and travel through a pressurized chamber (DRC) containing a specific reactive gas which preferentially reacts with arsenic, producing an entirely different mass to charge ratio (m/z) which can then be differentiated from the initial isobaric interferences. A solid-state detector detects ions transmitted through the mass analyzer on the basis of their mass-to-charge ratio (m/z), and the resulting current is processed by a data handling system.

Retention times for each eluting species are compared to known standards for species identification.

#### 4. Analytical Issues

The overall analyses went very well and no significant analytical issues were encountered. All quality control associated with these samples was within acceptance limits with the following exceptions:

The estimated method detection limits (eMDLs) for all arsenic species are generated from replicate analyses of the lowest standard in the calibration curve. Not all arsenic species are present in preparation blanks; therefore, eMDL calculations based on preparation blanks are artificially biased low. For MMAs and DMAs, the highest eMDL obtained for the inorganic species were used for each analysis since no species specific eMDL was calculated for these species.

If you have any questions or concerns regarding this report, please feel free to contact me at (206) 219-3779.

Sincerely,

Hakan Gürleyük Senior Scientist

Applied Speciation and Consulting, LLC

HAKAN GÜRLEYÜK

Date: May 12, 2008

Report Generated by: Hakan Gürleyük Applied Speciation and Consulting, LLC

### Sample Results (Solid)

<b>Sample ID</b> Mulch A	As(III) (mg/Kg)	As(V) (mg/Kg)	DMAs (mg/Kg)	MMAs (mg/Kg)	Unknown As Species (n)	Tot As (mg/Kg)
SB-1R-1	ND (<0.022)	0.15	ND (<0.030)	ND (<0.030)	0 (0)	3.01
SB-8A-1	0.05 0.14	0.20 0.19	ND (<0.030)	ND (<0.030)	0 (0)	0.93
SB-9-1	0.27	0.66	ND (<0.030)	ND (<0.030)	0 (0)	1.36
SB-9-2 SB-11R-3	0.69	3.01	ND (<0.030) ND (<0.030)	ND (<0.030) ND (<0.030)	0 (0) 0.12 (1)	0.76 2.59
B-11R-2	1.87 0.10	8.05 0.16	ND (<0.030) ND (<0.030)	ND (<0.030)	0.08 (1)	27.8
B-11R-1 B-CDV-1	0.31	0.52	ND (<0.030)	ND (<0.030) ND (<0.030)	0 (0) 0 (0)	1.37 0.61
B-CDV-2	ND (<0.022) ND (<0.022)	0.23 0.09	ND (<0.030) ND (<0.030)	ND (<0.030)	0 (0)	0.53
B-8A-2	0.09	0.10	ND (<0.030)	ND (<0.030) ND (<0.030)	0 (0) 0 (0)	2.04 0.40

### Sample Results (Liquid)

Sample ID MW-1R	As(III) (ug/L)	As(V) (ug/L)	DMAs (ug/L)	MMAs (ug/L)	Unknown As Species (n)
	0.28	0.44	ND (<0.087)	ND (<0.087)	0 (0)
CW-8A	21.7	13.1	ND (<0.087)	ND (<0.087)	` '
CW-9	36.0	26.6	ND (<0.087)	ND (<0.087)	0 (0)
CW-11R	16.2	12.4	0.14	ND (<0.087)	0 (0) 2.29 (3)

ND = Not detected

Unknown As Species = Total concentration of all unknown As species observed by IC-ICP-MS n = number of unknown As species observed

Date: May 12, 2008

Report Generated by: Hakan Gürleyük Applied Speciation and Consulting, LLC

# Quality Control Summary - Preparation Blank Summary

Analyte (mg/kg)	PBW1	DDWO					
		PBW2	PBW3	PBW4	Mean	StdDev	eMDL*
As(III)	0.000	0.000	0.000	0.000	0.000		
As(V)	0.016	-0.007			0.000	0.000	0.023
Tot As	- · - · <del>-</del>		-0.019	-0.020	-0.008	0.017	0.030
	0.002	0.005	-0.001	0.000	0.001	0.002	0.007
* Please see narrative	Ma prepare e	) aplaulations			0.007	0.002	0.007

Please see narrative regarding eMDL calculations

# Quality Control Summary - Certified Reference Materials

Analysta (may/lan)				
Analyte (mg/kg)	CRM	True Value	Result	Recovery
As(III)	LCS	50.0		
As(V)	LCS	· · ·	48.9	97.9
` /		50.0	44.5	89.0
Tot As	NIST 2711	90.0	94.1	104.6

Date: May 12, 2008

Report Generated by: Hakan Gürleyük Applied Speciation and Consulting, LLC

### Quality Control Summary - Matrix Duplicates

Amalada (m. 11.)					
Analyte (mg/kg)	Sample ID	Rep 1	Rep 2	Mean	RPD
As(III)	SB-CDV-2	ND (<0.22)	ND (<0.22)		
As(V)	SB-CDV-2	` '	` '	NC	NC
- ( - )		0.092	0.082	0.087	11.5
Tot As	SB-CDV-2	2.04	1.94	1.99	5.0
NIO NI I I I				1.55	5.0

NC = Not calculated due to one or more concentrations below the eMDL.

# Quality Control Summary - Matrix Spike/ Matrix Spike Duplicate

Analyte (mg/kg)	Sample ID	Spike Conc	MS Result	Recovery	Spike Conc	MSD Result	Recovery	RPD
As(III)	SB-CDV-2	50.15	40.93	81.6	50.20	38.15	76.0	7.2
As(V)	SB-CDV-2	50.46	45.65	90.3	50.56	47.78	94.3	4.3
Tot As	SB-CDV-2	101.4	81.02	77.9	98.23	80.24	79.7	2.2

Date: May 12, 2008 Report Generated by: Hakan Gürleyük Applied Speciation and Consulting, LLC

# Quality Control Summary - Preparation Blank Summary

Analyte (ug/L)	PBW1	DDWO	DDWG				
As(III)		PBW2	PBW3	PBW4	Mean	StdDev	eMDL*
` '	0.000	0.000	0.000	0.000	0.000	0.000	
As(V)	0.055	0.042	0.040	0.029	<del></del>	<del>-</del>	0.087
* Please see narrati	ve regarding oM	N polovilations	0.010	0.029	0.042	0.011	0.058

Please see narrative regarding eMDL calculations

### Quality Control Summary - Certified Reference Materials

Analyte (ug/L)	CRM	True Value	Result	Recovery
As(III)	LCS	2.00	1.73 .	86.3
As(V)	NIST 1640	26.7	27.3	102.4

Date: May 12, 2008

Report Generated by: Hakan Gürleyük Applied Speciation and Consulting, LLC

### **Quality Control Summary - Matrix Duplicates**

Analyte (ug/L)	Sample ID				
		Rep 1	Rep 2	Mean	RPD
As(III)	CW-11R	16.240	18.494	17.367	10.0
As(V)	CW-11R	13.840			13.0
NC - Not coloulete		13.040	14.748	14.294	6.4

NC = Not calculated due to one or more concentrations below the eMDL.

# Quality Control Summary - Matrix Spike/ Matrix Spike Duplicate

Analyte (ug/L) As(III)	Sample ID	Spike Conc	MS Result	Recovery	Spike Conc	MSD Result	Recovery	RPD
As(V)	CW-11R	20.00	40.80	117.1	20.00	40.89	117.6	0.4
	CW-11R	20.00	35.94	108.2	20.00	38.83	122.7	12.5

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953 Industry Drive

Phone (206) 219-3779 Fax (206) 388-3485

	JEIIIII, LLC				10%		Tukwila	a, WA 98188	Fax (206) 388-3485
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SB-9-1		4/22/1430	5L	802		32			
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SB-118-2	SR-11R-21	1/23/0905	SL	802 0		<del>133</del>			Vol?
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Matrix: Air, Freshwater (FW), seawater (SW), groundwater (GW), wastewater (WW), soil (SL), sediment (SD), tissue (TS), product (P), other (O)

APPLIED SPE	CIATION	The second of the second	777						
AND CONSUL	LTING, LLC							Industry Drive	Phone (206) 219-3779
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CW-8A	ASC-B-382			100 m		BB	Specialed	1 Acsenic	
CW-9	ASGB-3823		GW GW	100 ml		BB			
CW-NR	ASC-8-38/2			100m		BB			
5B-IR-1			<u>em</u>	100 ml		BB	<u> </u>		
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58-9-1			<u>SL</u>	202		BB			
58-9-2		4/22/1430	<u>st</u>	2020		BB			
MULCA			SL	202		BB			
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5B-11R-Z			SL	202		BB			
SB-11R-1		4/43 0905	SL	202		BB			
20		4/23/0925	SL	202		BB	1		
	5B-CDV-1	4/23/1050	SL	202		138			
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# **APPENDIX F:**

LABORATORY ANALYTICAL REPORT FOR APRIL 2009 SOIL SPECIATION SAMPLING

953 Industry Drive Tukwila, WA 98188 Tel: (206) 219-3779 Fax: (206) 388-3485

www.appliedspeciation.com

May 14, 2009

PBS&J Brad Bayne 5300 West Cypress Street #200 Tampa, FL 33607 (813) 282-7275 Ext. 8377

Project Name: Sarasota Landfill Project Number: 100007910-03

Dear Mr. Bayne,

Attached is the report associated with twelve (12) soil samples submitted for arsenite, arsenate, monomethylarsonic acid, and dimethylarsinic acid quantification on April 29, 2009. All samples were received on April 30, 2009 in a sealed cooler at 2.7°C. Arsenic speciation analysis was performed via a series of pH-controlled extractions followed by inductively coupled plasma dynamic reaction cell mass spectrometry (IC-ICP-DRC-MS). Any issues associated with the analyses are addressed in the following report.

If you have any questions, please feel free to contact me at your convenience.

Sincerely,

Ben Wozniak Project Manager

Applied Speciation and Consulting, LLC

# Applied Speciation and Consulting, LLC

Report Prepared for:

PBS&J Brad Bayne 5300 West Cypress Street #200 Tampa, FL 33607

Project Name: Sarasota Landfill Project Number: 100007910-03

May 14, 2009

### 1. Sample Reception

Twelve (12) soil samples were submitted for arsenite, arsenate, monomethylarsonic acid (MMAs), and dimethylarsinic acid (DMAs) quantification on April 29, 2009. All samples were received in acceptable condition on April 30, 2009 in a sealed container at 2.7°C.

All samples were received in a laminar flow clean hood void of trace metals contamination and ultra-violet radiation. Upon reception, all samples were designated discrete sample identifiers and placed in a secure refrigerator (maintained at a temperature of  $\leq 4^{\circ}$ C) until the extractions and analyses could be performed.

### 2. Sample Preparation

All sample preparation is performed in laminar flow clean hoods known to be free from trace metals contamination. All applied water for dilutions and sample preservatives are also monitored for contamination to account for any biases associated with the sample results.

For each extraction procedure three sets of laboratory control samples (LCS) and matrix spikes were prepared to monitor any potential species conversion attributable to either the applied extraction procedure or the sample matrices. One set contained only arsenite, the second set contained only arsenate, and the third set contained monomethylarsonic acid and dimethylarsinic acid.

Arsenite Speciation Analysis by IC-ICP-DRC-MS On May 4, 2009, aliquots of approximately 1.0g of each sample were transferred to 50mL polypropylene centrifuge tubes. A known volume of a H<sub>3</sub>PO<sub>4</sub> solution was then added to each sample. All extractions were placed on an inverting shaker for approximately 16 hours at 80RPM. All extracts were then centrifuged and the supernatant was

decanted, filtered with a syringe filter (0.45 $\mu$ m), and injected directly into sealed autosampler vials.

Arsenate, Monomethylarsonic Acid, and Dimethylarsinic Acid Speciation Analysis by IC-ICP-DRC-MS On May 4, 2009 aliquots of approximately 1.0g of each sample were transferred to 50mL polypropylene centrifuge tubes. A known volume of a Na<sub>3</sub>PO<sub>4</sub> solution was then added to each sample. All extractions were placed on an inverting shaker for approximately 16 hours at 80RPM. All extracts were then centrifuged and the supernatant was decanted, filtered with a syringe filter (0.45μm), and injected directly into sealed autosampler vials.

### 3. Sample Analysis

All sample analysis is precluded by a minimum of a five-point calibration curve spanning the entire concentration range of interest. Calibration curves are performed at the beginning of each analytical day. All calibration curves, associated with each species of interest, are standardized by linear regression resulting in a response factor. The response factors of MMAs and DMAs are set equal to the average response factor of arsenite and arsenate. The calibration does not contain MMAs or DMAs due to impurities in these standards which would bias the results for other arsenic species. All sample results are **instrument blank corrected** to account for any operational biases.

Prior to sample analysis, all calibration curves are verified using second source standards which are identified as initial calibration verification standards (ICV).

Ongoing instrument performance is identified by the analysis of continuing calibration verification standards (CCV) and continuing calibration blanks (CCB) at a minimal interval of every ten analytical runs.

Arsenic Speciation Analysis by IC-ICP-DRC-MS All sample extracts for arsenic speciation analysis were analyzed by ion chromatography inductively coupled plasma dynamic reaction cell mass spectrometry (IC-ICP-DRC-MS) on May 5, 2009. Aliquots of each sample extract are injected onto an anion exchange column and are mobilized by an alkaline (pH > 7) gradient. The eluting arsenic species are then introduced into a radio frequency (RF) plasma where energy-transfer processes cause desolvation, atomization, and ionization. The ions are extracted from the plasma through a differentially-pumped vacuum interface and separated on the basis of their mass-to-charge ratio (m/z) by a mass spectrometer. A solid-state detector detects ions transmitted through the mass analyzer and the resulting current is processed by a data handling system.

Retention times for each eluting species are compared to known standards for species identification.

#### 4. Analytical Issues

The overall analyses went well and no significant analytical issues were encountered. All results have been corrected in accordance with the continuing calibration verification recoveries to account for perceived instrument drift. All quality control parameters associated with these samples were within acceptance limits with the following exceptions:

The recovery associated with the arsenite matrix spike (MS) performed on the sample identified as SB-P4-8-6 was below the established control limit of 75% (74.1%). Speciation analysis of this MS indicated that 22.5% of the arsenite spike was recovered as arsenate (data not shown in final results table). Although the recovery associated with the arsenite MSD performed on this same sample was within control (79.1%), part of the arsenite spike was also recovered as arsenate (20.3%; data not shown in final results table). The recovery associated with the arsenite LCS was within control (109.0%), demonstrating that the applied extraction and analysis procedures stabilize this species in solution. Since the conversion of arsenite to arsenate in the arsenite MS/MSD set is a function of the sample matrix and the recoveries confirm a mass balance, no corrective action was required. The low recovery of the arsenite MS suggests that this particular sample matrix induces partial oxidation of arsenite.

The RPD associated with the matrix duplicate (MD) performed on the sample identified as SB-P4-8-6 was above the established control limit of 25% for arsenite (38.3%). The concentrations of arsenite in the parent sample and MD are less than ten times the estimated method detection limit (eMDL). Since greater variability is expected as sample concentrations approach the eMDL, the elevated RPD is identified as an inherent limitation of any quantitative method and does not impact the validity of the reported results. The acceptable RPD obtained for the matrix spike duplicate (MSD) performed on this sample for arsenite (6.5%) instead demonstrates the precision of the preparation and analysis.

The estimated method detection limits (eMDLs) for arsenite and arsenate are generated from the standard deviation of the preparation blanks. The eMDLs for MMAs and DMAs are set equal to the arsenate eMDL from the Na<sub>3</sub>PO<sub>4</sub> extraction due to the absence of these species from the preparation blanks.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Ben Wozniak

Project Manager

Applied Speciation and Consulting, LLC

#### Arsenic Speciation Results for PBS&J Contact: Brad Bayne Project Name: Sarasota Landfill

Date: May 14, 2009 Report Generated by: Ben Wozniak Applied Speciation and Consulting, LLC

#### Sample Results

Sample ID	As(III)	A-/\/\		
SB-P4-1-2		As(V)	MMAs	DMAs
	0.029	ND (<0.15)	ND (<0.15)	ND (<0.15)
SB-P4-2-2	0.029	0.71	ND (<0.15)	
SB-P4-3-4	ND (<0.026)	ND (<0.15)	ND (<0.15)	ND (<0.15)
SB-P4-4-4	ND (<0.026)	ND (<0.15)		ND (<0.15)
SB-P4-5-2	0.028		ND (<0.15)	ND (<0.15)
SB-P4-5-6	_	ND (<0.15)	ND (<0.15)	ND (<0.15)
	0.125	ND (<0.15)	ND (<0.15)	ND (<0.15)
SB-P4-6-6	0.055	ND (<0.15)	ND (<0.15)	
SB-P4-7-6	ND (<0.026)	ND (<0.15)		ND (<0.15)
SB-P4-8-4	0.285		ND (<0.15)	ND (<0.15)
SB-P4-8-6		0.22	ND (<0.15)	ND (<0.15)
	0.132	ND (<0.15)	ND (<0.15)	ND (<0.15)
SB-P4-11-6	ND (<0.026)	ND (<0.15)	ND (<0.15)	ND (<0.15)
SB-P4-12-6	0.049	ND (<0.15)	ND (<0.15)	
All results are	eported as receive	(od ou di m	140 (*0.10)	ND (<0.15)

All results are reported as received and in mg/kg (wet wt.)
ND = Not detected at the applied dilution

Arsenic Speciation Results for PBS&J Contact: Brad Bayne Project Name: Sarasota Landfill

Date: May 14, 2009 Report Generated by: Ben Wozniak Applied Speciation and Consulting, LLC

#### Quality Control Summary - Preparation Blank Summary

Analyte (mg/kg)	PBS1		n Ounniai y				
As(III)	0.046	PBS2	PBS3	PBS4	Mean	StdDev	eMDL*
As(V)	-0.01	0.031 -0.14	0.033	0.025	0.034	0.009	0.026
MMAs	0.00	0.00	-0.09 0.00	-0.09	-0.08	0.05	0.15
DMAs	0.00	0.00	0.00	0.00 0.00	0.00	0.00	0.15
MDL = Estimated M	ethod Detecti	on Limit		0.00	0.00	0.00	0.15

<sup>\*</sup> Please see narrative regarding eMDL calculations

#### Quality Control Summary - Certified Reference Materials

A seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed of the seed	- inatorials							
Analyte (mg/kg)	CRM	True Value	Result	Recovery				
As(III) As(V) MMAs	LCS LCS	50.00 50.00	54.49 52.68	109.0 105.4				
DMAs	LCS LCS	52.35 52.45	51.07 55.40	97.6 105.6				

#### Arsenic Speciation Results for PBS&J Contact: Brad Bayne Project Name: Sarasota Landfill

Date: May 14, 2009 Report Generated by: Ben Wozniak Applied Speciation and Consulting, LLC

#### Quality Control Summary - Matrix Duplicates

Analyte (mg/kg)	Sample ID	D	•		
4s(III)	SB-P4-8-6	Rep 1	Rep 2	Mean	RPD
As(V)	SB-P4-4-4	0.132	0.090	0.111	38.3*
/MAs	SB-P4-4-4	ND (<0.15)	ND (<0.15)	NC	NC
MAs	SB-P4-4-4	ND (<0.15) ND (<0.15)	ND (<0.15)	NC	NC
ND = Not detected at I	the applied dilution	140 (<0.15)	ND (<0.15)	NC	NC

NC = Not calculated due to one or more concentrations below the reporting limit.

# Quality Control Summary - Matrix Spike/ Matrix Spike Duplicate

Analyte (mg/kg)	Sample ID	Spike Conc	MS Result	Recovery	Snike Car			
ls(V)	SB-P4-8-6	46.01	34.11	74 1*	42.90		Recovery	RPD
MAs	SB-P4-4-4 SB-P4-4-4	44.17	48.52	109.8	42.80 45.52	33.97	79.1	6.5
MAs	SR-D4 4 4	51.58	51.88	100 6	48.67	50.40	110.7	0.8
he recovery is below	the established	51.68	55.78	107.9	48.76	47.87 51.86	98.4 106.4	2.2

<sup>\*</sup> Sample concentrations are less than ten times the eMDL

Company Name: PBS + T			953 Industry Drive	Phone (206) 219-37
			Tukwila, WA 98188	Fax (206) 388-3485
Address SO BUSINE		ASC Project Manager	. R	
	200	By submitting of arm	Ben Wozn	iak
Phone N. 1	200	forth in the quotosian		
	7 7	familiar with the term	provided by the ASC project and conditions associated with	t manager. If you are r
	( )	contact your ASC rope	provided by the ASC project and conditions associated wi esentative as soon as possible	ith your project, please
		Requested Turn Arour	as possini	e (206) 210 2776
arasota il and Civ		Method of Sample Del	S Tanda	29
10000 7910 - 03		Currier Tracking Numl	IVELY: TOO EX	
CHINE	`	Confirmation of Sample	D 1-3	19 3246
Bottle ID Date and Time Matrix*		and or Sample	e Reception: Yes	□ No
SB-P4-1-2 July Matrix	Volume Preservative	Initials Requeste		
5B-P4-7-7 7/28 917 5011	202 —	rectueste	ed Analytes and Methods	Comments
SB-04-3-4 H/28 940 SOIL	202 —	PIS Hrse	nic Speciation	Comments
	202 _		1	***************************************
	202 -	BB		
19-3-2	202 -	BB		
	202 -	BB		*****
35-14-6-6	202 -	BR		
3B-24-7-6 TEO 130 3011	202 -	BB		
5B - 14-8-4 - TIES 1150 3011	202 -			
5B-P4-9-6 7/28 1305 Soil	7	88		
	7 - 3	BB		
5B-P4-12-6 - 4128 1425 SON 2	***************************************	BB		
11/100		BB		
Diam'r	202 _	BB		
Blank 2				
		***************************************		emoty
				empty
				713
inquished by: (sign)				
eived by: (sign) Brad Bayne (print) Brad Bayne				
eived by: (sign)   Drad Bayne (print) Iran Maule	D	ate/Time: 4/29	am Comment	
The stand white	Date/Time: ५	51/10 1011	Comments:	
quish, II		11/11		
quished by: (sign)(print)			Temp: えっす。	C
Ived by: (sign)	Da	ate/Time:	Comments:	
(print)		4.0/ THIID.		
e account for each sample bottle as a seperate line item for verification purposes.  k: Air, Freshwater (FW), seawater (SW), groundwater (GW), wastewater (WAY)	Date/Time:		i i	

# APPENDIX G: SOIL LABORATORY ANALYTICAL DATA



June 19, 2008

Brad Bayne PBS&J 5300 West Cypress St. Suite #200 Tampa, FL 33607

Re:

SunLabs Project Number:

080522.01

Client Project Description:

**Arsenic Delineation** 

Dear Mr. Bayne:

Enclosed is the report of laboratory analysis for the following samples:

Sample Number	Sample Description	Data Callante
66685	SB-11R-4-2	Date Collected
66686	SPLP/66685 (SB-11R-4-2)	5/21/2008
66687	SB-11R-4-4	F/0.4/0.5 = -
66688	SPLP/66687 (SB-11R-4-4)	5/21/2008
66689	SB-11R-4-6	F/9.4/9.5.5
66690	SPLP/66689 (SB-11R-4-6)	5/21/2008
66691	Duplicate A	F /Q / / / / / / / / /
66692	SB-11R-5-2	5/21/2008
66693	SB-11R-5-4	5/21/2008
66694	SB-11R-5-6	5/21/2008
66695	SPLP/66694 (SB-11R-5-6)	5/21/2008
66696	SB-11R-6-2	<b>-</b>
66697	SB-11R-6-4	5/21/2008
66698	SB-11R-6-6	5/21/2008
66699	SB-11R-7-2	5/21/2008
66700	SB-11R-7-4	5/21/2008
66701	SB-11R-7-6	5/21/2008
66702	Duplicate B	5/21/2008
66703	SB-11R-8-2	5/21/2008
66704	SB-11R-8-4	5/21/2008
66705	SB-11R-8-6	5/21/2008
66706	SB-11R-9-2	5/21/2008
66707	SB-11R-9-4	5/21/2008
66708	SB-11R-9-6	5/21/2008
66709	SB-11R-10-2	5/21/2008
66710	Duplicate C	5/21/2008
66711	SB-11R-10-4	5/21/2008
66712	SB-11R-10-6	5/21/2008
66713	SB-11R-11-2	5/21/2008
66714	SB-11R-11-4	5/21/2008
	OD-111(-11-4	5/21/2008

SunLabs, Inc.

Cover Page 1 of 2

Phone: (813) 881-9401

Tampa, FL 33634

Unless Otherwise Noted and Where Applicable:

Website: www.SunLabsInc.com

Sample Number	Sample Description	Date Collected
66715	SB-11R-11-6	5/21/2008
66716	SB-11R-12-2	
66717	SB-11R-12-4	5/21/2008
66718	SB-11R-12-6	5/21/2008
66719	SB-11R-13-2	5/21/2008
66720	SB-11R-13-4	5/21/2008
66721	SB-11R-13-6	5/21/2008
66722	SB-11R-14-2	5/21/2008
66723	SB-11R-14-4	5/21/2008
66724		5/21/2008
66725	SB-11R-14-6	5/21/2008
66726	Duplicate D	5/21/2008
	SB-11R-15-2	5/21/2008
66727	SB-11R-15-4	5/21/2008
66728	SB-11R-15-6	5/21/2008

Copies of the Chain(s)-of-Custody, if received, are attached to this report.

If you have any questions or comments concerning this report, please do not hesitate to contact us.

Michael W. Palmer

Vice President, Laboratory Operations

Enclosures



SunLabs Project Number

Project Description

PBS&J

080522.01

**Arsenic Delineation** 

June 19, 2008

Parameters		77 FT LV LAND CO. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.									June 1	9, 20
. districted	Me	ethod	Units	Results	Dil Fac		1DL R	L CAS Num	Date/ ber Analy			e/Tin Prep
SunLabs Sample Number	r <b>66685</b>					Matr	ix		Soil			
Sample Designation	SB-11R-4-2	2				-	Collec		5/21/2008 09:	10		
Authorities							Receiv		5/21/2008 09. 5/22/2008 09:			
Percent Moisture							***************************************				***************************************	***************************************
% Moisture	160	D.3M	%	10			0.1	1	05/20/20			
<u>Arsenic</u>	-					-	0.1	<u> </u>	05/28/08			
Date Digested	20	)50										
Date Analyzed		)10		5/28/2008							05/28/08	8 08:4
Arsenic		110		5/28/2008	1				05/28/08	16:51		
	OL.	110	mg/kg	0.57 I	1	0.22	2 0.89	7440-38	-2 05/28/08	16:51	05/28/08	3 08:4
Iron												
Date Digested Date Analyzed	30	***************************************		5/28/2008							0E/20/01	
ron	60	10		5/29/2008	10			***************************************	05/29/08 1	0.20	05/28/08	3 08:43
TOTI	60	10	mg/kg	1600	10	1.1	4.4	7439-89-			05/28/08	1 ng-4
RCRA Metals-Totals												- 00.10
Date Digested	30:	50		E /20/2000								
Pate Analyzed	60:			5/28/2008							05/28/08	08:45
Chromium	60:		mg/kg	6/3/2008	1				06/03/08 1			
Copper	601		mg/kg	7.2 0.067 U	1	0.22	0.89	7440-47-			05/28/08	
ead	601		mg/kg	2.0	1 1	0.06	7 0.27 0.89	7440-50- 7439-92-	-,,		05/28/08	
ynthetic Precipitation Leach	-i					0.22	0.03	7737-92-	1 06/03/08 1	3:57	05/28/08	08:45
PLP - Date Leached												
a Date Leached	131	.2		05/22/08	1				05/22/08	(	05/22/08	
otal Nitrogen in Solids											,,	
ate Analyzed				C/10/00 00								
otal Nitrogen	351.2/3	153.7	mg/kg	6/18/08 S8	1				06/18/08 12	:39		
	99112/			224 ample No: 66685 -	1	4	12		06/18/08 12	:39		000000000000000000000000000000000000000
unLabs Sample Number	66686				N.	l - 4 - 5						-
ample Designation		/CD 44	<b>-</b> \			latrix			achate			
p.c 2 colghadolf	SPLP/66685	(2R-11	R-4-2)		D	ate Co	ollected	i				
		***************************************			D	ate Re	eceived	i				
nions by Ion Chromatograph	ıv										***************************************	
te Analyzed				05 (04 (00								
rate-N	300.0	1	mg/L	06/04/08	1				06/04/08 20:	44 06	6/04/08 1	14:22
Mmania			HIG/L	2.4	1	0.014	0.056		06/04/08 20:	44 06	5/04/08 1	14:22
<u>nmonia</u>												
rogen Ammonia (as N)	350.2	!	mg/L	0.21	1	0.01	0.03		06/06/08 16:	20 00	106 100 4	
(45 11)					-	-			00/00/00 16:	-3 UG	5/06/08 1	.6:29
senic by ICP												
	2010											
senic by ICP  Digested	3010			5/28/2008						05	/28/08 n	9:00
senic by ICP	3010 6010 6010			5/28/2008 5/28/2008 0.011 I	1	-1			05/28/08 16:		/28/08 0	9:00

SunLabs, Inc. 5460 Beaumont Center Blvd., Suite 520 Tampa, FL 33634

Laboratory ID Number - E84809



SunLabs Project Number

080522.01

PBS&J

Project Description

**Arsenic Delineation** 

Parameters	Method	Units	Results	D Fa	il M	DL RL	CAS Numbe	Date/Time	June 19, 200  Date/Tim Prep
SunLabs Sample Number	66687				Matrix	·	Soi		rieb
Sample Designation	SB-11R-4-4				Date	Collecte Receive	d 5/2	1/2008 09:15 2/2008 09:35	
Percent Moisture					***************************************				
% Moisture	160.3M	%	23			0.13		05/28/08	
<u>Arsenic</u>								03/20/08	
Date Digested	3050		F /20/2000						
Date Analyzed	6010		5/28/2008						05/28/08 08:4
Arsenic	6010	mg/kg	5/28/2008 0.26 U	<u>1</u> 1	0.26	1	7440-38-2	05/28/08 16:58 05/28/08 16:58	
<u>Iron</u>							7 110 30 2	03/20/00 10:30	05/28/08 08:4
Date Digested	3050								
Date Analyzed	6010		5/28/2008						05/28/08 08:45
Iron	6010	mg/kg	5/29/2008 43	<u>1</u> 1	0.13	0.52	7439-89-6	05/29/08 09:23	
RCRA Metals-Totals		- J		•	0.13	0.52	7733-03-0	05/29/08 09:23	05/28/08 08:45
Date Digested	2050		_						
Date Analyzed	3050		5/28/2008						05/28/08 08:45
Chromium	6010		6/3/2008	1				06/03/08 19:12	,,
Copper	6010	mg/kg	0.26 U	1	0.26	1	7440-47-3	06/03/08 19:12	05/28/08 08:45
ead	6010 6010	mg/kg	0.078 U	1	0.078	0.31	7440-50-8	06/03/08 19:12	05/28/08 08:45
Synthotic Descipitation .		mg/kg	0.26 U	1	0.26	1	7439-92-1	06/03/08 19:12	05/28/08 08:45
Synthetic Precipitation Leach PLP - Date Leached									
	1312		05/22/08	1				05/22/08	05/22/08
otal Nitrogen in Solids					•				
ate Analyzed			£/19/00 CO						
otal Nitrogen	351.2/353.2	mg/kg	6/18/08 S8 137	1				06/18/08 12:39	
			ample No: 66687	1	4	12		06/18/08 12:39	
unLabs Sample Number	66688				Matrix		Leach	ato	
ample Designation	SPLP/66687 (SB-1	11D_A_A\			Date Col	llacted	Leaci	ale	
		· · · · · · · · · · · · · · · · · · ·			Date Re				
nions by Ion Chromatograph									
ite Analyzed	¥								
trate-N			06/04/08	1				06/04/08 21:47	06/04/08 14:22
	300.0	mg/L	2.2	1	0.014	0.056		***************************************	06/04/08 14:22
<u>nmonia</u>									
rogen Ammonia (as N)	350.2	mg/L	0.47	1	0.01	0.03		06/06/00 46 20	
senic by ICP				•				06/06/08 16:29	06/06/08 16:29
te Digested	3010								
te Analyzed			5/28/2008					(	5/28/08 09:00
enic	6010 6010	mg/L	5/28/2008 0.0048 U	1				05/28/08 16:30	,
				1	0.0048				

SunLabs, Inc. 5460 Beaumont Center Blvd., Suite 520 Tampa, FL 33634

Laboratory ID Number - E84809



SunLabs Project Number

PBS&J

080522.01

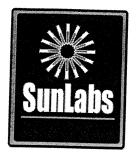
Project Description

**Arsenic Delineation** 

Parameters		71117							******************************	June 1	.9, 20
	Method	Units	Results	Dil Facto	MDL or	RL	CAS Number		/Time		e/Tin Prep
SunLabs Sample Number	r <b>66689</b>				Matrix	***************************************	Soil	***************************************	**********	MESTATION CONTRACTOR	
Sample Designation	SB-11R-4-6				Date Coll	lected		/2008 09			
					Pate Rec		,	2/2008 09 2/2008 09			
Percent Moisture				1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -							**************
% Moisture	160.3M	%	15			0.12		05/28/08			
<u>Arsenic</u>								03/26/06			
Date Digested	3050		F /20 /200 0								
Date Analyzed	6010		5/28/2008							05/28/0	8 08:4
Arsenic	6010	mg/kg	5/28/2008	1				05/28/08	17:00		
Iron		mg/kg	0.69 I	11	0.24 (	0.94	7440-38-2	05/28/08	17:00	05/28/0	8 08:4
Date Digested											
Date Analyzed	3050		5/28/2008							05/28/08	8 US·41
Iron	6010		5/29/2008	10		**************************************		05/29/08	10:41	03/20/00	0 00:45
	6010	mg/kg	1900	10	1.2 4	.7	7439-89-6	05/29/08		05/28/08	8 08:49
RCRA Metals-Totals											00.70
Date Digested	3050										
Date Analyzed	6010		5/28/2008							05/28/08	8 08:45
Chromium	6010	mg/kg	6/3/2008	1				06/03/08			
Copper	6010	mg/kg	1.1	1			7440-47-3	06/03/08		05/28/08	08:45
ead	6010	mg/kg	0.071 U 0.52 I	1 1			7440-50-8	06/03/08		05/28/08	
Nematicatia Barriera		9/109	0.52 1		0.24 0.	.94	7439-92-1	06/03/08	19:15	05/28/08	08:45
Synthetic Precipitation Leach	<u>ning Procedure</u>										
PLP - Date Leached	1312		05/22/08	1				05/22/08			
otal Nitrogen in Solids				-				03/22/08		05/22/08	
ate Analyzed											
otal Nitrogen			6/18/08 S8	1				06/18/08	12-30		
- I I I I I I I I I I I I I I I I I I I	351.2/353.2	mg/kg	139		1 12			06/18/08			
	· · · · · · · · · · · · · · · · · · ·	—— End of S	ample No: 66689 -	7				, ,			
unLabs Sample Number	66690			Ma	trix		Leacha		*************	100.000.000.000.000.000.000.000.000.000	**************
ample Designation	SPLP/66689 (SB-	11D_4_6\			e Collec	tod.	Leach	ite			
_	== 4. / 00003 (SB=	TTK-4-0)									
			***************************************	Dai	e Receiv	/ed					
nions by Ion Chromatograph	ıv										***************************************
ite Analyzed	<del>-4.</del>										
trate-N	300.0		06/04/08	1				06/04/08 2	2:03	06/04/08	14:22
	300.0	mg/L	2.0	1 0	.014 0.0	56		06/04/08 2		06/04/08	
<u>mmonia</u>											
rogen Ammonia (as N)	350.2	mg/L	0.42								
romis hu ZOD		1119/ C	0.42	1 0	01 0.03	3	(	06/06/08 16	5:30 (	06/06/08	16:30
senic by ICP											
te Digested	3010	<u> </u>	5/28/2008								
te Analyzed	6010		5/28/2008	1				E (20,00 + 1		5/28/08 0	09:00
enic	6010	mg/L	0.0048 U		0048 0.01	0 74		15/28/08 16 15/28/08 16		5/28/08 0	

SunLabs, Inc. 5460 Beaumont Center Blvd., Suite 520 Tampa, FL 33634

Laboratory ID Number - E84809



SunLabs Project Number

PBS&J

080522.01

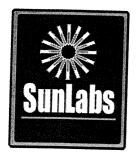
Project Description

**Arsenic Delineation** 

Parameters	N 41		***************************************		***************************************				June 19, 20
	Method	Units	Results		oil Mi actor	OL RL	. CAS Numbe	Date/Time er Analyzed	Date/Tin
SunLabs Sample Number	66691				Matrix		So	-	
Sample Designation	Duplicate A					Collecte		21/2008 09:20	
THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE S				***************************************	Date F	Receive	ed 5/2	22/2008 09:35	
Percent Moisture									
% Moisture	160.3M	%	17			0.12		05/28/08	
Arsenic									
Date Digested	3050		5/28/2008						
Date Analyzed	6010		5/28/2008	1				05/20/02 47 44	05/28/08 08:4
Arsenic	6010	mg/kg	0.28 I	1	0.24	0.96	7440-38-2	05/28/08 17:02 05/28/08 17:02	
RCRA Metals-Totals									10,20,00 00.1
Date Digested	3050		5/28/2008						
Date Analyzed	6010		6/3/2008						05/28/08 08:4
Chromium	6010	mg/kg	0,95 I	1	0.24	0.00	7.42	06/03/08 19:18	
Copper	6010	mg/kg	0.072 U	1	0.072	0.96 0.29	7440-47-3	06/03/08 19:18	
ead	6010	mg/kg	0.50 I	1	0.072	0.29	7440-50-8 7439-92-1	06/03/08 19:18 06/03/08 19:18	
Total Nitrogen in Solids			. *						03/20/00 08.4
Date Analyzed			6/18/08 S8						
Total Nitrogen	351.2/353.2	mg/kg	165	1	4			06/18/08 12:39	
			Sample No: 66691 -	1	7	12		06/18/08 12:39	
SunLabs Sample Number	66692				Matrix		Cail		
Sample Designation	SB-11R-5-2					0	Soil		
, Janean	05 11K 5-2				Date Co Date Re			/2008 09:50 /2008 09:35	
ercent Moisture									
6 Moisture	160.3M	•							
·	100.314	%	9			0.11		05/28/08	
<u>rsenic</u>									770
ate Digested	3050		5/28/2008						
ate Analyzed rsenic	6010		5/28/2008	1				05/28/08 17:05	05/28/08 08:45
Seriic	6010	mg/kg	0.22 U	1	0.22	0.88	7440-38-2		05/28/08 08:45
CRA Metals-Totals									
ate Digested	3050		5/28/2008						
ite Analyzed	6010		6/3/2008	1					05/28/08 08:45
romium	6010	mg/kg	2.7	1	0.22	n 00	7440 47 7	06/03/08 19:22	
pper	6010	mg/kg	0.066 U	1		0.88 0.26	7440-47-3		05/28/08 08:45
ad	6010	mg/kg	0.81 I	1			7440-50-8 7439-92-1		05/28/08 08:45 05/28/08 08:45
tal Nitrogen in Solids			-77Mana				**************************************	,,	, 20/00 U0.45
te Analyzed			6/18/08 S8	1					
tal Nitrogen	351.2/353.2	mg/kg	343	1				06/18/08 12:39	
				1	4	12		06/18/08 12:39	

SunLabs, Inc. 5460 Beaumont Center Blvd., Suite 520 Tampa, FL 33634

Laboratory ID Number - E84809



SunLabs Project Number

PBS&J

080522.01

Project Description

**Arsenic Delineation** 

Parameters	Method	Units	Results	Dil Fac	MD tor	L RL	CAS Number	Date/Time Analyzed	Date/Time Prep
SunLabs Sample Number Sample Designation	66693 SB-11R-5-4				Matrix Date C	ollected	Soil	1/2008 09:55	гіер
					Date R	eceived		2/2008 09:35	
Percent Moisture							14		· · · · · · · · · · · · · · · · · · ·
% Moisture	160.3M	%	10			0.11		05/28/08	
<u>Arsenic</u>									
Date Digested Date Analyzed	3050		5/28/2008						05/28/08 08:45
Arsenic	6010 6010		5/28/2008	11				05/28/08 17:07	03/20/00 00.43
	0010	mg/kg	0.22 U	1	0.22	0.89	7440-38-2	05/28/08 17:07	05/28/08 08:45
RCRA Metals-Totals									
Date Digested	3050		5/28/2008						
Date Analyzed	6010		6/3/2008	1				0.000.000	05/28/08 08:45
Chromium	6010	mg/kg	0.22 U	1	0.22	0.89	7440-47-3	06/03/08 19:25	
Copper	6010	mg/kg	0.067 U	1	0.067	0.27	7 <del>44</del> 0-47-3 7440-50-8	06/03/08 19:25	05/28/08 08:45
ead	6010	mg/kg	0.22 U	1	0.22	0.89	7439-92-1	06/03/08 19:25 06/03/08 19:25	05/28/08 08:45
otal Nitrogen in Solids	•			-			, , , ,	00/05/00 19:25	05/28/08 08:45
ate Analyzed									
otal Nitrogen			6/18/08 S8	1				06/18/08 12:39	
otal Hitogelf	351.2/353.2	mg/kg	60.8	1	4	12		06/18/08 12:39	
		—— End of S	ample No: 66693 –					, , , , , , , , , , , , , , , , , , , ,	



SunLabs Project Number

PBS&J

080522.01

Project Description

**Arsenic Delineation** 

Parameters	Method	Units	Results	Dil Fa	MI ctor	DL RL	CAS Number	Date/Time Analyzed	Date/Tim Prep
SunLabs Sample Number	66694				Matrix		Soil		
Sample Designation	SB-11R-5-6					Collecte		1/2008 10:00	
						Receive	-, -,	2/2008 09:35	
Percent Moisture									
% Moisture	160.3M	%	14			0.12			
Arconia						0.12		05/28/08	
Arsenic									
Date Digested	3050		5/28/2008						05/20/00 00
Date Analyzed	6010		5/28/2008	1				05/28/08 17:09	05/28/08 08:45
Arsenic	6010	mg/kg	0.46 I	1	0.23	0.93	7440-38-2	05/28/08 17:09	05/28/08 08:45
RCRA Metals-Totals									35/20/00 00.10
Date Digested	3050		F /20/2000						
Date Analyzed	6010		5/28/2008	***************************************			******************************		05/28/08 08:45
Chromium	6010	ma/ka	6/3/2008	1				06/03/08 19:28	
Copper	6010	mg/kg	1.9	1	0.23	0.93	7440-47-3	06/03/08 19:28	05/28/08 08:45
Lead	6010	mg/kg mg/kg	0.07 U	1	0.07	0.28	7440-50-8	06/03/08 19:28	05/28/08 08:45
		mg/kg	1.0	1	0.23	0.93	7439-92-1	06/03/08 19:28	05/28/08 08:45
Synthetic Precipitation Leach	ning Procedure								-
SPLP - Date Leached	1312		05/22/08	1				05/22/08	05/22/00
Total Nitrogen in Solids								03/22/08	05/22/08
Date Analyzed									
Total Nitrogen	251 2725 2		6/18/08 S8	1				06/18/08 12:39	
-	351.2/353.2	mg/kg	83.4	1	4	12		06/18/08 12:39	
SunLabs Sample Number	CCCOF	—— спи ој :	Sample No: 66694 -						
	66695			1	Matrix		Leach	ate	
Sample Designation	SPLP/66694 (SB-1	L1R-5-6)			Date Co	llected			
				[	Date Re	ceived			
Anions by Ion Chromatograph							The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s		
Date Analyzed	1 <b>4</b>								
litrate-N	300.0		06/04/08	1				06/04/08 22:19	06/04/08 14:22
	300.0	mg/L	2.1	1	0.014	0.056			06/04/08 14:22
<u>immonia</u>									
itrogen Ammonia (as N)	350.2	ma/l	0.54						
	330.2	mg/L	0.51	1	0.01	0.03		06/06/08 16:30 (	6/06/08 16:30
rsenic by ICP									
ate Digested	3010		5/29/2000						
ate Analyzed	6010	1998 1998 1998 1999 1999 1999 1999 1999	5/28/2008			·*************************************			5/28/08 09:00
senic	6010	mg/L	5/28/2008 0.0048 U	1 1				05/28/08 16:35	
					0.0048		7440-38-2	05/28/08 16:35 0	



SunLabs Project Number

080522.01

Project Description

PBS&J

**Arsenic Delineation** 

June 19, 2008

Parameters	Method	Units	Results	Di Fa	l Mi	DL RL	CAS Number	Date/Time Analyzed		e/Tim
SunLabs Sample Number	66696				Matrix		Soil		*************	***************************************
Sample Designation	SB-11R-6-2					Collected				
						Received	, -	1/2008 10:20 2/2008 09:35		
Percent Moisture										
% Moisture	160.3M	%	9			0.11		05/28/08		
Arsenic								03/26/06		
Date Digested	3050		F (30 (300 a							
Date Analyzed	6010		5/28/2008						05/28/0	8 08:4
Arsenic	6010	mg/kg	5/28/2008 0.60 I	1 1	0.22	0.00		05/28/08 17:12		
RCRA Metals-Totals		1119/119	0.00 1	1_	0.22	0.88	7440-38-2	05/28/08 17:12	05/28/08	8 08:4
Date Digested	3050		5/28/2008						05/28/08	8 08.4
Date Analyzed Chromium	6010		6/3/2008	1	***************************************		***************************************	06/03/08 19:32	03/20/00	
Copper	6010	mg/kg	16	1	0.22	0.88	7440-47-3	06/03/08 19:32	05/28/08	3 08:4
Lead	6010	mg/kg	0.066 U	1	0.066	0.26	7440-50-8	06/03/08 19:32	05/28/08	
	6010	mg/kg	2.5	i	0.22	0.88	7439-92-1	06/03/08 19:32		
<u>Total Nitrogen in Solids</u>										
Date Analyzed			6/18/08 S8	1				05/40/00		
Total Nitrogen	351.2/353.2	mg/kg	155	1	4	12		06/18/08 12:39 06/18/08 12:39		
		North Control of the Control of The Arthur Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control	Sample No: 66696 -		•			00/10/08 12:39		
SunLabs Sample Number	66697				Matrix	· · · · · · · · · · · · · · · · · · ·	C - ''			
Sample Designation	SB-11R-6-4						Soil			
a mpic beoignation	30-11K-0-4				Date Co			/2008 10:25		
					Date Re	eceived	5/22/	/2008 09:35		
Percent Moisture										
% Moisture	160.3M	%	10			0.11				
Arsenic		,,	10			0.11		05/28/08		
Pate Digested										
Pate Analyzed	3050		5/28/2008						05/28/08	08:45
rsenic	6010		5/28/2008	1				05/28/08 17:14		
	6010	mg/kg	0.77 I	11	0.22	0.89	7440-38-2	05/28/08 17:14	05/28/08	08:45
CRA Metals-Totals										
ate Digested	3050		E (20 /200 o							
ate Analyzed	6010		5/28/2008						05/28/08	08:45
hromium	6010	mg/kg	6/3/2008 17					06/03/08 19:36		
	6010	mg/kg	0.067 U	1	0.22		7440-47-3		05/28/08	
				1	0.067		7440-50-8 7439-92-1		05/28/08 05/28/08	**************
	6010	mg/kg	2.5	1					15/78/08	
opper ead Otal Nitrogen in Solids		mg/kg	2.5	1	0.22	0.09	7 133-32-1	00/03/08 19:36	05/20/00	00.43
ead otal Nitrogen in Solids		mg/kg		1	0.22	0.89	7-133-32-1	00/03/08 19:36	03/20/00	00.43
		mg/kg mg/kg	2.5 6/18/08 S8 137	1 1 1	4	0.09	7433-32-1	06/18/08 12:39	03/20/00	06.43

SunLabs, Inc.

5460 Beaumont Center Blvd., Suite 520

Tampa, FL 33634

Laboratory ID Number - E84809



SunLabs Project Number

PBS&J

080522.01

Project Description

**Arsenic Delineation** 

June 19, 2008

Parameters	Method	Units	Results	D Fa	il MI actor	DL RL	CAS Numbe	Date/Tim r Analyzed	
SunLabs Sample Number	66698				Matrix		Soi	ı	
Sample Designation	SB-11R-6-6					Collected		1/2008 10:30	
						Received		2/2008 10.30	
Percent Moisture									
% Moisture	160.3M	%	15			0.12		05/28/08	
<u>Arsenic</u>								03/20/08	
Date Digested	3050		F (20) (200 0						
Date Analyzed	6010		5/28/2008						05/28/08 08
Arsenic	6010	mg/kg	5/28/2008	1	0.24			05/28/08 17:1	
		mg/kg	0.24 U	1	0.24	0.94	7440-38-2	05/28/08 17:10	6 05/28/08 08
RCRA Metals-Totals									
Date Digested	3050		5/28/2008						
Date Analyzed	6010		6/3/2008	1					05/28/08 08
Chromium	6010	mg/kg	1.1	1	0.24	0.04	7440 47 0	06/03/08 19:39	
Copper	6010	mg/kg	0.071 U	1	0.071	0.94	7440-47-3	06/03/08 19:39	
Lead	6010	mg/kg	0.53 1	1	0.071	0.28	7440-50-8	06/03/08 19:39	
Total Miture		3,3	0.55 1	-	0.24	0.54	7439-92-1	06/03/08 19:39	05/28/08 08
Total Nitrogen in Solids									
Date Analyzed			6/18/08 S8	1				05/10/05 10 55	
Total Nitrogen	351.2/353.2	mg/kg	61.3	1	4	12		06/18/08 12:39 06/18/08 12:39	
		- End of S	Sample No: 66698 -	_				00/10/08 12:39	
SunLabs Sample Number	66699				N/-+-				
Sample Designation					Matrix		Soil		
diffpic Designation	SB-11R-7-2				Date Co	llected	5/21,	/2008 10:55	
					Date Re	ceived	5/22,	/2008 09:35	
Percent Moisture									
6 Moisture	160.3M	%	40						
	100.511	70	10			0.11		05/28/08	
rsenic									
ate Digested	3050		5/28/2008						
ate Analyzed	6010		5/28/2008						05/28/08 08:4
rsenic	6010	mg/kg	0.84 I *	1 1	0.22	0.00		05/28/08 17:19	
			0.04 1		0.22	0.89	7440-38-2	05/28/08 17:19	05/28/08 08:4
CRA Metals-Totals									
ate Digested	3050		5/28/2002						05/28/08 08:4
ate Analyzed	3050 6010		5/28/2008	1					
ate Analyzed Promium		ma/ka	6/3/2008	1	0.22	0.80	7440 47 7	06/03/08 19:43	
ate Analyzed Promium Popper	6010	mg/kg ma/ka	6/3/2008 17	1			7440-47-3	06/03/08 19:43	05/28/08 08:45
ate Analyzed Promium	6010 6010	mg/kg	6/3/2008 17 0.067 U	1 1	0.067	0.27	7440-50-8	06/03/08 19:43 06/03/08 19:43	05/28/08 08:45
ate Analyzed promium ppper ad	6010 6010 6010		6/3/2008 17	1	0.067	0.27		06/03/08 19:43 06/03/08 19:43	
ate Analyzed Aromium Apper ad <b>Otal Nitrogen in Solids</b>	6010 6010 6010	mg/kg	6/3/2008 17 0.067 U 2.5	1 1	0.067	0.27	7440-50-8	06/03/08 19:43 06/03/08 19:43	05/28/08 08:45
ate Analyzed promium ppper ad	6010 6010 6010	mg/kg	6/3/2008 17 0.067 U	1 1	0.067	0.27	7440-50-8	06/03/08 19:43 06/03/08 19:43	05/28/08 08:45

SunLabs, Inc. 5460 Beaumont Center Blvd., Suite 520 Tampa, FL 33634

Laboratory ID Number - E84809



SunLabs **Project Number** 

PBS&J

Project Description

080522.01

**Arsenic Delineation** 

June 19, 2008

Parameters	Method	Units	Results		Dil MD actor	L RL	CAS Numbe	Date/Tim r Analyzed		e/Ti Prep
SunLabs Sample Number	66700				Matrix		Soi	i	*****	-
Sample Designation	SB-11R-7-4	•			Date C	ollected	5/2	1/2008 11:00		
					Date R	eceivec	1 5/2	2/2008 09:35		*********
<u>Percent Moisture</u> % Moisture										
76 MUISTURE	160.3M	- %	17			0.12		05/28/08		
<u>Arsenic</u>										
Date Digested	3050		F/20/2000							
Date Analyzed	6010		5/28/2008						05/28/08	8 0
Arsenic	6010	no a (l	5/28/2008	1				05/28/08 21:1	5	
	0010	mg/kg	0.34 I	1	0.24	0.96	7440-38-2	05/28/08 21:1	5 05/28/08	8 0
RCRA Metals-Totals										
Date Digested	3050		5/28/2008							
Date Analyzed	6010		6/3/2008	1				06/02/00 40 55	05/28/08	3 08
Chromium	6010	mg/kg	13	1	0.24	0.96	7440-47-3	06/03/08 19:53		
Copper	6010	mg/kg	0.072 U	1	0.072	0.29	7440-47-3	06/03/08 19:53	//	
ead	6010	mg/kg	2.4	i	0.072	0.29	7 <del>44</del> 0-50-8 7439-92-1	06/03/08 19:53		
<u> Otal Nitrogen in Solids</u>	ř			_		5.55	7 133 32-1	06/03/08 19:53	05/28/08	; 08
Pate Analyzed										
otal Nitrogen	251 2/252 2		6/18/08 S8	1				06/18/08 12:39		
3.00	351.2/353.2	mg/kg	93.9	1	4	12		06/18/08 12:39		
SunLabs Sample Number	66704	Ena of S	Sample No: 66700 -				41			
Sample Number	66701				Matrix		Soil			
Sample Designation	SB-11R-7-6				Date Col	lected	5/21/	2008 11:05		
					Date Rec			2008 11:05		
ercent Moisture							-,,	2000 05.05		
6 Moisture										
Hoisture	160.3M	%	17			0.12		05/28/08		
<u>rsenic</u>								33, 23, 00		
ate Digested	3050									
ate Analyzed	6010		5/28/2008						05/28/08	08:
senic	6010	mg/kg	5/28/2008	1				05/28/08 21:18		
00414		mg/kg	0.24 U	1	0.24	0.96	7440-38-2	05/28/08 21:18	05/28/08 (	08:
CRA Metals-Totals										
ate Digested	3050		5/28/2008							
ate Analyzed	6010		6/3/2008						05/28/08 0	08:4
romium	6010	mg/kg	0.71 I	1 1	0.24	. 06 -	140 47 -	06/03/08 19:57		
pper	6010	mg/kg	0.072 U	1			440-47-3	-/	05/28/08 0	
ad	6010	mg/kg	0.072 U	<u>1</u>	*****************************		440-50-8 439-92-1	*******************************	05/28/08 0	
And Billians and the second				•	5.2.1	.,,, ,	7377721	06/03/08 19:57	05/28/08 0	)8:4
ital Nittoden in Solida										
otal Nitrogen in Solids te Analyzed										
te Analyzed tal Nitrogen in Solids tal Nitrogen	351.2/353.2	mg/kg	6/18/08 S8	11				06/18/08 12:39		

SunLabs, Inc. 5460 Beaumont Center Blvd., Suite 520 Tampa, FL 33634

Laboratory ID Number - E84809



SunLabs Project Number

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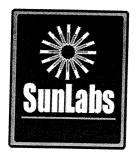
080522.01

Project Description

Arsenic Delineation

PBS&J

Parameters		***************************************					***************************************		
raiameters	Method	Units	Results	Dil Fac	MD ctor	L RI	. CAS Number	Date/Time Analyzed	Date/Time Prep
SunLabs Sample Number	66702				Matrix		Soil		
Sample Designation	Duplicate B				Date C				
	- apilicate B						-,-	1/2008 11:00	
					Date R	eceive	ea 5/2.	2/2008 09:35	
Percent Moisture								W. (//	
% Moisture	160.3M	%	11			0.11		05/28/08	
Arsenic								03/20/08	
Date Digested	3050								
Date Analyzed	6010		5/28/2008						05/28/08 08:45
Arsenic	6010	7	5/28/2008	1				05/28/08 21:20	
	0010	mg/kg	0.61 I	1	0.22	0.9	7440-38-2	05/28/08 21:20	05/28/08 08:45
RCRA Metals-Totals									
Date Digested	3050		E (20 (200 c						
Pate Analyzed	6010		5/28/2008	***************************************			***************************************		05/28/08 08:45
hromium	6010	mg/kg	6/3/2008	1				06/03/08 20:00	
opper	6010	mg/kg	13 0.067 U	1	0.22	0.9	7440-47-3	06/03/08 20:00	05/28/08 08:45
ead	6010	mg/kg	_	1	0.067	0.27	7440-50-8	06/03/08 20:00	05/28/08 08:45
	3313	mg/kg	2.1	1	0.22	0.9	7439-92-1	06/03/08 20:00	05/28/08 08:45
<u>otal Nitrogen in Solids</u>									-
ate Analyzed			6/18/08 S8						
otal Nitrogen	351.2/353.2	mg/kg	82.6	1			· · · · · · · · · · · · · · · · · · ·	06/18/08 12:39	
		BOSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS	02.0 Sample No: 66702 —	1	4	12	Market Commence	06/18/08 12:39	



SunLabs Project Number

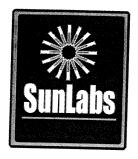
PBS&J

080522.01

Project Description

**Arsenic Delineation** 

Parameters	Method	Units	Results	Dil Fac	MC tor	L RL	CAS Number	Date/Time Analyzed	Date/Time Prep
SunLabs Sample Number	66703				Matrix	*********	Soil		
Sample Designation	SB-11R-8-2					Collected		(2000 11	
						eceived	٠,	1/2008 11:35 1/2008 09:35	
Dorgant Maistre		######################################		.111			J/ LL	72000 09.33	
Percent Moisture									
% Moisture	160.3M	%	20			0.12		05/28/08	
<u>Arsenic</u>									
Date Digested	3050		E/20/2000						
Date Analyzed	6010		5/28/2008 5/28/2008	4					05/28/08 08:45
Arsenic	6010	mg/kg	3.8	1	0.25	1	7440-38-2	05/28/08 21:22	
ron				•	0.25	•	7440-36-2	05/28/08 21:22	05/28/08 08:45
Date Digested	2050								
Pate Analyzed	3050 6010		5/28/2008						05/28/08 08:45
ron	6010	/1	5/29/2008	10	***************************************			05/29/08 10:43	
	0010	mg/kg	2400	10	1.2	5	7439-89-6	05/29/08 10:43	05/28/08 08:45
CRA Metals-Totals			* * <b>-</b>						
ate Digested	3050		5/28/2008						
ate Analyzed	6010		6/3/2008	1					05/28/08 08:45
hromium	6010	mg/kg	22	1	0.25	1	7440 47 7	06/03/08 20:04	
opper	6010	mg/kg	1.0	1	0.075		7440-47-3	06/03/08 20:04	05/28/08 08:45
ead	6010	mg/kg	1.7	1	0.25		7440-50-8 7439-92-1	06/03/08 20:04 06/03/08 20:04	05/28/08 08:45
otal Nitrogen in Solids				-		-		00,03,00 20:04	05/28/08 08:45
ate Analyzed									
otal Nitrogen	25. 2.00.		6/18/08 S8	1				06/18/08 12:39	
madgen	351.2/353.2	mg/kg	50.2	1	4	12		06/18/08 12:39	
		—— End of S	ample No: 66703 -						



SunLabs Project Number

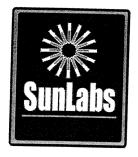
080522.01

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Project Description

**Arsenic Delineation** 

Parameters		Method	Units	Results	Dil Fac	MI tor	DL RL	CAS Number	Date/Time Analyzed	Date/Tim
SunLabs Sample Number	66704					Matrix				riep
Sample Designation	SB-11R-8							Soil		
- The Designation	2D-TIK-0	-4					Collecte	-,	1/2008 11:40	
		***************************************				Date F	Received	5/2	2/2008 09:35	
Percent Moisture										
% Moisture		160.3M	%							
		100.314		19			0.12		05/28/08	
<u>Arsenic</u>										
Date Digested		3050		5/28/2008						
Date Analyzed		6010		5/28/2008						05/28/08 08:4
Arsenic		6010	mg/kg	0.25 U	1	0.25	0.99	7440 20 0	05/28/08 21:25	
· · · · · · · · · · · · · · · · · · ·			9	0.23 0		0.23	0.99	7440-38-2	05/28/08 21:25	05/28/08 08:4
<u>Iron</u>										
Date Digested		3050		5/28/2008						
Date Analyzed		6010		5/29/2008	1			***************************************	05/29/08 09:35	05/28/08 08:45
Iron		6010	mg/kg	120	1	0.12	0.49	7439-89-6	05/29/08 09:35	05/25/00 00 10
RCRA Metals-Totals									03/23/00 03.33	05/28/08 08:45
Date Digested	¢ .	3050		5 (20 (Dan -						
Date Analyzed		6010		5/28/2008						05/28/08 08:45
Chromium		6010	mg/kg	6/3/2008 0.26 I	1	0.25			06/03/08 20:08	
Copper		6010	mg/kg	0.26 I	1	0.25	0.99	7440-47-3	06/03/08 20:08	05/28/08 08:45
ead		5010	mg/kg	0.074 U	1	0.074	0.3	7440-50-8	06/03/08 20:08	05/28/08 08:45
Cabal Nite			3/19	3,23 0		0.23	0.99	7439-92-1	06/03/08 20:08	05/28/08 08:45
otal Nitrogen in Solids										
Pate Analyzed				6/18/08 S8	1				00110100 10	
otal Nitrogen	351.	2/353.2	mg/kg	375	1	4	12		06/18/08 12:39	
			BODO BODO BODO BODO BODO BODO BODO BODO	ample No: 66704 —	•	•	••		06/18/08 12:39	



SunLabs Project Number

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080522.01

Project Description

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**Arsenic Delineation** 

Parameters	Method	Units	Results	Dil Fac		OL RL	CAS Numbe	Date/Time	Date/Time Prep
SunLabs Sample Number	66705				Matrix		Soi		
Sample Designation	SB-11R-8-6					Collecte			
						Receive		1/2008 11:45 2/2008 09:35	
Percent Moisture									
% Moisture	160.3M	%	16			0.12		05/28/08	
<u>Arsenic</u>								05/25/00	
Date Digested	3050								
Date Analyzed	6010		5/28/2008						05/28/08 08:45
vrsenic	6010	mg/kg	5/28/2008 0.24 U	1	0.24	0.05		05/28/08 21:27	
ron		9/9	0.24 0	1	0.24	0.95	7440-38-2	05/28/08 21:27	05/28/08 08:45
Pate Digested									
Pate Analyzed	3050		5/28/2008						05/28/08 08:45
on on	6010		5/29/2008	1				05/29/08 09:37	03/20/08 08:45
	6010	mg/kg	150	1	0.12	0.48	7439-89-6	05/29/08 09:37	05/28/08 08:45
CRA Metals-Totals									,,
ate Digested	3050		E /20/200 0						
ate Analyzed	6010		5/28/2008 6/3/2008	_					05/28/08 08:45
nromium	6010	mg/kg	1.0	11				06/03/08 20:11	
opper	6010	mg/kg	0.071 U	1	0.24	0.95	7440-47-3	06/03/08 20:11	05/28/08 08:45
ead	6010	mg/kg	0.24 U	1	0.071	0.29	7440-50-8	06/03/08 20:11	05/28/08 08:45
		37.13	0.24 0	1	0.24	0.95	7439-92-1	06/03/08 20:11	05/28/08 08:45
otal Nitrogen in Solids									
ate Analyzed			6/18/08 S8	1					
otal Nitrogen	351.2/353.2	mg/kg	172	1	4	12		06/18/08 12:39	
			ample No: 66705 -	-		-4		06/18/08 12:39	



SunLabs Project Number 080522.01

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Project Description

**Arsenic Delineation** 

June 19, 2008

Parameters	Method	Units	Results	D		DL RL	CAS	Date/Time	Date/Ti
Cuplaba Comala Numb				Fa	actor	***************************************	Number	Analyzed	Prep
SunLabs Sample Number	66706				Matrix		Soil		
Sample Designation	SB-11R-9-2				Date 0	Collected	d 5/2	1/2008 12:05	
					Date R	Received	5/2	2/2008 09:35	
Percent Moisture									
% Moisture	160.3M	%	11			0.11		05/28/08	
Arsenic						***************************************			
Date Digested	3050		E /20/2000						
Date Analyzed	6010		5/28/2008 5/28/2008						05/28/08 08
Arsenic	6010	mg/kg	1.0	1	0.22	0.9	7440-38-2	05/28/08 21:46 05/28/08 21:46	05/28/08 08
RCRA Metals-Totals	· · · · · · · · · · · · · · · · · · ·						7.10 30 2	03/20/00 21.40	05/28/08 08
Date Digested	3050		5/28/2008						
Date Analyzed	6010		6/3/2008	1				06/03/06 00 00	05/28/08 08
Chromium	6010	mg/kg	23	1	0.22	0.9	7440-47-3	06/03/08 20:39	
Copper	6010	mg/kg	1.3	1	0.067	0.27	7440-50-8	06/03/08 20:39 06/03/08 20:39	05/28/08 08
.ead	6010	mg/kg	2.6	i	0.22	0.9	7439-92-1	06/03/08 20:39	05/28/08 08 05/28/08 08
<u> Total Nitrogen in Solids</u>	*							, ,	,,
Date Analyzed			6/18/08 S8	1				06/10/09 12:20	
otal Nitrogen	351.2/353.2	mg/kg	111	1	4	12		06/18/08 12:39 06/18/08 12:39	
		End of .	Sample No: 66706 -					00/10/08 12.39	
SunLabs Sample Number	66707				Matrix		Soil		
Sample Designation	SB-11R-9-4				Date Co	llected		/2008 12:10	
-					Date Re			2008 12:10	
ercent Moisture									
6 Moisture	160 214								
	160.3M	%	19			0.12		05/28/08	
rsenic									
ate Digested	3050								05/20/00 00 1
ate Digested ate Analyzed			5/28/2008	1					05/28/08 08:4
ate Digested	3050	mg/kg		1 1	0.25	0.99	7440-38-2	05/28/08 21:48	
ate Digested ate Analyzed	3050 6010		5/28/2008 5/28/2008		0.25	0.99	7440-38-2	05/28/08 21:48	05/28/08 08:4 05/28/08 08:4
ate Digested ate Analyzed senic	3050 6010 6010		5/28/2008 5/28/2008 0.83 I		0.25	0.99	7440-38-2	05/28/08 21:48 05/28/08 21:48	05/28/08 08:4
ate Digested ate Analyzed senic CRA Metals-Totals	3050 6010 6010 3050		5/28/2008 5/28/2008 0.83 I 5/28/2008	1	0.25	0.99	7440-38-2	05/28/08 21:48 05/28/08 21:48	
ate Digested ate Analyzed senic  CRA Metals-Totals ate Digested ate Analyzed bromium	3050 6010 6010	mg/kg	5/28/2008 5/28/2008 0.83 I 5/28/2008 6/3/2008	1				05/28/08 21:48 05/28/08 21:48 06/03/08 20:43	05/28/08 08:4 05/28/08 08:4
ate Digested ate Analyzed senic  CRA Metals-Totals ate Digested ate Analyzed bromium upper	3050 6010 6010 3050 6010	mg/kg mg/kg	5/28/2008 5/28/2008 0.83 I 5/28/2008 6/3/2008	1 1 1	0.25	0.99	<del>744</del> 0-47-3	05/28/08 21:48 05/28/08 21:48 06/03/08 20:43 06/03/08 20:43 (	05/28/08 08:4 05/28/08 08:4 05/28/08 08:4
ate Digested ate Analyzed senic  CRA Metals-Totals ate Digested ate Analyzed bromium	3050 6010 6010 3050 6010 6010	mg/kg	5/28/2008 5/28/2008 0.83 I 5/28/2008 6/3/2008	1	0.25 0.074	0.99		05/28/08 21:48 05/28/08 21:48 06/03/08 20:43 06/03/08 20:43 06/03/08 20:43 06/03/08 20:43	05/28/08 08:4 05/28/08 08:4 05/28/08 08:4: 05/28/08 08:4:
ate Digested ate Analyzed senic  CRA Metals-Totals ate Digested ate Analyzed bromium upper	3050 6010 6010 3050 6010 6010 6010	mg/kg mg/kg mg/kg	5/28/2008 5/28/2008 0.83 I 5/28/2008 6/3/2008 17 0.074 U	1 1 1 1	0.25 0.074	0.99	7440-47-3 7440-50-8	05/28/08 21:48 05/28/08 21:48 06/03/08 20:43 06/03/08 20:43 06/03/08 20:43 06/03/08 20:43	05/28/08 08:4 05/28/08 08:4 05/28/08 08:4: 05/28/08 08:4:
ate Digested ate Analyzed rsenic  CRA Metals-Totals ate Digested ate Analyzed aromium apper	3050 6010 6010 3050 6010 6010 6010	mg/kg mg/kg mg/kg	5/28/2008 5/28/2008 0.83 I 5/28/2008 6/3/2008 17 0.074 U	1 1 1 1	0.25 0.074	0.99	7440-47-3 7440-50-8	05/28/08 21:48 05/28/08 21:48 06/03/08 20:43 06/03/08 20:43 06/03/08 20:43 06/03/08 20:43	05/28/08 08:4

SunLabs, Inc. 5460 Beaumont Center Blvd., Suite 520 Tampa, FL 33634

Laboratory ID Number - E84809



SunLabs Project Number

PBS&J

080522.01

Project Description

**Arsenic Delineation** 

June 19, 2008

Parameters	Method	l Units	Results	D		OL RL	CAS	Date/Time	Date/Ti
SunLabs Sample Number	66708			Fa	ctor	R <b>MMINISTER</b>	Numbe	r Analyzed	Prep
					Matrix		Soi		
Sample Designation	SB-11R-9-6					Collecte		1/2008 12:15	
					Date F	Receive	d 5/2	2/2008 09:35	
Percent Moisture			•						
% Moisture	160.3M	%	19			0.12		05/28/08	
<u>Arsenic</u>								10,000	
Date Digested	3050		E/20/2000						
Date Analyzed	6010		5/28/2008 5/28/2008						05/28/08 08
Arsenic	6010	mg/kg	0.25 U	1 1	0.25	0.99	7440-38-2	05/28/08 21:50	
RCRA Metals-Totals						0.55	7+10-36-2	05/28/08 21:50	05/28/08 08
Date Digested	3050		F /20 /200						
Date Analyzed	6010		5/28/2008						05/28/08 08
Chromium	6010	ma/ka	6/3/2008	1				06/03/08 20:46	***************************************
Copper	6010	mg/kg	0.29 I	1	0.25	0.99	7440-47-3	06/03/08 20:46	,,
Lead	6010	mg/kg mg/kg	0.074 U 0.25 U	1	0.074 0.25	0.3 0.99	7440-50-8	06/03/08 20:46	
Total Nitrogen in Solids	*			1	0.23	0.99	7439-92-1	06/03/08 20:46	05/28/08 08
Date Analyzed									
Total Nitrogen	351.2/353.2	2 mg/kg	6/18/08 S8	1				06/18/08 12:39	
	331.2/333.2	CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR	32.8 Sample No: 66708	1	4	12		06/18/08 12:39	NO. (100-100-100-100-100-100-100-100-100-100
SunLabs Sample Number	66709		Jumpie 210, 00708	( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( (	N4 - 4 - 2				
Sample Designation	SB-11R-10-2				Matrix		Soil		
odnipie besignation	2P-TTK-T0-5				Date Co		5/21	/2008 13:40	
					Date Re	ceived	5/22,	/2008 09:35	
<u>Percent Moisture</u>									
% Moisture	160.3M	%	21			0.13			
		70	21			0.13		05/28/08	
Arsenic									
Pate Digested Pate Analyzed	3050		5/28/2008						05/28/08 08:4
rsenic	6010		5/28/2008	1				05/28/08 21:52	03/20/00 00.4
	6010	mg/kg	2.2	1	0.25	1	7440-38-2	05/28/08 21:52	05/28/08 08:4
CRA Metals-Totals								•	**************************************
ate Digested	3050		E/39/3000						
ate Analyzed	6010		5/28/2008 6/3/2008						05/28/08 08:4
romium	6010	mg/kg		1	0.25			06/03/08 20:50	
opper	6010	mg/kg	15 0.076 U	1 1	0.25 0.076		7440-47-3		05/28/08 08:4
ead	6010	mg/kg	2.6	<u>_</u> 1			7 <del>44</del> 0-50-8 7439-92-1		05/28/08 08:4 05/28/08 08:4
otal Nitrogen in Solids								25,55,00 20.30	93/20/00 U8:4
ate Analyzed			6/19/00 00						
tal Nitrogen	351.2/353.2	mg/kg	6/18/08 S8 90.7	1				06/18/08 12:39	
				1	4	12		06/18/08 12:39	

SunLabs, Inc. 5460 Beaumont Center Blvd., Suite 520 Tampa, FL 33634

Laboratory ID Number - E84809



SunLabs Project Number

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Project Description

**Arsenic Delineation** 

June 19, 2008

Parameters		Method	Units	Results	Di Fa	l MI ctor	DL RL	CAS Number	Date/Time Analyzed	Date/Tii Prep
SunLabs Sample Number	66710					Matrix		Soil		**************************************
Sample Designation	Duplicate	C			11 (Works or 1997)	Date (	Collected Received	5/2:	1/2008 13:40 2/2008 09:35	
Percent Moisture										***************************************
% Moisture		160.3M	%	10			0.11		05/28/08	
Arsenic									03/23/00	
Date Digested		2050								
Date Analyzed		3050		5/28/2008						05/28/08 08:
Arsenic		6010		5/28/2008	• 1				05/28/08 21:55	
		6010	mg/kg	1.4	1_	0.22	0.89	7440-38-2	05/28/08 21:55	05/28/08 08:
RCRA Metals-Totals										
Date Digested	4	3050								
Date Analyzed		3050		5/28/2008						05/28/08 08:
Chromium		6010		6/3/2008	1				06/03/08 20:53	
Copper		6010	mg/kg	13	1	0.22	0.89	7440-47-3	06/03/08 20:53	05/28/08 08:4
Lead		6010	mg/kg	0.067 U	1	0.067	0.27	7440-50-8	06/03/08 20:53	05/28/08 08:4
		6010	mg/kg	2.5	ì	0.22	0.89	7439-92-1	06/03/08 20:53	05/28/08 08:4
<u>Total Nitrogen in Solids</u>				, -						
Date Analyzed										
Total Nitrogen	251	3/252.2		6/18/08 S8	1				06/18/08 12:39	
-	351	.2/353.2	mg/kg	95.5	1	4	12		06/18/08 12:39	
S			Ena of S	Sample No: 66710	-					
SunLabs Sample Number	66711					Matrix		Soil		
Sample Designation	SB-11R-10	-4				Date Co	llected		2000 12.45	
•		•				Date Re			2008 13:45 2008 09:35	
Percent Moisture								,		
6 Moisture	16	60.3M	%	11			0.11		05/28/08	
<u> Arsenic</u>										
ate Digested	3	8050		5/28/2008						
ate Analyzed		010		5/28/2008	1	***********				05/28/08 08:45
rsenic		010	mg/kg	0.44 I	1	0.22	0.0	7440.00.0	05/28/08 21:57	
			9/9	0.77 1	T	0.22	0.9	7440-38-2	05/28/08 21:57	05/28/08 08:45
CRA Metals-Totals										
ate Digested	3	050		5/28/2008						
ate Analyzed		010		6/3/2008						05/28/08 08:45
hromium		010	mg/kg	6/3/2008 25	1	0.22	0.0		06/03/08 20:57	
		010	mg/kg	25 0.99	1					05/28/08 08:45
opper			mg/kg	3.8	1				***************************************	05/28/08 08:45
opper	60	110			4	0.42	U. 7	7439-92-1	06/03/08 20:57	05/28/08 08:45
ead	60	710	1119/109	5.0						
otal Nitrogen in Solids	60	010	g/ kg							,
ead		/353.2	mg/kg	6/18/08 S8 158	1				06/18/08 12:39	,

SunLabs, Inc. 5460 Beaumont Center Blvd., Suite 520 Tampa, FL 33634

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SunLabs Project Number

080522.01

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Project Description

**Arsenic Delineation** 

June 19, 2008

Parameters	Method	Units	Results		Dil M Factor	DL RL	CAS Numbe	Date/Time er Analyzed	Date/Tir Prep
SunLabs Sample Number	66712				Matrix	<	So	il	
Sample Designation	SB-11R-10-6				Date	Collecte		 21/2008 13:50	
						Receive		22/2008 09:35	
Percent Moisture							***************************************		
% Moisture	160.3M	%	17			0.12		05/20/00	
Arsenic				***************************************		0.12		05/28/08	
Date Digested	2050								
Date Analyzed	3050		5/28/2008						05/28/08 08:
Arsenic	6010		5/28/2008	1				05/28/08 21:59	
	6010	mg/kg	0.24 U	1	0.24	0.96	7440-38-2	05/28/08 21:59	05/28/08 08:
RCRA Metals-Totals									
Date Digested Date Analyzed	3050		5/28/2008						05/28/08 08:4
Chromium	6010		6/3/2008	1	***************************************			06/03/08 21:01	03/26/06 08:
Copper	6010	mg/kg	1.7	1	0.24	0.96	7440-47-3	06/03/08 21:01	05/28/08 08:4
Lead	6010	mg/kg	0.072 U	1	0.072	0.29	7440-50-8	06/03/08 21:01	05/28/08 08:4
Leau	6010	mg/kg	0.24 U	i	0.24	0.96	7439-92-1	06/03/08 21:01	05/28/08 08:4
Total Nitrogen in Solids									
Date Analyzed			6/18/08 S8	1				0640/00	
Total Nitrogen	351.2/353.2	mg/kg	51.9	1	4	12		06/18/08 12:39	
	- Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Comp	CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR	Sample No: 66712 -		'	72		06/18/08 12:39	
SunLabs Sample Number	66713				Matrix		Soil		
Sample Designation	SB-11R-11-2								
a sold in an in the second	2P-11K-11-2				Date Co			/2008 14:15	
					Date No	ccived	3/22	/2008 09:35	
Percent Moisture									
6 Moisture	160.3M	%	11			0.11		05/28/08	
<u>Arsenic</u>								03/20/00	
ate Digested	3050		F/55/5						
ate Analyzed	6010		5/28/2008						05/28/08 08:45
rsenic	6010	ma/ka	5/28/2008	1				05/28/08 22:02	
		mg/kg	0.33 I	1	0.22	0.9	7440-38-2	05/28/08 22:02	05/28/08 08:45
CRA Metals-Totals									
ate Digested	3050		E /20/2000						
ate Analyzed	6010		5/28/2008						05/28/08 08:45
romium	6010	mg/kg	6/3/2008 12	1				06/03/08 21:04	
ppper	6010	mg/kg	0.067 U	1	0.22	0.9	7440-47-3		05/28/08 08:45
ead	6010	mg/kg	1.8	1 1	0.067 0.22	0.27	7440-50-8 7439-92-1		05/28/08 08:45 05/28/08 08:45
otal Nituagas is Call I				-				00/00/00 21:04 (	JJ/20/U8 U8:45
<u>vrai Microgen in Solias</u>									
otal Nitrogen in Solids ate Analyzed			****						
	351.2/353.2	mg/kg	6/18/08 S8 181	1	4	12		06/18/08 12:39	

SunLabs, Inc.

5460 Beaumont Center Blvd., Suite 520

Tampa, FL 33634

Laboratory ID Number - E84809

Phone: (813) 881-9401 Email: Info@SunLabsInc.com

Website: www.SunLabsInc.com



SunLabs Project Number

PBS&J

080522.01

Project Description

**Arsenic Delineation** 

June 19, 2008

Parameters	Method	Units	Results	Di Fa	ME ctor	L RL	CAS Number	Date/Time Analyzed		e/Tim Prep
SunLabs Sample Number	66714				Matrix		Soil			
Sample Designation	SB-11R-11-4				-	Collected	5/2	1/2008 14:20 2/2008 09:35		
							. 5/2	-/2000 09.33	********************	
Percent Moisture % Moisture										
70 Mosture	160.3M	%	19			0.12		05/28/08		
Arsenic								-		
Date Digested	3050		5/28/2008							
Date Analyzed	6010		5/28/2008						05/28/0	18 08:4
Arsenic	6010	mg/kg	0.25 U	1 1	0.25	0.99	7440-38-2	05/28/08 22:04		
DCDA Motole Totale			0.25		0.23	0.33	7770-30-2	05/28/08 22:04	05/28/0	8 08:4
RCRA Metals-Totals										
Date Digested	3050		5/28/2008						05/28/08	0 00.4
Date Analyzed Chromium	6010		6/3/2008	1	***************************************			06/03/08 21:08	03/20/00	0 00.43
Copper	6010	mg/kg	0.66 I	1	0.25	0.99	7440-47-3	06/03/08 21:08	05/28/08	8 08-4
Lead	6010	mg/kg	0.074 U	1	0.074	0.3	7440-50-8	06/03/08 21:08	05/28/08	
2000	6010	mg/kg	0.25 U	1	0.25	0.99	7439-92-1	06/03/08 21:08	05/28/08	
Total Nitrogen in Solids										
Date Analyzed			6/10/00 00	_						
Total Nitrogen	351.2/353.2	mg/kg	6/18/08 S8 104	1	4	12		06/18/08 12:39		
		99000000000000000000000 <del>00</del>	Sample No: 66714 -	1	7	12		06/18/08 12:39		SKITTON COLUMN
SunLabs Sample Number	66715		1							
Sample Designation	· · · · <del>- •</del>				Matrix		Soil			
Sample Designation	SB-11R-11-6				Date Co	llected	5/21/	2008 14:25		
					Date Re	ceived	5/22/	2008 09:35		
Percent Moisture										
% Moisture	160.3M	%	42							
	100.514	76	13			0.11		05/28/08		
<u>Arsenic</u>										
Date Digested	3050		5/28/2008							
Pate Analyzed	6010		5/28/2008	1				05/20/00 20 11	05/28/08	08:45
rsenic	6010	mg/kg	1.5	1	0.23	0.92	7440-38-2	05/28/08 22:11 05/28/08 22:11	05/20/00	
CCRA Metals-Totals				······				03/20/08 22.11	05/28/08	08:45
Pate Digested	3050		5/28/2008						05/28/08	08:45
ate Analyzed hromium	6010		6/3/2008	1				06/03/08 21:18	- 5, 25, 00	30.73
opper	6010	mg/kg	0.62 I	1	0.23	0.92	7440-47-3		05/28/08	08:45
ead ead	6010	mg/kg	0.069 U	1	0.069	0.28	7440-50-8		05/28/08	
<del></del>	6010	mg/kg	0.23 U	1	0.23	0.92	7439-92-1		05/28/08	
otal Nitrogen in Solids										
ate Analyzed			C/10/02 ==							
			6/18/08 S8	1				06/18/08 12:39		
otal Nitrogen	351.2/353.2	mg/kg	149	1	4	12		06/18/08 12:39		

SunLabs, Inc.

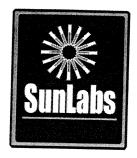
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SunLabs Project Number

080522.01

PBS&J

Project Description

**Arsenic Delineation** 

Parameters	Method	Units	Results	Dil Fac		DL RL	CAS Number	Date/Time Analyzed	Date/Time Prep
SunLabs Sample Number	66716				Matrix		C-:1		· · · · · · · · · · · · · · · · · · ·
Sample Designation	SB-11R-12-2						Soil		
	3D-11K-12-2					Collected	, -	1/2008 14:35	
					Date F	Received	5/2:	2/2008 09:35	
Percent Moisture							,		
% Moisture	160,3M	0/							
	100.314	%	9			0.11		05/28/08	
<u>Arsenic</u>									
Date Digested	3050		F (20 /2000						
Date Analyzed	6010		5/28/2008						05/28/08 08:45
Arsenic	6010	mg/kg	5/28/2008	1				05/28/08 22:13	
	0010	mg/kg	0.45 I	1	0.22	0.88	7440-38-2	05/28/08 22:13	05/28/08 08:45
<u>Iron</u>									
Date Digested	3050		E/20/2000						
Date Analyzed	6010	***************************************	5/28/2008 5/29/2008						05/28/08 08:45
[ron	6010	mg/kg	690	5	0.55			05/29/08 10:48	
		mg/kg	090	5	0.55	2.2	7439-89-6	05/29/08 10:48	05/28/08 08:45
RCRA Metals-Totals									
Date Digested	3050		5/28/2008						
Pate Analyzed	6010		6/3/2008						05/28/08 08:45
Chromium	6010	mg/kg	4.4	1 1	0.22	0.00	7440 47 0	06/03/08 21:22	
Copper	6010	mg/kg	0.066 U	1	0.22	0.88	7440-47-3	06/03/08 21:22	05/28/08 08:45
ead	6010	mg/kg	0.90	1	0.000	0.26	7440-50-8	06/03/08 21:22	05/28/08 08:45
Catal Size		3/19	0.50		0.22	0.08	7439-92-1	06/03/08 21:22	05/28/08 08:45
otal Nitrogen in Solids									
ate Analyzed			6/18/08 S8						
otal Nitrogen	351.2/353.2	mg/kg	202	1	4	13		06/18/08 12:39	
			ample No: 66716 -	1	7	12		06/18/08 12:39	



SunLabs **Project Number** 

080522.01

PBS&J

Project Description

**Arsenic Delineation** 

Parameters	Method	Units	Results	Dil Fac	MD ctor	L RL	CAS Number	Date/Time Analyzed	Date/Time Prep
SunLabs Sample Number	66717				Matrix		Soil		
Sample Designation	SB-11R-12-4					ollected		/2000 14.40	
						eceived	-,	/2008 14:40 /2008 09:35	
Percent Moisture			-					***************************************	
% Moisture	160.3M	%	12			0.11		05/28/08	
Arsenic									
Date Digested	3050								
Date Analyzed	6010		5/28/2008						05/28/08 08:45
Arsenic	6010	mg/kg	5/28/2008 0.23 U	1	0.23	0.91	7440-38-2	05/28/08 22:16 05/28/08 22:16	05/28/08 08:45
<u>Iron</u>								03/20/00 22.10	03/20/00 08:45
Date Digested	3050		E/20/2000						
Date Analyzed	6010		5/28/2008 5/29/2008						05/28/08 08:45
ron	6010	mg/kg	16	<u>1</u> 1	0.11	0.45	7439-89-6	05/29/08 09:56 05/29/08 09:56	05/28/08 08:45
RCRA Metals-Totals									05/25/00 00.45
Date Digested	3050		5/28/2008						
Date Analyzed	6010		6/3/2008	1				05/03/00 04 04	05/28/08 08:45
Chromium	6010	mg/kg	0.23 U	1	0.23	0.91	7440-47-3	06/03/08 21:25	A
Copper	6010	mg/kg	0.068 U	1	0.068		7440-50-8	06/03/08 21:25 06/03/08 21:25	05/28/08 08:45
ead	6010	mg/kg	0.23 U	1	0.23	************	7439-92-1		05/28/08 08:45 05/28/08 08:45
otal Nitrogen in Solids								,,	03/20/00 00.43
ate Analyzed			6/10/00 00						
otal Nitrogen	351.2/353.2	mg/kg	6/18/08 S8 53.5	1				06/18/08 12:39	
	552.0,555.2		53.5 ample No: 66717	1	4	12		06/18/08 12:39	



SunLabs Project Number

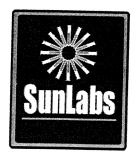
080522.01

PBS&J

Project Description

**Arsenic Delineation** 

Parameters	Method	Units	Results	Dil Fac	MD tor	L RL	CAS Number	Date/Time Analyzed	Date/Time Prep
SunLabs Sample Number	66718				Matrix	*************	Soil		
Sample Designation	SB-11R-12-6					ollected		/2000 14.45	
		211.00.00.00.00.00.00.00.00.00.00.00.00.0				eceived		/2008 14:45 2/2008 09:35	
Percent Moisture								***************************************	Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Ma
% Moisture	160.3M	%	15			0.12		05/28/08	
Arsenic								03/20/00	
Date Digested	3050		E /20/2000						
Date Analyzed	6010		5/28/2008 5/28/2008						05/28/08 08:45
Arsenic	6010	mg/kg	3/26/2008 I 93.0	1	0.24	0.94	7440-38-2	05/28/08 22:18	
Iron		3/.3	0.05 1		0.24	0.54	7440-38-2	05/28/08 22:18	05/28/08 08:45
Date Digested	3050		F (20/2000						
Date Analyzed	6010		5/28/2008					****	05/28/08 08:45
Iron	6010	mg/kg	5/29/2008 1900	10		4.7		05/29/08 10:50	
		mg/kg	1900	10	1.2	4.7	7439-89-6	05/29/08 10:50	05/28/08 08:45
RCRA Metals-Totals				-					
Date Digested	3050		5/28/2008						
Date Analyzed	6010		6/3/2008	1				06/02/02 21 22	05/28/08 08:45
Chromium	6010	mg/kg	0.69 I	1	0.24	0.94	7 <del>44</del> 0-47 <b>-</b> 3	06/03/08 21:29	
Copper	6010	mg/kg	0.071 U	1	0.071		7440-50-8	06/03/08 21:29	05/28/08 08:45
_ead	6010	mg/kg	0.24 U	1	0.24		7439-92-1	06/03/08 21:29 06/03/08 21:29	05/28/08 08:45
Cotal Nitroman in Call 1						-101		00/03/00 21:29	05/28/08 08:45
Total Nitrogen in Solids									
Date Analyzed			6/18/08 S8	1				06/18/08 12:39	
otal Nitrogen	351.2/353.2	mg/kg	95.0	1	4	12		06/18/08 12:39	
		— End of S	ample No: 66718 -					, 20,00 12.33	



SunLabs Project Number

PBS&J

080522.01

Project Description

**Arsenic Delineation** 

June 19, 2008

Parameters	Method	Units	Results	Di Fa	l MI ctor	DL RL	CAS Number	Date/Time Analyzed	Date/Tim Prep
SunLabs Sample Number	66719				Matrix		Soil		
Sample Designation	SB-11R-13-2				Date (	Collected		1/2008 14:55	
WARRANT TO THE TAXABLE PROPERTY OF THE TAXABLE PROPERTY OF THE TAXABLE PROPERTY OF THE TAXABLE PROPERTY OF THE TAXABLE PROPERTY OF THE TAXABLE PROPERTY OF THE TAXABLE PROPERTY OF THE TAXABLE PROPERTY OF THE TAXABLE PROPERTY OF THE TAXABLE PROPERTY OF THE TAXABLE PROPERTY OF THE TAXABLE PROPERTY OF THE TAXABLE PROPERTY OF THE TAXABLE PROPERTY OF THE TAXABLE PROPERTY OF THE TAXABLE PROPERTY OF THE TAXABLE PROPERTY OF THE TAXABLE PROPERTY OF THE TAXABLE PROPERTY OF THE TAXABLE PROPERTY OF THE TAXABLE PROPERTY OF THE TAXABLE PROPERTY OF THE TAXABLE PROPERTY OF THE TAXABLE PROPERTY OF THE TAXABLE PROPERTY OF THE TAXABLE PROPERTY OF THE TAXABLE PROPERTY OF THE TAXABLE PROPERTY OF THE TAXABLE PROPERTY OF TAXABLE PROPERTY OF TAXABLE PROPERTY OF TAXABLE PROPERTY OF TAXABLE PROPERTY OF TAXABLE PROPERTY OF TAXABLE PROPERTY OF TAXABLE PROPERTY OF TAXABLE PROPERTY OF TAXABLE PROPERTY OF TAXABLE PROPERTY OF TAXABLE PROPERTY OF TAXABLE PROPERTY OF TAXABLE PROPERTY OF TAXABLE PROPERTY OF TAXABLE PROPERTY OF TAXABLE PROPERTY OF TAXABLE PROPERTY OF TAXABLE PROPERTY OF TAXABLE PROPERTY OF TAXABLE PROPERTY OF TAXABLE PROPERTY OF TAXABLE PROPERTY OF TAXABLE PROPERTY OF TAXABLE PROPERTY OF TAXABLE PROPERTY OF TAXABLE PROPERTY OF TAXABLE PROPERTY OF TAXABLE PROPERTY OF TAXABLE PROPERTY OF TAXABLE PROPERTY OF TAXABLE PROPERTY OF TAXABLE PROPERTY OF TAXABLE PROPERTY OF TAXABLE PROPERTY OF TAXABLE PROPERTY OF TAXABLE PROPERTY OF TAXABLE PROPERTY OF TAXABLE PROPERTY OF TAXABLE PROPERTY OF TAXABLE PROPERTY OF TAXABLE PROPERTY OF TAXABLE PROPERTY OF TAXABLE PROPERTY OF TAXABLE PROPERTY OF TAXABLE PROPERTY OF TAXABLE PROPERTY OF TAXABLE PROPERTY OF TAXABLE PROPERTY OF TAXABLE PROPERTY OF TAXABLE PROPERTY OF TAXABLE PROPERTY OF TAXABLE PROPERTY OF TAXABLE PROPERTY OF TAXABLE PROPERTY OF TAXABLE PROPERTY OF TAXABLE PROPERTY OF TAXABLE PROPERTY OF TAXABLE PROPERTY OF TAXABLE PROPERTY OF TAXABLE PROPERTY OF TAXABLE PROPERTY OF TAXABLE PROPERTY OF TAXABLE PROPERTY OF TAXABLE PROPERTY OF TAXABLE PROPERTY OF TAXABLE PROPERTY OF TAXABLE PROPERTY OF					Date F	Received		2/2008 09:35	
Percent Moisture									**************************************
% Moisture	160.3M	%	10			0.11		05/28/08	
Arsenic								93/20/00	
Date Digested	3050		F /20/2000						
Date Analyzed	6010		5/28/2008	4					05/28/08 08:4
Arsenic	6010	mg/kg	5/28/2008 1.4	<u>1</u> 1	0.22	0.89	7440-38-2	05/28/08 22:20 05/28/08 22:20	05/28/08 08:4
RCRA Metals-Totals								.,,	03,20,00 00.4.
Date Digested	3050		5/28/2008						
Date Analyzed	6010		6/3/2008	1				00/03/00 24 22	05/28/08 08:45
Chromium	6010	mg/kg	18	1	0.22	0.89	7440-47-3	06/03/08 21:33 06/03/08 21:33	05/20/02 20 45
Copper	6010	mg/kg	1.0	1	0.067		7440-50-8	06/03/08 21:33	05/28/08 08:45
Lead	6010	mg/kg	2.2	1	0.22	0.89	7439-92-1	06/03/08 21:33	05/28/08 08:45 05/28/08 08:45
<u>Total Nitrogen in Solids</u>									
Date Analyzed			6/18/08 S8						
Total Nitrogen	351.2/353.2	mg/kg	280	1 1	4	12		06/18/08 12:39	
		CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR	Sample No: 66719 -			12		06/18/08 12:39	
SunLabs Sample Number	66720				Matrix		Soil		
Sample Designation	SB-11R-13-4				Date Co	لحمادها		(2000 1 =	
- ampire of congritudion	3D-11K-13-4				Date Re			/2008 15:00 /2008 09:35	
Namanuk Marint							-,,	2000 05.55	
Percent Moisture									
% Moisture	160.3M	%	11			0.11		05/28/08	
<u>Arsenic</u>									
Pate Digested	3050		5/28/2008						07/20/20
ate Analyzed	6010		5/28/2008	1					05/28/08 08:45
rsenic	6010	mg/kg	0.22 U	1	0.22	0.9	7440-38-2	05/28/08 22:22 05/28/08 22:22	05/28/08 08:45
CRA Metals-Totals									
ate Digested	3050		5/28/2008						
ate Analyzed	6010		6/3/2008	1					05/28/08 08:45
hromium	6010	mg/kg	0,3/2008 0.34 I	1 1	0.22	0.9	7440-47-3	06/03/08 21:36	
opper	6010	mg/kg	0.067 U	1	0.067		7440-47-3 7440-50-8		05/28/08 08:45
ead	6010	mg/kg	0.22 U	1	0.22		7439-92-1		05/28/08 08:45 05/28/08 08:45
otal Nitrogen in Solids			701 FT PART AND AND AND AND AND AND AND AND AND AND				***************************************	.,,	, co, co, co.45
ate Analyzed			6/18/08 S8	1				06/40/00	
otal Nitrogen	351.2/353.2	mg/kg	82.0	1 1	4	12		06/18/08 12:39	
	MINISTER PROPERTY AND CONTRACTOR OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PR	פייוכייי	U2.U	1	·T	14		06/18/08 12:39	

SunLabs, Inc.

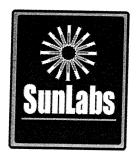
5460 Beaumont Center Blvd., Suite 520

Tampa, FL 33634

Laboratory ID Number - E84809

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SunLabs Project Number

PBS&J

080522.01

Project Description

**Arsenic Delineation** 

June 19, 2008

Parameters	Method	Units	Results	Dil Fac	MD tor	L RL	CAS Number	Date/Time Analyzed	Date/Time Prep
SunLabs Sample Number	66721				Matrix		Soil		-
Sample Designation	SB-11R-13-6					ollected		/2000 15:05	
						eceived	-,	./2008 15:05 2/2008 09:35	
Percent Moisture							**************************************		
% Moisture	160.3M	%	12			0.11		05/28/08	
<u>Arsenic</u>									
Date Digested	3050		F /20 /200						
Date Analyzed	6010		5/28/2008						05/28/08 08:45
Arsenic	6010	mg/kg	5/28/2008 0.23 U	<u>1</u> 1	0.23	0.91	7440 20 2	05/28/08 22:25	
<u>Iron</u>		<b>3</b> / Ng	0.23 0	1	0.23	0.91	7440-38-2	05/28/08 22:25	05/28/08 08:45
Date Digested	3050		T (00 (00 )						
Date Analyzed	6010		5/28/2008	_					05/28/08 08:45
ron	6010	mg/kg	5/29/2008 310	2	0.22	0.9	7439-89-6	05/29/08 10:53 05/29/08 10:53	05/28/08 08:45
RCRA Metals-Totals								, , , , , , , , , , , , , , , , , , , ,	10, 20, 00 00.15
Pate Digested	3050		F /20/200						
Date Analyzed	6010		5/28/2008						05/28/08 08:45
Chromium	6010	mg/kg	6/3/2008 0.76 I	1	0.22			06/03/08 21:40	
Copper	6010	mg/kg	0.76 I	1	0.23		7440-47-3	06/03/08 21:40	05/28/08 08:45
ead	6010	mg/kg	0.23 U	1	0.068		7440-50-8	06/03/08 21:40	05/28/08 08:45
		5,9	0.25 0	1	0.23	0.91	7439-92-1	06/03/08 21:40	05/28/08 08:45
otal Nitrogen in Solids	•								
ate Analyzed			6/18/08 S8	1				06/10/00 10	
otal Nitrogen	351.2/353.2	mg/kg	104	1	4	12		06/18/08 12:39	
		Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Contro	ample No: 66721 -	-				06/18/08 12:39	

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Website: www.SunLabsInc.com



SunLabs Project Number

080522.01

PBS&J

Project Description

**Arsenic Delineation** 

June 19, 2008

Parameters	Method	Units	Results	-	il MC actor	OL RL	CAS Numbe	Date/Time r Analyzed	Date/Time Prep
SunLabs Sample Number	66722				Matrix		Soi	1	
Sample Designation	SB-11R-14-2				Date (	Collecte	d 5/2	21/2008 15:15	
A THE RESIDENCE OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF					Date F	Received		2/2008 09:35	
Percent Moisture									***************************************
% Moisture	160.3M	%	11			0.11		05/28/08	
Arsenic				-				05/20/08	
Date Digested	2050								
Date Analyzed	3050 6010		5/28/2008						05/28/08 08:4
Arsenic	6010		5/28/2008	1				05/28/08 22:27	
	6010	mg/kg	1.4	1	0.22	0.9	7440-38-2	05/28/08 22:27	05/28/08 08:4
RCRA Metals-Totals Date Digested									
Date Analyzed	3050	***************************************	5/28/2008						05/28/08 08:45
Chromium	6010		6/3/2008	1			C. COLORD ST. AND ST. AND ST. AND ST. AND ST. AND ST. AND ST. AND ST. AND ST. AND ST. AND ST. AND ST. AND ST.	06/03/08 21:43	
Copper	6010	mg/kg	2.3	1	0.22	0.9	7440-47-3	06/03/08 21:43	05/28/08 08:45
Lead	6010	mg/kg	0.067 U	1	0.067	0.27	7440-50-8	06/03/08 21:43	05/28/08 08:45
	6010	mg/kg	0.95	1	0.22	0.9	7439-92-1	06/03/08 21:43	05/28/08 08:45
Total Nitrogen in Solids			·						
Date Analyzed			6/18/08 S8	1				06/18/08 12:39	* *
Total Nitrogen	351.2/353.2	mg/kg	203	1	4	12		06/18/08 12:39	
		——End of .	Sample No: 66722 –					,	
SunLabs Sample Number	66723				Matrix		Soil		
Sample Designation	SB-11R-14-4				Date Co	llected		/2008 15:20	
, ,					Date Re			/2008 15:20	
Name and 1 A							-,,	,	*
Percent Moisture									
6 Moisture	160.3M	%	12			0.11		05/28/08	
6 Moisture <b>Arsenic</b>	160.3M	%	12			0.11		05/28/08	
		%				0.11			
rsenic	3050	%	5/28/2008			0.11			05/28/08 08:45
<b>Arsenic</b> Vate Digested		% mg/kg		1 1	0.23	0.11	7440-38-2	05/28/08 22:30	
Arsenic late Digested late Analyzed rsenic	3050 6010		5/28/2008 5/28/2008	_	0.23		7440-38-2	05/28/08 22:30	05/28/08 08:45 05/28/08 08:45
Arsenic late Digested ate Analyzed	3050 6010 6010		5/28/2008 5/28/2008 1.7	_	0.23		7440-38-2	05/28/08 22:30	
Arsenic Pate Digested Pate Analyzed Prsenic CRA Metals-Totals	3050 6010 6010 3050		5/28/2008 5/28/2008 1.7 5/28/2008	1	0.23		7440-38-2	05/28/08 22:30 05/28/08 22:30	
Arsenic late Digested late Analyzed rsenic ICRA Metals-Totals ate Digested	3050 6010 6010 3050 6010	mg/kg	5/28/2008 5/28/2008 1.7 5/28/2008 6/3/2008	1		0.91		05/28/08 22:30 05/28/08 22:30 06/03/08 21:47	05/28/08 08:45 05/28/08 08:45
Arsenic Vate Digested Vate Analyzed Varsenic VCRA Metals-Totals Vate Digested Vate Analyzed Vate Analyzed Vate Analyzed	3050 6010 6010 3050 6010 6010	mg/kg mg/kg	5/28/2008 5/28/2008 1.7 5/28/2008 6/3/2008 0.55 I	1 1	0.23	0.91	7440-47-3	05/28/08 22:30 05/28/08 22:30 06/03/08 21:47 06/03/08 21:47	05/28/08 08:45 05/28/08 08:45 05/28/08 08:45
arsenic ate Digested ate Analyzed rsenic  CRA Metals-Totals ate Digested ate Analyzed are Analyzed aromium opper	3050 6010 6010 3050 6010	mg/kg	5/28/2008 5/28/2008 1.7 5/28/2008 6/3/2008	1		0.91 0.91 0.27	7440-47-3 7440-50-8	05/28/08 22:30 05/28/08 22:30 06/03/08 21:47 06/03/08 21:47 06/03/08 21:47	05/28/08 08:45 05/28/08 08:45 05/28/08 08:45 05/28/08 08:45
Arsenic Nate Digested Nate Analyzed Isenic  ICRA Metals-Totals Nate Analyzed Nate Analyzed Nate Analyzed Nate Analyzed Nate Analyzed Nate Analyzed Nate Analyzed Nate Analyzed Nate Analyzed Nate Analyzed Nate Analyzed Nate Analyzed	3050 6010 6010 3050 6010 6010 6010	mg/kg mg/kg mg/kg	5/28/2008 5/28/2008 1.7 5/28/2008 6/3/2008 0.55 I 0.068 U	1 1 1 1	0.23 0.068	0.91 0.91 0.27	7440-47-3	05/28/08 22:30 05/28/08 22:30 06/03/08 21:47 06/03/08 21:47 06/03/08 21:47	05/28/08 08:45 05/28/08 08:45 05/28/08 08:45
Arsenic Nate Digested Nate Analyzed Irsenic  ICRA Metals-Totals Nate Digested Nate Analyzed Nate Ana	3050 6010 6010 3050 6010 6010 6010	mg/kg mg/kg mg/kg	5/28/2008 5/28/2008 1.7 5/28/2008 6/3/2008 0.55 I 0.068 U 0.23 U	1 1 1 1	0.23 0.068	0.91 0.91 0.27	7440-47-3 7440-50-8	05/28/08 22:30 05/28/08 22:30 06/03/08 21:47 06/03/08 21:47 06/03/08 21:47	05/28/08 08:45 05/28/08 08:45 05/28/08 08:45 05/28/08 08:45
Arsenic Vate Digested Vate Analyzed Varsenic VCRA Metals-Totals Vate Analyzed Vate Analyzed Vate Analyzed Vate Analyzed Vate Analyzed Vate Analyzed Vate Analyzed Vate Analyzed Vate Analyzed	3050 6010 6010 3050 6010 6010 6010	mg/kg mg/kg mg/kg	5/28/2008 5/28/2008 1.7 5/28/2008 6/3/2008 0.55 I 0.068 U	1 1 1 1	0.23 0.068	0.91 0.91 0.27	7440-47-3 7440-50-8	05/28/08 22:30 05/28/08 22:30 06/03/08 21:47 06/03/08 21:47 06/03/08 21:47	05/28/08 08:45 05/28/08 08:45 05/28/08 08:45 05/28/08 08:45

SunLabs, Inc.

5460 Beaumont Center Blvd., Suite 520

Tampa, FL 33634

Laboratory ID Number - E84809



SunLabs Project Number PBS&J

080522.01

Project Description

**Arsenic Delineation** 

June 19, 2008

Parameters	Method	Units	Results	D Fa	il MI actor	DL RL	CAS Number	Date/Time Analyzed	Date/Tin Prep
SunLabs Sample Number	66724				Matrix		Soi		
Sample Designation	SB-11R-14-6				Date (	Collecte	d 5/2	1/2008 15:25	
					Date I	Receive		2/2008 09:35	
Percent Moisture									
% Moisture	160.3M	%	21			0.13		05/28/08	
Arsenic							-	,,	
Date Digested	3050		F (20 (200 0						
Date Analyzed	6010		5/29/2008						05/29/08 08:0
Arsenic	6010	mg/kg	5/29/2008 3.2	1	0.25		7440 20 2	05/29/08 20:00	
DCDA Motole Tetale		119/19	5.2		0.23	1	7440-38-2	05/29/08 20:00	05/29/08 08:0
RCRA Metals-Totals									
Date Digested	3050		5/29/2008						05/29/08 08:0
Date Analyzed	6010		5/29/2008	1				05/29/08 20:00	03/23/08 08.0
Chromium	6010	mg/kg	0.59 I	1	0.25	1	7440-47-3	05/29/08 20:00	05/29/08 08:0
Copper	6010	mg/kg	0.076 U	1	0.076	0.3	7440-50-8	05/29/08 20:00	05/29/08 08:0
Lead	6010	mg/kg	0.25 U	1	0.25	1	7439-92-1	05/29/08 20:00	05/29/08 08:0
<u>Total Nitrogen in Solids</u>									
Date Analyzed			6/18/08 S8	1				06/10/00 12 20	
Total Nitrogen	351.2/353.2	2 mg/kg	37.8	1	4	12		06/18/08 12:39 06/18/08 12:39	
*		NOTES SECURE AND A SECURE OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF T	Sample No: 66724		·			00/10/08 12:39	
SunLabs Sample Number	66725				Matrix		Soil		
Sample Designation	Duplicate D				Date Co	lacted		/2000 15.25	
pro e congruedor.	Duplicate D				Date Re			/2008 15:25 /2008 09:35	
					Dutc M	ccived	3/22/	2006 09:33	
Percent Moisture									
6 Moisture	160.3M	%	16			0.12		05/28/08	
<u>Arsenic</u>									
ate Digested	3050		5/29/2008						
ate Analyzed	6010		5/29/2008	1				A= (4-)	05/29/08 08:00
rsenic	6010	mg/kg	2.8	1	0.24	0.95	7440-38-2	05/29/08 20:51 05/29/08 20:51	05/29/08 08:00
CRA Metals-Totals								-5,-5,00 20.31	05/25/00 00:00
ate Digested	3050		F /20 /20						
ate Analyzed	3050 6010	•	5/29/2008						05/29/08 08:00
hromium	6010	ma/ks	6/2/2008	1				06/03/08 21:50	
opper	6010	mg/kg	0.54 I	1	0.24	0.95	7440-47-3		05/29/08 08:00
ead	6010	mg/kg mg/kg	0.071 U 0.24 U	1	0.071 0.24		7440-50-8 7439-92-1	***************************************	05/29/08 08:00
otal Nitrogen in Solids		J. J		*			55 52-1	00/03/00 21:00	05/29/08 08:00
ate Analyzed			######################################						
otal Nitrogen	351.2/353.2	mg/kg	6/18/08 S8 29.9	11				06/18/08 12:39	
				1	4	12			

SunLabs, Inc.

Laboratory ID Number - E84809

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5460 Beaumont Center Blvd., Suite 520 Tampa, FL 33634

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SunLabs Project Number

080522.01

PBS&J

Project Description

**Arsenic Delineation** 

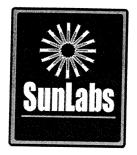
June 19, 2008

Parameters	Method	Units	Results	Di Fa	i MD ctor	L RL	CAS Number	Date/Time Analyzed	Date/Tin Prep
SunLabs Sample Number	66726				Matrix	***************************************	Soil		
Sample Designation	SB-11R-15-2				Date C	ollected	5/21	1/2008 15:45	
					Date R	eceived		2/2008 09:35	
Percent Moisture									
% Moisture	160.3M	%	9.			0.11		05/28/08	
Arsenic							***************************************	33,23,00	
Date Digested	3050		F (30 (300 o						
Date Analyzed	6010		5/29/2008						05/29/08 08:0
Arsenic	6010	mg/kg	5/29/2008 1.2	1	0.22	0.88	7440-38-2	05/29/08 20:53	05/20/08 00/
RCRA Metals-Totals		g/ng	1.2		0.22	0.00	7440-36-2	05/29/08 20:53	05/29/08 08:0
Date Digested	3050		F (00 mas a						
Date Analyzed	6010		5/29/2008						05/29/08 08:0
Chromium	6010	malle	6/2/2008	1	6.33	0.00	<b></b>	06/03/08 22:01	
Copper	6010	mg/kg mg/kg	7.1 0.066 U	11	0.22	0.88	7440-47-3	06/03/08 22:01	05/29/08 08:0
Lead	6010	mg/kg	1.2	1	0.066 0.22	0.26 0.88	7440-50-8 7439-92-1	06/03/08 22:01 06/03/08 22:01	05/29/08 08:0 05/29/08 08:0
Total Nitrogen in Solids	*	3, ··· <b>·</b>		•		0.00	7 133 32 1	00/03/00 22.01	03/29/06 08:0
Date Analyzed			********						
Total Nitrogen	351.2/353.2	no (lea	6/18/08 S8	1				06/18/08 14:16	
-	331.2/333.2	mg/kg ——— Frd of	151 Sample No: 66726 -	1	4	12		06/18/08 14:16	
SunLabs Sample Number	66727	Linuy	Sumple 140. 00720 –	MOLENNI DANING	Matrix		C- :1		
Sample Designation							Soil		
oumpie Designation	SB-11R-15-4				Date Co Date Re			2008 15:50 2008 09:35	
Daysant Maistre							. ,		
Percent Moisture									
% Moisture	160.3M	%	12			0.11		05/28/08	
<u>Arsenic</u>									
Date Digested	3050		5/29/2008						05/29/08 08:00
Date Analyzed	6010		5/29/2008	1		***********		05/29/08 20:55	03/23/08 08:00
Arsenic	6010	mg/kg	1.6	1	0.23	0.91	7440-38-2		05/29/08 08:00
RCRA Metals-Totals									
Pate Digested	3050		5/29/2008						0E/30/00 00:00
ate Analyzed	6010		6/2/2008	1				06/03/08 22:05	05/29/08 08:00
hromium	6010	mg/kg	12	1	0.23	0.91	7440-47-3		05/29/08 08:00
opper	6010	mg/kg	0.068 U	1	0.068		7440-50-8		05/29/08 08:00 05/29/08 08:00
ead	6010	mg/kg	2.0	1	0.23		7439-92-1		05/29/08 08:00
otal Nitrogen in Solids									
ate Analyzed			6/18/08 S8	1				06/18/08 14:16	
otal Nitrogen	351.2/353.2	mg/kg	119	1	4	12		06/18/08 14:16	

SunLabs, Inc. 5460 Beaumont Center Blvd., Suite 520

Tampa, FL 33634

Laboratory ID Number - E84809



SunLabs Project Number

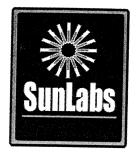
080522.01

PBS&J

Project Description

**Arsenic Delineation** 

Parameters	Method	Units	Results	Dil Fac	MD tor	L RL	CAS Number	Date/Time Analyzed	Date/Time Prep
SunLabs Sample Number	66728				Matrix	<del>Personala de la c</del>	Soil		
Sample Designation	SB-11R-15-6				Date C	ollected	5/21	/2008 15:55	
7.71.11.11.11.11.11.11.11.11.11.11.11.11					Date R	eceived		/2008 09:35	
Percent Moisture							74.1 1		
% Moisture	160.3M	%	13			0.11		05/28/08	
<u>Arsenic</u>									
Date Digested	3050		5/29/2008						
Date Analyzed	6010		5/29/2008						05/29/08 08:00
Arsenic	6010	mg/kg	0.9 I	1	0.23	0.92	7 <del>44</del> 0-38-2	05/29/08 20:57	
			<u> </u>		0.25	0.52	/440-36-2	05/29/08 20:57	05/29/08 08:00
RCRA Metals-Totals									
Date Digested	3050		5/29/2008						
Date Analyzed	6010		6/2/2008	1		***************************************		06 (03 (00 33 00	05/29/08 08:00
Chromium	6010	mg/kg	0.54 I	1	0.23	0.92	7440-47-3	06/03/08 22:08 06/03/08 22:08	05/00/00
Copper	6010	mg/kg	0.069 U	1	0.069	0.28	7440-50-8	06/03/08 22:08	05/29/08 08:00
.ead	6010	mg/kg	0.23 U	i	0.23	0.92	7439-92-1	06/03/08 22:08	05/29/08 08:00
Total Nitrogon in Colida	₹		4.5	-		•.52	7 133 32 1	00/03/08 22.08	05/29/08 08:00
Total Nitrogen in Solids									
Date Analyzed			6/18/08 S8	1				06/18/08 14:16	* *
otal Nitrogen	351.2/353.2	mg/kg	116	1	4	12		06/18/08 14:16	
		End of S	Sample No: 66728 -					,,	



SunLabs Project Number

080522.01

PBS&J

Project Description

**Arsenic Delineation** 

Parameters	Method								
· drumeters		Units	Results	Dil	MDL	RL	CAS	Date/Time	Date/Time
				Factor			Number	Analyzed	Prep

	Footnotes
*	SunLabs is not currently NELAC certified for this analyte.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MB	Method Blank
MS	Matrix Spike
MSD	Matrix Spike Duplicate
NA	Sample not analyzed at client's request.
RL	RL(reporting limit) = PQL(practical quantitation limit).
RPD	Relative Percent Difference
<i>S8</i>	This analysis performed by Sanders Laboratories, Inc, Certification number E84380.
U	Compound was analyzed for but not detected.
V	Indicates that the analyte was detected in both the sample and the associated method blank.



## **Quality Control Data**

Project Number

PBS&J

080522.01

Project Description

**Arsenic Delineation** 

June 19, 2008

Batch No:	C5063									Associate						
Test: TestCode:	RCRA Metals b	by EPA Met	hod 6010	†						66685, 6 66698, 6	6687, 66 6699, 66	689, 6669 6700, 6670	91, 66692 91, 66702	2, 66693, 6 2, 66703, 6	6694, 666 6704, 667	96, 66697, '05
Compound	3010-0	Blank	LCS Spike	LCS %Re				C Limits		MS	MSD	RPD	Q0	C Limits	Dup	Qualifie
Parent Sample Number			Shike	/erce	c %Rec	: %	RPD	LCS	Spik	e %Rec	%Red	· %	RPD	MS		
Arsenic		0.2 U	1000	02	00		_		i	66657	66657					
Iron		0.1U	1000	93 97	90 94	3	5 6	85-108			91	0	12	59-120	)	
Batch No:	C5064	0.10	1000	31	34	<u> </u>	- 0	80-112	1000	0	0	NA	0	0-219		
_										Associate						
Test:	RCRA Metals b	y EPA Meth	od 6010						(	6706, 66	707, 667	708, 6670	9, 66710,	66711, 66	712, 667	13, 66714,
estCode:	6010-S			,					,	00/15, 66	1716, 667	717, 6671	8, 66719,	66720, 66	721, 6672	22, 66723
Compound		Blank	LCS	LCS	LCSD	RPD	00	Limits	MS	MS	Nen	DDD				
			Spike	%Rec		%	RPD	LCS	Spike		MSD %Rec	RPD %	QC RPD	Limits MS	Dup RPD	Qualifie
Parent Sample Number										66706			RED	MO		
rsenic		0.2 U	1000	95	94	1	5	85-108	1000	94	95	1	10	E0 400		
on		0.1 U	1000	112	93	19*	6	80-112	1000	0	<del>- 33</del>	NA	12 0	59-120 0-219		
Batch No:	C5065				***********				1000	<u>_</u>		IVA		0-219		
palcii No.	C3003								A	ssociated	Sample	es				
est:	Arsenic by ICP											90, 66695				
estCode:	Arsenic-w															
ompound	/ userile w															
ompound		Blank	LCS	LCS	LCSD	RPD		Limits	MS	MS	MSD	RPD	QC I	Limits	Dup	Qualifier
arent Sample Number			Spike	%Kec	%Rec	%	RPD	LCS	Spike	%Rec	%Rec	%	RPD	MS	RPD	
ate Digested		:100,100,00								66686						
ate Analyzed		3/28/2008 U														
rsenic		i/28/2008 U							-							
	1	0.004911													:	1
		0.0048 U							1000	102				59-120		
	C5085	0.0048 U									Samples			59-120		
Batch No:			od 6010						As	sociated			66728	59-120		
Batch No: est:	RCRA Metals by		od 6010						As	sociated		s 6, 66727,	66728	59-120		
est:		EPA Metho							As	sociated			66728	59-120		
Satch No: est: stCode:	RCRA Metals by		LCS		LCSD	RPD	QC L	.imits	As	sociated 724, 667					Duo	Qualifiare
Batch No: est: stCode: ompound	RCRA Metals by	EPA Metho		LCS %Rec		RPD %	QC L RPD	.imits LCS	As 66	sociated 724, 667	25, 6672	6, 66727,	66728 QC L RPD		Dup RPD	Qualifiers
Batch No: est: stCode: umpound	RCRA Metals by	EPA Metho	LCS Spike	%Rec	%Rec				As 66	sociated 724, 667 MS %Rec	25, 6672 MSD	6, 66727,	QC L	imits		Qualifiers
Batch No: est: stCode: impound rent Sample Number iminum	RCRA Metals by	EPA Metho Blank	LCS Spike	%Rec 94	%Rec 95	1			As 66	sociated 724, 667 MS %Rec	25, 6672 MSD %Rec	6, 66727,	QC L	imits		Qualifiers
est: stCode: impound  ent Sample Number iminum imony	RCRA Metals by	Blank  0.5U 0.3U	LCS Spike 1000 1000	%Rec 94 91	%Rec 95 95	1 4	RPD	LCS	As 66 MS Spike	MS %Rec 66724	MSD %Rec 66724	RPD %	QC L	imits		Qualifiers
Batch No: est: stCode: impound ent Sample Number iminum timony enic	RCRA Metals by	Blank  0.5 U 0.3 U 0.2 U	1000 1000 1000	%Rec 94 91 91	%Rec 95 95 95	1 4 4	RPD 5		As 66 MS Spike	MS %Rec 66724	MSD %Rec 66724	RPD % NA	QC L	imits		Qualifiers
eatch No: est: stCode: impound ent Sample Number minum timony enic ium	RCRA Metals by	0.5 U 0.3 U 0.2 U 0.05 U	1000 1000 1000 1000	94 91 91 92	95 95 95 95 93	1 4 4 1	RPD	LCS	As 666  MS Spike  1000 1000 1000 1000	MS %Rec 66724 0 90 89 94	MSD %Rec 66724 0 92	RPD %  NA 2	QC L RPD	imits MS		Qualifiers
Satch No: est: stCode: impound  rent Sample Number iminum imony enic ium yyllium	RCRA Metals by	0.5 U 0.3 U 0.2 U 0.05 U 0.02 U	1000 1000 1000 1000 1000 1000	94 91 91 92 91	95 95 95 95 93	% 1 4 4 1 2	5 8	85-108 66-113	As 666  MS Spike  1000 1000 1000 1000	MS %Rec 66724 0 90 89 94	MSD %Rec 66724 0 92 91 95 94	RPD %  NA 2 2	QC L RPD	imits MS		Qualifiers
estch No: est: stCode: impound  ent Sample Number iminum timony enic cium yllium tmium	RCRA Metals by	0.5 U 0.3 U 0.2 U 0.05 U 0.02 U 0.03 U	1000 1000 1000 1000 1000 1000 1000	94 91 91 92 91 88	95 95 95 95 93 93	% 1 4 4 1 2 3	RPD 5	LCS 85-108	MS Spike  1000 1000 1000 1000 1000 1000	MS %Rec 66724 0 90 89 94 94 89	MSD %Rec 66724 0 92 91 95	RPD %  NA 2 2 1	QC L RPD	imits MS		Qualifiers
Batch No: est: stCode: impound  rent Sample Number iminum timony tenic rium yllium dmium cium	RCRA Metals by	Blank  0.5 U 0.3 U 0.2 U 0.05 U 0.02 U 0.03 U 1.3 I	1000 1000 1000 1000 1000 1000 1000 100	94 91 91 92 91 88 87	95 95 95 95 93 93 91 89	% 1 4 4 1 2 3 2	5 8	85-108 66-113 74-104	MS Spike  1000 1000 1000 1000 1000 1000 1000 1	MS %Rec 66724 0 90 89 94 94 89 0	MSD %Rec 66724 0 92 91 95 94 90 0	RPD %  NA 2 2 1 0	QC L RPD	imits MS 59-120 33-148		Qualifiers
eatch No: est: stCode: mpound  ent Sample Number minum imony enic ium yllium dmium cium omium	RCRA Metals by	Blank  0.5 U 0.3 U 0.2 U 0.05 U 0.02 U 0.03 U 1.3 I 0.2 U	1000 1000 1000 1000 1000 1000 1000 100	94 91 91 92 91 88 87 94	95 95 95 93 93 91 89	% 1 4 1 2 3 2 2	5 8	85-108 66-113	MS Spike  1000 1000 1000 1000 1000 1000 1000 1	MS %Rec 66724 0 90 89 94 94 89 0	MSD %Rec 66724 0 92 91 95 94 90 0 95	RPD %  NA 2 2 1 0 1 NA 3	QC L RPD	imits MS 59-120 33-148		Qualifiers
Batch No: est: est: estCode: empound  rent Sample Number uninum timony senic enium cyllium dmium cium comium	RCRA Metals by	0.5 U 0.3 U 0.2 U 0.05 U 0.02 U 0.03 U 1.31 0.2 U 0.06 U	1000 1000 1000 1000 1000 1000 1000 100	94 91 92 91 88 87 94 91	95 95 95 93 93 91 89 92	% 1 4 4 1 2 3 2 1	5 8 6	85-108 66-113 74-104 78-106	MS Spike  1000 1000 1000 1000 1000 1000 1000 1	MS %Rec 66724 0 90 89 94 94 89 0 92	MSD %Rec 66724 0 92 91 95 94 90 0 95 91	RPD %  NA 2 2 1 0 1 NA 3 1	QC L RPD 12 104 6	imits MS 59-120 33-148 69-111		Qualifiers
est: stCode: mpound  ent Sample Number minum imony enic ium yllium dmium cium omium omium alt	RCRA Metals by	0.5 U 0.3 U 0.2 U 0.05 U 0.02 U 0.03 U 1.3 I 0.2 U 0.06 U	1000 1000 1000 1000 1000 1000 1000 100	94 91 92 91 88 87 94 91 92	%Rec  95 95 95 93 93 91 89 92 92	% 1 4 4 1 2 3 2 2 1 1	5 8 6 7	85-108 66-113 74-104 78-106	MS Spike  1000 1000 1000 1000 1000 1000 1000 1	MS %Rec 66724 0 90 89 94 94 89 0 92 90 83	MSD %Rec 66724 0 92 91 95 94 90 0 95 91 86	RPD %  NA 2 2 1 0 1 NA 3 1 4	QC L RPD 12 104 6	imits MS 59-120 33-148 69-111		Qualifiers
Batch No: est: stCode: impound  rent Sample Number iminum timony eenic ium yllium dmium comium comium palt	RCRA Metals by	0.5 U 0.3 U 0.2 U 0.05 U 0.02 U 0.03 U 1.3 I 0.2 U 0.06 U 0.06 U	1000 1000 1000 1000 1000 1000 1000 100	94 91 91 92 91 88 87 94 91 92 95	%Rec  95 95 95 93 93 91 89 92 92 91 98	% 1 4 4 1 2 3 2 1 1 1 3	5 8 6 7 7 6	85-108 66-113 74-104 78-106 78-104 80-112	1000 1000 1000 1000 1000 1000 1000 100	MS %Rec 66724 0 90 89 94 94 89 0 0 92 90 83 0	MSD %Rec 66724 0 92 91 95 94 90 0 95 91 86 0	RPD %  NA 2 2 1 0 1 NA 3 1 4 NA	QC L RPD  12 104  6  15  47 0	59-120 33-148 69-111 60-122 49-134 0-219		Qualifiers
eatch No: est: stCode: impound ent Sample Number minum timony enic tium tyllium dmium citium omium alit per	RCRA Metals by	0.5U 0.3U 0.2U 0.05U 0.02U 0.03U 1.31 0.2U 0.06 U 0.06 U 0.1U 0.2U	1000 1000 1000 1000 1000 1000 1000 100	94 91 91 92 91 88 87 94 91 92 95 88	%Rec  95 95 95 93 93 91 89 92 92 91 98 91	% 1 4 4 1 2 3 2 1 1 1 3 3 3	5 8 6 7 7 6	85-108 66-113 74-104 78-106	1000 1000 1000 1000 1000 1000 1000 100	MS %Rec 66724 0 90 89 94 94 89 0 0 92 90 83 0 86	MSD %Rec 66724 0 92 91 95 94 90 0 95 91 86 0 86	RPD %  NA 2 2 1 0 1 NA 3 1 4 NA 0	QC L RPD  12 104  6  15  47 0	imits MS 59-120 33-148 69-111 60-122 49-134		Qualifiers
eatch No: est: stCode: impound ent Sample Number minum emony enic enium yllium emium cium oomium alit pper d messium	RCRA Metals by	0.5 U 0.3 U 0.2 U 0.05 U 0.02 U 0.03 U 1.31 0.2 U 0.06 U 0.06 U 0.1 U 0.2 U 0.085 I	1000 1000 1000 1000 1000 1000 1000 100	94 91 91 92 91 88 87 94 91 92 95 88 96	%Rec  95 95 95 93 93 91 89 92 92 91 98 91 98	%  1 4 4 1 2 3 2 1 1 3 3 1	5 8 6 7 7 6	85-108 66-113 74-104 78-106 78-104 80-112	1000 1000 1000 1000 1000 1000 1000 100	MS %Rec 66724 0 90 89 94 94 89 0 92 90 83 0 86 89	MSD %Rec 66724 0 92 91 95 94 90 0 95 91 86 0 86 83	RPD %  NA 2 1 0 1 NA 3 1 4 NA 0 7	QC L RPD  12 104  6  15  47 0	59-120 33-148 69-111 60-122 49-134 0-219		Qualifiers
Batch No: est: stCode: wmpound  ent Sample Number minony entic cium yyllium dmium cium omium omium pait oper d gnesium gganese	RCRA Metals by	0.5U 0.3U 0.2U 0.05U 0.02U 0.03 U 1.31 0.2U 0.06 U 0.06 U 0.1U 0.2U 0.0851 0.03 U	1000 1000 1000 1000 1000 1000 1000 100	94 91 91 92 91 88 87 94 91 92 95 88 96 94	95 95 95 93 93 91 89 92 92 91 98 91 98 91 97	%  1 4 4 1 2 3 2 1 1 3 3 1 2	5 8 6 7 7 6	85-108 66-113 74-104 78-106 78-104 80-112	1000 1000 1000 1000 1000 1000 1000 100	MS %Rec 66724 0 90 89 94 94 89 0 92 90 83 0 86 89 95	MSD %Rec 66724 0 92 91 95 90 0 95 91 86 0 86 83 996	RPD %  NA 2 2 1 1 0 1 NA 3 1 4 4 NA 0 7 1 1	QC L RPD  12 104  6  15  47 0	59-120 33-148 69-111 60-122 49-134 0-219		Qualifiers
eatch No: est: stCode: mpound ent Sample Number minum imony enic eium yyllium dmium cium omium omium eatt upper d nesium ganese el	RCRA Metals by	0.5U 0.3U 0.2U 0.05U 0.03U 1.31 0.2U 0.06U 0.06U 0.01U 0.2U 0.085I 0.03U 0.1U	1000 1000 1000 1000 1000 1000 1000 100	94 91 91 92 91 88 87 94 91 92 95 88 96 94 90	95 95 95 93 93 91 89 92 92 91 98 91 98 91 97 96	%  1 4 4 1 2 3 2 2 1 1 3 3 1 2 1	5 8 6 7 7 6	85-108 66-113 74-104 78-106 78-104 80-112	1000 1000 1000 1000 1000 1000 1000 100	MS %Rec 66724 0 90 89 94 94 89 0 92 90 83 0 92 90 83 83 0 86 89 95 89	MSD %Rec 66724 0 92 91 95 94 90 0 95 91 86 0 86 83 96 91	RPD %  NA 2 2 1 0 1 NA 3 1 4 NA 0 7 1 2	QC L RPD  12 104  6  15  47 0	59-120 33-148 69-111 60-122 49-134 0-219		Qualifiers
Batch No: est: stCode: impound  rent Sample Number iminum iminony senic rium yyllium drinium cium omium omium omium omium omium oganese iel ussium	RCRA Metals by	0.5 U 0.3 U 0.05 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U 0.0 U	1000 1000 1000 1000 1000 1000 1000 100	94 91 91 92 91 88 87 94 91 92 95 88 96 94 90 100	95 95 95 93 93 91 89 92 92 91 98 91 97 96	%  1 4 4 1 2 3 2 1 1 1 3 3 1 2 1 1 1	5 8 6 7 7 6 9	85-108 66-113 74-104 78-106 78-104 80-112 64-109	1000 1000 1000 1000 1000 1000 1000 100	MS %Rec 66724 0 90 89 94 94 89 0 92 90 83 0 86 89 95 89 105 1	MSD %Rec 66724 0 92 91 95 94 90 0 95 91 86 0 888 89 91 1001	RPD %  NA 2 1 0 1 NA 3 1 4 NA 0 7 1 2 4	QC L RPD  12 104  6  15  47  0 40	imits MS 59-120 33-148 69-111 60-122 49-134 0-219 54-118		Qualifiers
Batch No: est: stCode: impound  rent Sample Number iminum iminum iminum iminum citium yllium dmium citium omium omium onium on	RCRA Metals by	Blank  0.5 U 0.3 U 0.2 U 0.05 U 0.02 U 0.03 U 1.3 I 0.2 U 0.06 U 0.1 U 0.2 U 0.085 I 0.03 U 0.1 U 4.80 U 0.2 U	1000 1000 1000 1000 1000 1000 1000 100	94 91 91 92 91 88 87 94 91 92 95 88 96 94 90 100 89	95 95 95 93 93 91 89 92 92 91 98 91 97 96 91 101 91	%  1 4 4 1 2 3 2 2 1 1 1 3 3 1 2 1 1 2	5 8 6 7 7 6 9 8 8	85-108 66-113 74-104 78-106 78-104 80-112 64-109	MS Spike  1000 1000 1000 1000 1000 1000 1000 1	MS %Rec 66724 0 90 89 94 94 89 0 92 90 83 0 86 89 95 89 105 1	MSD %Rec 66724 0 92 91 95 991 86 0 88 83 996 991 1001 991	RPD %  NA 2 1 0 1 NA 3 1 4 NA 0 7 1 2 4 3	QC L RPD  12 104  6  15  47 0 40	imits MS 59-120 33-148 69-111 60-122 49-134 0-219 54-118		Qualifiers
Batch No: est: est: stCode: pmpound  rent Sample Number uminum timony senic rium cyllium dmium comium conium onium dalt opper d  d  gnesium ganese usel sassium enium er	RCRA Metals by	Blank  0.5 U 0.3 U 0.05 U 0.005 U 0.005 U 0.008 U 0.006 U 0.1 U 0.2 U 0.085 I 0.03 U 0.1 U 4.80 U 0.2 U 0.2 U	1000 1000 1000 1000 1000 1000 1000 100	94 91 91 92 91 94 99 91 90 90 90 90 90 90 90 90 90 90	95 95 95 95 93 93 91 89 92 91 98 91 98 91 97 96 91 101 91	%  1 4 4 1 2 3 2 2 1 1 1 2 1 1 2 0	5 8 6 7 7 6 9 8 8	85-108 66-113 74-104 78-106 78-104 80-112 64-109	MS Spike  1000 1000 1000 1000 1000 1000 1000 1	MS %Rec 66724 0 90 89 94 94 89 0 92 90 83 0 92 90 83 10 86 89 95 89 95 89 95 89	MSD %Rec 66724 0 92 91 95 99 1 86 0 88 83 96 99 1 00 99 1 99 3	RPD %  NA 2 1 0 1 NA 3 1 4 NA 0 7 1 2 4 3 1	QC L RPD  12 104  6  15  47 0 40	imits MS 59-120 33-148 69-111 60-122 49-134 0-219 54-118		Qualiffers
Batch No: est: est: estCode: pmpound  rent Sample Number uminum etimony senic rium rryllium dmium licium romium batt poper ph dd gnesium nganese tel assium enium erer lium	RCRA Metals by	Blank  0.5 U 0.3 U 0.2 U 0.05 U 0.02 U 0.03 U 1.3 I 0.2 U 0.06 U 0.1 U 0.2 U 0.085 I 0.03 U 0.1 U 4.80 U 0.2 U	1000 1000 1000 1000 1000 1000 1000 100	94 91 91 92 91 94 99 91 90 90 90 90 90 90 90 90 90 90	95 95 95 93 93 91 89 92 92 91 98 91 97 96 91 101 91	%  1 4 4 1 2 3 2 2 1 1 1 3 3 1 2 1 1 2	5 8 6 7 7 6 9 8 8	85-108 66-113 74-104 78-106 78-104 80-112 64-109	MS Spike  1000 1000 1000 1000 1000 1000 1000 1	MS %Rec 66724 0 90 89 94 94 89 0 92 90 83 0 86 89 95 88 99 105 1 88 92 101 1	MSD %Rec 66724 0 92 91 95 991 86 0 88 83 996 991 1001 991	RPD %  NA 2 1 0 1 NA 3 1 4 NA 0 7 1 2 4 3	QC L RPD  12 104  6  15  47 0 40	imits MS 59-120 33-148 69-111 60-122 49-134 0-219 54-118		Qualifiers

SunLabs, Inc. 5460 Beaumont Center Blvd., Suite 520 Tampa, FL 33634

Vanadium

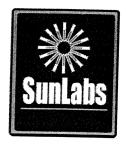
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Laboratory ID Number - E84809

Phone: (813) 881-9401 Email: Info@SunLabsInc.com Website: www.SunLabsInc.com

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## **Quality Control Data**

Project Number

PBS&J

080522.01

Project Description

**Arsenic Delineation** 

June 19, 2008

Batch No: Test:	C5085 RCRA Metals I	by EPA Meti	hod 6010	)							d Sample 725, 667	es '26, 6672	7, 66728	3		e 19, 20
Compound		Blank	LCS Spike	LCS %Rec	LCSD %Rec	RPD %	QC RPD	Limits LCS	MS Spike	MS %Rec	MSD %Rec	RPD %	QC	C Limits MS	Dup RPD	Qualifiers
Perent Sample Number Zinc		0.15 U	1000	87	91	4				66724				III O		
Batch No: Test: TestCode:	C5124 RCRA Metals-1 RCRA-7+Cu-s				31	-			66	685, 666	90 i Sample 587, 6668 599, 6670	39, 66691	, 66692, , 66702,	, 66693, 66 , 66703, 66	694, 666 704, 667	96, 66697, 05
Compound		Blank	LCS Spike	LCS %Rec	LCSD %Rec	RPD %	QC RPD	Limits LCS	MS Spike	MS %Rec	MSD %Rec	RPD %	QC RPD	Limits	Dup RPD	Qualifiers
Parent Sample Number Chromium										66657	66657		KPU	MS		
***************************************		0.2 U 0.06 U	1000	97	94	3	7	78-106	1000	101	92	9	15	60-122		
					92	2	7	70 404	1000	90	91	1	47	49-134		
		***************************************	1000	94		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		78-104					······································	43-134	*******	
ead Batch No:	C5125	0.2U	1000	93	89	4	9	78-104 64-109	1000	103	90	13	40	54-118		
ead Batch No: Fest: estCode:	C5125 RCRA Metals-T	0.2U				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			1000 As 66	103 sociated 706, 667	90 Samples 07, 6670	13 8. 66709	40 66710		12, 6671 21, 6672	3, 66714, 2, 66723
ead  Batch No:  est: estCode: ompound	RCRA Metals-T	0.2U		93 LCS		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	9		1000 As 66: 66:	103 sociated 706, 667 715, 667	90 Samples 07, 6670 16, 6671	13 8, 66709, 7, 66718,	40 66710, 66719,	54-118 66711, 667 66720, 667	21, 6672 Dup	3, 66714, 2, 66723 Qualifiers
Batch No: est: estCode: compound	RCRA Metals-T	0.2U  otals  Blank	LCS Spike	93 LCS	89	4 RPD	9 QC L	64-109	1000 As 66: 66:	103 sociated 706, 667 715, 667 MS %Rec	90 Samples 07, 6670 16, 6671	13 8, 66709, 7, 66718,	40 66710, 66719,	54-118 66711, 667 66720, 667	21, 6672	2, 66723
ead  Batch No:  est: estCode: ompound  arent Sample Number thromium	RCRA Metals-T	otals Blank 0.2U	LCS Spike	93 LCS %Rec	89  LCSD %Rec	RPD %	9 QC L	64-109	1000 As 66: 66:	103 sociated 706, 667 715, 667 MS %Rec	90 Samples 07, 6670 16, 6671 MSD %Rec	13 8, 66709, 7, 66718,	40 66710, 66719,	54-118 66711, 667 66720, 667 Limits MS	21, 6672 Dup	2, 66723
ead  Batch No:  est: estCode: ompound  arent Sample Number thromium	RCRA Metals-T	0.2 U  Otals  Blank  0.2 U  0.06 U	1000 LCS Spike 1000	93 LCS %Rec 91 90	89 LCSD %Rec	RPD %	9 QC L RPD 7 7	64-109  imits LCS  78-106  78-104	1000 As 66 66 MS Spike	103 sociated 706, 667 715, 667 MS %Rec	90 Samples 07, 66700 16, 66711 MSD %Rec 66706	13 8, 66709, 7, 66718, RPD %	40 66710, 66719, QC I RPD	54-118 66711, 667 66720, 667	21, 6672 Dup	2, 66723
ead  Batch No:  est: estCode: ompound  erent Sample Number hromium opper	RCRA Metals-T RCRA-7+Cu-s	otals Blank 0.2U	LCS Spike	93 LCS %Rec	89  LCSD %Rec	RPD %	9 QC L RPD	64-109 	1000 As. 66: 66: MS Spike	103 sociated 706, 667715, 667	90 Samples 97, 6670 16, 6671 MSD %Rec 66706 85	13 8, 66709, 7, 66718, RPD %	40 66710, 66719, QC I RPD	54-118 66711, 667 66720, 667 Limits MS	21, 6672 Dup	2, 66723
ead  Batch No:  Test:  estCode:  ompound  arent Sample Number  thromium  opper	RCRA Metals-T	0.2U  otals  Blank  0.2U  0.06 U  0.2U	1000  LCS Spike  1000 1000 1000	93 LCS %Rec 91 90	89 LCSD %Rec	RPD %	9 QC L RPD 7 7	64-109  imits LCS  78-106  78-104	1000  As. 66: 66: 66: 66: 66: 66: 66: 66: 66: 66	103 sociated 706, 667715, 6677 MS %Rec 66706 83 78 77 ociated S	90 Samples 97, 66700 16, 66711  MSD %Rec 66706 85 76 76	13 8, 66709, 7, 66718, RPD %	40 66710, 66719, QC I RPD	54-118 66711, 667 66720, 667 Limits MS 60-122 49-134	21, 6672 Dup	2, 66723
Batch No: Test: Test: TestCode: Test Sample Number Thromium Topper Tead  Batch No: Test:	RCRA Metals-T RCRA-7+Cu-s  C5165  Anions by Ion Ch	0.2U  otals  Blank  0.2U  0.06 U  0.2U	1000  LCS Spike  1000 1000 1000	93  LCS %Rec 91 90 88	89 LCSD %Rec 90 89 85	RPD %  1 1 3	9QC LRPD 7 7 9	64-109  Imits LCS  78-106 78-104 64-109	1000  As 66 66  MS Spike  1000 1000 1000 Ass 666  MS	103 sociated 706, 667/715, 667  MS %Rec 66706 83 78 77 ociated \$86, 6668	90 Samples 07, 667016, 66711 MSD %Rec 66706 85 76 76 Samples 8, 66690	13 8, 66709, 7, 66718, RPD 2 3 1	40 66710, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719, 66719,	54-118 66711, 667 66720, 667. Limits MS 60-122 49-134 54-118	21, 6672  Dup RPD	2, 66723
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Footnotes

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Compound was analyzed for but not detected.

Phone: (813) 881-9401

Email: Info@SunLabsInc.com Website: www.SunLabsInc.com

**№** 16390

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**№** 16388

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Bottle Type Codes:		Preservative Codes:					Relinqui	snea E	Ϋ́		Relin	ngujsh	ed To:	Date:	Time:
GV = Glass Vial	GVS = Low Level Volatile Kit	H = Hydrochloric Acid + Ice	C = C(E)			- 1	7	K.	V.		1	Ω.	. []	5/19	4pm
GA = Glass Amber	T = Tediar Bag	I = Ice only	S = Sulfuric								18	200	in		'   '
P = Plastic	O = Other	N = Nitric Acid + Ice	VS ≃ MeOH,			- [	Relingui	shed B	y:	_	Relir	nguish	ed To:	Date:	Time:
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A = Air	SOL = Solid			7.31		F	Relinqui	shed/8	y:	-	Relin	quishe	ed To:	Date:	Time:
DW = Drinking Water	SW = Surface Water	Sample Condition Upon Re-	gipt .												
GW = Ground Water		Custody Seets present?		YELN (NA	)										
SE = Sediment	W = Water (Blanks)	Shipping Bills attached?		ALANI (SEA		F	Relinquis	hed B	y:	***************************************	Relin	quishe	ed To:	Date:	Time:
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5-28-2		Ale vials head space free?		2/AN // DA				5460	) Bear	umont C	enter Ri	uurak Nd Si	<b>vs, inc.</b> uite 520, Tamp	o Elmida 000	. 11
wenerken outli	ce2(Y_)N/NA	Proper containers and prese	vanyesa 🔍	N MA						Phone:	813-881	1-9401	/ Fax: 813-354	a, riorida 336; L-4661	34
the state of the								•	-mail:	info@S	unLabs	Inc.co	m www.Suni	absinc com	



July 23, 2008

Brad Bayne PBS&J 5300 West Cypress St. Suite #200 Tampa, FL 33607

Re:

SunLabs Project Number:

080707.07

Client Project Description:

**Arsenic Delineation** 

Dear Mr. Bayne:

Enclosed is the report of laboratory analysis for the following samples:

Sample Number	Sample Description	Date Collected
68966	SB-11R-3-2	7/7/2008
68967	SB-11R-3-4	7/7/2008
68968	SB-11R-3-6	7/7/2008
		11112000

Copies of the Chain(s)-of-Custody, if received, are attached to this report.

If you have any questions or comments concerning this report, please do not hesitate to contact us.

Michael W. Palmer

Vice President, Laboratory Operations

**Enclosures** 

5460 Beaumont Center Blvd., Suite 520 Tampa, FL 33634

Unless Otherwise Noted and Where Applicable:

Email: Info@SunLabsInc.com Website: www.SunLabsInc.com



SunLabs Project Number

080707.07

PBS&J

Project Description

**Arsenic Delineation** 

July 23, 2008

SunLabs Sample Number Sample Designation

68966

SB-11R-3-2

Matrix

Soil

Date Collected

7/7/2008 12:45

Date Received

7/7/2008 16:35

Parameters	Method	Units	Results	Dil Fact	MDI or	L RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Percent Moisture									
% Moisture	160.3M	%	27			0.14		07/09/08	
RCRA Metals by EPA Method 6010									
Date Digested	3050		7/10/2008						
Date Analyzed	6010								07/10/08 05:30
Arsenic		***	7/11/2008	1				07/11/08 11:50	
Chromium	6010	mg/kg	0.27 U	1	0.27	1.1	7440-38-2	07/11/08 11:50	07/10/08 05:30
	6010	mg/kg	5.9	1	0.27	1.1	7440-47-3	07/11/08 11:50	07/10/08 05:30
Copper	6010	mg/kg	0.082 U	1	0.082	0.33	7440-50-8	07/11/08 11:50	07/10/08 05:30
Iron	6010	mg/kg	720	5	0.14	0.55	7439-89-6	07/10/08 15:03	
Lead	6010	mg/kg	2.1	1	0.27	1.1	7439-92-1	07/10/08 13:03	07/10/08 05:30
Total Nitrogen in Solids				-			7 .33 32 1	07/11/08 11:50	07/10/08 05:30
Date Analyzed			7/21/08 S8	1				07/21/08 16:48	
Total Nitrogen	351.2/353.2	mg/kg	200	1	100				
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SunLabs **Project Number** 

080707.07

PBS&J

Project Description

**Arsenic Delineation** 

July 23, 2008

SunLabs Sample Number

Sample Designation

68967

SB-11R-3-4

Matrix

Date Collected

Soil

Date Received

7/7/2008 12:50 7/7/2008 16:35

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Percent Moisture									•
% Moisture	160.3M	%	8			0.11		07/09/08	
RCRA Metals by EPA Method 6010									
Date Digested	3050		7/10/2008						
Date Analyzed	6010		7/11/2008	1				07/11/00 11.51	07/10/08 05:30
Arsenic	6010	mg/kg	0.22 U	1	0.22	0.87	7440-38-2	07/11/08 11:54	0=/10/10
Chromium	6010	mg/kg	2.3	_	0.22	0.87		07/11/08 11:54	07/10/08 05:30
Copper	6010	mg/kg	0.065 U		0.065	0.87	7440-47-3	07/11/08 11:54	07/10/08 05:30
Iron	6010	mg/kg	330	-	0.005	0.26	7440-50-8	07/11/08 11:54	07/10/08 05:30
Lead	6010	mg/kg	1.1				7439-89-6	07/10/08 15:05	07/10/08 05:30
	0010	ilig/kg	1.1	1	0.22	0.87	7439-92-1	07/11/08 11:54	07/10/08 05:30
<u>Total Nitrogen in Solids</u>									
Date Analyzed			7/21/08 S8					07/24/00 46 40	
Total Nitrogen	351.2/353.2	mg/kg	200	1	100			07/21/08 16:48	
		1119/109	200		100			07/21/08 16:48	



SunLabs **Project Number** 

080707.07

Project Description

**Arsenic Delineation** 

PBS&J

July 23, 2008

SunLabs Sample Number Sample Designation

68968

SB-11R-3-6

Matrix

Date Collected

Soil

Date Received

7/7/2008 12:55 7/7/2008 16:35

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Percent Moisture								-	
% Moisture	160.3M	%	17			0.12		07/09/08	
RCRA Metals by EPA Method 6010									
Date Digested	3050		7/10/2008						
Date Analyzed	6010		7/11/2008	1					07/10/08 05:30
Arsenic	6010	mg/kg	4,3		0.24	0.00	7440 20 2	07/11/08 11:58	
Chromium	6010			1		0.96	7440-38-2	07/11/08 11:58	07/10/08 05:30
Copper	6010	mg/kg	1.7	1	0.24	0.96	7440-47-3	07/11/08 11:58	07/10/08 05:30
Iron		mg/kg	0.072 U	_	0.072	0.29	7 <del>44</del> 0-50-8	07/11/08 11:58	07/10/08 05:30
Lead	6010	mg/kg	6800	50	6	24	7439-89-6	07/10/08 15:15	07/10/08 05:30
Lead	6010	mg/kg	1.0	1	0.24	0.96	7439-92-1	07/11/08 11:58	07/10/08 05:30
Total Nitrogen in Solids									
Date Analyzed									
Total Nitrogen	251 2125		7/21/08 S8	1				07/21/08 16:48	
TOTAL THU OUT I	351.2/353.2	mg/kg	100 U	1	100			07/21/08 16:48	



SunLabs Project Number

080707.07

PBS&J

Project Description

**Arsenic Delineation** 

July 23, 2008

#### Footnotes SunLabs is not currently NELAC certified for this analyte. The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit. LCS Laboratory Control Sample LCSD Laboratory Control Sample Duplicate Method Blank ΜB MS Matrix Spike MSD Matrix Spike Duplicate NA Sample not analyzed at client's request. RLRL(reporting limit) = PQL(practical quantitation limit). RPD Relative Percent Difference 58 This analysis performed by Sanders Laboratories, Inc, Certification number E84380. U Compound was analyzed for but not detected. Indicates that the analyte was detected in both the sample and the associated method blank. V



#### **Quality Control Data**

Project Number

PBS&J

080707.07

80-112

1000 550 \* 629 **•**  **Project Description** 

**Arsenic Delineation** 

0-219

July 23, 2008

Batch No: Test: TestCode:	C5607 RCRA Metals by 6010-S	/ EPA Meth	od 6010								d Sample 967, 6896					
Compound		Blank	LCS Spike	LCS %Rec	LCSD %Rec	RPD %	QC RPD	Limits LCS	MS Spike	MS %Rec	MSD %Rec	RPD %	QC RPD	Limits MS	Dup RPD	Qualifiers
Parent Sample Number										68966	68966				<del></del>	
Arsenic		0.2 U	1000	95	93	2	7	71-105	1000	95	94	1	12	59-120		
Chromium		0.2 U	1000	98	97	1	7	78-106	1000	101	102	1	15	60-122		
Copper		0.06 U	1000	99	98	1	7	78-104	1000	99	98	1	47	49-134		+
lmn		0.411	4000	00			e nada e a						47	45-154		

<sup>\*</sup> indicates value is outside control limits for %Recovery or greater than acceptance criteria for RP

0.1 U

0.2 U

Footnotes

Iron

Lead

Compound was analyzed for but not detected.

1000

1000

98

98

Phone: (813) 881-9401

Email: Info@SunLabsInc.com Website: www.SunLabsInc.com

Nº 17104

Client Name	: PBSLJ			SunLab	s Project	+ #	0	80	70	7.0	<b>7</b>						00	5-1 4
Contact		<u> </u>		Bottle Ty		ĪS	ĪS	5	T. <	T=	1	1	Т	т-	T-	Project Nam	ie: //>	Delinant
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E-Mail	bjbayne@p)	اعكىنده	~	1	ested						1	ナ						
SEASONIE TO BE	Sample Description	n	Sample	Sample	# of	٠, ١	1	١.		1	1	3			1	Due Date Red	quested:	1
SSIGNOID #			Date	Time	Bottles	4	12	15	0	20	6			1			ndar	
Gamble E	5B-11R-3-	-Z	7/7/2		2	1		V	1	1	V			<del> </del>	↓	FDEP Pr	eApproval:	
BAR GENERAL	SB-1)R-3.	-4	7/7/08	1250	Z	15	1	1	1	1	1	_		-	_		rent rates	Old rates
Example:	SR-118-3	-6	7/7/08	1255	2	V	1	1	V	1	1			<del> </del>	-	Cash rate	es	
		- K1	11.1/00	1622		10	K	V	V	-	V			4		Remarks / Co	mments:	
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Bottle Type Codes:	7 11 156	100	Day	ne/	LR7	٧ )		Relin	quish	ed By			STATE OF THE PARTY.	Relin	quish	ed To:	Date:	
		Preservative Co	des:					. 1	1	) [	()			6	2	>	-	Time:
GV = Glass Vial	GVS = Low Level Volatile Kit	H = Hydrochior	ic Acid + Ice	S = Sulfuric A	cid + Ice		ı		$v_{\!\!\!/}$			$\sim$			> L	seem	解/3/	0011
GA = Glass Amber	T = Tedlar Bag	I = Ice only		VS = MeOH,	OFW, + Ice			Relia	Nishe	d Bv	:			Relin	guish	AT.		
P = Plastic	O = Other	N = Nitric Acid	lce	O = Other (S	pecify)		- 1	h<	_		R	2	L	<u>.</u>	guisii		Date:	Time: Pm
S = Soil Jar		Company Company Company					- 1		20	u		21	ار ،	Xt	470	almer	17/7/0	8 4:35
Matrix Codes:	SO = Soil	Internal Use O	niy .					Relino	uishe	d By	-62		$\dashv$	Polin	auiob.	nd T	<del>  '</del>	
A = Air	SOL = Solid	Sample Conditi	n Upon Recei							.c				/emi	quisiii	ed To:	Date:	Time:
DW = Drinking Water	SW = Surface Water	Custody Seals			Y I N INA								- 1					
GW = Ground Water	W = Water (Blanks)	Shipping Bills at	tached?		Y N I G			Relinq	uieho	d By			-	D-":				
SE = Sediment	O = Other (Specify)	Sample contain		- //	TY N YO			Citiq	uisiic	u by.			ľ	Kelin	quishe	ed To:	Date:	Time:
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SunLabs Project Number

PBS&J

090410.09

Project Description

Sarasota Landfill Surface Water & Wetlands Assessm

April 20, 2009

SunLabs Sample Number Sample Designation

82951

Temp Well #1

Matrix

Soil

Date Collected

DUII

Date Received

4/9/2009 13:45 4/10/2009 14:10

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Percent Moisture								•	
% Moisture	160.3M	%	20			0.12		04/14/09	
RCRA Metals by EPA Method 6010									
Date Digested	3050		4/16/2009						
Date Analyzed	6010		4/17/2009	1				04/17/09 18:38	04/16/09 09:20
Arsenic	6010	mg/kg	0.25 U	1	0.25	1	7440-38-2	04/17/09 18:38	04/16/09 09:20
Iron	6010	mg/kg	240	_		0.5	7439-89-6		- ,,



SunLabs Project Number

090410.09

PBS&J

Project Description

Sarasota Landfill Surface Water & Wetlands Assessm

April 20, 2009

SunLabs Sample Number Sample Designation

82953

Temp Well #2

Matrix

Soil

Date Collected

4/9/2009 14:30

Date Received

4/10/2009 14:10

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Percent Moisture								,	
% Moisture	160.3M	%	19			0.12		04/14/09	
RCRA Metals by EPA Method 6010								01/14/03	
Date Digested	3050		4/16/2009						
Date Analyzed	6010		4/17/2009						04/16/09 09:20
Arsenic	6010	ma/ka						04/17/09 18:40	
ron	· · ·	mg/kg	0.25 U	1 (	0.25	0.99	7440-38-2	04/17/09 18:40	04/16/09 09:20
	6010	mg/kg	550	5	0.6	2.4	7439-89-6	04/17/09 11:06	



May 19, 2009

Brad Bayne PBS&J 5300 West Cypress St. Suite #200 Tampa, FL 33607

Re:

SunLabs Project Number:

090429.02

Client Project Description:

Sarasota Landfill

Dear Mr. Bayne:

Enclosed is the report of laboratory analysis for the following samples:

Sample Number	Sample Description	Date Collected
83684	SB-P4-1-2	4/28/2009
83685	SPLP Leachate/83684 (SB-P4-1-2)	1120/2000
83686	SB-P4-1-4	4/28/2009
83687	SB-P4-1-6	4/28/2009
83688	SB-P4-2-2	4/28/2009
83689	SPLP Leachate/83688 (SB-P4-2-2)	4/20/2009
83690	SB-P4-2-4	4/28/2009
83691	SB-P4-2-6	4/28/2009
83692	SB-P4-3-2	4/28/2009
83693	SB-P4-3-4	4/28/2009
83694	SPLP Leachate/83693 (SB-P4-3-4)	4/20/2009
83695	SB-P4-3-6	4/28/2009
83696	SB-DUP A	4/28/2009
83697	SB-P4-4-2	4/28/2009
83698	SB-P4-4-4	4/28/2009
83699	SPLP Leachate/83698 (SB-P4-4-4)	4/20/2009
83700	SB-P4-4-6	4/29/2000
83701	SB-P4-5-2	4/28/2009
83702	SPLP Leachate/83701 (SB-P4-5-2)	4/28/2009
83703	SB-P4-5-4	4/00/0000
83704	SB-P4-5-6	4/28/2009
83705	SPLP Leachate/83704 (SB-P4-5-6)	4/28/2009
83706	SB-P4-6-2	
83707	SB-P4-6-4	4/28/2009
83708	SB-P4-6-6	4/28/2009
83709		4/28/2009
83710	SPLP Leachate/83708 (SB-P4-6-6) SB-DUP B	
83711	· · <del>-</del>	4/28/2009
83712	SB-P4-7-2	4/28/2009
83713	SB-P4-7-4	4/28/2009
03/13	SB-P4-7-6	4/28/2009

SunLabs, Inc.

Cover Page 1 of 2

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Sample Number	Sample Description	Date Collected
83714	SPLP Leachate/83713 (SB-P4-7-6)	
83715	SB-P4-8-2	4/28/2009
83716	SB-P4-8-4	4/28/2009
83717	SPLP Leachate/83716 (SB-P4-8-4)	4/20/2009
83718	SB-P4-8-6	4/28/2009
83719	SPLP Leachate/83718 (SB-P4-8-6)	4/20/2009
83720	SB-P4-9-2	4/28/2009
83721	SB-P4-9-4	4/28/2009
83722	SB-P4-9-6	4/28/2009
83723	SB-DUP C	4/28/2009
83724	SB-P4-10-2	4/28/2009
83725	SB-P4-10-4	4/28/2009
83726	SB-P4-10-6	4/28/2009
83727	SB-P4-11-2	4/28/2009
83728	SB-P4-11-4	4/28/2009
83729	SB-P4-11-6	
83730	SPLP Leachate/83729 (SB-P4-11-6)	4/28/2009
83731	SB-P4-12-2	4/29/2000
83732	SB-P4-12-4	4/28/2009
83733	SB-P4-12-6	4/28/2009
83734	SPLP Leachate/83733 (SB-P4-12-6)	4/28/2009
83735	SB-DUP D	4/28/2009

Ammonia was analyzed by Benchmark Enviroanalytical, Inc. NELAC# E84167.

Copies of the Chain(s)-of-Custody, if received, are attached to this report.

If you have any questions or comments concerning this report, please do not hesitate to contact us.

Sincerely,

Michael W. Palmer

Vice President, Laboratory Operations

**Enclosures** 



SunLabs **Project Number** 

090429.02

PBS&J

Project Description

Sarasota Landfill

May 19, 2009

SunLabs Sample Number

83684

Sample Designation

SB-P4-1-2

Matrix

Soil

Date Collected

Date Received

4/28/2009 09:17 4/29/2008 09:08

Parameters	Method	Units	Results	Dil Fact	MDL or	. RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Percent Moisture								,2.00	гіер
% Moisture	160.3M	%	14			0.12		04/30/09	
RCRA Metals by EPA Method 6010	)							, ,	
Date Digested	3050		E/1/2000						
Date Analyzed	6010		5/1/2009						05/01/09 08:50
Arsenic			5/5/2009	1				05/05/09 17:19	
Chromium	6010	mg/kg	1.0	1	0.23	0.93	7440-38-2	05/04/09 18:44	05/01/09 08:50
Copper	6010	mg/kg	22	1	0.23	0.93	7440-47-3	05/04/09 18:44	05/01/09 08:50
Iron	6010	mg/kg	1.0	1	0.07	0.28	7440-50-8	05/04/09 18:44	05/01/09 08:50
	6010	mg/kg	2800	20	2.4	9.4	7439-89-6	05/05/09 17:19	
Lead	6010	mg/kg	2.3	1	0.23	0.93	7439-92-1	05/04/09 18:44	05/01/09 08:50 05/01/09 08:50
Synthetic Precipitation Leaching P	rocodura							05/01/05 10:44	05/01/09 06:50
SPLP - Date Leached									
or Er - Date Leadiled	1312		04/30/09	1				04/30/09 08:00	04/30/09
Total Nitrogen in Solids			. *					, , , , , , , , , , , , , , , , , , , ,	
Date Analyzed									
Fotal Nitrogen			5/14/09 S10	1				05/14/09 13:04	
rotal Niuogen	351.2/353.2	mg/kg	1300	1	4.7	14		05/14/09 13:04	



SunLabs Project Number

090429.02

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Project Description

Sarasota Landfill

May 19, 2009

SunLabs Sample Number Sample Designation

83685

SPLP Leachate/83684 (SB-P4-1-2)

Matrix

SPLP Leachate

Date Collected

Date Received

Parameters	Method	Units	Results	Dil Factor	MDL r	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Anions by Ion Chromatography									
Date Analyzed			05/01/2009	1				05/01/09 02:23	04/20/00 40:20
Nitrate as N	300.0	mg/L	2.0 V	1	0.014	0.056	14797-55-8	05/01/09 02:23	04/30/09 19:30 04/30/09 19:30
<u>Ammonia</u>									- , ,
Nitrogen Ammonia (as N)	350.2	mg/L	0.051	1	0.002	0.008		05/11/09 15:29	
Arsenic by ICP							***************************************		
Date Digested	3010		5/1/2009						
Date Analyzed	6010		5/4/2009	1				05/04/00 45 40	05/01/09 09:00
Arsenic	6010	mg/L	0.0048 U	1	0.0048	0.019	7440-38-2	05/04/09 15:40 05/04/09 15:40	05/01/09 09:00



SunLabs Project Number

090429.02

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Project Description

Sarasota Landfill

May 19, 2009

SunLabs Sample Number Sample Designation

83686 SB-P4-1-4

Matrix

Soil

Date Collected

4/28/2009 09:22

Date Received

Parameters	Method	Units	Results	Dil Facto	MDL	. RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Percent Moisture									
% Moisture	160.3M	%	25			0.13		04/30/09	
<u>Arsenic</u>									
Date Digested	3050		5/5/2009						05/05/09 08:00
Date Analyzed Arsenic	6010		5/5/2009	1				05/05/09 18:42	
AISCINC	6010	mg/kg	1.0 I	1	0.27	1.1	7440-38-2	05/05/09 18:42	05/05/09 08:00



SunLabs **Project Number** 

090429.02

PBS&J

Project Description

Sarasota Landfill

May 19, 2009

SunLabs Sample Number Sample Designation

83687 SB-P4-1-6

Matrix

Date Collected

Soil

Date Received

4/28/2009 09:27 4/29/2008 09:08

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time
Percent Moisture								Anaryzeu	Prep
% Moisture	160.3M	%	19			0.12		04/30/09	
Arsenic								0 1/30/03	
Date Digested	3050		5/5/2009						
Date Analyzed	6010		5/5/2009	1	***************************************				05/05/09 08:00
Arsenic	6010	mg/kg	3.8	1	0.25	0.99	7440-38-2	05/05/09 18:44 05/05/09 18:44	05/05/09 08:00



SunLabs Project Number

090429.02

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Project Description

Sarasota Landfill

May 19, 2009

SunLabs Sample Number Sample Designation

83688

SB-P4-2-2

Matrix

Soil

Date Collected

Soil

Date Received

4/28/2009 09:40 4/29/2008 09:08

Parameters	Method	Units	Results	Dil Fact	MDI or	. RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Percent Moisture									т.ср
% Moisture	160.3M	%	15			0.12		04/30/09	
RCRA Metals by EPA Method 6010								- 1,00,03	
Date Digested	3050		F (4 /2000						
Date Analyzed	6010		5/1/2009						05/01/09 08:50
Arsenic			5/5/2009	1				05/05/09 17:21	
Chromium	6010	mg/kg	2.0	1	0.24	0.94	7440-38-2	05/04/09 18:48	05/01/09 08:50
Copper	6010	mg/kg	24	1	0.24	0.94	7440-47-3	05/04/09 18:48	05/01/09 08:50
ron	6010	mg/kg	1.1	1	0.071	0.28	7440-50-8	05/04/09 18:48	05/01/09 08:50
Lead	6010	mg/kg	4000	20	2.4	9.4	7439-89-6	05/05/09 17:21	05/01/09 08:50
-cau	6010	mg/kg	2.6	1	0.24	0.94	7439-92-1	05/04/09 18:48	05/01/09 08:50
Synthetic Precipitation Leaching Pro	cedura							35,0 1,05 10:10	03/01/03 08.30
SPLP - Date Leached	1312		04/30/09	1				04/30/09 08:00	04/30/09
Total Nitrogen in Solids			• *					0.750705 08.00	
Pate Analyzed									
otal Nitrogen	254 545		5/14/09 S10	1				05/14/09 13:04	
Star Hid Ogell	351.2/353.2	mg/kg	1220	1	4.7	14		05/14/09 13:04	



SunLabs Project Number

090429.02

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Project Description

Sarasota Landfill

May 19, 2009

SunLabs Sample Number Sample Designation

83689

SPLP Leachate/83688 (SB-P4-2-2)

Matrix

SPLP Leachate

Date Collected

Date Received

Parameters	Method	Units	Results	Dil Facto	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Anions by Ion Chromatography								, , , , , , , , , , , , , , , , , , , ,	ПСР
Date Analyzed			05/01/2009	1				05/01/09 02:50	04/30/09 19:30
Nitrate as N	300.0	mg/L	2.0 V	1	0.014	0.056	14797-55-8	05/01/09 02:50	04/30/09 19:30
<u>Ammonia</u>							***************************************		1,00,00 15.50
Nitrogen Ammonia (as N)	350.2	mg/L	0.100	1	0.002	0.008		05/11/09 15:29	
Arsenic by ICP									
Date Digested	3010		5/1/2009						05/01/09 09:00
Date Analyzed Arsenic	6010 6010	mg/L	5/4/2009 0.0048 U	1	0.0048	0.010	7440 20 2	05/04/09 15:48	
			0.00 <del>1</del> 0 U	T	0.0048	0.019	7440-38-2	05/04/09 15:48	05/01/09 09:00



SunLabs **Project Number** 

090429.02

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Project Description

Sarasota Landfill

May 19, 2009

SunLabs Sample Number Sample Designation

83690 SB-P4-2-4

Matrix

Soil

Date Collected

Date Received

4/28/2009 09:45 4/29/2008 09:08

Parameters		***************************************			***************************************				
	Method	Units	Results	Dil Facto	MDL or	. RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Percent Moisture									rich
% Moisture	160.3M	%	15			0.12		04770/00	
<u>Arsenic</u>						0.12		04/30/09	
Date Digested	3050								
Date Analyzed	6010		5/5/2009						05/05/09 08:00
Arsenic	6010		5/5/2009	1				05/05/09 18:46	
	0010	mg/kg	1.1	1	0.24	0.94	7440-38-2	05/05/09 18:46	05/05/09 08:00



SunLabs **Project Number** 

090429.02

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Project Description

Sarasota Landfill

May 19, 2009

SunLabs Sample Number Sample Designation

83691

SB-P4-2-6

Matrix

Soil

Date Collected

Date Received

4/28/2009 09:50 4/29/2008 09:08

Method	Units	Results	Dil Facto		. RL	CAS Number	Date/Time Analyzed	Date/Time Prep
160.3M	%	22			0.13		04/30/09	
					***************************************			
3050		5/5/2000						
								05/05/09 08:00
		, .,	1				05/05/09 18:53	
6010	mg/kg	0.39 I	1	0.26	1	7440-38-2	05/05/09 18:53	05/05/09 08:00
		160.3M % 3050 6010	160.3M % 22 3050 5/5/2009 6010 5/5/2009	160.3M % 22 3050 5/5/2009 6010 5/5/2009 1	160.3M % 22  3050 5/5/2009 6010 5/5/2009 1	160.3M % 22 0.13  3050 5/5/2009 6010 5/5/2009 1	160.3M % 22 0.13  3050 5/5/2009 6010 5/5/2009 1	160.3M % 22 0.13 04/30/09  3050 5/5/2009 6010 5/5/2009 1 05/05/09 18:53



SunLabs **Project Number** 

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Project Description

Sarasota Landfill

May 19, 2009

SunLabs Sample Number Sample Designation

83692 SB-P4-3-2

Matrix

Date Collected

Soil

Date Received

4/28/2009 10:10 4/29/2008 09:08

Parameters	4	Mathe										
	Method	Units	Results	Dil Facto	MDI or	L RL	CAS Number	Date/Time Analyzed	Date/Time			
Percent Moisture								Andryzeu	Prep			
% Moisture	160.3M	%	13			0.11						
Arsenic						0.11		04/30/09				
Date Digested	3050											
Date Analyzed			5/5/2009						05/05/09 08:00			
Arsenic	6010 6010		5/5/2009	1				05/05/09 18:55				
	0010	mg/kg	3.0	1	0.23	0.92	7440-38-2	05/05/09 18:55				



SunLabs **Project Number** 

090429.02

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Project Description

Sarasota Landfill

May 19, 2009

SunLabs Sample Number Sample Designation

83693 SB-P4-3-4

Matrix

Soil

Date Collected

Date Received

4/28/2009 10:15 4/29/2008 09:08

Parameters	Method	Units	Results	Dil Fact	MDI or	. RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Percent Moisture					***************************************				riep
% Moisture	160.3M	%	27			0.14		04/30/09	
RCRA Metals by EPA Method 601	10					***************************************	***************************************		
Date Digested	3050		5/1/2009						
Date Analyzed	6010		5/5/2009	1					05/01/09 08:50
Arsenic	6010	mg/kg	0.27 U	1	0.27	1.1	7440-38-2	05/05/09 15:15	
Chromium	6010	mg/kg	0.71 I	1	0.27	1.1	7440-38-2	05/04/09 18:52	05/01/09 08:50
Copper	6010	mg/kg	0.082 U	1	0.082	0.33		05/04/09 18:52	05/01/09 08:50
[ron	6010	mg/kg	270	1	0.14	0.55	7440-50-8 7439-89-6	05/04/09 18:52	05/01/09 08:50
Lead	6010	mg/kg	1.0 I	1	0.27	1.1	7439-89-6 7439-92-1	05/05/09 15:15	05/01/09 08:50
Synthetic Precipitation Leaching						4.1	7435-92-1	05/04/09 18:52	05/01/09 08:50
SPLP - Date Leached	<u>Procedure</u>								
orer - Date Leached	1312		04/30/09	1				04/30/09 08:00	04/30/09
Total Nitrogen in Solids				***************************************	***************************************			0.755,05 00.00	V-1/20/03
Date Analyzed			5/14/09 S10	1				05/14/00 12 01	
Total Nitrogen	351.2/353.2	mg/kg	3700	<del>-</del>	5.5	16		05/14/09 13:04 05/14/09 13:04	



SunLabs **Project Number** 

090429.02

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Project Description

Sarasota Landfill

May 19, 2009

SunLabs Sample Number Sample Designation

83694

SPLP Leachate/83693 (SB-P4-3-4)

Matrix

SPLP Leachate

Date Collected

Date Received

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Anions by Ion Chromatography					***************************************				riep
Date Analyzed Nitrate as N	200		05/01/2009	1				05/01/09 03:17	04/30/09 19:30
Ammonia	300.0	mg/L	2.3 V	1	0.014	0.056	14797-55-8	05/01/09 03:17	04/30/09 19:30
Nitrogen Ammonia (as N)	350.2	mg/L	0.147	1	0.002	0.008		05/11/09 15:29	
Arsenic by ICP								,,,,,,,,,,	
Date Digested Date Analyzed Arsenic	3010 6010		5/1/2009 5/4/2009	1				05/04/09 15:50	05/01/09 09:00
	6010	mg/L	0.0048 U	1	0.0048	0.019	7440-38-2		05/01/09 09:00



SunLabs Project Number

090429.02

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Project Description

Sarasota Landfill

May 19, 2009

SunLabs Sample Number Sample Designation

83695 SB-P4-3-6

Matrix

Soil

Date Collected

2011

Date Received

4/28/2009 10:20 4/29/2008 09:08

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Percent Moisture					_	****		,	
% Moisture	160.3M	%	20			0.12		04/30/09	
<u>Arsenic</u>						***************************************	***************************************		
Date Digested	3050		5/5/2009						05/05/00 00 00
Date Analyzed	6010		5/5/2009	1				0E/0E/00 10:50	05/05/09 08:00
Arsenic	6010	mg/kg	0.25 U	1	0.25	1	7440-38-2	05/05/09 18:58 05/05/09 18:58	05/05/09 08:00



SunLabs **Project Number** 

090429.02

PBS&J

Project Description

Sarasota Landfill

May 19, 2009

SunLabs Sample Number Sample Designation

83696 **SB-DUP A** 

Matrix

Date Collected

Soil

4/28/2009 10:10

Date Received

Parameters	Method	Units	Results	Dil Facto	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Percent Moisture % Moisture  Arsenic	160.3M	%	22			0.13		04/30/09	гіер
Date Digested Date Analyzed Arsenic	3050 6010 6010	mg/kg	5/5/2009 5/5/2009 0.75 I	1	0.26	1	7440-38-2	05/05/09 19:00 05/05/09 19:00	05/05/09 08:00 05/05/09 08:00



SunLabs **Project Number** 

090429.02

PBS&J

Project Description

Sarasota Landfill

May 19, 2009

SunLabs Sample Number Sample Designation

83697

Matrix

SB-P4-4-2

Date Collected

4/28/2009 10:35

Date Received

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Percent Moisture			The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon						riep
% Moisture	160.3M	%	18			0.12		04/30/09	
<u>Arsenic</u>					and the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of th				***************************************
Date Digested	3050		E/E/2000						
Date Analyzed	6010		5/5/2009		***************************************				05/05/09 08:00
Arsenic			5/5/2009	1				05/05/09 19:02	***************************************
	6010	mg/kg	0.24 U	11	0.24	0.98	7440-38-2	05/05/09 19:02	05/05/09 08:00



SunLabs Project Number

090429.02

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Project Description

Sarasota Landfill

May 19, 2009

SunLabs Sample Number Sample Designation

83698

SB-P4-4-4

Matrix

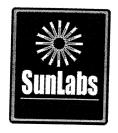
Soil

Date Collected

4/28/2009 10:40

Date Received

Parameters	Method	Units	Results	Dil Fac	MDI tor	. RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Percent Moisture						***************************************		,	
% Moisture	160.3M	%	16			0.12		04/30/09	
RCRA Metals by EPA Method 601	.0								
Date Digested	3050		5/1/2009						
Date Analyzed	6010		5/5/2009	1					05/01/09 08:50
Arsenic	6010	mg/kg	0.24 U		0.24	0.05	7.40.00	05/05/09 15:17	
Chromium	6010	mg/kg	0.24 U	1		0.95	7440-38-2	05/04/09 18:56	05/01/09 08:50
Copper	6010			1	0.24	0.95	7440-47-3	05/04/09 18:56	05/01/09 08:50
Iron	6010	mg/kg	0.071 U	1	0.071	0.29	7440-50-8	05/04/09 18:56	05/01/09 08:50
Lead	6010	mg/kg	73	1	0.12	0.48	7439-89-6	05/05/09 15:17	05/01/09 08:50
		mg/kg	0.67 I	1	0.24	0.95	7439-92-1	05/04/09 18:56	05/01/09 08:50
Synthetic Precipitation Leaching	Procedure								
SPLP - Date Leached	1312		04/30/09	1				04/30/09 08:00	04/30/09
Total Nitrogen in Solids			• *					- ,, 55.55	
Date Analyzed									
Total Nitrogen	251 2/252 2		5/14/09 S10	1				05/14/09 13:04	
	351.2/353.2	mg/kg	3000	1	4.8	14		05/14/09 13:04	



SunLabs Project Number

090429.02

PBS&J

Project Description

Sarasota Landfill

May 19, 2009

SunLabs Sample Number Sample Designation

83699

SPLP Leachate/83698 (SB-P4-4-4)

Matrix

SPLP Leachate

Date Collected

Date Received 4/29/2

							.,	/2000 05.00	
Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Anions by Ion Chromatography Date Analyzed									
Nitrate as N	200.0		05/01/2009	1				05/01/09 03:43	04/30/09 19:30
	300.0	mg/L	2.1 V	1	0.014	0.056	14797-55-8	05/01/09 03:43	04/30/09 19:30
<u>Ammonia</u>									
Nitrogen Ammonia (as N)	350.2	mg/L	0.224	1	0.002	0.008		05/11/09 15:29	
Arsenic by ICP									
Date Digested Date Analyzed	3010		5/1/2009						05/01/09 09:00
Parsenic	6010		5/4/2009	1		-		05/04/09 15:53	03/01/09 09:00
risenc	6010	mg/L	0.00 <del>4</del> 8 U	1 (	0.0048	0.019	7440-38-2	05/04/09 15:53	05/01/09 09:00



SunLabs **Project Number** 

090429.02

PBS&J

Project Description

Sarasota Landfill

May 19, 2009

SunLabs Sample Number Sample Designation

83700 SB-P4-4-6

Matrix

Soil

Date Collected Date Received

4/28/2009 10:45 4/29/2008 09:08

								, =	
Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time
Percent Moisture % Moisture Arsenic	160.3M	%	• <sub>18</sub>			0.12		04/30/09	Prep
Date Analyzed Arsenic	3050 6010 6010	mg/kg	5/5/2009 5/5/2009 0.24 U	1	0.24	0.98	7 <del>44</del> 0-38-2	05/05/09 19:05 05/05/09 19:05	



SunLabs Project Number

090429.02

PBS&J

Project Description

Sarasota Landfill

May 19, 2009

SunLabs Sample Number Sample Designation

83701 SB-P4-5-2

Matrix

Soil

Date Collected Date Received Soll

4/

4/28/2009 11:00 4/29/2008 09:08

							,	72000 05.00	
Parameters	Method	Units	Results	Dil Fact	MD:	L RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Percent Moisture									
% Moisture	160.3M	%	22			0.13		04/30/09	
RCRA Metals by EPA Method 60	010				***************************************	***************************************		0.730703	
Date Digested	3050		5/1/2009						
Date Analyzed	6010		5/5/2009						05/01/09 08:50
Arsenic	6010	ma/ka	• •	1				05/05/09 17:23	
Chromium	6010	mg/kg	0.94 I	1	0.26	1	7440-38-2	05/04/09 19:00	05/01/09 08:50
Copper		mg/kg	13	1	0.26	1	7440-47-3	05/04/09 19:00	05/01/09 08:50
Iron	6010	mg/kg	0.077 U	1	0.077	0.31	7440-50-8	05/04/09 19:00	05/01/09 08:50
Lead	6010	mg/kg	2600	20	2.6	10	7439-89-6	05/05/09 17:23	05/01/09 08:50
	6010	mg/kg	1.9	1	0.26	1	7439-92-1	05/04/09 19:00	05/01/09 08:50
Synthetic Precipitation Leaching	a Procedure		The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s		***************************************		***************************************		03/01/03 08.30
SPLP - Date Leached									
	1312	***************************************	04/30/09	1				04/30/09 08:00	04/30/09
Total Nitrogen in Solids									- 1,55,65
Date Analyzed									
Total Nitrogen			5/14/09 S10	1				05/14/09 13:04	•
· · · · · · · · · · · · · · · · ·	351.2/353.2	mg/kg	1200	1	5.1	15		05/14/09 13:04	
								,, 20101	



SunLabs Project Number

090429.02

PBS&J

Project Description

Sarasota Landfill

May 19, 2009

SunLabs Sample Number Sample Designation

83702

SPLP Leachate/83701 (SB-P4-5-2)

Matrix

SPLP Leachate

Date Collected

Date Received

					7-7/2000 03:00				
Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Anions by Ion Chromatography							***************************************		
Date Analyzed			05/01/2009	1				05/01/09 04:10	04/20/00 10 20
Nitrate as N	300.0	mg/L	1.8 V	1	0.014	0.056	14797-55-8	05/01/09 04:10	, , , , , , , , , , , , , , , , , , , ,
<u>Ammonia</u>								00,01,05 0 1.10	04/30/03 19.30
Nitrogen Ammonia (as N)	350.2	mg/L	0.580	1	0.002	0.008		05/11/09 15:29	
Arsenic by ICP								,	
Date Digested	3010		5/1/2009						
Date Analyzed Arsenic	6010		5/4/2009	1				05/04/09 15:55	05/01/09 09:00
	6010	mg/L	0.0048 U	1 (	0.0048	0.019	7440-38-2	05/04/09 15:55	05/01/09 09:00



SunLabs Project Number

090429.02

PBS&J

Project Description

Sarasota Landfill

May 19, 2009

SunLabs Sample Number Sample Designation

83703 SB-P4-5-4

Matrix

Soil

Date Collected Date Received 4/28/2009 11:05

					,,								
Parameters	Method	Units	Results	Dil Facto	MDI or	L RL	CAS Number	Date/Time Analyzed	Date/Time Prep				
Percent Moisture													
% Moisture	160.3M		20			0.12		04/30/09					
<u>Arsenic</u>						***************************************		- 7-7/					
Date Digested	3050		5/5/2009										
Date Analyzed	6010								05/05/09 08:00				
Arsenic			5/5/2009	1				05/05/09 19:07					
	6010	mg/kg	0.98 I	1	0.25	1	7440-38-2	05/05/09 19:07	05/05/09 08:00				



SunLabs **Project Number** 

090429.02

PBS&J

Project Description

Sarasota Landfill

May 19, 2009

SunLabs Sample Number Sample Designation

83704 SB-P4-5-6

Matrix

Soil

Date Collected

4/28/2009 11:10

Date Received

Parameters	Method	Units	Results	Dil Fact	MDL or	. RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Percent Moisture								-	
% Moisture	160.3M	%	18			0.12		04/30/09	
RCRA Metals by EPA Method 6010									
Date Digested	3050		5/1/2009						
Date Analyzed	6010		5/5/2009	1				05/05/00 +5.04	05/01/09 08:50
Arsenic	6010	mg/kg	8.9	1	0.24	0.98	7440-38-2	05/05/09 17:26	
Chromium	6010	mg/kg	5.0	1	0.24	0.98		05/04/09 19:04	05/01/09 08:50
Copper	6010	mg/kg	0.073 U	+	0.073	0.29	7440-47-3	05/04/09 19:04	05/01/09 08:50
[ron	6010	mg/kg	6800	50	6	24	7440-50-8	05/04/09 19:04	05/01/09 08:50
Lead	6010	mg/kg	0.82 I	1	0.24	0.98	7439-89-6 7439-92-1	05/05/09 17:26 05/04/09 19:04	05/01/09 08:50
Synthetic Precipitation Leaching Pr	rocoduro			_			, 133 32 1	05/04/05 15:04	05/01/09 08:50
SPLP - Date Leached									
FEF - Date Leadiled	1312		04/30/09	1				04/30/09 08:00	04/30/09
<u> Total Nitrogen in Solids</u>									
Date Analyzed			5/14/09 S10	1					
Total Nitrogen	351.2/353.2	mg/kg	1900	1	4.0			05/14/09 13:04	
		mg/kg	1300		4.9	15		05/14/09 13:04	



SunLabs Project Number

090429.02

PBS&J

Project Description

Sarasota Landfill

May 19, 2009

SunLabs Sample Number Sample Designation

83705

SPLP Leachate/83704 (SB-P4-5-6)

Matrix

SPLP Leachate

Date Collected

Date Received

							.,	,2000 05.00	
Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Anions by Ion Chromatography									
Date Analyzed Nitrate as N	300.0	ma/l	05/01/2009	1				05/01/09 04:37	04/30/09 19:30
Ammonia	300.0	mg/L	2.2 V	1	0.014	0.056	14797-55-8	05/01/09 04:37	04/30/09 19:30
Nitrogen Ammonia (as N)	350.2	mg/L	0.557	1	0.002	0.008		05/11/09 15:29	
Arsenic by ICP									
Date Digested Date Analyzed	3010 6010		5/1/2009						05/01/09 09:00
Arsenic	6010	mg/L	5/4/2009 0.0048 U	1 1 (	0.0048	0.019	7440-38-2	05/04/09 15:57 05/04/09 15:57	05/01/09 09:00



SunLabs Project Number

090429.02

PBS&J

Project Description

Sarasota Landfill

May 19, 2009

SunLabs Sample Number Sample Designation

83706 SB-P4-6-2

Matrix

Soil

Date Collected

4/28/2009 11:20

Date Received

Parameters		***************************************							
	Method	Units	Results	Dil Facto		RL	CAS Number	Date/Time Analyzed	Date/Time
Percent Moisture								raidiyacu	Prep
% Moisture	160.3M	%	22			0.13		04/00/00	
<u>Arsenic</u>						0.13		04/30/09	
Date Digested	3050								
Date Analyzed			5/5/2009						05/05/09 08:00
Arsenic	6010		5/5/2009	1				05/05/09 19:09	
	6010	mg/kg	0.75 I	1	0.26	1	7440-38-2	05/05/09 19:09	



SunLabs Project Number

090429.02

PBS&J

Project Description

Sarasota Landfill

May 19, 2009

SunLabs Sample Number Sample Designation

83707 SB-P4-6-4

Matrix

Soil

Date Collected

4/28/2009 11:25

Date Received

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Percent Moisture									
% Moisture	160.3M	%	17			0.12		04/30/09	
<u>Arsenic</u>			*						
Date Digested	3050		E/E/2000						
Date Analyzed	6010		5/5/2009						05/05/09 08:00
rsenic			5/5/2009	1				05/05/09 19:12	
	6010	mg/kg	0.38 I	1	0.24	0.96	7440-38-2	05/05/09 19:12	05/05/09 08:00



SunLabs Project Number

090429.02

PBS&J

Project Description

Sarasota Landfill

May 19, 2009

SunLabs Sample Number Sample Designation

83708 SB-P4-6-6

Matrix

Soil

Date Collected

4/28/2009 11:30

Date Received

NAME OF THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE OWNER, THE							,	72000 03.00	
Parameters	Method	Units	Results	Dil Facto	MDL r	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Percent Moisture									
% Moisture	160.3M	%	17			0.12		04/30/09	
RCRA Metals by EPA Method 6010								04/30/09	
Date Digested	3050								
Date Analyzed	6010		5/4/2009						05/04/09 09:00
Arsenic	6010		5/5/2009	1				05/05/09 17:40	
Chromium	6010	mg/kg	0.39 I	1	0.24	0.96	7440-38-2	05/04/09 17:25	05/04/09 09:00
Copper		mg/kg	0.90 I	1	0.24	0.96	7440-47-3	05/04/09 17:25	05/04/09 09:00
Iron	6010	mg/kg	0.072 U	1	0.072	0.29	7440-50-8	05/04/09 17:25	05/04/09 09:00
Lead	6010	mg/kg	460 V	2	0.24	0.96	7439-89-6	05/05/09 17:40	05/04/09 09:00
_	6010	mg/kg	0.87 I	1	0.24	0.96	7439-92-1	05/04/09 14:29	05/04/09 09:00
Synthetic Precipitation Leaching Pro-	cedure								03/04/09 09:00
SPLP - Date Leached	1312		04/30/09	1				0.400.00	
Total Nitrogen in Solids			1,57,	•				04/30/09 08:00	04/30/09
Pate Analyzed									
otal Nitrogen	254 2/255 -		5/14/09 S10	1				05/14/09 13:04	
-3	351.2/353.2	mg/kg	400	1	4.8	14		05/14/09 13:04	
				***************************************				03/17/09 13:04	



SunLabs Project Number

090429.02

PBS&J

Project Description

Sarasota Landfill

May 19, 2009

SunLabs Sample Number Sample Designation

83709

SPLP Leachate/83708 (SB-P4-6-6)

Matrix

SPLP Leachate

Date Collected
Date Received

								,	
Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Anions by Ion Chromatography									
Date Analyzed Nitrate as N	300.0	mg/L	05/01/2009 2.2 V	1	0.014	0.056	14707 55 0	05/01/09 06:24	04/30/09 19:30
Ammonia		-		1	0.014	0.036	14797-55-8	05/01/09 06:24	04/30/09 19:30
Nitrogen Ammonia (as N)	350.2	mg/L	0.154	1	0.002	0.008		05/11/09 15:29	
Arsenic by ICP									
Date Digested Date Analyzed	3010 6010		5/1/2009						05/01/09 09:00
Arsenic	6010	mg/L	5/4/2009 0.0048 U	1 1 (	0.0048	0.019	7440-38-2	05/04/09 16:00 05/04/09 16:00	05/01/09 09:00



SunLabs Project Number

090429.02

PBS&J

Project Description

Sarasota Landfill

May 19, 2009

SunLabs Sample Number Sample Designation

83710 SB-DUP B

Matrix

Soil

Date Collected
Date Received

4/28/2009 11:25

4/

							,	,====	
Parameters	Method	Units	Results	Dil Factor		RL	CAS Number	Date/Time Analyzed	Date/Time
Percent Moisture								Anaryzeu	Prep
% Moisture	160.3M	%	19			0.12			
Arsenic						0.12		04/30/09	
Date Digested	2050								
Date Analyzed	3050		5/5/2009						05/05/09 08:00
Arsenic	6010		5/5/2009	1				05/05/09 19:14	
	6010	mg/kg	0.47 I	1	0.25	0.99	7440-38-2	05/05/09 19:14	



SunLabs Project Number

090429.02

PBS&J

Project Description

Sarasota Landfill

May 19, 2009

SunLabs Sample Number Sample Designation

83711 SB-P4-7-2

Matrix

Soil

Date Collected
Date Received

4/28/2009 11:40

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Percent Moisture									
% Moisture	160.3M	%	19			0.12		04/30/09	
<u>Arsenic</u>					***************************************	#14#HALLING			***************************************
Date Digested	3050		5/5/2009						
Date Analyzed	6010								05/05/09 08:00
Arsenic			5/5/2009	1				05/05/09 19:21	
	6010	mg/kg	0.25 U	1	0.25	0.99	7440-38-2	05/05/09 19:21	05/05/09 08:00



SunLabs Project Number

090429.02

PBS&J

Project Description

Sarasota Landfill

May 19, 2009

SunLabs Sample Number Sample Designation

83712

SB-P4-7-4

Matrix

Soil

Date Collected
Date Received

4/28/2009 11:45

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Percent Moisture % Moisture	160.3M	%	19			0.12		04/30/09	
Arsenic Date Digested	3050		E/E/2000					04/30/09	
Date Analyzed Arsenic	6010		5/5/2009 5/5/2009	. 1		K		05/05/09 19:23	05/05/09 08:00
	6010	mg/kg	0.25 U	1	0.25	0.99	7440-38-2	05/05/09 19:23	05/05/09 08:00



SunLabs Project Number

090429.02

PBS&J

Project Description

Sarasota Landfill

May 19, 2009

SunLabs Sample Number Sample Designation

83713 SB-P4-7-6

Matrix

Soil

Date Collected

4/28/2009 11:50

Date Received

Parameters	Method	Units	Results	Dil	MD	L RL	CAS	Date/Time	Date/Time
Donout Maint				Facto	or		Number	Analyzed	Prep
Percent Moisture									
% Moisture	160.3M	%	18						
			10			0.12		04/30/09	
RCRA Metals by EPA Method 60	<u>)10</u>								
Date Digested	3050		E /1 /2000						
Date Analyzed	6010		5/1/2009						05/01/09 08:50
Arsenic	6010		5/5/2009	1				05/05/09 17:28	
Chromium		mg/kg	0.24 U	1	0.24	0.98	7440-38-2	05/04/09 19:08	05/01/09 08:50
Copper	6010	mg/kg	2.2	1	0.24	0.98	7440-47-3	05/04/09 19:08	05/01/09 08:50
Iron	6010	mg/kg	0.073 U	1	0.073	0.29	7440-50-8	05/04/09 19:08	05/01/09 08:50
	6010	mg/kg	820	5	0.6	2.4	7439-89-6	05/05/09 17:28	
Lead	6010	mg/kg	0.93 I	1	0.24	0.98	7439-92-1		05/01/09 08:50
Synthotic Drogimitation 1 1	_					0.50	7737-32-1	05/04/09 19:08	05/01/09 08:50
Synthetic Precipitation Leaching	<u>g Procedure</u>								
SPLP - Date Leached	1312		04/30/09	1				045000	
Total Nitrogen in Call I				<u>+</u>				04/30/09 08:00	04/30/09
Total Nitrogen in Solids									
Date Analyzed			5/14/09 S10						
Total Nitrogen	351.2/353.2	ma/ka						05/14/09 13:04	
	331.2 333.2	mg/kg	660	1	4.9	15		05/14/09 13:04	



SunLabs Project Number

090429.02

PBS&J

Project Description

Sarasota Landfill

May 19, 2009

SunLabs Sample Number Sample Designation

83714

SPLP Leachate/83713 (SB-P4-7-6)

Matrix

SPLP Leachate

Date Collected

Date Received

Parameters	Method	Units	Results	Dil	MDL	RL	CAS	Date/Time	Date/Time
				Factor	•		Number	Analyzed	Prep
Anions by Ion Chromatography									
Date Analyzed			05/01/2009						
Nitrate as N	300.0	ma/l		<u>l</u>				05/01/09 06:51	04/30/09 19:30
	500.0	mg/L	2.1 V	1	0.014	0.056	14797-55-8	05/01/09 06:51	04/30/09 19:30
<u>Ammonia</u>									
Nitrogen Ammonia (as N)	350.2	mg/L	0.148	1	0.002	0.008			
Arsenic by ICP		3, -	0.1.10	•	0.002	0.000		05/11/09 15:29	
Date Digested									
Date Analyzed	3010		5/1/2009						05/01/09 09:00
Arsenic	6010		5/4/2009	1				05/04/09 16:02	05/01/05 05.00
- Julie	6010	mq/L	0.0048 11	1	0.0048	0.010	7440-38-2		05/01/09 09:00



SunLabs Project Number

090429.02

PBS&J

Project Description

Sarasota Landfill

May 19, 2009

SunLabs Sample Number Sample Designation

83715 SB-P4-8-2

Matrix

Soil

Date Collected Date Received 3011

4/28/2009 13:00 4/29/2008 09:08

					1,23,2000 03.00								
Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep				
Percent Moisture									riep				
% Moisture	160.3M	%	12			0.11		04/20/00					
<u>Arsenic</u>			***************************************	***************************************	***************************************			04/30/09	***************************************				
Date Digested	3050		5/5/2009				,						
Date Analyzed	6010	***************************************	5/5/2009						05/05/09 08:00				
Arsenic	6010	ma/ka		1				05/05/09 19:26					
	0010	mg/kg	0.77 I	1	0.23	0.91	7440-38-2	05/05/09 19:26	05/05/09 08:00				



SunLabs Project Number

090429.02

PBS&J

Project Description

Sarasota Landfill

May 19, 2009

SunLabs Sample Number Sample Designation

83716 SB-P4-8-4

Matrix

Soil

Date Collected

4/28/2009 13:05

Date Received

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Percent Moisture								, , , , , , , , , , , , , , , , , , , ,	ПСР
% Moisture	160.3M	%	12			0.11		04/30/09	
RCRA Metals by EPA Method 601	0							, - ,	
Date Digested	3050		E/1/2000						
Date Analyzed	6010		5/1/2009 5/5/2009						05/01/09 08:50
Arsenic	6010	mg/kg			0.33			05/05/09 17:31	
Chromium	6010		0.34 I	-	0.23	0.91	7440-38-2	05/04/09 19:12	05/01/09 08:50
Copper		mg/kg	0.27 I		0.23	0.91	7440-47-3	05/04/09 19:12	05/01/09 08:50
Iron	6010	mg/kg	0.068 U	1	0.068	0.27	7440-50-8	05/04/09 19:12	05/01/09 08:50
_ead	6010	mg/kg	280	2	0.22	0.9	7439-89-6	05/05/09 17:31	05/01/09 08:50
	6010	mg/kg	0.61 I	1	0.23	0.91	7439-92-1	05/04/09 19:12	05/01/09 08:50
Synthetic Precipitation Leaching (	Procedure								11,11,11
SPLP - Date Leached	1312		04/30/09	1				04/30/09 08:00	04/30/09
<u> Fotal Nitrogen in Solids</u>								- ,, 55.00	- 1,30,03
Pate Analyzed									
otal Nitrogen	251 5155		5/14/09 S17	1				05/14/09 13:04	
- THOUSE I	351.2/353.2	mg/kg	1600	1 4	4.5	14		05/14/09 13:04	



SunLabs Project Number

090429.02

PBS&J

Project Description

Sarasota Landfill

May 19, 2009

SunLabs Sample Number Sample Designation

83717

SPLP Leachate/83716 (SB-P4-8-4)

Matrix

SPLP Leachate

Date Collected

Date Received

					acc icc	CCIVEL	4/29	4/29/2008 09:08		
Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep	
Anions by Ion Chromatography								, , , , , , , , , , , , , , , , , , , ,	тер	
Date Analyzed Nitrate as N	300.0	mg/L	05/01/2009 2.2 V	1	0.014	0.056	14797-55-8	05/01/09 07:18	- ,, 25150	
Ammonia							14/3/-33-6	05/01/09 07:18	04/30/09 19:30	
Nitrogen Ammonia (as N)	350.2	mg/L	0.150	1	0.002	0.008		05/11/09 15:29		
Arsenic by ICP										
Date Digested Date Analyzed	3010 6010		5/1/2009						05/01/09 09:00	
Arsenic	6010	mg/L	5/4/2009 0.007 I	1 1	0.0048	0.019	7440-38-2	05/04/09 16:04 05/04/09 16:04	05/01/09 09:00	



SunLabs Project Number

090429.02

PBS&J

Project Description

Sarasota Landfill

May 19, 2009

SunLabs Sample Number Sample Designation 83718

SB-P4-8-6

Matrix

Soil

Date Collected

4/28/2009 13:10

Date Received

Parameters	Method	Units	Results	Dil Fact	MDL	. RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Percent Moisture								·····yzcu	гіер
% Moisture	160.3M	%	15			0.12		04/30/09	
RCRA Metals by EPA Method 60:	10							1,750,05	
Date Digested	3050		E /4 /2000						
Date Analyzed	6010		5/1/2009						05/01/09 08:50
Arsenic			5/5/2009	1				05/05/09 17:33	
Chromium	6010	mg/kg	0.29 I	1	0.24	0.94	7440-38-2	05/04/09 19:16	05/01/09 08:50
Copper	6010	mg/kg	0.82 I	1	0.24	0.94	7440-47-3	05/04/09 19:16	05/01/09 08:50
Iron	6010	mg/kg	0.071 U	1	0.071	0.28	7440-50-8	05/04/09 19:16	05/01/09 08:50
Lead	6010	mg/kg	1400	10	1.2	4.7	7439-89-6	05/05/09 17:33	05/01/09 08:50
Lead	6010	mg/kg	0.48 I	1	0.24	0.94	7439-92-1	05/04/09 19:16	05/01/09 08:50
Synthetic Precipitation Leaching	Procedure							03/0 //03 13.10	03/01/09 08:50
SPLP - Date Leached	1312		0.4/0.0/0.0						
	. 1312		04/30/09	1				04/30/09 08:00	04/30/09
<u>Total Nitrogen in Solids</u>									-
Date Analyzed									
Fotal Nitrogen	251 2/252 2		5/14/09 S10	1				05/14/09 13:04	
T. Control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the con	351.2/353.2	mg/kg	890	1	4.7	14		05/14/09 13:04	



SunLabs Project Number

090429.02

PBS&J

Project Description

Sarasota Landfill

May 19, 2009

SunLabs Sample Number Sample Designation

83719

SPLP Leachate/83718 (SB-P4-8-6)

Matrix

SPLP Leachate

Date Collected

Date Received

				_			1/25		
Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Anions by Ion Chromatography Date Analyzed			05/01/2009	4		-			ПСР
Nitrate as N	300.0	mg/L	2.2 V	1 1	0.014	0.056	14797-55-8	05/01/09 07:45 05/01/09 07:45	- ,, 15.50
Ammonia Nitrogen Ammonia (as N)	350.2	mg/L	0.270	1	0.002	0.008			1,00,00
Arsenic by ICP					0.002	0.006		05/11/09 15:29	
Date Digested Date Analyzed	3010 6010		5/1/2009 5/4/2009	1		-			05/01/09 09:00
Arsenic	6010	mg/L	0.0048 U	1 1	0.0048	0.019	7440-38-2	05/04/09 16:07 05/04/09 16:07	05/01/09 09:00



SunLabs **Project Number** 

090429.02

PBS&J

Project Description

Sarasota Landfill

May 19, 2009

SunLabs Sample Number Sample Designation

83720

SB-P4-9-2

Matrix

Soil

Date Collected

4/28/2009 13:30

Date Received

Parameters									
	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Percent Moisture								•	тер
% Moisture	160.3M	%	. 10			0.11		04/30/09	
<u>Arsenic</u>								0.450,05	
Date Digested	3050		5/5/2009						05/05/00 00 00
Date Analyzed Arsenic	6010		5/5/2009	1				05/05/09 19:28	05/05/09 08:00
	6010	mg/kg	1.3	1	0.22	0.89	7440-38-2	05/05/09 19:28	05/05/09 08:00



SunLabs Project Number

090429.02

PBS&J

Project Description

Sarasota Landfill

May 19, 2009

SunLabs Sample Number Sample Designation

83721 SB-P4-9-4

Matrix

Soil

Date Collected

4/28/2009 13:30

Date Received

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Percent Moisture									1100
% Moisture	160.3M	%	21			0.13		04/30/09	
<u>Arsenic</u>								04/30/09	
Date Digested	3050		E/E/2000						
Date Analyzed	6010		5/5/2009						05/05/09 08:00
Arsenic	6010		5/6/2009 *	1				05/06/09 13:52	
	9010	mg/kg	0.25 U	1 1	0.25	1	7440-38-2	05/06/09 13:52	05/05/09 08:00



SunLabs Project Number

090429.02

PBS&J

Project Description

Sarasota Landfill

May 19, 2009

SunLabs Sample Number Sample Designation

83722 SB-P4-9-6

Matrix

Soil

Date Collected Date Received 2011

4/28/2009 13:40 4/29/2008 09:08

Parameters	Method	Units	Results	Dil	MDL	RL			***************************************
				Factor		KL	CAS Number	Date/Time Analyzed	Date/Time Prep
Percent Moisture								,	
% Moisture	160.3M	%	20			0.12		04/30/09	
<u>Arsenic</u>								1,20,03	
Date Digested	3050		5/5/2009						
Date Analyzed	6010		5/6/2009						05/05/09 08:00
Arsenic	6010							05/06/09 13:57	
	0010	mg/kg	0.39 I	1	0.25	1	7440-38-2	05/06/09 13:57	05/05/09 08:00



SunLabs Project Number

090429.02

PBS&J

Project Description

Sarasota Landfill

May 19, 2009

SunLabs Sample Number Sample Designation

83723 SB-DUP C

Matrix

Soil

Date Collected

4/28/2009 13:40

Date Received

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
<u>Percent Moisture</u>						***************************************		,	
% Moisture	160.3M	%	19			0.12		04/30/09	
<u>Arsenic</u>				***************************************	************************			01/30/03	
Date Digested	3050		5/5/2009						
ate Analyzed	6010						******************************		05/05/09 08:00
rsenic			5/6/2009	1				05/06/09 14:00	
	6010	mg/kg	0.45 I	1	0.25	0.99	7440-38-2	05/06/09 14:00	05/05/09 08:00



SunLabs **Project Number** 

090429.02

PBS&J

Project Description

Sarasota Landfill

May 19, 2009

SunLabs Sample Number Sample Designation

83724 SB-P4-10-2

Matrix

Soil

Date Collected

Date Received

4/28/2009 13:50 4/29/2008 09:08

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
<u>Percent Moisture</u> % Moisture	160.3M	%	13						ТСР
<u>Arsenic</u>	100.511	70	13			0.11		04/30/09	
Date Digested	3050		5/5/2009						05/05/00 00 00
Date Analyzed Arsenic	6010		5/6/2009	1				05/06/09 14:02	05/05/09 08:00
	6010	mg/kg	0.41 I	1	0.23	0.92	7440-38-2	05/06/09 14:02	05/05/09 08:00



SunLabs **Project Number** 

090429.02

PBS&J

Project Description

Sarasota Landfill

May 19, 2009

SunLabs Sample Number Sample Designation

83725 SB-P4-10-4

Matrix

Soil

Date Collected

4/28/2009 13:55

Date Received

							,	, =====	
Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Percent Moisture									тер
% Moisture	160.3M	%	18			0.12	,	04/30/09	
<u>Arsenic</u>								0 430,03	
Date Digested	3050								
Date Analyzed			5/5/2009						05/05/09 08:00
Arsenic	6010		5/6/2009	1				05/06/09 14:13	
	6010	mg/kg	0.24 U	11	0.24	0.98	7440-38-2	05/06/09 14:13	05/05/09 08:00



SunLabs Project Number

090429.02

PBS&J

Project Description

Sarasota Landfill

May 19, 2009

SunLabs Sample Number Sample Designation

83726 SB-P4-10-6

Matrix

Soil

Date Collected

4/28/2009 14:00

Date Received

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Percent Moisture									
% Moisture	160.3M	%	20			0.12		04/30/09	
<u>Arsenic</u>								0.,00,00	
Date Digested	3050		5/5/2009						
Date Analyzed	6010		5/6/2009	1				0F/06/00 14:16	05/05/09 08:00
Arsenic	6010	mg/kg	0.59 I	1	0.25	1	7440-38-2	05/06/09 14:16 05/06/09 14:16	05/05/09 08:00



SunLabs Project Number

090429.02

PBS&J

Project Description

Sarasota Landfill

May 19, 2009

SunLabs Sample Number Sample Designation

83727 SB-P4-11-2

Matrix

Soil

S

Date Collected Date Received

4/28/2009 14:15 4/29/2008 09:08

Parameters	Method	Units							
	riegiou	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time
Percent Moisture								Allaryzea	Prep
% Moisture	160.3M	%	11			0.11			
Arsenic						0.11		04/30/09	
Date Digested	3050		5/5/2009						
Date Analyzed	6010								05/05/09 08:00
Arsenic	6010	mg/kg	5/6/2009 0.22 U	1	0.22			05/06/09 14:18	
			0.22 0		0.22	0.9	7440-38-2	05/06/09 14:18	05/05/09 08:00



SunLabs Project Number

090429.02

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Project Description

Sarasota Landfill

May 19, 2009

SunLabs Sample Number Sample Designation

83728 SB-P4-11-4

Matrix

Date Collected

4/28/2009 14:20

Date Received

Parameters	Method	Units	Results	Dil Facto	MDI	L RL	CAS Number	Date/Time Analyzed	Date/Time Prep
<u>Percent Moisture</u> % Moisture	160.3M	%	16			0.12		04/30/09	
<mark>Arsenic</mark> Date Digested Date Analyzed	3050 6010		5/5/2009						05/05/09 08:00
Arsenic	6010	mg/kg	5/6/2009 0.41 I	1	0.24	0.95	7440-38-2	05/06/09 14:20 05/06/09 14:20	05/05/09 08:00



SunLabs Project Number

090429.02

PBS&J

Project Description

Sarasota Landfill

May 19, 2009

SunLabs Sample Number Sample Designation

83729 SB-P4-11-6

Matrix

Soil

Date Collected

4/28/2009 14:25

Date Received

Parameters	Method	Units	Inits Results		MDL r	. RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Percent Moisture								-	
% Moisture	160.3M	%	16			0.12		04/30/09	
<b>RCRA Metals by EPA Method 60</b>	10					***************************************	***************************************		
Date Digested	3050		5/1/2009						
Date Analyzed	6010		5/5/2009	1		***************************************		05.05.05	05/01/09 08:50
Arsenic	6010	mg/kg	0.77 I	1	0.24	0.95	7440 20 2	05/05/09 17:35	
Chromium	6010	mg/kg	14	1	0.24		7440-38-2	05/04/09 19:28	05/01/09 08:50
Copper	6010	mg/kg	0.071 U	1		0.95	7440-47-3	05/04/09 19:28	05/01/09 08:50
Iron	6010	mg/kg	2300	1	0.071	0.29	7440-50-8	05/04/09 19:28	05/01/09 08:50
Lead	6010	mg/kg		20	2.4	9.6	7439-89-6	05/05/09 17:35	05/01/09 08:50
		mg/kg	2.3	1	0.24	0.95	7439-92-1	05/04/09 19:28	05/01/09 08:50
Synthetic Precipitation Leaching	<u>Procedure</u>								
SPLP - Date Leached	1312		04/30/09	1				04/30/09 08:00	04/30/09
Total Nitrogen in Solids						***************************************			
Date Analyzed			5/14/09 S10	1				0F/14/00 12:04	
Total Nitrogen	351.2/353.2	mg/kg	1500	<del></del>	4.8	14		05/14/09 13:04 05/14/09 13:04	



SunLabs Project Number

090429.02

PBS&J

Project Description

Sarasota Landfill

May 19, 2009

SunLabs Sample Number Sample Designation

83730

SPLP Leachate/83729 (SB-P4-11-6)

Matrix

SPLP Leachate

Date Collected

Date Received

Parameters	Method	Units	Results	Dil	MDL	RL	CAS	D-4- /=		
				Factor		N.	Number	Date/Time Analyzed	Date/Time Prep	
Anions by Ion Chromatography										
Date Analyzed			05/01/2009	1				05/04/00 00 44		
Nitrate as N	300.0	mg/L	2.1 V	1	0.014	0.056	14797-55-8	05/01/09 08:11 05/01/09 08:11	04/30/09 19:30 04/30/09 19:30	
<u>Ammonia</u>								00,02,05 00.11	0-1/30/09 19:30	
Nitrogen Ammonia (as N)	350.2	mg/L	0.126	1	0.002	0.008		05/11/09 15:29		
Arsenic by ICP										
Date Digested	3010		5/1/2009							
Date Analyzed Arsenic	6010		5/4/2009	1				05/04/09 16:09	05/01/09 09:00	
useriic	6010	mg/L	0.0048 U	1	0.0048	0.019	7440-38-2	05/04/09 16:09	05/01/09 09:00	



SunLabs Project Number

090429.02

PBS&J

Project Description

Sarasota Landfill

May 19, 2009

SunLabs Sample Number Sample Designation

83731 SB-P4-12-2

Matrix

Soil

Date Collected Date Received 4/28/2009 14:35

		***************************************					,2000 05.00	300 03.00		
Parameters	Method	Units	Results	Dil Fact		L RL	CAS Number	Date/Time Analyzed	Date/Time Prep	
Percent Moisture						-			ф	
% Moisture	160.3M	%	20			0.12		04/30/09		
<u>Arsenic</u>			731		***************************************		***************************************	0 17 30 70 3		
Date Digested	3050		5/5/2009							
Date Analyzed	6010		5/6/2009	4					05/05/09 08:00	
Arsenic	6010	mg/kg		1				05/06/09 14:23		
	0010	mg/kg	0.25 U	1	0.25	1	7440-38-2	05/06/09 14:23	05/05/09 08:00	



SunLabs **Project Number** 

090429.02

PBS&J

Project Description

Sarasota Landfill

May 19, 2009

SunLabs Sample Number Sample Designation

83732

SB-P4-12-4

Matrix

Soil

Date Collected

4/28/2009 14:40

Date Received

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Percent Moisture									
% Moisture	160.3M	%	20			0.12		04/30/09	
<u>Arsenic</u>									
Date Digested	3050		5/5/2009						0E/0E/00 00:00
Date Analyzed	6010		5/6/2009	1				05/06/09 14:25	05/05/09 08:00
Arsenic	6010	mg/kg	0.66 I	1	0.25	1	7440-38-2	05/06/09 14:25	05/05/09 08:00



SunLabs Project Number

090429.02

PBS&J

Project Description

Sarasota Landfill

May 19, 2009

SunLabs Sample Number Sample Designation

83733

SB-P4-12-6

Matrix

Soil

Date Collected Date Received 4/28/2009 14:45

.

Parameters	Method	Units	Results	Dil Facto	MDI r	. RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Percent Moisture							-		
% Moisture	160.3M	. %	15			0.12		04/30/09	
<b>RCRA Metals by EPA Method 601</b>	10				.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
Date Digested	3050		5/1/2009						
Date Analyzed	6010		5/5/2009	1				***************************************	05/01/09 08:50
Arsenic	6010	mg/kg	0,24 U	1	0.34			05/05/09 17:38	
Chromium	6010	mg/kg			0.24	0.94	7440-38-2	05/04/09 19:32	05/01/09 08:50
Copper	6010	J. J	17	1	0.24	0.94	7 <del>44</del> 0-47-3	05/04/09 19:32	05/01/09 08:50
Iron	6010	mg/kg	0.071 U	1	0.071	0.28	7440-50-8	05/04/09 19:32	05/01/09 08:50
Lead		mg/kg	2800	20	2.4	9.4	7439-89-6	05/05/09 17:38	05/01/09 08:50
	6010	mg/kg	2.5	1	0.24	0.94	7439-92-1	05/04/09 19:32	05/01/09 08:50
Synthetic Precipitation Leaching	Procedure								
SPLP - Date Leached	1312		04/30/09	1				04/30/09 08:00	04/30/09
Total Nitrogen in Solids					***************************************	***************************************	***************************************		- 700,03
Date Analyzed			5/14/09 S10	1				05/14/09 13:04	
Total Nitrogen	351.2/353.2	mg/kg	760	1	4.7	14		05/14/09 13:04	



SunLabs **Project Number** 

090429.02

PBS&J

Project Description

Sarasota Landfill

May 19, 2009

SunLabs Sample Number Sample Designation

83734

SPLP Leachate/83733 (SB-P4-12-6)

Matrix

SPLP Leachate

Date Collected Date Received

							•	,	
Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Anions by Ion Chromatography									ер
Date Analyzed									
Nitrate as N	300.0		05/01/2009	1	***************************************			05/01/09 08;38	04/30/09 19:30
	300.0	mg/L	2.1 V	1	0.014	0.056	14797-55-8	05/01/09 08:38	
<u>Ammonia</u>									1,11,00 15.50
Nitrogen Ammonia (as N)	350.2	mg/L	0.228	1	0.002	0.008		05/11/09 15:29	
Arsenic by ICP								03/11/03 13.23	
Date Digested	2010								
Date Analyzed	3010		5/1/2009						05/01/09 09:00
Arsenic	6010		5/5/2009	1				05/05/09 18:25	03,02,03 03.00
	6010	mg/L	0.010 I	1	0.0048	0.019	7440-38-2	05/05/09 18:25	05/01/09 09:00
								,,-5 10.25	02/01/03 03:00



SunLabs Project Number

090429.02

PBS&J

Project Description

Sarasota Landfill

May 19, 2009

SunLabs Sample Number Sample Designation

83735 SB-DUP D

Matrix

Soil

Date Collected

4/28/2009 14:45

Date Received

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Percent Moisture									
% Moisture	160.3M	%	16			0.12		04/30/09	
Arsenic								***************************************	
Date Digested	3050		5/5/2009						05/05/00 00 00
Date Analyzed	6010		5/6/2009	1				05/06/09 14:27	05/05/09 08:00
Arsenic	6010	mg/kg	0.41 I	1	0.24	0.95	7440-38-2	05/06/09 14:27	05/05/09 08:00



SunLabs Project Number

090429.02

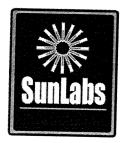
PBS&J

Project Description

Sarasota Landfill

May 19, 2009

#### Footnotes SunLabs is not currently NELAC certified for this analyte. The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit. LCS Laboratory Control Sample LCSD Laboratory Control Sample Duplicate MB Method Blank M5 Matrix Spike MSD Matrix Spike Duplicate NA Sample not analyzed at client's request. RL RL(reporting limit) = PQL(practical quantitation limit). RPD Relative Percent Difference *S10* This analysis performed by Sanders Laboratories, Inc., Certification # E85457. *S17* Analysis performed by Florida-Spectrum Environmental services. NELAC #E86006. U Compound was analyzed for but not detected. Indicates that the analyte was detected in both the sample and the associated method blank.



#### **Quality Control Data**

**Project Number** 

PBS&J

090429.02

Project Description

Sarasota Landfill

May 19, 2009

Batch No: Test:	L.MIIX (															ay 19, 2
lest:	C9083										ed Sampl					
TestCode:	Anions by 300.0	lon Chromatog	raphy						8	33685, 83 33730, 83	3689, 836 3734	94, 8369	9, 83702	, 83705, 8	3709, 837	<b>714, 83717, 83</b>
Compound		Blank	LCS Spike	LCS %Red		RPD %	QC RPD	Limits	MS Spike	MS %Rec	MSD	RPD		C Limits		
Parent Sample Number							RED	LUS	Spike			<u>%</u>	RPD	MS	S RP	,
Nitrate as N		2.2 V	5.00	99	100	1	10	80-122	5.00	83685 101	83685 99	2	11	42-15	2	
Batch No:	C9084													42-13/	4	
Test:											d Sample			***************************************		
		tals by EPA Me	thod 6010	)					8: 8:	3684, 83 3733	688, 836	93, 83698	8, 83701,	83704, 83	713, 837	16, 83718, 837
TestCode:	6010-S	1	-													
Compound		Blank	LCS	LCS	LCSD	RPD		Limits	MS	MS	MSD	RPD	QC	Limits	Dup	Qualifier
Parent Sample Number			Spike	%Rec	%Rec	%	RPD	LCS	Spike	%Rec	%Rec	%	RPD	MS		
Arsenic	-	0.2 U	1000	87	88	1	7	74 405	4000	83684	83684					
Chromium		0.2 U	1000	94	94	0	7	71-105 78-106	1000	88	86	2	12	59-120		
Copper		0.06 U	1000	88	90	2	7	78-104	1000	79 81	80	1	15	60-122		
ron		0.1 U	1000	100	101	1	6	80-112	1000	0	80 0	NA	47 0	49-134		
ead		0.2 U	1000	89	87	2	9	64-109	1000	79	77	3	40	0-219 54-118		
Batch No:	C9085												-10	34-110		
											Samples		1341 134 - 400 - 40 1 <b>1 1 1 1 1 1</b>			
est:	Arsenic by	ICP							83	685, 836	89, 8369	4, 83699,	83702, 8	33705, 837	09, 8371	4, 83717, 837
estCode:	Arsenic-w								83	730, 837	34					
ompound		Blank	LCS	LCS	LCSD	RPD	QC I	imits	MS	MS	MSD	000			7_	T
			Spike	%Rec	%Rec	%	RPD	LCS	Spike		%Rec	RPD %	RPD	Limits MS	Dup RPD	Qualifiers
arent Sample Number ate Digested										83685						-
ate Analyzed		5/1/2009 U														
rsenic		5/4/2009 U 0.0048 U														
	····	0.0048 0							1000	95				80-112		
											***************************************					
Batch No:	C9099						***************************************		A 0.0		0				<u></u>	
Batch No: est:		is by EDA Math	od 6010							ociated S	Samples					
est:	RCRA Meta	is by EPA Meth	od 6010						Ass ` 837		Samples	F				
est: estCode:			od 6010								Samples					
est: estCode:	RCRA Meta	ls by EPA Meth	LCS		LCSD	RPD	QC Li	mits		08	Samples MSD	RPD	QC L		Dup	Qualifiare
est: estCode: ompound	RCRA Meta				LCSD %Rec	RPD %	QC Li RPD	mits LCS	* 837 MS	08 MS		RPD %	QC L		Dup RPD	Qualifiers
est: estCode: ompound rent Sample Number	RCRA Meta	Blank	LCS Spike	%Rec	%Rec	%	RPD		MS Spike	MS %Rec '	MSD			.imits		Qualifiers
est: estCode: ompound rent Sample Number senic	RCRA Meta	Blank	LCS Spike	%Rec 96	<b>%Rec</b> 89	% 8*	<b>RPD</b> 7	<b>LCS</b> 71-105	MS Spike	MS %Rec '	MSD %Rec			.imits		Qualifiers
est: estCode: ompound rent Sample Number senic urium	RCRA Meta	<b>Blank</b> 0.2 U 0.05 U	LCS Spike	%Rec 96 99	%Rec 89 94	% 8 * 5	7 8	71-105 66-113	MS Spike 1000 1000	MS %Rec '83708 8	MSD %Rec 83708	%	RPD	.imits MS		Qualifiers
est: estCode: empound  rent Sample Number senic urium dmium	RCRA Meta	0.2 U 0.05 U 0.03 U	LCS Spike 1000 1000 1000	%Rec 96 99 92	%Rec 89 94 90	% 8 * 5 2	7 8 6	71-105 66-113 74-104	MS Spike 1 1000 1000 1000	MS %Rec 9 83708 8 91 97 88	MSD %Rec 33708 88 94 87	3 3 1	RPD 12	.imits MS 59-120		Qualifiers
est: estCode: empound  rent Sample Number senic urium dmium romium	RCRA Meta	0.2 U 0.05 U 0.03 U 0.2 U	1000 1000 1000 1000 1000	96 99 92 102	%Rec 89 94 90 98	8 * 5 2 4	7 8 6 7	71-105 66-113 74-104 78-106	MS Spike 1000 1000 1000 1000	MS %Rec 9 83708 8 91 97 88 99	MSD %Rec 83708 88 94 87 97	<b>%</b> 3 3	12 104	.imits MS 59-120 33-148		Qualifiers
est: estCode: compound  rent Sample Number senic curium dimium uromium pper	RCRA Meta	0.2 U 0.05 U 0.03 U 0.2 U 0.06 U	1000 1000 1000 1000 1000 1000	96 99 92 102 97	89 94 90 98 95	% 8* 5 2 4 2	7 8 6 7 7	71-105 66-113 74-104 78-106 78-104	MS Spike 1000 1000 1000 1000 1000	MS %Rec (83708 & 91 97 88 99 92	MSD %Rec 83708 88 94 87 97	3 3 1 2	12 104 6 15 47	59-120 33-148 69-111 60-122 49-134		Qualifiers
	RCRA Meta	0.2 U 0.05 U 0.03 U 0.2 U 0.06 U	1000 1000 1000 1000 1000 1000 1000	96 99 92 102 97 103	%Rec 89 94 90 98 95 103	8* 5 2 4 2	7 8 6 7 7 6	71-105 66-113 74-104 78-106 78-104 80-112	MS Spike 1000 1000 1000 1000 1000 1000 1000 10	MS %Rec 83708 8 91 97 88 99 92 213	MSD %Rec 83708 88 94 87 97 92	3 3 1 2 0	12 104 6 15 47	59-120 33-148 69-111 60-122 49-134 0-219		Qualifiers
est: estCode: ompound  rent Sample Number senic ririum idmium romium pper n ad denium	RCRA Meta	0.2 U 0.05 U 0.03 U 0.2 U 0.06 U	1000 1000 1000 1000 1000 1000 1000 100	96 99 92 102 97 103 93	89 94 90 98 95 103 93	8* 5 2 4 2 0	7 8 6 7 7 6 9	71-105 66-113 74-104 78-106 78-104 80-112 64-109	MS Spike 1000 1000 1000 1000 1000 1000 1000 10	MS %Rec 6 83708 8 91 97 88 99 92 2213 85	MSD %Rec 83708 88 94 87 97 92 57 84	3 3 1 2 0 116*	12 104 6 15 47 0 40	59-120 33-148 69-111 60-122 49-134 0-219 54-118		Qualifiers
est: estCode: ompound  rent Sample Number senic ririum idmium romium pper n ad denium	RCRA Meta	0.2 U 0.05 U 0.03 U 0.2 U 0.06 U 0.11 I 0.2 U	1000 1000 1000 1000 1000 1000 1000	96 99 92 102 97 103	%Rec 89 94 90 98 95 103	8* 5 2 4 2	7 8 6 7 7 6 9 8	71-105 66-113 74-104 78-106 78-104 80-112 64-109 76-101	MS Spike 1000 1000 1000 1000 1000 1000 1000 10	MS %Rec 83708 8 91 97 88 99 92 213 85 93	MSD %Rec 83708 88 94 87 97 92 57 84	3 3 1 2 0 116* 1	12 104 6 15 47 0 40 8	59-120 33-148 69-111 60-122 49-134 0-219 54-118 66-111		Qualifiers
est: estCode: compound  rent Sample Number senic urium idmium iromium ipper n ad denium	RCRA Meta 6010-S	0.2 U 0.05 U 0.03 U 0.2 U 0.06 U 0.11 I 0.2 U 0.2 U	1000 1000 1000 1000 1000 1000 1000 100	96 99 92 102 97 103 93 97	89 94 90 98 95 103 93 94	8* 5 2 4 2 0 0 3	7 8 6 7 7 6 9 8	71-105 66-113 74-104 78-106 78-104 80-112 64-109	MS Spike 1000 1000 1000 1000 1000 1000 1000 10	MS %Rec 83708 8 91 97 88 99 92 213 85 93	MSD %Rec 83708 88 94 87 97 92 57 84	3 3 1 2 0 116*	12 104 6 15 47 0 40 8	59-120 33-148 69-111 60-122 49-134 0-219 54-118		Qualifiers
rest: astCode: compound  rent Sample Number senic senic urrium idmium irromium ppper n ad lenium ver  atch No:	RCRA Meta 6010-S	0.2 U 0.05 U 0.03 U 0.2 U 0.06 U 0.11 I 0.2 U 0.2 U	1000 1000 1000 1000 1000 1000 1000 100	96 99 92 102 97 103 93 97	89 94 90 98 95 103 93 94	8* 5 2 4 2 0 0 3	7 8 6 7 7 6 9 8	71-105 66-113 74-104 78-106 78-104 80-112 64-109 76-101	MS Spike 1000 1000 1000 1000 1000 1000 1000 10	MS %Rec 91 97 88 99 92 213 85 93 90 ciated Sate	MSD %Rec 83708 88 94 87 97 92 57 84 94 89	3 3 1 2 0 1116* 1	12 104 6 15 47 0 40 8 7	59-120 33-148 69-111 60-122 49-134 0-219 54-118 66-111 62-113	RPD	
est: estCode: compound  rent Sample Number senic urium idmium iromium ipper n ad denium	RCRA Meta 6010-S	0.2 U 0.05 U 0.03 U 0.2 U 0.06 U 0.11 I 0.2 U 0.2 U	1000 1000 1000 1000 1000 1000 1000 100	96 99 92 102 97 103 93 97	89 94 90 98 95 103 93 94	8* 5 2 4 2 0 0 3	7 8 6 7 7 6 9 8	71-105 66-113 74-104 78-106 78-104 80-112 64-109 76-101	MS Spike 1000 1000 1000 1000 1000 1000 1000 10	MS %Rec 6 83708 8 91 97 88 99 92 213 85 93 90 ciated Sa 6, 83687	MSD %Rec 83708 88 94 87 97 92 57 84 94 89 amples , 83690	% 3 3 1 2 0 116* 1 1 1 33691.83	12 104 6 15 47 0 40 8 7	59-120 33-148 69-111 60-122 49-134 0-219 54-118 66-111 62-113	RPD 83897	
rest: astCode: compound  rent Sample Number senic senic urrium idmium irromium ppper n ad lenium ver  atch No:	RCRA Meta 6010-S	0.2 U 0.05 U 0.03 U 0.2 U 0.06 U 0.11 I 0.2 U 0.2 U	1000 1000 1000 1000 1000 1000 1000 100	96 99 92 102 97 103 93 97	89 94 90 98 95 103 93 94	8* 5 2 4 2 0 0 3	7 8 6 7 7 6 9 8	71-105 66-113 74-104 78-106 78-104 80-112 64-109 76-101	MS Spike 1000 1000 1000 1000 1000 1000 1000 10	MS %Rec 6 83708 8 91 97 88 99 92 213 85 93 90 ciated Sa 6, 83687	MSD %Rec 83708 88 94 87 97 92 57 84 94 89 amples , 83690	% 3 3 1 2 0 116* 1 1 1 33691.83	12 104 6 15 47 0 40 8 7	59-120 33-148 69-111 60-122 49-134 0-219 54-118 66-111 62-113	RPD 83897	
est: estCode: compound  rent Sample Number senic crium idmium romium pper n ad denium er atch No: est: tCode:	RCRA Meta 6010-S C9105 Arsenic	0.2 U 0.05 U 0.03 U 0.2 U 0.06 U 0.11 I 0.2 U 0.2 U	1000 1000 1000 1000 1000 1000 1000 100	%Rec  96 99 92 102 97 103 93 97 93	89 94 90 98 95 103 93 94 93	8 * 5 2 4 2 0 0 0 3 0 0	7 8 6 7 7 6 9 8 6	71-105 66-113 74-104 78-106 78-104 80-112 64-109 76-101 72-108	MS Spike 1000 1000 1000 1000 1000 1000 1000 10	MS %Rec 91 97 88 99 92 213 85 93 90 ciated \$26, 83687 6, 83707	MSD %Rec 83708 88 94 87 97 92 57 84 94 89 amples , 83690, i, 83710, i	3 3 1 2 0 116* 1 1 1 1 33691, 83	12 104 6 15 47 0 40 8 7	imits	, 83697, 1	
est: estCode: compound  rent Sample Number senic crium idmium romium pper n ad denium ver atch No: est: itCode: inpound	RCRA Meta 6010-S C9105 Arsenic	0.2 U 0.05 U 0.03 U 0.2 U 0.06 U 0.11 I 0.2 U 0.2 U	LCS Spike 1000 1000 1000 1000 1000 1000 1000 10	%Rec  96 99 92 102 97 103 93 97 93	89 94 90 98 95 103 93 94 93	8* 5 2 4 2 0 0 0 3 0 0 PPD	7 8 6 7 7 6 9 8 6 6	71-105 66-113 74-104 78-106 78-104 80-112 64-109 76-101 72-108	MS Spike 1000 1000 1000 1000 1000 1000 Asso 8368 8370	MS 83708 8 91 97 88 99 92 213 85 93 90 ciated \$5,6,836707	MSD %Rec 83708 88 94 87 97 92 57 84 94 89 amples , 83690, i, 83710, i	3 3 1 2 0 116 * 1 1 1 1 1 833691, 83	12 104 6 15 47 0 40 8 7	.imits MS 59-120 33-148 69-111 60-122 49-134 0-219 54-118 66-111 62-113	RPD , 83697, 8	Qualifiers  33700, 83703,  Qualifiers
rest: estCode: compound  rent Sample Number senic arium admium romium pper n ad denium ver atch No: est:	RCRA Meta 6010-S C9105 Arsenic	0.2 U 0.05 U 0.03 U 0.2 U 0.06 U 0.11 I 0.2 U 0.2 U	LCS Spike 1000 1000 1000 1000 1000 1000 1000 10	%Rec  96 99 92 102 97 103 93 97 93	89 94 90 98 95 103 93 94 93	8* 5 2 4 2 0 0 0 3 0 0 PPD	7 8 6 7 7 6 9 8 6 6	71-105 66-113 74-104 78-106 78-104 80-112 64-109 76-101 72-108	MS Spike 1000 1000 1000 1000 1000 1000 1000 10	MS 83708 6 91 97 98 88 99 92 213 85 93 90 ciciated \$6, 6, 83607 74 MS M	MSD %Rec 83708 88 94 97 92 57 84 94 89 amples , 83690, i , 83710, i	3 3 1 2 0 116 * 1 1 1 1 1 833691, 83	12 104 6 15 47 0 40 8 7	imits	, 83697, 1	33700, 83703,

SunLabs, Inc.

5460 Beaumont Center Blvd., Suite 520

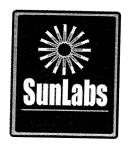
Tampa, FL 33634

Laboratory ID Number - E84809

Page QC-1 of 2

Phone: (813) 881-9401 Email: Info@SunLabsInc.com

Website: www.SunLabsInc.com



#### **Quality Control Data**

Project Number

PBS&J

090429.02

**Project Description** 

Sarasota Landfill

May 19, 2009

Batch No: C9105

Test:

Arsenic

Associated Samples

83686, 83687, 83690, 83691, 83692, 83695, 83696, 83697, 83700, 83703,

83706, 83707, 83710, 83711, 83712, 83715, 83720 TestCode: Compound Blank LCS LCS LCSD RPD ---QC Limits---MS MSD RPD ---QC Limits---Qualifiers %Rec LCS %Rec %Rec RPD MS Parent Sample Number 83683 83683 Arsenic 0.2 U 1000 83 71-105 1000 80 84 59-120 12

Batch No: C9106

Test:

RCRA Metals by EPA Method 6010

Associated Samples

83721, 83722, 83723, 83724, 83725, 83726, 83727, 83728, 83731, 83732,

							8:	3735		,	,, .	,0,20,001	1,00720	, 03/31, 03/32,
Blank	LCS Spike	LCS %Rec	LCSD %Rec	RPD %	QC RPD	Limits LCS	MS Spike	MS %Rec	MSD %Rec	RPD %	QC RPD	Limits MS	Dup RPD	Qualifiers
								83721	83721					
0.2 U	1000	84	84	0	7	71 105	4000							
0.03.11	1000							- 79	81	2	12	59-120		
			83	1	6	74-104	1000	81	82	1	6	69-111		
0.2 0	1000	91	89	2	7	78-106	1000	86	07	4				
0.2 U	1000	83	95	•	^		***************************************			1	15	60-122		
0111					9	64-109	1000		82	6	40	54-118		
	1000	87	86	1	5	75-111	1000	82	86	5	1/		*****************	
0.35	1000	84	85	1	8	72-109				1				
	0.2 U 0.03 U 0.2 U	Blank   LCS   Spike	Blank         LCS Spike         LCS %Rec           0.2 U         1000         84           0.03 U         1000         82           0.2 U         1000         91           0.2 U         1000         83           0.1 U         1000         87	Spike         %Rec         %Rec         %Rec           0.2 U         1000         84         84           0.03 U         1000         82         83           0.2 U         1000         91         89           0.2 U         1000         83         85           0.1 U         1000         87         86	Blank         LCS Spike         LCS WRec         LCS WRec         RPD %           0.2 U         1000         84         84         0           0.03 U         1000         82         83         1           0.2 U         1000         91         89         2           0.2 U         1000         83         85         2           0.1 U         1000         87         86         1	Blank         LCS Spike         LCS WRec         LCS WRec         RPD WREC        QC RPD           0.2 U         1000         84         84         0         7           0.03 U         1000         82         83         1         6           0.2 U         1000         91         89         2         7           0.2 U         1000         83         85         2         9           0.1 U         1000         87         86         1         5	Blank   LCS   Spike   KRec   KRec   KRec   KRPD  QC Limits   LCS	Blank	Blank   LCS   Spike   KRec   KRec   KRec   KRPD  QC Limits   MS   MS   KRec   KRec   KRec   KRPD   LCS   Spike   KRec   KRec   KRPD   LCS   Spike   KRec   KRec   KRPD   LCS   Spike   KRec   KRec   KRPD   LCS   Spike   KRec   KRec   KRPD   LCS   Spike   KRec   KRec   KRPD   LCS   Spike   KRec   KRec   KRPD   LCS   Spike   KRec   KRec   KRec   KRPD   LCS   Spike   KRec   KRec   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   KREC   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<sup>\*</sup> indicates value is outside control limits for %Recovery or greater than acceptance criteria for RPD

Footnotes

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Compound was analyzed for but not detected.

Website: www.SunLabsInc.com

Page QC-2 of 2

#### SunLabs, Inc. Chain of Custody

Client Name: BS&T	SunLabs Project	" (X	300	ລ໑	02				~	
Contact: Braz Boune	D	# <u> </u>	107	X 1	·			_ Project Na	me: <b>Say</b> /	esota Landa
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SunLabs, Inc. Chain of Custody PBS NJ Client Name: SunLabs Project # Project Name: Saras of CANDRIL **Bottle Type** Address: 5300 W. Cypress, #200 Project #: 100007910 Preservative PO #: Matrix 50 50 50 50 50 50 50 Phone / Fax: 813 - 282-7275 Alt Bill To: Analysis / Method Requested SunLabs Due Date Requested: Sample Description Sample Sample # of Standard Sample # Date Time **Bottles** FDEP PreApproval site 1105 Current rates Old rates 370C Cash rates Remarks / Comments: V 1300 **८०** । १८ । १९ <u>06168</u> 83791 Sampter Signature / Date: Printed Name / Affiliation: 4/28/09 SUNLABS, INC. RESERVES THE RIGHT TO BILL FOR UNUSED! Brad Bayne UNRETURNED SAMPLES AND TO RETURN UNUSED SAMPLES: PBStJ Relinquished By: Bottle Type Codes Relinquished To: Preservative Codes: GV = Glass Vial GVS = Low Level Volatile Kit H = Hydrochloric Acid + Ice S = Sulfuric Acid + Ice 4/23/04 GA = Glass Amber T = Tedlar Bag I = Ice only VS = MeOH, OFW, + Ice P = Plastic Relinquished By: O = Other Time: N = Nitric Acid + Ice O = Other (Specify) S = Soil Jar Matrix Codes: SO = Soil Internal Use Only Kelinquished By: A = Air Relinquished To: SOL = Solid Sample Condition Upon Receipt Date: Time: DW = Drinking Water SW = Surface Water Custody Seals present? GW = Ground Water W = Water (Blanks) Shipping Bills attached? Relinquished By: SE = Sediment O = Other (Specify) Relinquished To: Sample containers intact? Date: Time: Samples within holding times? Sufficient volume for all analyses SunLabs, Inc. Are yials head-space free? Received on Ice?/Y 5460 Beaumont Center Blvd., Suite 520, Tampa, Florida 33634 Proper containers and preservatives? Phone: 813-881-9401 / Fax: 813-354-4661 e-mail: info@SunLabsInc.com www.SunLabsInc.com

SunLabs, Inc. Chain of Custody

Client Name:	PBSLI		Cuml ab	- D1		0	90	od:	วัด	U	2		•	4		
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#### **APPENDIX H:**

# LABORATORY ANALYTICAL REPORT FOR JULY 2008 GROUNDWATER SPECIATION SAMPLING

953 Industry Orive Tukwila, WA 98188 Tel: (206) 219-3779 Fax: (206) 388-3485 www.appliedspeciation.com

August 15, 2008

George Thomas 5300 West Cypress Street, Suite 200 Tampa, FL 33607-1784 (813) 282-7275

Re: CEP Implementation

Dear Mr. Thomas,

Attached is the report associated with fourteen (14) aqueous samples submitted for arsenic speciation analysis on July 31, 2008. All samples were received on August 1, 2008 in a sealed container at 1.0°C. Arsenic speciation analysis was performed by ion chromatography inductively coupled plasma dynamic reaction cell mass spectrometry (IC-ICP-DRC-MS). Any issues associated with the analysis are addressed in the following report.

If you have any questions, please feel free to contact me at your convenience.

Sincerely,

Ben Wozniak Project Manager

Applied Speciation and Consulting, LLC

Ben Wozniek

#### Applied Speciation and Consulting, LLC

Report Prepared for:

George Thomas 5300 West Cypress Street, Suite 200 Tampa, FL 33607-1784

Project: CEP Implementation

August 15, 2008

#### 1. Sample Reception

Fourteen (14) aqueous samples were submitted for arsenic speciation analysis on July 31, 2008. All samples were received in acceptable condition on August 1, 2008 in a sealed container at 1.0°C.

The samples were received in a laminar flow clean hood void of trace metals contamination and ultra-violet radiation. Immediately upon reception an aliquot of each sample was filtered using 0.45 µm syringe filters. All filtrates were then immediately analyzed by ion chromatography inductively coupled plasma dynamic reaction cell mass spectrometry (IC-ICP-DRC-MS).

#### 2. Sample Preparation

All sample preparation is performed in laminar flow clean hoods known to be free from trace metals contamination. All applied water for dilutions and sample preservatives are also monitored for contamination to account for any biases associated with the sample results.

Arsenic Speciation Analysis by IC-ICP-DRC-MS Prior to analysis, all aqueous samples were filtered with a syringe filter  $(0.45\mu\text{m})$  and injected directly into sealed autosampler vials. No further sample preparation was performed as the samples were field-preserved with an acetate-buffered EDTA solution.

#### 3. Sample Analysis

All samples analysis is precluded by a minimum of a five-point calibration curve spanning the entire concentration range of interest. Calibration curves are performed at the beginning of each analytical day. All calibration curves, associated with each species of interest, are standardized by linear regression resulting in a response factor. All sample results are **instrument blank corrected** to account for any operational biases.

Prior to sample analysis, all calibration curves are verified using second source standards which are identified as initial calibration verification standards (ICV).

Ongoing instrument performance is identified by the analysis of continuing calibration verification standards (CCV) and continuing calibration blanks (CCB) at a minimal interval of every ten analytical runs.

Arsenic Speciation Analysis by IC-ICP-DRC-MS All samples for arsenic speciation analysis were analyzed by ion chromatography inductively coupled plasma dynamic reaction cell mass spectrometry (IC-ICP-DRC-MS) on August 1, 2008. Aliquots of each sample extract are injected onto an anion exchange column and mobilized by a basic (pH > 7) gradient. The eluting arsenic species are then introduced into a radio frequency (RF) plasma where energy-transfer processes cause desolvation, atomization, and ionization. The ions are extracted from the plasma through a differentially-pumped vacuum interface and travel through a pressurized chamber (DRC) containing a specific reactive gas which preferentially reacts with arsenic, producing an entirely different mass to charge ratio (m/z) which can then be differentiated from the initial isobaric interferences. A solid-state detector detects ions transmitted through the mass analyzer on the basis of their mass-to-charge ratio (m/z), and the resulting current is processed by a data handling system.

Retention times for each eluting species are compared to known standards for species identification.

#### 4. Analytical Issues

The overall analyses went very well and no significant analytical issues were encountered. All quality control parameters associated with these samples were within acceptance limits with the following exception:

The recovery of DMAs associated with the ICV was above the established control limit of 120% (120.5%). While this recovery is indicative that all results for this species may be biased high, only two samples (identified as GW-15 and GW-5) contained DMAs slightly above the detection limit. In each of these samples the quantity of DMAs detected was less than 2.5% of the total arsenic species present. Since the high recovery of DMAs does not significantly bias the overall speciation of these samples, the reported results are deemed to be representative of the submitted samples.

It should be noted that an additional arsenic species was detected in the samples identified as DGW-2 and GW-15. While its identity could not be determined at this time, the concentrations of this species never exceeded 4% of the total arsenic species detected in the aforementioned samples.

The estimated method detection limits (eMDLs) for arsenite and arsenate are generated from replicate analyses of the lowest standard in the calibration curve. Not

all arsenic species are present in preparation blanks; therefore, eMDL calculations based on preparation blanks are artificially biased low.

The eMDLs for MMAs and DMAs are calculated from the average eMDL of arsenite and arsenate. The calibration does not contain MMAs or DMAs due to impurities in these standards which would bias the results for other arsenic species.

If you have any questions or concerns regarding this report, please feel free to contact me at (206) 219-3779.

Sincerely,

Ben Wozniak

Project Manager

Ben Wognick

Applied Speciation and Consulting, LLC

#### Arsenic Speciation Results for PBS&J Project Name: CEP Implementation Contact: George Thomas

Date: August 15, 2008 Report Generated by: Ben Wozniak Applied Speciation and Consulting, LLC

#### Sample Results

Sample ID	As(III)	As(V)	DMAs	MMAs
DGW-2	5.34	0.74	ND (<0.23)	
DUP	15.3	3.54	ND (<0.23)	ND (<0.23)
GW-12	4.14	0.67		ND (<0.23)
GW-1	0.41		ND (<0.23)	ND (<0.23)
DGW-3	5.65	ND (<0.35)	ND (<0.23)	ND (<0.23)
GW-15		0.91	ND (<0.23)	ND (<0.23)
GW-8	183	12.5	0.25	ND (<0.23)
GW-3	5.67	0.89	ND (<0.23)	ND (<0.23)
	0.54	0.44	ND (<0.23)	ND (<0.23)
DGW-4	1.43	0.50	ND (<0.23)	
3W-5	9.63	1.58	0.27	ND (<0.23)
3W-7	18.3	3.29		ND (<0.23)
3W-6	2.57		ND (<0.23)	ND (<0.23)
GW-10	7.29	1.06	ND (<0.23)	ND (<0.23)
€W-4		0.91	ND (<0.23)	ND (<0.23)
All results reflect th	4.30	0.94	ND (<0.23)	ND (<0.23)

All results reflect the applied dilution and are reported in μg/L.

ND = Not detected at the applied dilution

As(III) = Arsenite

As(V) = Arsenate

DMAs = Dimethylarsenic

MMAs = Monomethylarsenic

Arsenic Speciation Results for PBS&J Project Name: CEP Implementation Contact: George Thomas

Date: August 15, 2008 Report Generated by: Ben Wozniak Applied Speciation and Consulting, LLC

#### Quality Control Summary - Preparation Blank Summary

Analyte (µg/L)	PBW1	DDWO					
As(III)	0.07	PBW2	PBW3	PBW4	Mean	StdDev	eMDL*
As(V)	0.43	0.09 0.44	0.04	0.13	0.08	0.04	0.11
DMAs	0.00	0.44	0.35	0.38	0.40	0.04	0.35
MMAs	0.00	0.00	0.00 0.00	0.00	0.00	0.00	0.23
MDL = Estimated N	Method Detection	Limit	0.00	0.00	0.00	0.00	0.23

#### Quality Control Summary - Certified Reference Materials

Analyta (vel)				
Analyte (μg/L)	CRM	True Value	Result	Recovery
As(III)	ICV	5.000	5.140	
As(V)	NIST 1640	26.67		102.8
DMAs	ICV		22.77	85.4
MMAs		3.780	4.557	120.5*
	ICV	5.475	6.529	119.3
* The recovery is a		3.473	6.529	11

<sup>\*</sup> The recovery is above the established control limit of 120%; please see narrative.

<sup>\*</sup>Please see narrative regarding eMDL calculations

Arsenic Speciation Results for PBS&J Project Name: CEP Implementation Contact: George Thomas

Date: August 15, 2008 Report Generated by: Ben Wozniak Applied Speciation and Consulting, LLC

#### **Quality Control Summary - Matrix Duplicates**

Analyte (µg/L)	Sample ID				
		Rep 1	Rep 2	Mean	RPD
As(III)	GW-4	4.30	4.33	4.31	
As(V)	GW-4	0.94			0.7
DMAs	GW-4		0.97	0.95	2.6
MMAs		ND (<0.23)	ND (<0.23)	NC	NC
	GW-4	ND (<0.23)	ND (<0.23)	NC	NC.
NC = Not calculate	d due to an		(	_ 110	INC.

NC = Not calculated due to one or more concentrations below the eMDL.

ND = Not detected at the applied dilution.

## Quality Control Summary - Matrix Spike/ Matrix Spike Duplicate

Analyte (μg/L)	Sample ID	Spike Conc	MS Result	Recovery	Spike Conc	MSD Result		
As(III) As(V)	GW-4 GW-4	50.00 50.00	53.00 52.00	97.4 102.1	50.00 50.00	57.09 54.76	105.6	8.1
						04.70	107.6	5.3

#### **APPENDIX I:**

LABORATORY ANALYTICAL REPORT FOR APRIL 2009 GROUNDWATER SPECIATION SAMPLING



May 14, 2009

PBS&J Brad Bayne 5300 West Cypress Street, Suite 200 Tampa, FL 33607 (813) 282-7275

Project Name: Sarasota Landfill Project Number: 100007910

Dear Mr. Bayne,

Attached is the report associated with thirteen (13) aqueous samples submitted for arsenic speciation analysis on April 24, 2009. All samples were received on April 27, 2009 in a sealed container at 6.4°C. Arsenic speciation analysis was performed by ion chromatography inductively coupled plasma dynamic reaction cell mass spectrometry (IC-ICP-DRC-MS). Any issues associated with the analysis are addressed in the following report.

If you have any questions, please feel free to contact me at your convenience.

Sincerely,

Project Manager

Applied Speciation and Consulting, LLC

#### Applied Speciation and Consulting, LLC

Report Prepared for:

PBS&J Brad Bayne 5300 West Cypress Street, Suite 200 Tampa, FL 33607

Project Name: Sarasota Landfill Project Number: 100007910

May 14, 2009

#### 1. Sample Reception

Thirteen (13) aqueous samples were submitted for arsenic speciation analysis on April 24, 2009. All samples were received in acceptable condition on April 27, 2009 in a sealed container at 6.4°C.

The samples were received in a laminar flow clean hood void of trace metals contamination and ultra-violet radiation. Upon reception each sample was designated a discrete sample identifier and then placed in a secure, monitored refrigerator (maintained at a temperature  $\leq 4^{\circ}$ C) until the analyses could be performed. Prior to analysis all samples were preserved with an acetate-buffered EDTA solution and then filtered using  $0.45\mu m$  syringe filters. All filtrates were then analyzed by ion chromatography inductively coupled plasma dynamic reaction cell mass spectrometry (IC-ICP-DRC-MS).

#### 2. Sample Preparation

All sample preparation is performed in laminar flow clean hoods known to be free from trace metals contamination. All applied water for dilutions and sample preservatives are also monitored for contamination to account for any biases associated with the sample results.

<u>Arsenic Speciation Analysis by IC-ICP-DRC-MS</u> Prior to analysis, all aqueous samples were preserved in the laboratory with an acetate-buffered EDTA solution. All samples were then filtered, approximately 24 hours after preservation, with a syringe filter (0.45μm) and injected directly into sealed autosampler vials.

#### 3. Sample Analysis

All samples analysis is precluded by a minimum of a five-point calibration curve spanning the entire concentration range of interest. Calibration curves are performed

at the beginning of each analytical day. All calibration curves, associated with each species of interest, are standardized by linear regression resulting in a response factor. All sample results are **instrument blank corrected** to account for any operational biases.

Prior to sample analysis, all calibration curves are verified using second source standards which are identified as initial calibration verification standards (ICV).

Ongoing instrument performance is identified by the analysis of continuing calibration verification standards (CCV) and continuing calibration blanks (CCB) at a minimal interval of every ten analytical runs.

Arsenic Speciation Analysis by IC-ICP-DRC-MS All samples for arsenic speciation analysis were analyzed by ion chromatography inductively coupled plasma dynamic reaction cell mass spectrometry (IC-ICP-DRC-MS) on May 12, 2009. Aliquots of each sample extract are injected onto an anion exchange column and mobilized by an acidic (pH < 7) gradient. The eluting arsenic species are then introduced into a radio frequency (RF) plasma where energy-transfer processes cause desolvation, atomization, and ionization. The ions are extracted from the plasma through a differentially-pumped vacuum interface and travel through a pressurized chamber (DRC) containing a specific reactive gas which preferentially reacts with arsenic, producing an entirely different mass to charge ratio (m/z) which can then be differentiated from the initial isobaric interferences. A solid-state detector detects ions transmitted through the mass analyzer on the basis of their mass-to-charge ratio (m/z), and the resulting current is processed by a data handling system.

Retention times for each eluting species are compared to known standards for species identification.

#### 4. Analytical Issues

The overall analyses went very well and no significant analytical issues were encountered. All quality control parameters associated with these samples were within acceptance limits.

It should be noted that all samples were initially analyzed prior to preservation with the acetate-buffered EDTA solution. Due to difficulties encountered during the analyses attributed to the sample matrices themselves, evidenced as a lack of mass balance for arsenic in the submitted samples, the original 125mL HDPE bottles were preserved with EDTA solution and reanalyzed on May 12<sup>th</sup>. A mass balance between the sum of species and the total dissolved arsenic concentrations was attained with the EDTA-preserved fractions, so these results have been provided in the attached report as representative of the submitted samples.

The estimated method detection limits (eMDLs) for arsenite and arsenate are generated from replicate analyses of the lowest standard in the calibration curve. Not

all arsenic species are present in preparation blanks; therefore, eMDL calculations based on preparation blanks may be artificially biased low.

The eMDLs for MMAs and DMAs are calculated from the average eMDL of arsenite and arsenate. The calibration does not contain MMAs or DMAs due to impurities in these standards which would bias the results for other arsenic species.

If you have any questions or concerns regarding this report, please feel free to contact me at (206) 219-3779.

Sincerely,

Ben Wozniak Project Manager

Applied Speciation and Consulting, LLC

## Arsenic Speciation Results for PBS&J Project Name: Sarasota Landfill Project Number: 100007910 Contact: Brad Bayne

Date: May 14, 2009 Report Generated by: Ben Wozniak Applied Speciation and Consulting, LLC

#### Sample Results

Sample ID	As(III)	As(V)	MMAs	DMA
GW-18	3.59			DMAs
GW-24		2.73	ND (<0.032)	ND (<0.032)
	4.33	1.40	ND (<0.032)	ND (<0.032)
GW-17	6.99	9.40	ND (<0.032)	ND (<0.032)
GW-11	1.37	0.401	ND (<0.032)	
GW-25	2.64	9.46		ND (<0.032)
GW-19	4.24	<del>-</del>	ND (<0.032)	ND (<0.032)
GW-20		0.561	ND (<0.032)	ND (<0.032)
GW-21	5.22	8.70	ND (<0.032)	ND (<0.032)
	4.72	1.44	ND (<0.032)	ND (<0.032)
GW-22	2.30	2.61	ND (<0.032)	
GW-15	106	40.2		ND (<0.032)
GW-10	2.19	1	ND (<0.032)	ND (<0.032)
GW-16		3.25	0.090	ND (<0.032)
GW-14	145	33.8	ND (<0.032)	ND (<0.032)
All results reflect th	27.1	9.61	ND (<0.032)	ND (<0.032)

All results reflect the applied dilution and are reported in µg/L.

ND = Not detected at the applied dilution

As(III) = Arsenite

As(V) = Arsenate

DMAs = Dimethylarsinic acid

MMAs = Monomethylarsonic acid

Arsenic Speciation Results for PBS&J Project Name: Sarasota Landfill Project Number: 100007910 Contact: Brad Bayne

Date: May 14, 2009

Report Generated by: Ben Wozniak Applied Speciation and Consulting, LLC

## Quality Control Summary - Preparation Blank Summary

Analyte (μg/L)	PBW1	PBW2					
As(III)		PDVV2	PBW3	PBW4	Mean	StdDev	eMDL*
` '	0.000	0.000	0.000	0.000	0.000		
As(V)	0.450	0.224	0.151			0.000	0.016
MMAs	0.000			0.160	0.246	0.139	0.047
DMAs		0.000	0.000	0.000	0.000	0.000	
	0.000	0.000	0.000	0.000	0.000		0.032
MDL = Estimated N	Method Detection	Limit		0.000	0.000	0.000	0.032

## Quality Control Summary - Certified Reference Materials

Analyte (μg/L)	CRM	True Value	Result	Recovery				
As(III)	ICV	5.000	5.275					
As(V)	ICV	5.000	5.006	105.5				
MMAs	ICV	5.235	5.144	100.1				
DMAs	ICV	5.245	5.434	98.3				
		5.2.70	0.434	103.6				

<sup>\*</sup>Please see narrative regarding eMDL calculations

Arsenic Speciation Results for PBS&J Project Name: Sarasota Landfill Project Number: 100007910 Contact: Brad Bayne

Date: May 14, 2009

Report Generated by: Ben Wozniak Applied Speciation and Consulting, LLC

#### **Quality Control Summary - Matrix Duplicates**

Analyte (µg/L)					
	Sample ID	Rep 1	Rep 2	Mean	000
As(III)	GW-14	27.07			RPD
As(V)	GW-14		26.73	26.90	1.3
MMAs	• •	9.609	9.414	9.511	2.0
· -	GW-14	ND (<0.032)	0.048		· · · <del>-</del>
DMAs	GW-14	ND (<0.032)		NC	NC
NC = Not calculated		ND (<0.032)	ND (<0.032)	NC	NC

NC = Not calculated due to one or more concentrations below the eMDL.

ND = Not detected at the applied dilution.

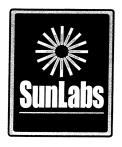
## Quality Control Summary - Matrix Spike/ Matrix Spike Duplicate

Analyte (µg/L)	Commut. ID		- Supricut	2				
As(III)	Sample ID	Spike Conc	MS Result	Recovery	Spike Conc	MSD Result	Recovery	-
As(V)	GW-14 GW-14	50.00 50.00	78.38 58.65	102.9	50.00	78.34	102.9	0.0
			00.00	98.3	50.00	58.99	99.0	0.6

APPLIED SPE AND CONSUL Company Name: PBS	TING, LLC						953 Industry Drive Tukwila, WA 98188	Phone (206) 219-3779 Fax (206) 388-3485
	Bayne				ASC Projec	t Manager:	Russ Gera	
Address: \$300 (Je  Phone Number: \$1  Fax Number:  Email Address: D;  Project Name: \$30  Project Number: \C  PO Number:  Sample ID	By submitting of samples the client agrees to all terms and conditions set forth in the quotation provided by the ASC project manager. If you are no familiar with the term and conditions associated with your project, please contact your ASC representative as soon as possible (206) 219-3779.  Requested Turn Around Time:  Method of Sample Delivery:  Currier Tracking Number:  Confirmation of Sample Reception:  Yes No							
	Bottle ID Da	ate and Time Matrix*	Volume	Preservative	Initials	Requests JA	•	
- 6W-24 - 6W-17 - 6W-25 8 - 6W-19 - 6W-20 - 6W-21 - 6W-22 - 6W-15 - 6W-16 - 6W-14	ASC-B-6894 Y ASC-B-680Z 4 ASC-B-680Z 4 ASC-B-680Z 4 ASC-B-680Z 4 ASC-B-6820 4 ASC-B-6813 4 ASC-B-6844 4 ASC-B-6800 4 ASC-B-6842 4 ASC-B-6802 4 ASC-B-6802 4 ASC-B-6802 4 ASC-B-6802 4	122-1125 GW 122-1210 GW 122-1345 GW 122-1425 GW 122-1510 GW 122-1621 GW 122-1625 GW 123-1015 GW 123-1015 GW 123-1230 GW 123-1230 GW	100 m) 100 m) 100 m) 100 m) 100 m) 100 m) 100 m) 100 m) 100 m) 100 m	None	BB BB BB BB BB BB BB BB BB BB BB BB	Arseni	alytes and Methods  C. Speciation	Comments
		4/23 -	100m)					empty
elinquished by: (sign)	(print)	print) Brad Bies			Pate/Time: パイ/0へい	4/24 9000 36	Johnnerus.	
eceived by: (sign) ease account for each sample bottle	(print)	orint)		Date/Time:	ate/Time:		Temp: E, 4 Comments:	· C

#### **APPENDIX J:**

## GROUNDWATER LABORATORY ANALYTICAL DATA



SunLabs **Project Number** 

PBS&J

080730.06

Project Description

CEP Impl.

August 12, 2008

SunLabs Sample Number Sample Designation

70130 **GW-16** 

Matrix

Groundwater

Date Collected

07/29/08 09:45

Date Received

07/30/08 11:35

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Anions by Ion Chromatography									
Date Analyzed			07/31/08	1				07/31/08 00:57	07/30/08 16:10
Chloride	300.0	mg/L	120		0.9	3.6		08/01/08 22:44	07/30/08 16:10
Nitrate-N	300.0	mg/L	0.014 U	1	0.014	0.056		07/31/08 00:57	07/30/08 16:10
Sulfate	300.0	mg/L	1.8	1	0.036	0.14		07/31/08 00:57	07/30/08 16:10
Metals by EPA Method 6010									
Date Digested	3010		7/31/2008						07/31/08 08:00
Date Analyzed			8/8/2008	2				08/08/08 16:19	0,,51,00 00.00
Arsenic	6010	mg/L	1.1		0.0048	0.019	7440-38-2	08/03/08 13:14	07/31/08 08:00
Iron	6010	mg/L	19 V	5	0.012	0.046	7439-89-6	08/04/08 15:31	07/31/08 08:00
Manganese	6010	mg/L	0.016 V	1	0.0006	0.0024	7439-96-5	08/04/08 11:59	07/31/08 08:00
Sodium	6010	mg/L	140	2	0.022	0.088	7440-23-5	08/08/08 16:19	07/31/08 08:00
Total Alkalinity									
Date analyzed			8/5/2008	1				08/05/08 11:51	
Total Alkalinity as CaCO3	SM2320B	mg/L	780		1.2	5		08/05/08 11:51	
Ammonia									
Nitrogen Ammonia (as N)	350.2	mg/L	25.1	1	0.005	0.020		08/05/08 11:15	
Total Dissolved Solids									
Date Analyzed			8/4/08 S7	1				08/04/08 09:10	
Total Dissolved Solids	SM2540C	mg/L	1044		7.26	29		08/04/08 09:10	
Total Organic Carbon									
Date Analyzed			7/31/08 S7	1				07/31/08 15:00	
Total Organic Carbon	SM5310C	mg/L	71.5		).271	1.084		07/31/08 15:00	



SunLabs Project Number

080729.05

PBS&J

Project Description

CEP Impl.

August 12, 2008

SunLabs Sample Number Sample Designation

70017 GW-2 Matrix

Groundwater

Date Collected

07/28/08 12:10

Date Received

07/29/08 12:01

Parameters	Method	Units	Results	Dil Fact		RL	CAS Number	Date/Time	Date/Time
		**/					Kamper	Analyzed	Prep
Anions by Ion Chromatography									
Date Analyzed			07/29/08	1				07/29/08 21:24	07/29/08 13:45
Chloride	300.0	mg/L	53	10	0.45	1.8		07/30/08 17:51	07/29/08 13:45
Nitrate-N	300.0	mg/L	0.014 U	1	0.014	0.056		07/29/08 21:24	07/29/08 13:45
Sulfate	300.0	mg/L	58	10	0.36	1.4		07/30/08 17:51	07/29/08 13:45
Metals by EPA Method 6010									
Date Digested	3010		7/30/2008						07/30/08 08:30
Date Analyzed			8/4/2008	1				08/04/08 11:15	07/30/08 08.30
Arsenic	6010	mg/L	0.0048 U	1	0.0048	0.019	7440-38-2	08/03/08 14:36	07/30/08 08:30
Iron	6010	mg/L	6.2	2	0.0046		7439-89-6	08/04/08 15:21	07/30/08 08:30
Manganese	6010	mg/L	0.0052	1	0.0006	0.0024	7439-96-5	08/04/08 11:15	07/30/08 08:30
Sodium	6010	mg/L	· 46	1	0.011	0.044	7440-23-5	07/31/08 11:34	07/30/08 08:30
Total Alkalinity									
Date analyzed			8/5/2008	1				08/05/08 09:11	
Total Alkalinity as CaCO3	SM2320B	mg/L	170	1	1.2	5		08/05/08 09:11	
<u>Ammonia</u>									140 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans - 170 dans -
Nitrogen Ammonia (as N)	350.2	mg/L	0.120	1	0.005	0.020		08/05/08 11:15	
Total Dissolved Solids									
Date Analyzed			8/4/08 S7	1				08/04/08 09:10	
Total Dissolved Solids	SM2540C	mg/L	404	1	7.26	29		08/04/08 09:10	· · · · · · · · · · · · · · · · · · ·
Total Organic Carbon									
Date Analyzed			7/31/08 57	1				07/31/09 15:00	
Total Organic Carbon	SM5310C	ma/l			0 271	1 084			
Total Organic Carbon	SM5310C	mg/L	7/31/08 S7 10.8	1	0.271	1.084		07/31/08 15:00 07/31/08 15:00	



SunLabs Project Number

080729.05

PBS&J

Project Description

CEP Impl.

August 12, 2008

SunLabs Sample Number Sample Designation

70018

**GW-2 Filtered** 

Matrix

Groundwater

Date Collected

07/28/08 12:10

Date Received

07/29/08 12:01

Parameters	Method	Units	Results	Dil Factor	MDL		CAS Number	Date/Time Analyzed	Date/Time Prep
Metals by EPA Method 6010									
Date Digested	3010		7/30/2008						07/30/08 08:30
Date Analyzed			8/4/2008	1				08/04/08 11:30	
Arsenic .	6010	mg/L	0.0048 U	1	0.0048	0.019	7440-38-2	08/03/08 14:38	07/30/08 08:30
Iron	6010	mg/L	1.2		0.0023	0.0092	7439-89-6	08/04/08 11:30	07/30/08 08:30
Manganese	6010	mg/L	0.0046	1	0.0006	0.0024	7439-96-5	08/04/08 11:30	07/30/08 08:30
Sodium	6010	mg/L	45	1	0.011	0.044	7440-23-5	07/31/08 11:36	07/30/08 08:30



SunLabs Project Number

080730.06

PBS&J

Project Description CEP Impl.

August 12, 2008

SunLabs Sample Number Sample Designation

70131 GW-10 Matrix

Groundwater

Date Collected

07/29/08 11:25

Date Received

07/30/08 11:35

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
77.70		THE COLUMN TO COMPANY TO STREET, ST.	STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL STEEL			*************			riep
Anions by Ion Chromatography									
Date Analyzed			07/31/08	1				07/31/08 01:13	07/30/08 16:10
Chloride	300.0	mg/L	62	10	0.45	1.8		08/02/08 01:06	07/30/08 16:10
Nitrate-N	300.0	mg/L	0.014 U	1	0.014	0.056		07/31/08 01:13	07/30/08 16:10
Sulfate	300.0	mg/L	190	50	1.8	7.2		08/01/08 19:04	07/30/08 16:10
Metals by EPA Method 6010									
Date Digested	3010		7/31/2008						07/31/08 08:00
Date Analyzed			8/7/2008	1				08/07/08 18:08	07/31/00 00:00
Arsenic	6010	mg/L	0.008 1	1	0.0048	0.019	7440-38-2	08/03/08 13:16	07/31/08 08:00
Iron	6010	mg/L	4.6 V	1	0.0023	0.0092	7439-89-6	08/04/08 12:01	07/31/08 08:00
Manganese	6010	mg/L	0.016 V-	1	0.0006	0.0024	7439-96-5	08/04/08 12:01	07/31/08 08:00
Sodium	6010	mg/L	52	1	0.011	0.044	7440-23-5	08/07/08 18:08	07/31/08 08:00
Total Alkalinity									
Date analyzed			8/5/2008	1				08/05/08 12:11	
Total Alkalinity as CaCO3	SM2320B	mg/L	390		1.2	5		08/05/08 12:11	
<u>Ammonia</u>									
Nitrogen Ammonia (as N)	350.2	mg/L	0.306	1	0.005	0.020		08/05/08 11:15	
Total Dissolved Solids				•					
Date Analyzed			8/4/08 S7	1				00/04/00 00:10	
Total Dissolved Solids	SM2540C	mg/L	872		7.26	29		08/04/08 09:10 08/04/08 09:10	
	0	1119/ L	0/2	1	, ,20	دع		00/04/00 03:10	
<u>Total Organic Carbon</u>									
Date Analyzed			7/31/08 S7	1				07/31/08 15:00	
Total Organic Carbon	SM5310C	mg/L	13.7		0.271	1.084		07/31/08 15:00	

Laboratory ID Number - E84809

Phone: 813-881-9401 Fax: 813-354-4661 Email: Info@SunLabsInc.com



SunLabs Project Number

080729.05

PBS&J

Project Description

CEP Impl.

August 12, 2008

SunLabs Sample Number Sample Designation

70019 DGW-1

Matrix

Groundwater

Date Collected

07/28/08 14:20

Date Received

07/29/08 12:01

Parameters	Method	Units	Results	Dil Facto	MDL r	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Anions by Ion Chromatography								***************************************	
Date Analyzed			07/29/08	1				07/29/08 21:40	07/29/08 13:45
Chloride	300.0	mg/L	970	200	9	36	. 11 1-181-1-1 181-1 1-1 181-1 1-1 1-1 1-	08/01/08 18:32	07/29/08 13:45
Nitrate-N	300.0	mg/L	0.014 U	1	0.014	0.056		07/29/08 21:40	07/29/08 13:45
Sulfate	300.0	mg/L	170	50	1.8	7.2		07/30/08 18:38	07/29/08 13:45
Metals by EPA Method 6010									
Date Digested	3010		7/30/2008						07/30/08 08:30
Date Analyzed			8/4/2008	1				08/04/08 11:32	07/30/00 00:30
Arsenic	6010	mg/L	0.0048 U	1	0.0048	0.019	7440-38-2	08/03/08 14:40	07/30/08 08:30
Iron	6010	mg/L	0.28	1	0.0023		7439-89-6	08/04/08 11:32	07/30/08 08:30
Manganese	6010	mg/L	0.010	1	0.0006	0.0024	7439-96-5	08/04/08 11:32	07/30/08 08:30
Sodium	6010	mg/L	260	5	0.055	0.22	7440-23-5	07/31/08 12:19	07/30/08 08:30
Total Alkalinity									
Date analyzed			8/5/2008						
Total Alkalinity as CaCO3	SM2320B	mg/L	440	1	1.2	-		08/05/08 09:18	
3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	JHZJZUD	IIIg/L	440	1	1.2	5	***************************************	08/05/08 09:18	
<u>Ammonia</u>				-					
Nitrogen Ammonia (as N)	350.2	mg/L	0.534	1	0.005	0.020		08/05/08 11:15	
Total Dissolved Solids									
Date Analyzed			8/4/08 S7	1				09/04/00 00:40	
Total Dissolved Solids	SM2540C	mq/L	2320	1	7.26	29		08/04/08 09:10	
	525 100	111g/L	2320	1	7.20	23		08/04/08 09:10	
Total Organic Carbon									
Date Analyzed			7/31/08 S7	1				07/31/08 15:00	
Total Organic Carbon	SM5310C	mg/L	18.9	1	0.271	1.084		07/31/08 15:00	
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SunLabs Project Number

080730.06

PBS&J

Project Description

CEP Impl.

August 12, 2008

SunLabs Sample Number Sample Designation

70132 GW-15

Matrix

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Groundwater

Date Collected

Date Received

07/29/08 13:00 07/30/08 11:35

Parameters	Method	Units	Results	Dil Facto		RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Anions by Ion Chromatography									
Date Analyzed			07/31/08	,				07/21/00 01:12	07/20/00 45.40
Chloride	300.0	mg/L	250	1 50	2.2	9		07/31/08 01:13 08/01/08 19:19	07/30/08 16:10
Nitrate-N	300.0	mg/L	0.014 U	1	0.014	0.056		07/31/08 01:13	07/30/08 16:10 07/30/08 16:10
Sulfate	300.0	mg/L	450	50	1.8	7.2		08/01/08 19:19	07/30/08 16:10
Metals by EPA Method 6010									
Date Digested	3010		7/31/2008						07/31/08 08:00
Date Analyzed		***************************************	8/8/2008	2			· · · · · · · · · · · · · · · · · · ·	08/08/08 16:21	07/31/06 06.00
Arsenic	6010	mg/L	0.21	1	0.0048	0.019	7440-38-2	08/03/08 13:18	07/31/08 08:00
Iron	6010	mg/L	23 V	10	0.023	0.092	7439-89-6	08/04/08 15:33	07/31/08 08:00
Manganese	6010	mg/L	0.034 V	1	0.0006	0.0024	7439-96-5	08/04/08 12:04	07/31/08 08:00
Sodium	6010	mg/L	130	2	0.022	0.088	7440-23-5	08/08/08 16:21	07/31/08 08:00
Total Alkalinity									
Date analyzed			8/5/2008	1				08/05/08 12:22	
Total Alkalinity as CaCO3	SM2320B	mg/L	690	1	1.2	5	· · · · · · · · · · · · · · · · · · ·	08/05/08 12:22	
<u>Ammonia</u>									
Nitrogen Ammonia (as N)	350.2	mg/L	10.1	1	0.005	0.020		08/05/08 11:15	
Total Dissolved Solids									
Date Analyzed			8/4/08 S7	1				08/04/08 09:10	
Total Dissolved Solids	SM2540C	mg/L	2024	1	7.26	29	THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE S	08/04/08 09:10	
Total Organic Carbon									
Date Analyzed			7/31/08 S7	1				07/31/08 15:00	
Total Organic Carbon	SM5310C	mg/L	73.6	1	0.271	1.084		07/31/08 15:00	



SunLabs **Project Number** 

080730.06

PBS&J

Project Description

CEP Impl.

August 12, 2008

SunLabs Sample Number Sample Designation

70133 **Duplicate BB** 

Matrix

Groundwater

Date Collected Date Received

07/29/08 13:00 07/30/08 11:35

Parameters	Method	Units	Results	Dil Fact	MDL or	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
		of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the					***************************************		
Anions by Ion Chromatography									
Date Analyzed			07/31/08	1				07/31/08 02:32	07/30/08 16:10
Chloride	300.0	mg/L	250	50	2.2	9		08/01/08 19:35	07/30/08 16:10
Nitrate-N	300.0	mg/L	0.23	1	0.014	0.056		07/31/08 02:32	07/30/08 16:10
Sulfate	300.0	mg/L	450	50	1.8	7.2		08/01/08 19:35	07/30/08 16:10
Metals by EPA Method 6010									
Date Digested	3010		7/31/2008						07/31/08 08:00
Date Analyzed			8/8/2008	2				08/08/08 16:24	07/31/06 06.00
Arsenic	6010	mg/L	0.23	1	0.0048	0.019	7440-38-2	08/03/08 13:20	07/31/08 08:00
Iron	6010	mg/L	23 V	10		0.0092	7439-89-6	08/04/08 15:41	07/31/08 08:00
Manganese	6010	mg/L	0.033 V	1		0.0024	7439-96-5	08/04/08 12:06	07/31/08 08:00
Sodium	6010	mg/L	130	2	0.022	0.088	7440-23-5	08/08/08 16:24	07/31/08 08:00
Total Alkalinity									
Date analyzed			8/5/2008	1				08/05/08 13:00	
Total Alkalinity as CaCO3	SM2320B	mg/L	700	1	1.2	5		08/05/08 13:00	
Ammonia								COMMISSION OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE	COMMENT OF COMMENT OF STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET,
Nitrogen Ammonia (as N)	350.2	mg/L	10.4	1	0.005	0.020		08/05/08 11:15	
Total Dissolved Solids									
Date Analyzed			8/4/08 S7	1				08/04/08 09:10	
Total Dissolved Solids	SM2540C	mg/L	2044	1	7.26	29		08/04/08 09:10	er erana antara a antara a antara a
Total Organic Carbon									
Date Analyzed			7/31/08 S7	1				07/21/09 15:00	
Total Organic Carbon	SM5310C	mg/L	7/31/06 37 75.4	1	0.271	1.084		07/31/08 15:00 07/31/08 15:00	



SunLabs **Project Number** 

080729.05

PBS&J

Project Description

CEP Impl.

August 12, 2008

SunLabs Sample Number Sample Designation

70020 **GW-11** 

Matrix

Groundwater

Date Collected

07/28/08 16:45

Date Received

07/29/08 12:01

Parameters	Method	Units	Results	Dil Facto	MDL r	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Anions by Ion Chromatography									
Date Analyzed			07/29/08	1				07/29/08 22:43	07/20/00 12:45
Chloride	300.0	mg/L	53	10	0.45	1.8		07/29/08 22:43	07/29/08 13:45 07/29/08 13:45
Nitrate-N	300.0	mg/L	0.014 U	1	0.014	0.056		07/29/08 22:43	07/29/08 13:45
Sulfate	300.0	mg/L	3.3	1	0.036	0.14		07/29/08 22:43	07/29/08 13:45
Metals by EPA Method 6010									
Date Digested	3010		7/30/2008						07/30/08 08:30
Date Analyzed		***************************************	8/4/2008	1				08/04/08 11:35	07/50/00 00:50
Arsenic	6010	mg/L	0.012 I	1	0.0048	0.019	7440-38-2	08/03/08 14:44	07/30/08 08:30
Iron	6010	mg/L	48	20	0.046	0.18	7439-89-6	08/04/08 15:23	07/30/08 08:30
Manganese	6010	mg/L	0.036	1		0.0024	7439-96-5	08/04/08 11:35	07/30/08 08:30
Sodium	6010	mg/L	- 68	1	0.011	0.044	7440-23-5	07/31/08 11:41	07/30/08 08:30
Total Alkalinity									
Date analyzed			8/5/2008	1				08/05/08 09:31	
Total Alkalinity as CaCO3	SM2320B	mg/L	200		1.2	5		08/05/08 09:31	
Ammonia									
Nitrogen Ammonia (as N)	350.2	mg/L	0.306	1	0.005	0.020		08/05/08 11:15	
Total Dissolved Solids									
Date Analyzed			8/4/08 S7	1				08/04/08 09:10	
Total Dissolved Solids	SM2540C	mg/L	624		7.26	29		08/04/08 09:10	
Total Organic Carbon									
Date Analyzed			7/31/08 S7	1				07/31/08 15:00	
Total Organic Carbon	SM5310C	mg/L	119		0.271	1.084		07/31/08 15:00	



SunLabs Project Number

080729.05

PBS&J

Project Description

CEP Impl.

August 12, 2008

SunLabs Sample Number Sample Designation

70021

**GW-11 Filtered** 

Matrix

Groundwater

Date Collected

07/28/08 16:45

Date Received

07/29/08 12:01

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Metals by EPA Method 6010									
Date Digested	3010		7/30/2008						07/30/08 08:30
Date Analyzed			8/4/2008	1				08/04/08 11:38	0.700,00 00.00
Arsenic	6010	mg/L	0.006 I	1	0.0048	0.019	7440-38-2	08/03/08 14:46	07/30/08 08:30
Iron	6010	mg/L	30	10	0.023	0.092	7439-89-6	08/04/08 15:26	07/30/08 08:30
Manganese	6010	mg/L	0.031	1	0.0006	0.0024	7439-96-5	08/04/08 11:38	07/30/08 08:30
Sodium	6010	mg/L	68	1	0.011	0.044	7440-23-5	07/31/08 11:47	07/30/08 08:30

Phone: 813-881-9401 Fax: 813-354-4661 Email: Info@SunLabsInc.com



SunLabs Project Number

080730.06

PBS&J

Project Description

CEP Impl.

August 12, 2008

SunLabs Sample Number Sample Designation

70134 DGW-2

Matrix

Groundwater

Date Collected

07/29/08 15:10

Date Received

07/30/08 11:35

Parameters	Method	Units	Results	Dil Fact	MDL or	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Anions by Ion Chromatography									
Date Analyzed			07/31/08	1				07/31/08 02:48	07/30/08 16:10
Chloride	300.0	mg/L	82	10	0.45	1.8		08/02/08 01:22	07/30/08 16:10
Nitrate-N	300.0	mg/L	0.014 U	1	0.014	0.056		07/31/08 02:48	07/30/08 16:10
Sulfate	300.0	mg/L	0.036 U	1	0.036	0.14		07/31/08 02:48	07/30/08 16:10
Metals by EPA Method 6010									
Date Digested	3010		7/31/2008						07/31/08 08:00
Date Analyzed			8/8/2008	5	*** ***********************************			08/08/08 16:31	07/32/00 00:00
Arsenic	6010	mg/L	0.0048 U	1	0.0048	0.019	7440-38-2	08/03/08 13:23	07/31/08 08:00
Iron	6010	mg/L	3.1 V	1	0.0023		7439-89-6	08/04/08 12:09	07/31/08 08:00
Manganese	6010	mg/L	0.0059 V	1	0.0006	0.0024	7439-96-5	08/04/08 12:09	07/31/08 08:00
Sodium	6010	mg/L	180	5	0.055	0.22	7440-23-5	08/08/08 16:31	07/31/08 08:00
Total Alkalinity									
Date analyzed			8/5/2008	1				08/05/08 13:31	
Total Alkalinity as CaCO3	SM2320B	mg/L	760	1	1.2	5		08/05/08 13:31	
<u>Ammonia</u>									
Nitrogen Ammonia (as N)	350.2	mg/L	0.823	1	0.005	0.020		08/05/08 11:15	
Total Dissolved Solids									
Date Analyzed			8/4/08 S7	1				08/04/08 09:10	
Total Dissolved Solids	SM2540C	mg/L	1024	1	7.26	29	* **	08/04/08 09:10	
Total Organic Carbon									
Date Analyzed			7/31/08 S7	1				07/31/08 15:00	
Total Organic Carbon	SM5310C	mg/L	32.6	1	0.271	1.084		07/31/08 15:00	



SunLabs Project Number

080729.05

PBS&J

Project Description

CEP Impl.

August 12, 2008

#### Footnotes SunLabs is not currently NELAC certified for this analyte. The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit. Laboratory Control Sample LCSD Laboratory Control Sample Duplicate MΒ Method Blank MS Matrix Spike MSD Matrix Spike Duplicate NA Sample not analyzed at client's request. RLRL(reporting limit) = PQL(practical quantitation limit). RPD Relative Percent Difference 57 This analysis performed by Benchmark EnviroAnalytical, Inc., Certification number E84167. U Compound was analyzed for but not detected. Indicates that the analyte was detected in both the sample and the associated method blank.



SunLabs Project Number

080730.06

PBS&J

Project Description

CEP Impl.

August 12, 2008

#### Footnotes SunLabs is not currently NELAC certified for this analyte. The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit. LCS Laboratory Control Sample LCSD Laboratory Control Sample Duplicate ΜB Method Blank MS Matrix Spike MSD Matrix Spike Duplicate NA Sample not analyzed at client's request. RLRL(reporting limit) = PQL(practical quantitation limit). RPD Relative Percent Difference *57* This analysis performed by Benchmark EnviroAnalytical, Inc., Certification number E84167. Compound was analyzed for but not detected. Indicates that the analyte was detected in both the sample and the associated method blank.



SunLabs Project Number

090410.09

PBS&J

Project Description

Sarasota Landfill Surface Water & Wetlands Assessm

April 20, 2009

SunLabs Sample Number Sample Designation

82952

Temp Well #1

Matrix

Groundwater

Date Collected Date Received 4/9/2009 15:15

4/10/2009 14:10

Parameters	Method	Units	Posuita	D.II				**************************************	
	· · · · · · · · · · · · · · · · · · ·	Oilics	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Metals by EPA Method 6010								•	
Date Digested	3010		4/13/2009						
Date Analyzed			4/14/2009						04/13/09 09:00
Arsenic	6010			·				04/14/09 14:21	
Iron		mg/L	0.012 I	1	0.0048	0.019	7440-38-2	04/13/09 17:22	04/13/09 09:00
AUI	6010	mg/L	3.5 V	1	0.0023	0.0092	7439-89-6	04/14/09 14:21	



SunLabs Project Number

090410.09

PBS&J

Project Description

Sarasota Landfill Surface Water & Wetlands Assessm

April 20, 2009

SunLabs Sample Number Sample Designation

82954

Temp Well #2

Matrix

Groundwater

Date Collected

4/9/2009 16:30

Date Received

4/10/2009 14:10

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Metals by EPA Method 6010								•	
Date Digested	3010		4/13/2009						
Date Analyzed	3010		4/14/2009	1				04/14/00 14:24	04/13/09 09:00
Arsenic	6010	mg/L	0.0048 U	1	0.0048	0.019	7440-38-2	04/14/09 14:24 04/13/09 17:24	04/13/00 00 00
Iron	6010	mg/L	2.2 V	-			7439-89-6	04/14/09 14:24	. , ,



SunLabs Project Number

090410.09

PBS&J

Project Description

Sarasota Landfill Surface Water & Wetlands Assessm

April 20, 2009

*	SunLabs is not currently NELAC certified for this analyte.								
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.								
LCS	Laboratory Control Sample								
LCSD	Laboratory Control Sample Duplicate								
MB	Method Blank								
MS	Matrix Spike								
MSD	Matrix Spike Duplicate								
NA	Sample not analyzed at client's request.								
RL	RL(reporting limit) = PQL(practical quantitation limit).								
RPD	Relative Percent Difference								
U	Compound was analyzed for but not detected								

Indicates that the analyte was detected in both the sample and the associated method blank.



SunLabs Project Number

080731.01

PBS&J

Project Description

CEP Impl.

August 12, 2008

SunLabs Sample Number Sample Designation

70158 MW-8A

Matrix

Groundwater

Date Collected

07/29/08 11:30

Date Received

07/31/08 07:55

Parameters	Method	Units	Results	Dil Facto	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Anions by Ion Chromatography								THE RESERVE TO SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE SERVE THE S	Participant and a second
Date Analyzed			07/24/00						
Chloride	300.0	ma/l	07/31/08	1	0.70			07/31/08 11:09	07/31/08 09:22
Nitrate-N	300.0	mg/L	44	5	0.22	0.9		08/02/08 06:06	07/31/08 09:22
Sulfate	300.0	mg/L mg/L	0.014 U 0.036 U	1 1	0.014 0.036	0.056 0.14		07/31/08 11:09 07/31/08 11:09	07/31/08 09:22 07/31/08 09:22
Metals by EPA Method 6010								The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	***************************************
Date Digested	3010		7/31/2008						
Date Analyzed			8/7/2008	1				00/07/00 +0 00	07/31/08 08:00
Arsenic	6010	mg/L	0.048	1	0.0048	0.010	7440-38-2	08/07/08 18:33	
Iron	6010	mg/L	150 V	50	0.12	0.46	7439-89-6	08/03/08 16:38	07/31/08 08:00
Manganese	6010	mg/L	0.017	1	0.0006		7439-89-6 7439-96-5	08/04/08 15:46	07/31/08 08:00
Sodium	6010	mg/L	71			0.0024	7440-23-5	08/04/08 12:30 08/07/08 18:33	07/31/08 08:00 07/31/08 08:00
Total Alkalinity									
Date analyzed			8/5/2008						
Total Alkalinity as CaCO3	SM2320B	mg/L	760	1 1	1.2	5		08/05/08 14:07 08/05/08 14:07	
<u>Ammonia</u>							The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon		Control of the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s
Nitrogen Ammonia (as N)	350.2	mg/L	18.2	1	0.005	0.020		08/05/08 11:15	
Total Dissolved Solids									
Date Analyzed			8/4/08 S7	1				00/04/00 00 40	
Total Dissolved Solids	SM2540C	mg/L	876		7.26	29	***************************************	08/04/08 09:10 08/04/08 09:10	W
Total Organic Carbon									
Date Analyzed			7/24/00 07						
Fotal Organic Carbon	CME210C		7/31/08 S7	1				07/31/08 15:00	
Our Organic Carbon	SM5310C	mg/L	92.5	1	0.271	1.084		07/31/08 15:00	



SunLabs Project Number

080731.01

PBS&J

Project Description

CEP Impl.

August 12, 2008

SunLabs Sample Number Sample Designation

70159 CW-10R

Matrix

ad

Date Collected

Groundwater 07/29/08 13:35

Date Received

07/31/08 07:55

Parameters	Method	Units	Results	Dil Fact		. RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Anions by Ion Chromatography									The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
Date Analyzed			07/31/08						
Chloride	300.0	mg/L	42	1 5	0.22	0.9		07/31/08 11:57	07/31/08 09:22
Nitrate-N	300.0	mg/L	0.014 U	5 1	0.22 0.014	0.9	***************************************	08/02/08 06:22	07/31/08 09:22
Sulfate	300.0	mg/L	220	50	1.8	7.2		07/31/08 11:57 08/01/08 19:51	07/31/08 09:22 07/31/08 09:22
Metals by EPA Method 6010							111111111111111111111111111111111111111		
Date Digested	3010		7/31/2008						07/21/00 00 00
Date Analyzed			8/7/2008	1		***************************************		08/07/08 18:35	07/31/08 08:00
Arsenic	6010	mg/L	0.009 I	1	0.0048	0.019	7440-38-2	08/03/08 16:41	07/21/00 00 00
Iron	6010	mg/L	15 V	5	0.012	0.015	7439-89-6	08/04/08 15:49	07/31/08 08:00
Manganese	6010	mg/L	0.052	1		0.0024	7439-96-5	08/04/08 12:32	07/31/08 08:00
Sodium	6010	mg/L	. 53	1	0.011	0.044	7440-23-5	08/07/08 18:35	07/31/08 08:00 07/31/08 08:00
Total Alkalinity									
Date analyzed			8/5/2008					00/05/00 44.04	
Total Alkalinity as CaCO3	SM2320B	mg/L	470	1	1.2	5		08/05/08 14:26	
The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	J112320D	mg/L	470	<u>1</u>	1.2		Trin :	08/05/08 14:26	
<u>Ammonia</u>									
Nitrogen Ammonia (as N)	350.2	mg/L	2.52	1	0.005	0.020		08/05/08 11:15	
Total Dissolved Solids								The same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the s	
Date Analyzed			0/4/00 67	_					
Total Dissolved Solids	SM2540C	/	8/4/08 S7	1				08/04/08 09:10	
	31123400	mg/L	1024	1	7.26	29		08/04/08 09:10	
Total Organic Carbon									
Date Analyzed			7/24/22 5-						
Total Organic Carbon	CMEDIOC		7/31/08 S7	1				07/31/08 15:00	
Total Organic Calbuil	SM5310C	mg/L	30.1	1	0.271	1.084		07/31/08 15:00	

Laboratory ID Number - E84809



SunLabs Project Number

080731.01

PBS&J

Project Description

CEP Impl.

August 12, 2008

SunLabs Sample Number Sample Designation

70160 CW-8A

Matrix

Gr

Date Collected

Groundwater 07/29/08 12:30

Date Received

07/31/08 07:55

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Anions by Ion Chromatography									
Date Analyzed			07/31/08	1				07/31/08 11:25	07/31/08 09:22
Chloride	300.0	mg/L	70	10	0.45	1.8		08/02/08 01:38	07/31/08 09:22
Nitrate-N	300.0	mg/L	0.014 U	1	0.014	0.056		07/31/08 11:25	07/31/08 09:22
Sulfate	300.0	mg/L	28	5	0.18	0.72		08/02/08 06:38	07/31/08 09:22
Metals by EPA Method 6010									
Date Digested	3010		7/31/2008						07/31/08 08:00
Date Analyzed			8/7/2008	1	******************************			08/07/08 18:37	
Arsenic	6010	mg/L	0.053	1	0.0048	0.019	7440-38-2	08/03/08 16:43	07/31/08 08:00
Iron	6010	mg/L	62 V	20	0.046	0.18	7439-89-6	08/04/08 15:51	07/31/08 08:00
Manganese	6010	mg/L	0.018	1	0.0006	0.0024	7439-96-5	08/04/08 12:35	07/31/08 08:00
Sodium	6010	mg/L	· 40	1	0.011	0.044	7440-23-5	08/07/08 18:37	07/31/08 08:00
Total Alkalinity									
Date analyzed			8/5/2008	1				08/05/08 14:38	
Total Alkalinity as CaCO3	SM2320B	mg/L	150		1.2	5		08/05/08 14:38	77.6.7 (A
Ammonia									
Nitrogen Ammonia (as N)	350.2	mg/L	5.68	1	0.005	0.020		08/05/08 11:15	
Total Dissolved Solids									
Date Analyzed			8/4/08 S7	1				08/04/08 09:10	
Total Dissolved Solids	SM2540C	mg/L	476		7.26	29		08/04/08 09:10	no i i come de como como como como como como como com
Total Organic Carbon									
Date Analyzed			7/31/08	1				07/31/08 15:00	
Total Organic Carbon	SM5310C	mg/L	44.4		0.271	1.084		07/31/08 15:00	



SunLabs Project Number

080731.01

PBS&J

Project Description

CEP Impl.

August 12, 2008

SunLabs Sample Number Sample Designation

70161 MW-11R

Matrix

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Groundwater

Date Collected

07/29/08 14:40

Date Received

07/31/08 07:55

Parameters	Method	Units	Results	Dil Facto	MDL or	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Anions by Ion Chromatography									
Date Analyzed			07/31/08	1				07/31/08 12:28	07/31/08 09:22
Chloride	300.0	mg/L	48	10	0.45	1.8		08/02/08 01:54	07/31/08 09:22
Nitrate-N	300.0	mg/L	0.014 U	1	0.014	0.056		07/31/08 12:28	07/31/08 09:22
Sulfate	300.0	mg/L	150	50	1.8	7.2		08/01/08 20:07	07/31/08 09:22
Metals by EPA Method 6010									
Date Digested	3010		7/31/2008						07/31/08 08:00
Date Analyzed	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s		8/7/2008	1				08/07/08 18:39	
Arsenic	6010	mg/L	0.014 I	1	0.0048	0.019	7440-38-2	08/03/08 16:45	07/31/08 08:00
Iron	6010	mg/L	2.9 V	1	0.0023	0.0092	7439-89-6	08/04/08 12:38	07/31/08 08:00
Manganese	6010	mg/L	0.016	1	0.0006	0.0024	7439-96-5	08/04/08 12:38	07/31/08 08:00
Sodium	6010	mg/L	44	1	0.011	0.044	7440-23-5	08/07/08 18:39	07/31/08 08:00
Total Alkalinity									
Date analyzed			8/5/2008	1				08/05/08 14:46	
Total Alkalinity as CaCO3	SM2320B	mg/L	300	1	1.2	5		08/05/08 14:46	
•	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	Transact Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communi					Character a commence of the company of	i	controller or a control of the state of the
<u>Ammonia</u>									
Nitrogen Ammonia (as N)	350.2	mg/L	0.594	1	0.005	0.020		08/05/08 11:15	
Total Dissolved Solids									
Date Analyzed			8/4/08 S7	1				08/04/08 09:10	
Total Dissolved Solids	SM2540C	mg/L	800	1	7.26	29		08/04/08 09:10	P. P. STORY CO. SEC. MICH. SHOW
Total Organic Carbon									
Date Analyzed			7/31/08 S7	1				07/31/08 15:00	
Total Organic Carbon	SM5310C	mg/L	60.6	1	0.271	1 094		07/31/08 15:00	

Laboratory ID Number - E84809



SunLabs Project Number

080731.01

PBS&J

Project Description

CEP Impl.

August 12, 2008

SunLabs Sample Number Sample Designation

70162 CW-11R

Matrix

Gr

Date Collected

Groundwater 07/29/08 15:25

Date Received

07/31/08 07:55

Parameters	Method	Units	Results	Dil Facto	MDL or	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Anions by Ion Chromatography									
Date Analyzed			07/31/08	1				07/31/08 13:15	07/31/08 09:22
Chloride	300.0	mg/L	15	2	0.09	0.36		08/02/08 09:31	07/31/08 09:22
Nitrate-N	300.0	mg/L	0.014 U	1	0.014	0.056		07/31/08 13:15	07/31/08 09:22
Sulfate	300.0	mg/L	17	2	0.072	0.29		08/02/08 09:31	07/31/08 09:22
Metals by EPA Method 6010									
Date Digested	3010		7/31/2008						07/31/08 08:00
Date Analyzed	CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR	4. 1881	8/7/2008	1				08/07/08 18:45	07/31/00 00:00
Arsenic	6010	mg/L	0.020	1	0.0048	0.019	7440-38-2	08/03/08 16:48	07/31/08 08:00
Iron	6010	mg/L	17 V	5		0.046	7439-89-6	08/04/08 15:53	07/31/08 08:00
Manganese	6010	mg/L	0.038	1	0.0006	0.0024	7439-96-5	08/04/08 12:40	07/31/08 08:00
Sodium	6010	mg/L	· 24	1	0.011	0.044	7440-23-5	08/07/08 18:45	07/31/08 08:00
Total Alkalinity									
Date analyzed			8/5/2008	1				08/05/08 14:55	
Total Alkalinity as CaCO3	SM2320B	mg/L	480	1	1.2	5		08/05/08 14:55	
<u>Ammonia</u>									
Nitrogen Ammonia (as N)	350.2	mg/L	2.82	1	0.005	0.020	1000 - 1 - 1	08/05/08 11:15	
Total Dissolved Solids									
Date Analyzed			8/4/08 S7	1				08/04/08 09:10	
Total Dissolved Solids	SM2540C	mg/L	680	1	7.26	29		08/04/08 09:10	THE REST OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PA
Total Organic Carbon									
Date Analyzed			7/31/08 S7	1				07/31/08 15:00	
Total Organic Carbon	SM5310C	mg/L	48.3	1	0.271	1.084		07/31/08 15:00	

Laboratory ID Number - E84809



SunLabs Project Number

080731.01

PBS&J

Project Description

CEP Impl.

August 12, 2008

SunLabs Sample Number Sample Designation

70163 MW-12R

Matrix

Date Collected

Groundwater 07/29/08 16:30

Date Received

07/31/08 07:55

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Anions by Ion Chromatography									
Date Analyzed			07/31/08	1				07/31/08 13:31	07/31/08 09:22
Chloride	300.0	mg/L	57	10	0.45	1.8		08/02/08 02:09	07/31/08 09:22
Nitrate-N	300.0	mg/L	0.014 U	1	0.014	0.056		07/31/08 13:31	07/31/08 09:22
Sulfate	300.0	mg/L	93	20	0.72	2.9		08/01/08 23:00	
Metals by EPA Method 6010									
Date Digested	3010		7/31/2008						07/31/08 08:00
Date Analyzed	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon		8/7/2008	1				08/07/08 18:48	
Arsenic	6010	mg/L	0.012 I	1	0.0048	0.019	7440-38-2	08/03/08 16:55	07/31/08 08:00
Iron	6010	mg/L	2.0 V	1	0.0023	0.0092	7439-89-6	08/04/08 12:43	07/31/08 08:00
Manganese	6010	mg/L	0.029	1	0.0006	0.0024	7439-96-5	08/04/08 12:43	07/31/08 08:00
Sodium	6010	mg/L	` 47	1	0.011	0.044	7440-23-5	08/07/08 18:48	07/31/08 08:00
Total Alkalinity									
Date analyzed			8/5/2008	1				08/05/08 15:20	
Total Alkalinity as CaCO3	SM2320B	mg/L	360		1.2	5		08/05/08 15:20	
<u>Ammonia</u>									
Nitrogen Ammonia (as N)	350.2	mg/L	1.01	1	0.005	0.020		08/05/08 11:15	
Total Dissolved Solids									
Date Analyzed			8/4/08 S7	1				08/04/08 08:30	
Total Dissolved Solids	SM2540C	mg/L	856		7.26	29	PAR ENGLISHED	08/04/08 08:30	***************************************
Total Organic Carbon									
Date Analyzed			7/31/08 S7	1				07/31/08 15:00	
Total Organic Carbon	SM5310C	mg/L	7/51/00 37 75.1		0.271	1.084		07/31/08 15:00	

Laboratory ID Number - E84809



SunLabs Project Number

PBS&J

080731.01

Project Description **CEP Impl.** 

August 12, 2008

SunLabs Sample Number Sample Designation

70164 GW-4

Matrix

Groundwater

Date Collected

07/29/08 15:20

Date Received

07/31/08 07:55

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Anions by Ion Chromatography									
Date Analyzed			07/31/08	1				07/31/08 12:44	07/31/08 09:22
Chloride	300.0	mg/L	47	10	0.45	1.8		08/02/08 03:13	07/31/08 09:22
Nitrate-N	300.0	mg/L	0.014 U	1	0.014	0.056		07/31/08 12:44	07/31/08 09:22
Sulfate	300.0	mg/L	5.0	1	0.036	0.14		07/31/08 12:44	07/31/08 09:22
Metals by EPA Method 6010									
Date Digested	3010		7/31/2008						07/31/08 08:00
Date Analyzed			8/7/2008	1	.1 17.18011401			08/07/08 18:50	
Arsenic	6010	mg/L	0.0048 U	1	0.0048	0.019	7440-38-2	08/03/08 16:57	07/31/08 08:00
Iron	6010	mg/L	23 V	10	0.023	0.092	7439-89-6	08/04/08 15:56	07/31/08 08:00
Manganese	6010	mg/L	0.029	1	0.0006	0.0024	7439-96-5	08/04/08 12:46	07/31/08 08:00
Sodium	6010	mg/L	· 46	1	0.011	0.044	7440-23-5	08/07/08 18:50	07/31/08 08:00
Total Alkalinity									
Date analyzed			8/5/2008	1				08/05/08 15:30	
Total Alkalinity as CaCO3	SM2320B	mg/L	250		1.2	5	METERSON ST. 1 ST. T. S. T. S. S. S. S. S. S. S. S. S. S. S. S. S.	08/05/08 15:30	
<u>Ammonia</u>									
Nitrogen Ammonia (as N)	350.2	mg/L	2.15	1	0.005	0.020		08/05/08 11:15	
Total Dissolved Solids									
Date Analyzed			8/4/08 S7	1				08/04/08 08:30	
Total Dissolved Solids	SM2540C	mg/L	492		7.26	29		08/04/08 08:30	**************************************
Total Organic Carbon									
Date Analyzed			7/31/08 S7	1				07/31/08 15:00	
Total Organic Carbon	SM5310C	mg/L	51.6	-	0.271	1 084		07/31/08 15:00	



SunLabs **Project Number** 

080731.01

PBS&J

Project Description CEP Impl.

August 12, 2008

SunLabs Sample Number Sample Designation

70165 **GW-4 Filtered** 

Matrix

Groundwater

Date Collected Date Received

07/29/08 15:20 07/31/08 07:55

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Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Metals by EPA Method 6010 Date Digested	3010		7/31/2008						07/21/00 00:00
Date Analyzed	3010		8/7/2008	1				08/07/08 18:52	07/31/08 08:00
Arsenic	6010	mg/L	0.0048 U	1	0.0048	0.019	7440-38-2	08/03/08 16:59	07/31/08 08:00
Iron	6010	mg/L	22 V	10	0.023	0.092	7439-89-6	08/04/08 15:58	07/31/08 08:00
Manganese	6010	mg/L	0.027	1	0.0006	0.0024	7439-96-5	08/04/08 12:48	07/31/08 08:00
Sodium	6010	mg/L	47	1	0.011	0.044	7440-23-5	08/07/08 18:52	07/31/08 08:00

Laboratory ID Number - E84809



SunLabs Project Number

080731.01

PBS&J

**Project Description** CEP Impl.

August 12, 2008

SunLabs Sample Number Sample Designation

70166 GW-3

Matrix

Groundwater

Date Collected

07/29/08 14:10

Date Received

07/31/08 07:55

Parameters	Method	Units	Results	Dil Facto		RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Anions by Ion Chromatography									
Date Analyzed			07/31/08	1				07/31/08 12:12	07/31/08 09:22
Chloride	300.0	mg/L	38	5	0.22	0.9		08/02/08 06:54	07/31/08 09:22
Nitrate-N	300.0	mg/L	0.014 U	1	0.014	0.056		07/31/08 12:12	07/31/08 09:22
Sulfate	300.0	mg/L	0.036 U	1	0.036	0.14		07/31/08 12:12	
Metals by EPA Method 6010									
Date Digested	3010		7/31/2008						07/31/08 08:00
Date Analyzed			8/7/2008	1				08/07/08 18:54	07,01,00 00.00
Arsenic	6010	mg/L	0.0048 U	1	0.0048	0.019	7440-38-2	08/03/08 17:02	07/31/08 08:00
Iron	6010	mg/L	18 V	5	0.012	0.046	7439-89-6	08/04/08 16:00	07/31/08 08:00
Manganese	6010	mg/L	0.0052	1	0.0006	0.0024	7439-96-5	08/04/08 12:51	07/31/08 08:00
Sodium	6010	mg/L	16	1	0.011	0.044	7440-23-5	08/07/08 18:54	07/31/08 08:00
Total Alkalinity									
Date analyzed			8/5/2008	1				08/05/08 15:38	
Total Alkalinity as CaCO3	SM2320B	mg/L	40		1.2	5		08/05/08 15:38	THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE S
<u>Ammonia</u>									
Nitrogen Ammonia (as N)	350.2	mg/L	0.171	1	0.005	0.020		08/05/08 11:15	
Total Dissolved Solids									
Date Analyzed			8/4/08 S7	1				08/04/08 08:30	
Total Dissolved Solids	SM2540C	mg/L	188		7.26	29		08/04/08 08:30	THE THEIR COMMENTS AND A CONTRACTOR OF COMMENTS
Total Organic Carbon									
Date Analyzed			7/31/08 S7	1				07/31/08 15:00	
Total Organic Carbon	SM5310C	mg/L	6.78	_	0.271	1.084		07/31/08 15:00	

Laboratory ID Number - E84809



SunLabs Project Number

PBS&J

080731.01

Project Description

CEP Impl.

August 12, 2008

SunLabs Sample Number Sample Designation

70167 GW-1

Matrix

Groundwater

Date Collected

07/29/08 11:55

Date Received

07/31/08 07:55

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Anions by Ion Chromatography									
Date Analyzed			07/31/08	1				07/31/08 11:25	07/31/08 09:22
Chloride	300.0	mg/L	33	5	0.22	0.9		08/02/08 07:09	07/31/08 09:22
Nitrate-N	300.0	mg/L	0.014 U	1	0.014	0.056		07/31/08 11:25	07/31/08 09:22
Sulfate	300.0	mg/L	100	20	0.72	2.9		08/01/08 23:16	07/31/08 09:22
Metals by EPA Method 6010									
Date Digested	3010		7/31/2008						07/31/08 08:00
Date Analyzed			8/7/2008	1				08/07/08 18:56	a managan and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a samula and a sa
Arsenic	6010	mg/L	0.0048 U	1	0.0048	0.019	7440-38-2	08/03/08 17:04	07/31/08 08:00
Iron	6010	mg/L	1.4 V	1	0.0023	0.0092	7439-89-6	08/04/08 12:59	07/31/08 08:00
Manganese	6010	mg/L	0.016	1	0.0006	0.0024	7439-96-5	08/04/08 12:59	07/31/08 08:00
Sodium	6010	mg/L	14	1	0.011	0.044	7440-23-5	08/07/08 18:56	07/31/08 08:00
Total Alkalinity									
Date analyzed			8/5/2008	1				08/05/08 15:41	
Total Alkalinity as CaCO3	SM2320B	mg/L	160	1	1.2	5		08/05/08 15:41	· · · · · · · · · · · · · · · · · · ·
<u>Ammonia</u>									
Nitrogen Ammonia (as N)	350.2	mg/L	1.30	1	0.005	0.020		08/05/08 11:15	
Total Dissolved Solids									
Date Analyzed			8/4/08 S7	1				08/04/08 08:30	
Total Dissolved Solids	SM2540C	mg/L	532		7.26	29	Prince A 1 of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the con	08/04/08 08:30	
Total Organic Carbon									
Date Analyzed			7/31/08 S7	1				07/31/08 15:00	
Total Organic Carbon	SM5310C	mg/L	18.5		0.271	1.084		07/31/08 15:00	



SunLabs Project Number

080731.01

PBS&J

Project Description

CEP Impl.

August 12, 2008

SunLabs Sample Number Sample Designation

70168 GW-5

Matrix

Groundwater

Date Collected

07/29/08 16:30

Date Received 0

07/31/08 07:55

Parameters	Method	Units	Results	Dil Facto	MDL r	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Anions by Ion Chromatography									
Date Analyzed			07/31/08	1				07/31/08 13:47	07/31/08 09:22
Chloride	300.0	mg/L	140	20	0.9	3.6		08/02/08 00:19	07/31/08 09:22
Nitrate-N	300.0	mg/L	0.014 U	1	0.014	0.056		07/31/08 13:47	07/31/08 09:22
Sulfate	300.0	mg/L	11	5	0.18	0.72		08/02/08 07:25	07/31/08 09:22
Metals by EPA Method 6010									
Date Digested	3010		7/31/2008						07/31/08 08:00
Date Analyzed			8/7/2008	1				08/07/08 18:58	
Arsenic	6010	mg/L	0.021	1	0.0048	0.019	7440-38-2	08/03/08 17:06	07/31/08 08:00
Iron	6010	mg/L	48 V	20	0.046	0.18	7439-89-6	08/04/08 16:03	07/31/08 08:00
Manganese	6010	mg/L	0.11	1	0.0006	0.0024	7439-96-5	08/04/08 13:01	07/31/08 08:00
Sodium	6010	mg/L	79	1	0.011	0.044	7440-23-5	08/07/08 18:58	07/31/08 08:00
Total Alkalinity									
Date analyzed			8/5/2008	1				08/05/08 15:48	
Total Alkalinity as CaCO3	SM2320B	mg/L	430		1.2	5		08/05/08 15:48	****
<u>Ammonia</u>									
Nitrogen Ammonia (as N)	350.2	mg/L	0.115	1	0.005	0.020		08/05/08 11:15	
Total Dissolved Solids									
Date Analyzed			8/4/08 S7	1				08/04/08 08:30	
Total Dissolved Solids	SM2540C	mg/L	828	************	7.26	29	***************************************	08/04/08 08:30	**************************************
Total Organic Carbon									
Date Analyzed			7/31/08 S7	1				07/31/08 15:00	
Total Organic Carbon	SM5310C	mg/L	41.9		0.271	1.084		07/31/08 15:00	

Laboratory ID Number - E84809



SunLabs **Project Number** 

080731.01

PBS&J

Project Description CEP Impl.

August 12, 2008

SunLabs Sample Number Sample Designation

70172 **GW-9** 

Matrix

Date Collected

Groundwater

07/30/08 13:10

Date Received

07/31/08 07:55

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Anions by Ion Chromatography									
Date Analyzed			07/31/08					07/24/00 40:24	07/24/02 00 00
Chloride	300.0	mg/L	120	1 20	0.9	3.6		07/31/08 19:34 08/02/08 00:35	07/31/08 09:22 07/31/08 09:22
Nitrate-N	300.0	mg/L	0.014 U		0.014	0.056		07/31/08 19:34	07/31/08 09:22
Sulfate	300.0	mg/L	0.014 U	-	0.036	0.14	**/****/##############################	07/31/08 19:34	07/31/08 09:22
Metals by EPA Method 6010									
Date Digested	3010		7/31/2008						07/31/08 08:00
Date Analyzed	100.b = 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0	* ** *******************	8/7/2008	1				08/07/08 19:11	07,02,00 00.00
Arsenic	6010	mg/L	0.0048 U		0.0048	0.019	7440-38-2	08/03/08 17:16	07/31/08 08:00
Iron	6010	mg/L	60 V	20	0.046	0.18	7439-89-6	08/04/08 16:17	07/31/08 08:00
Manganese	6010	mg/L	0.031	1	0.0006	0.0024	7439-96-5	08/04/08 13:12	07/31/08 08:00
Sodium	6010	mg/L	93	1	0.011	0.044	7440-23-5	08/07/08 19:11	07/31/08 08:00
Total Alkalinity									
Date analyzed			8/6/2008	1				08/06/08 11:01	
Total Alkalinity as CaCO3	SM2320B	mg/L	410	_	1.2	5		08/06/08 11:01	
<u>Ammonia</u>									
Nitrogen Ammonia (as N)	350.2	mg/L	0.498	1	0.005	0.020		08/05/08 11:15	
Total Dissolved Solids									
Date Analyzed			8/5/08 S7	1				08/05/08 09:00	
Total Dissolved Solids	SM2540C	mg/L	848		7.26	29		08/05/08 09:00	times who sample would come on
Total Organic Carbon									
Date Analyzed			7/31/08 S7	1				07/31/08 15:00	
Total Organic Carbon	SM5310C	mg/L	90		0.271	1.084		07/31/08 15:00	

Laboratory ID Number - E84809



SunLabs Project Number

080731.13

PBS&J

Project Description

CEP Impl.

August 14, 2008

SunLabs Sample Number Sample Designation

70278 CW-9

Matrix

Groundwater

Date Collected
Date Received

07/30/08 14:40 07/31/08 13:10

Parameters	Method	Units	Results	Dil Fact	MDL	. RL	CAS Number	Date/Time	Date/Time
	144.144.144.144.144.144.144.144.144.144				JI	***************************************	Number	Analyzed	Prep
Anions by Ion Chromatography									
Date Analyzed			07/31/08	1				07/24/00 22 22	
Chloride	300.0	mg/L	30	5	0.22	0.9		07/31/08 22:03	07/31/08 15:30
Nitrate-N	300.0	mg/L	0.014 U		0.22	0.9		08/02/08 07:41	07/31/08 15:30
Sulfate	300.0	mg/L	110	50	1.8	7.2		07/31/08 22:03 08/01/08 21:25	07/31/08 15:30 07/31/08 15:30
Metals by EPA Method 6010									75-75-5
Date Digested	3010		8/1/2008						
Date Analyzed			8/7/2008	1				00/07/00 40 5	08/01/08 08:30
Arsenic	6010	mg/L	0.053	1	0.0048	0.010	<b>7440-38-</b> 2	08/07/08 19:24	
Iron	6010	mg/L	16 V	5	0.0048	0.019	7439-89-6	08/05/08 17:07	08/01/08 08:30
Manganese	6010	mg/L	0.043	1	0.0006	0.0024	7439-89-6 7439-96-5	08/04/08 16:22	08/01/08 08:30
Sodium	6010	mg/L	48	1	0.0000	0.0024	7440-23-5	08/04/08 13:33 08/07/08 19:24	08/01/08 08:30 08/01/08 08:30
Total Alkalinity									. ,
Date analyzed			0/6/2000						
Total Alkalinity as CaCO3	SM2320B	/I	8/6/2008	1				08/06/08 11:14	
7 33 33 33 33 33 33 33 33 33 33 33 33 33	31123208	mg/L	550	1	1.2	5		08/06/08 11:14	The second second second second
<u>Ammonia</u>									
Nitrogen Ammonia (as N)	350.2	mg/L	3.10	1	0.005	0.020		08/07/08 11:10	
<u> </u>									
Date Analyzed			8/5/08 S7						
Total Dissolved Solids	SM2540C	mg/L	976	1	7.26	30.04		08/05/08 09:00	**************************************
	525 100	g/L	370	1	7.20	29.04		08/05/08 09:00	
<u> Total Organic Carbon</u>									
Pate Analyzed			8/10/08 S7	1				08/10/08 12:50	
otal Organic Carbon	SM5310C	mg/L	38.3	1	0.271	1.084		08/10/08 12:50	



SunLabs **Project Number** 

080731.13

PBS&J

Project Description

CEP Impl.

August 14, 2008

SunLabs Sample Number 70279 Sample Designation

**MW-9** 

Matrix

Groundwater 07/30/08 16:25

Date Collected Date Received

07/31/08 13:10

Parameters	Method	Units	Results	Dil Facto	MDL	RL	CAS Number	Date/Time	Date/Time
	TO AN ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND ARCHITECTURE (1981) AND		7777.778.88	racu	<i></i>		Number	Analyzed	Prep
Anions by Ion Chromatography									
Date Analyzed			07/31/08	1				07/21/00 22:10	07/24/00 45 55
Chloride	300.0	mg/L	43	10	0.45	1.8		07/31/08 22:18 08/02/08 04:00	07/31/08 15:30
Nitrate-N	300.0	mg/L	0.16	1	0.014	0.056		07/31/08 22:18	07/31/08 15:30
Sulfate	300.0	mg/L	0.036 U	1	0.036	0.030		07/31/08 22:18	07/31/08 15:30 07/31/08 15:30
Metals by EPA Method 6010							**************************************		
Date Digested	3010		8/1/2008						00/01/00 00 00
Date Analyzed			8/7/2008	1				09/07/09 10:20	08/01/08 08:30
Arsenic	6010	mg/L	0.052	1	0.0048	0.010	7440-38-2	08/07/08 19:26	00/04/00 00 00
Iron	6010	mg/L	44 V	20	0.046	0.013	7439-89-6	08/05/08 17:09 08/04/08 16:24	08/01/08 08:30
Manganese	6010	mg/L	0.032	1	0.0006		7439-96-5	08/04/08 13:35	08/01/08 08:30
Sodium	6010	mg/L	45	1	0.000	0.044	7440-23-5	08/07/08 19:26	08/01/08 08:30 08/01/08 08:30
Total Alkalinity									
Date analyzed			0/6/2000						
Total Alkalinity as CaCO3	SM2320B		8/6/2008	1		_		08/06/08 13:33	
	31123206	mg/L	850	1	1.2	5	***************************************	08/06/08 13:33	
<u>Ammonia</u>									
Nitrogen Ammonia (as N)	350.2	mg/L	13.8	1	0.005	0.020		08/07/08 11:10	
Total Dissolved Solids									
Date Analyzed			8/5/08 S7	1				00/05/00 00 00	
Total Dissolved Solids	SM2540C	mg/L	1024	1	7.26	29.04	***************************************	08/05/08 09:00 08/05/08 09:00	the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the sect
Total Organic Carbon									
Date Analyzed			0.140.100 5-						
Total Organic Carbon	SM5310C	//	8/10/08 S7	1				08/10/08 14:00	
	JUL CCIVIC	mg/L	61.8	1	0.271	1.084		08/10/08 14:00	

Laboratory ID Number - E84809



SunLabs **Project Number** 

080731.13

Project Description CEP Impl.

PBS&J

August 14, 2008

SunLabs Sample Number Sample Designation

70280 **DUP** 

Matrix

Groundwater

Date Collected

07/30/08 14:40

Date Received

07/31/08 13:10

Parameters	Method	Units	Results	Dil Fact	MDL or	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Anions by Ion Chromatography									
Date Analyzed			07/31/08	1				07/31/08 22:34	07/31/08 15:30
Chloride	300.0	mg/L	30	5	0.22	0.9		08/02/08 07:57	07/31/08 15:30
Nitrate-N	300.0	mg/L	0.014 U	1	0.014	0.056		07/31/08 22:34	07/31/08 15:30
Sulfate	300.0	mg/L	133	50	1.8	7.2		08/01/08 21:41	07/31/08 15:30
Metals by EPA Method 6010									
Date Digested	3010		8/1/2008						08/01/08 08:30
Date Analyzed	THE RESERVE OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE	**************************************	8/7/2008	1		*** ************		08/07/08 19:29	00,01,00 00.30
Arsenic	6010	mg/L	0.038	1	0.0048	0.019	7440-38-2	08/05/08 17:12	08/01/08 08:30
Iron	6010	mg/L	12 V	5	0.012	0.046	7439-89-6	08/04/08 16:27	08/01/08 08:30
Manganese	6010	mg/L	0.045	1	0.0006	0.0024	7439-96-5	08/04/08 13:38	08/01/08 08:30
Sodium	6010	mg/L	· ´ 46	1	0.011	0.044	7440-23-5	08/07/08 19:29	08/01/08 08:30
Total Alkalinity									
Date analyzed			8/6/2008	1				08/06/08 13:54	
Total Alkalinity as CaCO3	SM2320B	mg/L	530	1	1.2	5		08/06/08 13:54	
Ammonia									
Nitrogen Ammonia (as N)	350.2	mg/L	1.78	1	0.005	0.020		08/07/08 11:10	
Total Dissolved Solids									
Date Analyzed			8/5/08 S7	1				08/05/08 09:00	
Total Dissolved Solids	SM2540C	mg/L	924	1	7.26	29.04		08/05/08 09:00	***************************************
Total Organic Carbon									
Date Analyzed			8/10/08 S7	1				08/10/08 12:50	
Total Organic Carbon	SM5310C	mg/L	37.6	1	0.271	1.084		08/10/08 12:50	

Laboratory ID Number - E84809

Page 3 of 19

Tampa, Florida 33634

5460 Beaumont Center Blvd., Suite 520

Email: Info@SunLabsInc.com



SunLabs Project Number

080731.13

PBS&J

Project Description

CEP Impl.

August 14, 2008

SunLabs Sample Number Sample Designation

70281 GW-12

Matrix

Groundwater

Date Collected

07/30/08 16:20

Date Received

07/31/08 13:10

Parameters	Method	Units	Results	Dil Facto	MDL or	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Anions by Ion Chromatography									
Date Analyzed			07/24/00						
Chloride	300.0	mg/L	07/31/08 43	1	0.45			07/31/08 22:50	07/31/08 15:30
Nitrate-N	300.0	mg/L	0.014 U	10	0.45	1.8		08/02/08 04:16	07/31/08 15:30
Sulfate	300.0	mg/L	350	1 50	0.014 1.8	0.056 7.2		07/31/08 22:50 08/01/08 21:57	07/31/08 15:30 07/31/08 15:30
Metals by EPA Method 6010								***************************************	
Date Digested	3010		8/1/2008						
Date Analyzed			8/7/2008	1	***************************************			00/0=/02	08/01/08 08:30
Arsenic	6010	mg/L	0.008 I	1	0.0048	0.010	7440-38-2	08/07/08 19:31	
Iron	6010	mg/L	12 V	5	0.0048	0.019	7440-38-2 7439-89-6	08/05/08 17:14	08/01/08 08:30
Manganese	6010	mg/L	0.065	1		0.0024	7439-96-5	08/04/08 16:29	08/01/08 08:30
Sodium	6010	mg/L	84	1	0.0000	0.0024	7440-23-5	08/04/08 13:41 08/07/08 19:31	08/01/08 08:30 08/01/08 08:30
Total Alkalinity									
Date analyzed									
Total Alkalinity as CaCO3	CMARAON		8/6/2008	1				08/06/08 14:48	
Total Alkalility as CaCO3	SM2320B	mg/L	380	1	1.2	5	···· ···	08/06/08 14:48	
<u>Ammonia</u>									
Nitrogen Ammonia (as N)	350.2	mg/L	6.66	1	0.005	0.020		08/07/08 11:10	
Total Dissolved Solids						V 111100000			
Date Analyzed									
Total Dissolved Solids	CM3F40C		8/5/08 S7	1				08/05/08 09:00	
. Casa Casa Solida	SM2540C	mg/L	1196	1	7.26	29.04		08/05/08 09:00	
Total Organic Carbon									
Date Analyzed			9/10/09 67					20112122	
Total Organic Carbon	SM5310C	mg/L	8/10/08 S7	1	0.274			08/10/08 12:50	
The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	31133100	IIIg/L	47.4	1	0.271	1.084		08/10/08 12:50	



SunLabs Project Number

080731.13

PBS&J

Project Description

CEP Impl.

August 14, 2008

SunLabs Sample Number Sample Designation

70282 DGW-3

Matrix

Groundwater

Date Collected

07/30/08 15:08

Date Received

07/31/08 13:10

Parameters	Method	Units	Results	Dil Facto		RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Anions by Ion Chromatography									
Date Analyzed			07/31/08	1				07/31/08 23:06	07/31/08 15:30
Chloride	300.0	mg/L	45	10	0.45	1.8		08/02/08 04:32	07/31/08 15:30
Nitrate-N	300.0	mg/L	0.014 U	1	0.014	0.056	**************************************	07/31/08 23:06	07/31/08 15:30
Sulfate	300.0	mg/L	1.8	1	0.036	0.14	000 obs 1 to 1 to 2 to 2 to 2 to 2 to 2 to 2 to	07/31/08 23:06	07/31/08 15:30
Metals by EPA Method 6010									
Date Digested	3010		8/1/2008						08/01/08 08:30
Date Analyzed			8/7/2008	1	***************************************			08/07/08 19:37	00,01,00 00.50
Arsenic	6010	mg/L	0.008 I		0.0048	0.019	7440-38-2	08/05/08 17:16	08/01/08 08:30
Iron	6010	mg/L	17 V		0.012	0.046	7439-89-6	08/04/08 16:31	08/01/08 08:30
Manganese	6010	mg/L	0.017	1	0.0006	0.0024	7439-96-5	08/04/08 13:43	08/01/08 08:30
Sodium	6010	mg/L	38		0.011	0.044	7440-23-5	08/07/08 19:37	08/01/08 08:30
Total Alkalinity									
Date analyzed			8/6/2008	1				08/06/08 14:58	
Total Alkalinity as CaCO3	SM2320B	mg/L	310		1.2	5	***************************************	08/06/08 14:58	
<u>Ammonia</u>									
Nitrogen Ammonia (as N)	350.2	mg/L	0.382	1	0.005	0.020		08/07/08 11:10	
Total Dissolved Solids									
Date Analyzed			8/5/08 S7	1				08/05/08 09:00	
Total Dissolved Solids	SM2540C	mg/L	532		7.26	29.04		08/05/08 09:00	P-91-71 F-77
Total Organic Carbon									
Date Analyzed			8/10/08 S7	1				08/10/08 12:50	
Total Organic Carbon	SM5310C		3/10/00 3/	T				00/10/08 12:50	



SunLabs Project Number

080731.13

PBS&J

Project Description

CEP Impl.

August 14, 2008

SunLabs Sample Number Sample Designation

70283

**DGW-3 Filtered** 

Matrix

Groundwater

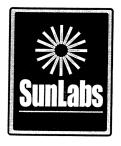
Date Collected

07/30/08 15:08

Date Received

07/31/08 13:10

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Metals by EPA Method 6010									
Date Digested	3010		8/1/2008						00/04/00 00 00
Date Analyzed			8/7/2008	1				08/07/08 19:39	08/01/08 08:30
Arsenic	6010	mg/L		1	0.0048	0.019	7440-38-2	08/05/08 17:28	08/01/08 08:30
Iron	6010	mg/L	17 V	5	0.012	0.046	7439-89-6	08/04/08 16:39	08/01/08 08:30
Manganese	6010	mg/L	0.016		0.0006	0.0024	7439-96-5	08/04/08 13:46	08/01/08 08:30
Sodium	6010	mg/L	42	1	0.011	0.044	7440-23-5	08/07/08 19:39	08/01/08 08:30



SunLabs Project Number

080731.13

PBS&J

Project Description

CEP Impl.

August 14, 2008

SunLabs Sample Number Sample Designation

70284 GW-7

Matrix

Groundwater

Date Collected

07/30/08 11:48

Date Received

07/31/08 13:10

Parameters	Method	Units	Results	Dil Facto	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Anions by Ion Chromatography									
Date Analyzed			07/31/08	1				07/31/08 23:21	07/31/08 15:30
Chloride	300.0	mg/L	15	2	0.09	0.36		08/02/08 09:47	07/31/08 15:30
Nitrate-N	300.0	mg/L	0.15	1	0.014	0.056		07/31/08 23:21	07/31/08 15:30
Sulfate	300.0	mg/L	3.3	1	0.036	0.14		07/31/08 23:21	07/31/08 15:30
Metals by EPA Method 6010									
Date Digested	3010		8/1/2008						08/01/08 08:30
Date Analyzed			8/7/2008	1				08/07/08 19:42	00/01/00 08:30
Arsenic	6010	mg/L	0.019	1	0.0048	0.019	7440-38-2	08/05/08 17:31	08/01/08 08:30
Iron	6010	mg/L	50 V	20	0.046	0.18	7439-89-6	08/04/08 16:41	08/01/08 08:30
Manganese	6010	mg/L	0.018	1	0.0006	0.0024	7439-96-5	08/04/08 13:49	08/01/08 08:30
Sodium	6010	mg/L	14			0.044	7440-23-5	08/07/08 19:42	08/01/08 08:30
Total Alkalinity									
Date analyzed			8/6/2008	1				08/06/08 15:07	
Total Alkalinity as CaCO3	SM2320B	mg/L	320		1.2	5		08/06/08 15:07	
<u>Ammonia</u>									P. C. C. C. C. C. C. C. C. C. C. C. C. C.
Nitrogen Ammonia (as N)	350.2	mg/L	. 11.7	1	0.005	0.020		08/07/08 11:10	
Total Dissolved Solids									
Date Analyzed			8/5/08 S7					00/05/00 00 00	
Total Dissolved Solids	SM2540C	mg/L	484	1	7.26	29.04	***************************************	08/05/08 09:00 08/05/08 09:00	***************************************
Total Organic Carbon		<u>.</u>		_				,,	
Date Analyzed			8/10/08 S7	1				08/10/08 12:50	
Total Organic Carbon	SM5310C	mg/L	52.3	1	0.271	1.084		08/10/08 12:50	

Laboratory ID Number - E84809



SunLabs **Project Number** 

080731.13

PBS&J

Project Description

CEP Impl.

August 14, 2008

SunLabs Sample Number 70285 Sample Designation

**GW-7 Filtered** 

Matrix

Groundwater

Date Collected

07/30/08 11:48

Date Received

07/31/08 13:10

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Metals by EPA Method 6010  Date Digested Date Analyzed	3010		8/1/2008 8/7/2008	1				08/07/08 19:44	08/01/08 08:30
Arsenic Iron Manganese Sodium	6010 6010 6010 6010	mg/L mg/L mg/L ma/L	0.017 I 46 V 0.011 15	20 1	0.0048 0.046 0.0006 0.011	0.18	7440-38-2 7439-89-6 7439-96-5 7440-23-5	08/05/08 17:33 08/04/08 16:44 08/04/08 13:51	08/01/08 08:30 08/01/08 08:30 08/01/08 08:30 08/01/08 08:30



SunLabs **Project Number** 

080731.13

PBS&J

Project Description

CEP Impl.

August 14, 2008

SunLabs Sample Number Sample Designation

70286 DUP/GW-7

Matrix

Groundwater

Date Collected

07/30/08 11:48

Date Received

07/31/08 13:10

Parameters	Method	Units	Results	Dil Factor		RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Anions by Ion Chromatography									
Date Analyzed			07/31/08	1				07/31/08 23:37	07/31/08 15:30
Chloride	300.0	mg/L	16	2	0.09	0.36		08/02/08 10:03	07/31/08 15:30
Nitrate-N	300.0	mg/L	0.14	1	0.014	0.056		07/31/08 23:37	07/31/08 15:30
Sulfate	300.0	mg/L	6.4	1	0.036	0.14	******************************	07/31/08 23:37	07/31/08 15:30
Metals by EPA Method 6010									
Date Digested	3010		8/1/2008						08/01/08 08:30
Date Analyzed			8/7/2008	1	/ //*/.hi*thth41			08/07/08 19:46	00,01,00 00.50
Arsenic	6010	mg/L	0.021		0.0048	0.019	7440-38-2	08/05/08 17:35	08/01/08 08:30
Iron	6010	mg/L	75 V		0.12	0.46	7439-89-6	08/04/08 16:46	08/01/08 08:30
Manganese	6010	mg/L	0.073	1	0.0006	0.0024	7439-96-5	08/04/08 13:54	08/01/08 08:30
Sodium	6010	mg/L	16	1	0.011	0.044	7440-23-5	08/07/08 19:46	08/01/08 08:30
Total Alkalinity									
Date analyzed			8/6/2008	1				08/06/08 15:20	
Total Alkalinity as CaCO3	SM2320B	mg/L	320		1.2	5		08/06/08 15:20	THE PERSON NAMED ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSES
<u>Ammonia</u>									
Nitrogen Ammonia (as N)	350.2	mg/L	11.2	1	0.005	0.020		08/07/08 11:10	
Total Dissolved Solids									
Date Analyzed			8/5/08 S7	1				08/05/08 09:00	
Total Dissolved Solids	SM2540C	mg/L	460		7.26	29.04		08/05/08 09:00	
Total Organic Carbon									
Date Analyzed			8/10/08 S7					00/10/00 10	
Total Organic Carbon	SM5310C	ma/I		1				08/10/08 12:50	
, can organic carpon	טונכויוכ	mg/L	58.3	1	0.271	1.084		08/10/08 12:50	



SunLabs **Project Number** 

080731.13

PBS&J

Project Description

CEP Impl.

August 14, 2008

SunLabs Sample Number 70287 Sample Designation

**DUP/GW-7 Filtered** 

Matrix

Groundwater

Date Collected

07/30/08 11:48

Date Received

07/31/08 13:10

Parameters	Method	Units	Results	Dil Factor		RL	CAS Number	Date/Time	Date/Time Prep
Metals by EPA Method 6010 Date Digested	2010		0/4/0000						
Date Analyzed	3010		8/1/2008 8/7/2008	1				08/07/08 19:48	08/01/08 08:30
Arsenic	6010	mg/L	0.019	1	0.0048	0.019	7440-38-2	08/05/08 17:38	08/01/08 08:30
Iron	6010	mg/L	46 V	20	0.046	0.18	7439-89-6	08/04/08 16:51	08/01/08 08:30
Manganese	6010	mg/L	0.011	1	0.0006	0.0024	7439-96-5	08/04/08 14:02	08/01/08 08:30
Sodium	6010	mg/L	14	1	0.011	0.044	7440-23-5	08/07/08 19:48	08/01/08 08:30



SunLabs Project Number

080731.13

PBS&J

Project Description

CEP Impl.

August 14, 2008

SunLabs Sample Number Sample Designation

70288 GW-8

Matrix

Groundwater

Date Collected
Date Received

07/30/08 13:58 07/31/08 13:10

Parameters	Method	Units	Results	Dil Fact	MDL	. RL	CAS Number	Date/Time Analyzed	Date/Time Prep
				V				,	
Anions by Ion Chromatography									
Date Analyzed			08/01/08	1				00/04/05	
Chloride	300.0	mg/L	120	20	0.9	3.6		08/01/08 00:40	07/31/08 15:30
Nitrate-N	300.0	mg/L	0.014 U	20 1	0.014	0.056		08/02/08 00:51	07/31/08 15:30
Sulfate	300.0	mg/L	470	50	1.8	7.2		08/01/08 00:40 08/01/08 22:13	07/31/08 15:30 07/31/08 15:30
Metals by EPA Method 6010		7/81						33/01/00 22:13	07/31/00 13.30
Date Digested	3010		8/1/2008						
Date Analyzed			8/8/2008						08/01/08 08:30
Arsenic	6010	mg/L	0,0/2008 0.007 I	10	0.0040			08/08/08 16:36	
Iron	6010	mg/L	0.007 I 14 V	11	0.0048		7440-38-2	08/05/08 17:40	08/01/08 08:30
Manganese	6010	mg/L	0.036	5	0.012	0.046	7439-89-6	08/04/08 16:53	08/01/08 08:30
Sodium	6010	mg/L	460	10	0.0006 0.11	0.0024	7439-96-5 7440-23-5	08/04/08 14:04 08/08/08 16:36	08/01/08 08:30 08/01/08 08:30
Total Alkalinity		<i>3,</i>		10		0.11	7110 25 5	00/00/08 10.36	06/01/08 08:30
Date analyzed			8/6/2008	1				08/06/08 15:33	
Total Alkalinity as CaCO3	SM2320B	mg/L	1100	1	1.2	5		08/06/08 15:33	
<u>Ammonia</u>									AND IN COMPANY OF THE PARK PARK
Nitrogen Ammonia (as N)	350.2	mg/L	1.06	1	0.005	0.020		08/07/08 11:10	
Total Dissolved Solids								· ····································	
Date Analyzed									
Total Dissolved Solids	CNOCAGO		8/5/08 S7	1		W/80000		08/05/08 09:00	
Julius Dissolved Solids	SM2540C	mg/L	2216	1	7.26	29.04		08/05/08 09:00	
Total Organic Carbon									
Pate Analyzed			8/10/08 S7	1				00/10/00 12 ==	
Total Organic Carbon	SM5310C	mg/L	43.8	1	0.271	1.084		08/10/08 12:50	
and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t	o and a constitute making a constitution of	1119/1	TJ.0		0.2/1	1.084		08/10/08 12:50	

Laboratory ID Number - E84809



SunLabs Project Number

080731.13

PBS&J

Project Description

CEP Impl.

August 14, 2008

SunLabs Sample Number Sample Designation

70289 DGW-4

Matrix

4

Groundwater 07/30/08 10:22

Date Collected
Date Received

07/31/08 13:10

Parameters	Method	Units	Results	Dil Facto	MDL or	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
	77.00					/// *** ******************************	1. habada		TICP
Anions by Ion Chromatography									
Date Analyzed			08/01/08	1				08/01/08 00:56	07/71/00 +5 20
Chloride	300.0	mg/L	260	50	2.2	9		08/01/08 00:36	07/31/08 15:30 07/31/08 15:30
Nitrate-N	300.0	mg/L	0.014 U	1	0.014	0.056		08/01/08 22:29	07/31/08 15:30
Sulfate	300.0	mg/L	0.036 U	1	0.036	0.14		08/01/08 00:56	07/31/08 15:30
Metals by EPA Method 6010			,						
Date Digested	3010		8/1/2008						00/01/00 00 20
Date Analyzed			8/8/2008	2	F11*-1	92 (COM)	*****	08/08/08 16:38	08/01/08 08:30
Arsenic	6010	mg/L	0.0048 U	1	0.0048	0.010	7440-38-2	08/05/08 17:42	00/04/00 00 00
Iron	6010	mg/L	17 V	5	0.012	0.046	7439-89-6	08/04/08 16:55	08/01/08 08:30
Manganese	6010	mg/L	0.019	1		0.0024	7439-96-5	08/04/08 14:07	08/01/08 08:30
Sodium	6010	mg/L	120	2	0.022	0.088	7440-23-5	08/08/08 16:38	08/01/08 08:30 08/01/08 08:30
Total Alkalinity									
Date analyzed			8/6/2008						
Total Alkalinity as CaCO3	SM2320B	mg/L	380	1	4.0	_		08/06/08 16:06	
	3F12J2UB	IIIG/L	380	1	1.2	5	FF (3)	08/06/08 16:06	
<u>Ammonia</u>									
Nitrogen Ammonia (as N)	350.2	mg/L	0.450	1	0.005	0.020		08/07/08 11:10	
Total Dissolved Solids									
Date Analyzed			8/5/08 S7	1				00/05/00 00 00	
Total Dissolved Solids	SM2540C	mg/L	1012	1	7.26	29.04		08/05/08 09:00	
	0. 125 .00	mg/ L	1012	1	1.20	23.07		08/05/08 09:00	
Total Organic Carbon									
Date Analyzed			8/10/08 S7	1				09/10/09 13:50	
Total Organic Carbon	SM5310C	mg/L	29.1		0.271	1.084		08/10/08 12:50	
The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s		9/ -	47.1		0.4/1	1.004		08/10/08 12:50	

Laboratory ID Number - E84809



SunLabs Project Number

080731.01

PBS&J

Project Description

CEP Impl.

August 12, 2008

SunLabs Sample Number Sample Designation

70169 GW-14

Matrix

Groundwater

Date Collected

07/30/08 10:10

Date F	acai	wood

07/31/08 07:55

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Anions by Ion Chromatography									
Date Analyzed			07/31/08					07/24/00 44.00	
Chloride	300.0	mg/L	210	1 50	2.2	9		07/31/08 14:03	07/31/08 09:22
Nitrate-N	300.0	mg/L	0.014 U		0.014	0.056		08/01/08 20:22	07/31/08 09:22
Sulfate	300.0	mg/L	47	-	0.36	1.4		07/31/08 14:03 08/02/08 03:28	07/31/08 09:22 07/31/08 09:22
Metals by EPA Method 6010									
Date Digested	3010		7/31/2008						07/04/04 44
Date Analyzed	· · · · · · · · · · · · · · · · · · ·		8/8/2008	5				08/08/08 16:34	07/31/08 08:00
Arsenic	6010	mg/L	0.015 I	-	0.0048	0.019	7440-38-2	08/03/08 16:34	07/21/00 00:00
Iron	6010	mg/L	14 V	. *************************************	0.012	0.046	7439-89-6	08/04/08 16:10	07/31/08 08:00 07/31/08 08:00
Manganese	6010	mg/L	0.041	-		0.0024	7439-96-5	08/04/08 13:04	07/31/08 08:00
Sodium	6010	mg/L	170			0.22	7440-23-5	08/08/08 16:34	07/31/08 08:00
Total Alkalinity									
Date analyzed			8/5/2008	1				00/05/00 45.50	
Total Alkalinity as CaCO3	SM2320B	mg/L	590		1.2	5		08/05/08 15:59 08/05/08 15:59	
<u>Ammonia</u>								The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	
Nitrogen Ammonia (as N)	350.2	mg/L	1.87	1 (	0.005	0.020		08/05/08 11:15	
Total Dissolved Solids									
Date Analyzed			8/5/08 S7						
Total Dissolved Solids	SM2540C	mg/L	1180	1 1 7	.26	29		08/05/08 09:00 08/05/08 09:00	· · · · · · · · · · · · · · · · · · ·
Total Organic Carbon		<i>3.</i>			-			00,00,00	
Date Analyzed			7/31/08 S7	1				07/31/08 15:00	
Total Organic Carbon	SM5310C	mg/L	41.5	1 0	.271	1.084		07/31/08 15:00	



SunLabs Project Number

080731.13

PBS&J

Project Description

CEP Impl.

August 14, 2008

SunLabs Sample Number Sample Designation

70290

**DGW-4 Filtered** 

Matrix

Groundwater

Date Collected

ounawater

Date Received

07/30/08 10:22 07/31/08 13:10

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Metals by EPA Method 6010 Date Digested	3010		8/1/2008						
Date Analyzed			8/8/2008	2				08/08/08 16:40	08/01/08 08:30
Arsenic	6010	mg/L	0.0048 U	1	0.0048	0.019	7440-38-2	08/05/08 17:45	08/01/08 08:30
Iron	6010	mg/L	16 V		0.012	0.046	7439-89-6	08/04/08 16:58	08/01/08 08:30
Manganese	6010	mg/L	0.017		0.0006	0.0024	7439-96-5	08/04/08 14:10	08/01/08 08:30
Sodium	6010	mg/L	120	2	0.022	0.088	7440-23-5	08/08/08 16:40	08/01/08 08:30



SunLabs Project Number

080731.01

PBS&J

Project Description

CEP Impl.

August 12, 2008

SunLabs Sample Number Sample Designation

70170 GW-13

Matrix

Groundwater

Date Collected

07/30/08 11:30

Date Received

07/31/08 07:55

Method	Units	Results	Dil Fact		RL	CAS Number	Date/Time Analyzed	Date/Time Prep
							793	
		07/31/08	1				07/31/08 14:19	07/31/08 09:22
300.0	mg/L	70	10	0.45	1.8			07/31/08 09:22
300.0	mg/L	0.014 U	1	0.014	0.056			07/31/08 09:22
300.0	mg/L	0.036 U	1	0.036	0.14			
3010		7/31/2008						07/31/08 08:00
		8/7/2008	1				08/07/08 19:03	37,32,30 00.00
6010	mg/L	0.0048 U	1	0.0048	0.019	7440-38-2		07/31/08 08:00
6010	mg/L	48 V	20	0.046	0.18	7439-89-6	40 000	07/31/08 08:00
6010	mg/L	0.019	1	0.0006	0.0024	7439-96-5		07/31/08 08:00
6010	mg/L	. 76	1	0.011	0.044	7440-23-5	08/07/08 19:03	07/31/08 08:00
		8/5/2008	1				08/05/08 16:17	
SM2320B	mg/L	570	1	1.2	5		08/05/08 16:17	
350.2	mg/L	0.438	1	0.005	0.020		08/05/08 11:15	
		8/5/08 S7	1				08/05/08 09:00	
SM2540C	mg/L	844	1	7.26	29		08/05/08 09:00	
		7/31/08 57	1				07/31/09 15:00	
SM5310C	mg/L	40.4	1	0.271	1.084		07/31/08 15:00	
	300.0 300.0 300.0 3010 6010 6010 6010 SM2320B 350.2	300.0 mg/L 300.0 mg/L 300.0 mg/L 3010  6010 mg/L 6010 mg/L 6010 mg/L 6010 mg/L 5010 mg/L SM2320B mg/L  SM2320B mg/L  SM2540C mg/L	300.0 mg/L 70 300.0 mg/L 0.014 U 300.0 mg/L 0.036 U  3010 7/31/2008 8/7/2008 6010 mg/L 0.0048 U 6010 mg/L 48 V 6010 mg/L 0.019 6010 mg/L 76  8/5/2008 SM2320B mg/L 570  350.2 mg/L 0.438  8/5/08 S7 SM2540C mg/L 844	Facts    1	Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   T	Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   Tactor   T	07/31/08   1   300.0   mg/L   70   10   0.45   1.8   300.0   mg/L   0.014   U   1   0.014   0.056   300.0   mg/L   0.036   U   1   0.036   0.14	07/31/08   1



SunLabs **Project Number** 

080731.01

PBS&J

Project Description CEP Impl.

August 12, 2008

SunLabs Sample Number Sample Designation

70171

**GW-13 Filtered** 

Matrix

Groundwater

Date Collected

07/30/08 11:30

Date Received

07/31/08 07:55

Parameters	Method	Units	Results	Dil Facto		RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Metals by EPA Method 6010									
Date Digested	3010		7/31/2008						07/31/08 08:00
Date Analyzed			8/7/2008	1				08/07/08 19:05	07/31/00 00.00
Arsenic	6010	mg/L	0.0048 U	1	0.0048	0.019	7440-38-2	08/03/08 17:13	07/31/08 08:00
Iron	6010	mg/L	44 V	20	0.046	0.18	7439-89-6	08/04/08 16:15	07/31/08 08:00
Manganese	6010	mg/L	0.018	1	0.0006	0.0024	7439-96-5	08/04/08 13:09	07/31/08 08:00
Sodium	6010	mg/L	77	1	0.011	0.044	7440-23-5	08/07/08 19:05	07/31/08 08:00



SunLabs Project Number

080731.13

PBS&J

Project Description

CEP Impl.

August 14, 2008

SunLabs Sample Number Sample Designation

70291 GW-6

Matrix

Groundwater

Date Collected

07/30/08 08:47

Date Received

07/31/08 13:10

Parameters	Method	Units	Results	Dil Fact	MDL or	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
			111111111111111111111111111111111111111						
Anions by Ion Chromatography									
Date Analyzed			08/01/08	1				08/01/08 01:12	07/31/08 15:30
Chloride	300.0	mg/L	34	5	0.22	0.9		08/02/08 09:00	07/31/08 15:30
Nitrate-N	300.0	mg/L	0.014 U	1	0.014	0.056		08/01/08 01:12	07/31/08 15:30
Sulfate	300.0	mg/L	16	2	0.072	0.29		08/02/08 10:19	07/31/08 15:30
Metals by EPA Method 6010									76.31.
Date Digested	3010		8/1/2008						08/01/08 08:30
Date Analyzed			8/7/2008	1				08/07/08 19:57	08/01/08 08:30
Arsenic	6010	mg/L	0.0048 U	1	0.0048	0.019	7440-38-2	08/05/08 17:47	08/01/08 08:30
Iron	6010	mg/L	8,2 V	2	0.0046		7439-89-6	08/04/08 17:00	08/01/08 08:30
Manganese	6010	mg/L	0.033 ~	- 1		0.0024	7439-96-5	08/04/08 14:12	08/01/08 08:30
Sodium	6010	mg/L	. 25	1	0.011	0.044	7440-23-5	08/07/08 19:57	08/01/08 08:30
Total Alkalinity									
Date analyzed			8/6/2008	1			0	00/05/00 15 17	
Total Alkalinity as CaCO3	SM2320B	mg/L	400	1	1.2	5		08/06/08 16:17	
		1119/	100	<b>.</b>	1.4	3		08/06/08 16:17	Committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the commit
<u>Ammonia</u>									
Nitrogen Ammonia (as N)	350.2	mg/L	2.24	1	0.005	0.020		08/07/08 11:10	
Total Dissolved Solids									
Date Analyzed			8/5/08 S7	1				08/05/08 09:00	
Total Dissolved Solids	SM2540C	mg/L	488	1	7.26	29.04		08/05/08 09:00	
Total Organic Carbon									
Date Analyzed			8/10/08 S7					004000	
Fotal Organic Carbon	SM5310C	mg/L	26.3	1	0.371			08/10/08 12:50	
and the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second o	3,133100	mg/L	40.3	1	0.271	1.084		08/10/08 12:50	

Laboratory ID Number - E84809



SunLabs Project Number

080731.13

PBS&J

Project Description

CEP Impl.

August 14, 2008

SunLabs Sample Number Sample Designation

70292

**GW-6 Filtered** 

Matrix

Groundwater

Date Collected

07/30/08 08:47

Date Received

07/31/08 13:10

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Metals by EPA Method 6010									
Date Digested	3010		9/1/2000						
Date Analyzed	3010		8/1/2008 8/7/2008	1				00/07/00 20 02	08/01/08 08:30
Arsenic	6010	mg/L	0.0048 U	<u></u>	0.0048	0.010	7440 20 3	08/07/08 20:03	
Iron	6010	J.		-			7 <del>44</del> 0-38-2	08/05/08 17:49	08/01/08 08:30
Manganese		mg/L	5.2 V	2	0.0046	0.018	7439-89-6	08/04/08 17:08	08/01/08 08:30
5	6010	mg/L	0.028	1	0.0006	0.0024	7439-96-5	08/04/08 14:15	08/01/08 08:30
Sodium	6010	mg/L	27		0.011	0.044	7440-23-5	08/07/08 20:03	08/01/08 08:30



SunLabs **Project Number** 

080731.13

PBS&J

Project Description

CEP Impl.

August 14, 2008

SunLabs Sample Number Sample Designation

70293 **MW-10R** 

Matrix

Date Collected

Groundwater 07/31/08 08:51

Date Received

07/31/08 13:10

Parameters	Method	Units	Results	Dil Facto		RL	CAS Number	Date/Time Analyzed	Date/Time
							Number	Allalyzeu	Prep
Anions by Ion Chromatography									
Date Analyzed			08/01/08	1				00/04/00 04	
Chloride	300.0	mg/L	83	10	0.45	1.8		08/01/08 01:28	07/31/08 15:30
Nitrate-N	300.0	mg/L	0.014 U	1	0.73	0.056		08/02/08 04:47	07/31/08 15:30
Sulfate	300.0	mg/L	0.036 U	1	0.036	0.036		08/01/08 01:28 08/01/08 01:28	07/31/08 15:30 07/31/08 15:30
Metals by EPA Method 6010								The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	
Date Digested	3010		8/1/2008						
Date Analyzed			8/7/2008	•					08/01/08 08:30
Arsenic	6010	mg/L	0.007 I	1 1	0.0048	0.010	7	08/07/08 20:05	
Iron	6010	mg/L	0.007 I 66 V	20	0.0048		7440-38-2	08/05/08 18:01	08/01/08 08:30
Manganese	6010	mg/L	0.016			0.18	7439-89-6	08/04/08 17:10	08/01/08 08:30
Sodium	6010	mg/L	83	1	0.0006	0.0024	7439-96-5 7440-23-5	08/04/08 14:17 08/07/08 20:05	08/01/08 08:30 08/01/08 08:30
Total Alkalinity								1-71.710 20103	
Date analyzed			0/6/000						
Total Alkalinity as CaCO3	SM2320B		8/6/2008	1				08/06/08 16:26	
3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	3M2320B	mg/L	480	1	1.2	5	***************************************	08/06/08 16:26	
<u>Ammonia</u>									
Nitrogen Ammonia (as N)	350.2	mg/L	11.4	1	0.005	0.020		08/07/08 11:10	
Total Dissolved Solids									The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
Pate Analyzed			0/5/00 07						
otal Dissolved Solids	SM2540C	ma/l	8/5/08 S7	1			and the second second second second second	08/05/08 09:00	
· <del>-</del>	31123700	mg/L	816	1	7.26	29.04		08/05/08 09:00	
otal Organic Carbon									
ate Analyzed			8/10/08 S7	1				00/10/00 12:77	
otal Organic Carbon	SM5310C	mg/L	70.7	1	0.271	1.084		08/10/08 12:50	•
The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	en an en en en en en en en en en en en en en			Τ	0.4/1	1.004		08/10/08 12:50	



**Project Number** 

080731.13

PBS&J

Project Description

CEP Impl.

August 14, 2008

SunLabs Sample Number 70294 Sample Designation

MW-1R

Matrix

Groundwater

Date Collected Date Received

07/31/08 10:00 07/31/08 13:10

Parameters	Method	Units	Results	Dil	MDL	. RL	CAS	Date/Time	Date/Time
				Fact	ОГ	1/180000	Number	Analyzed	Prep
Anions by Ion Chromatography									
Date Analyzed			08/01/08						
Chloride	300.0	mg/L	06/01/08 29	1	0.22			08/01/08 01:43	07/31/08 15:30
Nitrate-N	300.0	······		5	0.22	0.9		08/02/08 09:16	07/31/08 15:30
Sulfate	300.0	mg/L mg/L	0.014 U	1	0.014	0.056		08/01/08 01:43	07/31/08 15:30
Andrews (The control of the control		nig/L	12	5	0.18	0.72		08/02/08 09:16	07/31/08 15:30
Metals by EPA Method 6010									
Date Digested	3010		8/1/2008						00/04/00 00 00
Date Analyzed			8/7/2008	1				00/07/00 20 00	08/01/08 08:30
Arsenic	6010	mg/L	0.0048 U	1	0.0048	0.010	7 <del>44</del> 0-38-2	08/07/08 20:08	00101100 00 00
Iron	6010	mg/L	1.1 V	1	0.0048		7439-89-6	08/05/08 18:04	08/01/08 08:30
Manganese	6010	mg/L	0.026	1	0.0025		7439-89-6 7439-96-5	08/04/08 14:20	08/01/08 08:30
Sodium	6010	mg/L	22	<u>+</u>	0.0000	0.0024	7440-23-5	08/04/08 14:20 08/07/08 20:08	08/01/08 08:30
		3, -		-	5.011	0.011	7440-23-3	00/07/06 20:08	08/01/08 08:30
<u>Total Alkalinity</u>									
Date analyzed			8/6/2008	1				00/06/00 16:40	
Total Alkalinity as CaCO3	SM2320B	mg/L	260	1	1.2	5		08/06/08 16:40	
The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	9/5	200		4.4	J		08/06/08 16:40	***************************************
<u>Ammonia</u>									
Nitrogen Ammonia (as N)	350.2	mg/L	0.148	1	0.005	0.000			
The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	emining in the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	1119/	0,140		0.005	0.020		08/07/08 11:10	The same of the same of the same
Total Dissolved Solids									
Date Analyzed			0/5/00 07						
Total Dissolved Solids	SM2540C	/1	8/5/08 S7	1				08/05/08 09:00	en en en en en en en en en en en en en e
	31123400	mg/L	404	1	7.26	29.04		08/05/08 09:00	
<u> Fotal Organic Carbon</u>									
Date Analyzed			0/10/00						
Fotal Organic Carbon	CMEDIAG	,	8/10/08 S7	1				08/10/08 12:50	
	SM5310C	mg/L	16.2	1	0.271	1.084		08/10/08 12:50	



SunLabs Project Number

080731.13

PBS&J

Project Description

CEP Impl.

August 14, 2008

SunLabs Sample Number Sample Designation

70295

**MW-1R Filtered** 

Matrix

Groundwater

Date Collected

07/31/08 10:00

Date Received

07/31/08 13:10

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Metals by EPA Method 6010  Date Digested  Date Analyzed	3010		8/1/2008 8/7/2008	1				08/07/08 20:10	08/01/08 08:30
Arsenic	6010	mg/L	0.0048 U	1	0.0048	0.019	7440-38-2	08/05/08 18:06	08/01/08 08:30
Iron	6010	mg/L	0.19 V	1	0.0023	0.0092	7439-89-6	08/04/08 14:23	08/01/08 08:30
Manganese	6010	mg/L	0.025	1	0.0006	0.0024	7439-96-5	08/04/08 14:23	08/01/08 08:30
Sodium	6010	mg/L	23	1	0.011	0.044	7440-23-5	08/07/08 20:10	08/01/08 08:30



U

## Report of Laboratory Analysis

SunLabs Project Number

080731.13

PBS&J

Project Description

CEP Impl.

August 14, 2008

#### Footnotes SunLabs is not currently NELAC certified for this analyte. The reported value is between the laboratory method detection limit and the laboratory practical LCS Laboratory Control Sample LCSD Laboratory Control Sample Duplicate MΒ Method Blank MS Matrix Spike Matrix Spike Duplicate MSD Sample not analyzed at client's request. NA RL(reporting limit) = PQL(practical quantitation limit). RLRPDRelative Percent Difference This analysis performed by Benchmark EnviroAnalytical, Inc., Certification number E84167. *57*

Indicates that the analyte was detected in both the sample and the associated method blank.

Compound was analyzed for but not detected.



## **Quality Control Data**

**Project Number** 

PBS&J

080729.05

Project Description

CEP Impl.

August 12, 2008

Batch No: TestCode:

C5842

300.0

Associated Samples 70017, 70019, 70020

Compound	В	lank	LCS Spike	LCS %Rec	LCSD %Rec	RPD %	QC I RPD	imits LCS	MS Spike	MS %Rec	MSD %Rec	RPD %	QC RPD	Limits MS	Dup RPD	Qualifiers
Parent Sample Number	:									69964	69964					
Fluoride	0.0	16 U	5.00	115	119	3	6	19-171	5.00	131	107	20 *	13	24-163		
Chloride	0.0	45 U	5.00	111	113	2	8	19-162	5.00	213 *	148	36 *	15	0-207	*******	
Nitrite-N		16 U	5.00	108	108	0	3	21-171	5.00	50	12 *	123 *	8	43-152		
Nitrate-N	0.0	14 U	5.00	104	107	3	5	19-168	5.00	140	125	11	11	42-152		
Sulfate		36 U	5.00	107	112	5	6	21-169	5.00	0	0	NA	21	0-236		

Batch No:

C5850

TestCode:

6010-L

Associated Samples

70017, 70018, 70019, 70020, 70021

Compound	Blank	LCS	LCS	LCSD	RPD	QC	Limits	MS	MS	MSD	RPD	QC	Limits	Dup	Qualifiers
		Spike	%Re	%Rec	%	RPD	LCS	Spike	ke %Rec	: %Rec	%	RPD	MS	RPD	
Parent Sample Number								:	70017	70017					-
Date Digested	/30/2008 U	1000	30/08	30/08	0			1000	30/08	30/08	0				
Date Analyzed	3/4/2008 U	1000	)4/08	)4/08	0			1000	)4/08	)4/08	0			*****	
Aluminum	0.009 U	1000	99	101	2	9	87=115	1000	55	138	86 *	33	0-263		
Arsenic	0.0048 U	1000	107	110	3	8	88-112	1000	113	110	3	8	78-117		
Iron	0.0023 U	1000	100	102	2	20	80-126	1000	0	94	200 *	55	0-289		The second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of th
Manganese	0.0006 U	1000	100	102	2	5	91-112	1000	100	99	1	9	76-113		
Sodium	0.011	10.0	96	97	1	6	89-114	10.0	72	54 *	29 *	14	72-125		Q1

 $<sup>^{*}</sup>$  indicates value is outside control limits for %Recovery or greater than acceptance criteria for RPD

	Footnotes
MSO	The result for the spike(s) were not within acceptable control limits. However, the LCS data was within acceptable control limits. Therefore the poor spike results can be attributed to matrix.
Q1	The result for the spike(s) were not within acceptable control limits. However, the LCS data was within acceptable control limits. Therefore the poor spike results can be attributed to matrix.
U	Compound was analyzed for but not detected.



August 12, 2008

Brad Bayne PBS&J 5300 West Cypress St. Suite #200 Tampa, FL 33607

Re:

SunLabs Project Number:

080730.06

Client Project Description:

CEP Impl.

Dear Mr. Bayne:

Enclosed is the report of laboratory analysis for the following samples:

Sample Number	Sample Description	Date Collected
70130	GW-16	07/29/08
70131	GW-10	07/29/08
70132	GW-15	07/29/08
70133	Duplicate BB	07/29/08
70134	DGW-2	07/29/08

Ammonia was analyzed by Benchmark Enviroanalytical, Inc. NELAC# E86147.

Copies of the Chain(s)-of-Custody, if received, are attached to this report.

If you have any questions or comments concerning this report, please do not hesitate to contact us.

Michael W. Palmer

Vice President, Laboratory Operations

**Enclosures** 

Sincerely

5460 Beaumont Center Blvd., Suite 520 Tampa, Florida 33634



August 12, 2008

Brad Bayne PBS&J 5300 West Cypress St. Suite #200 Tampa, FL 33607

Re:

SunLabs Project Number:

080729.05

Client Project Description:

CEP Impl.

Dear Mr. Bayne:

Enclosed is the report of laboratory analysis for the following samples:

Sample Number	Sample Description	Date Collected
70017	GW-2	07/28/08
70018	GW-2 Filtered	07/28/08
70019	DGW-1	07/28/08
70020	GW-11	07/28/08
70021	GW-11 Filtered	07/28/08

Ammonia was analyzed by Benchmark Enviroanalytical, Inc. NELAC# E86147.

Copies of the Chain(s)-of-Custody, if received, are attached to this report.

If you have any questions or comments concerning this report, please do not hesitate to contact us.

Sincerely,

Michael W. Palmer

Vice President, Laboratory Operations

**Enclosures** 

These samples were received at the proper temperature and were analyzed as received. The results herein relate safe to the terms tested or to the samples as received by the faboratory. This report shall not be reproduced except in full, without the written approval of the faboratory. Results for all samples and rearries are reported on a dy weight boss. All samples will be disposed of within 30 days at the date of receipt of the samples. All samples in the look of the report are environmental samples. All results in the Quality Control (QC) section are fabrically all results need the



#### **Quality Control Data**

**Project Number** 

PBS&J

080730.06

Project Description

CEP Impl.

August 12, 2008

Batch No:

C5859

TestCode:

300.0

Associated Samples

70130, 70131, 70132, 70133, 70134

Compound	1	Blank	LCS Spike	LCS %Rec	LCSD %Rec	RPD %	QC RPD	Limits LCS	MS Spike	MS %Rec	MSD %Rec	RPD %	QC RPD	Limits MS	Dup RPD	Qualifiers
Parent Sample Number										70133	70133					
Chloride		0.045 U	5.00	97	98	1	8	19-162	5.00	106	105	1	15	0-207		
Nitrate-N		0.014 U	5.00	92	94	2	5	19-168	5.00	95	95	0	11	42-152		
Sulfate		0.036 U	5.00	97	94	3	6	21-169	5.00	104	85	20	21	0-236		

Batch No:

C5866

TestCode:

6010-L

Associated Samples

70130, 70131, 70132, 70133, 70134

Compound	Blank	LCS Spike	LCS %Re	LCSD c %Rec	RPD %	QC RPD	Limits LCS	MS Spike	MS • %Red	MSD : %Rec	RPD %	QC RPD	Limits MS	Dup RPD	Qualifiers
Parent Sample Number									70130	70130					
Date Digested	3/1/2008 U	10.0	31/08	31/08	0			10.0	31/08	31/08	0				
Date Analyzed	3/8/2008 U	10.0	)7/08	)7/08	NA					)7/08	0		·		
Arsenic	0.0048 U	1000	104	106	2	8	88-112	1000	98	107	9*		70.447		
Iron	0.005 I	1000	102	105		20	80-126	1000				8	78-117		
Lead	0.0044 U	1000	104	103					37	, ,0	200 *	55	0-289		
Manganese	reconstruction of the second second second				1	8	87-113	1000	95	97	2	10	64-118		
	0.0007 I	1000	106	103	3	5	91-112	1000	97	99	2	9	76-113		
Sodium	0.011 U	10.0	94	97	3	6	89-114	10.0	0 *	0 *	NA	14	72-125		

<sup>\*</sup> indicates value is outside control limits for %Recovery or greater than acceptance criteria for RPD

#### Footnotes

1

The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

ΜI

Matrix Interference

U

Compound was analyzed for but not detected.

Phone: 813-881-9401 Fax: 813-354-4661

Email: Info@SunLabsInc.com



August 12, 2008

Brad Bayne PBS&J 5300 West Cypress St. Suite #200 Tampa, FL 33607

Re:

SunLabs Project Number:

080731.01

Client Project Description:

CEP Impl.

Dear Mr. Bayne:

Enclosed is the report of laboratory analysis for the following samples:

Sample Number	Sample Description	Date Collected
70158	MW-8A	
70159	CW-10R	07/29/08
70160	CW-8A	07/29/08
70161	MW-11R	07/29/08
70162	CW-11R	07/29/08
70163	MW-12R	07/29/08
70164	GW-4	07/29/08
70165	GW-4 Filtered	07/29/08
70166	GW-3	07/29/08
70167		07/29/08
70168	GW-1	07/29/08
70169	GW-5	07/29/08
· · · ·	GW-14	07/30/08
70170	GW-13	07/30/08
70171	GW-13 Filtered	07/30/08
70172	GW-9	07/30/08

Ammonia was analyzed by Benchmark Enviroanalytical, Inc. NELAC# E84167.

Copies of the Chain(s)-of-Custody, if received, are attached to this report.

If you have any questions or comments concerning this report, please do not hesitate to contact us.

Sincerely,

Michael W. Palmer

Vice President, Laboratory Operations

**Enclosures** 

Email: Info@SunLabsInc.com



SunLabs Project Number

080731.01

PBS&J

Project Description

CEP Impl.

August 12, 2008

#### Footnotes

*	SunLabs is not currently NELAC certified for this analyte.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MB	Method Blank
MS	Matrix Spike
MSD	Matrix Spike Duplicate
NA	Sample not analyzed at client's request.
RL	RL(reporting limit) = PQL(practical quantitation limit).
RPD	Relative Percent Difference
<i>S7</i>	This analysis performed by Benchmark EnviroAnalytical, Inc., Certification number E84167.
U	Compound was analyzed for but not detected,
ν	Indicates that the analyte was detected in both the sample and the associated method blank.



#### **Quality Control Data**

**Project Number** 

PBS&J

080731.01

Project Description

CEP Impl.

August 12, 2008

Batch No:

C5863

TestCode:

300.0

Associated Samples

70158, 70159, 70160, 70161, 70162, 70163, 70164, 70166, 70167, 70168, 70169, 70170, 70172

Compound	Blank	LCS Spike	LCS %Rec	LCSD %Rec	RPD %	QC RPD	Limits LCS		MS %Rec	MSD %Rec	RPD %	QC	Limits MS	Dup RPD	Qualifiers
Parent Sample Number									70163	70163					
Chloride	0.045 U	5.00	103	100	3	8	19-162	5.00	145	122	17 *	15	0-207		
Nitrate-N	0.014 U	5.00	101	96	5	5	19-168	5.00	111	102	8	11	42-152		
Sulfate	0.036 U	5.00	91	86	6	6	21-169	5.00	69		100 *	21	0-236		

Batch No:

C5867

TestCode:

6010-L

Associated Samples

70158, 70159, 70160, 70161, 70162, 70163, 70164, 70165, 70166, 70167, 70168, 70169, 70170, 70171, 70172

Phone: 813-881-9401

Fax: 813-354-4661

Email: Info@SunLabsinc.com

Compound	Blank	LCS Spike	LCS %Red	LCSD %Rec	RPD %	QC RPD	Limits LCS		MS %Rec	MSD %Rec	RPD %	QC RPD	Limits MS	Dup RPD	Qualifiers
Parent Sample Number									70158	70150					
Date Digested	3/1/2008 U	10.0	31/08	31/08	0			10.0							
Date Analyzed	3/8/2008 U							10.0	31/08	31/08	0				
	3/0/2008 U	10.0	)7/08	)7/08	0			10.0	)7/08	)7/08	0				
Arsenic	0.0048 U	1000	105	105	0	8	88-112	1000	112	107	5	8	78-117		
Iron	0.007 I	1000	100	101	1	20	90 176					•			
Manganese				101		20	80-126	1000	0	0	NA	55	0-289		
enterentario de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della co	0.0006	1000	101	98	3	5	91-112	1000	101	97	4	٥	76-113		
Sodium	0.011 U	10.0	98	99	1	6	89-114	10.0	63 *	61 *	3	14	72-125		

<sup>\*</sup> indicates value is outside control limits for %Recovery or greater than acceptance criteria for RPD

Footnotes
The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
M Matrix Interference
ASO The result for the spike(s) were not within acceptable control limits. However, the LCS data was within acceptable control limits. Therefore the poor spike results can be attributed to matrix.
Compound was analyzed for but not detected.



August 14, 2008

Brad Bayne PBS&J 5300 West Cypress St. Suite #200 Tampa, FL 33607

Re:

SunLabs Project Number:

080731.13

Client Project Description:

CEP Impl.

Dear Mr. Bayne:

Enclosed is the report of laboratory analysis for the following samples:

Sample Number	Sample Description	Date Collected
70278	CW-9	07/30/08
70279	MW-9	• •
70280	DUP	07/30/08
70281	GW-12	07/30/08
70282	DGW-3	07/30/08
70283	DGW-3 Filtered	07/30/08
70284	GW-7	07/30/08
70285	GW-7 Filtered	07/30/08
70286	DUP/GW-7	07/30/08
70287	DUP/GW-7 Filtered	07/30/08
70288	GW-8	07/30/08
70289	DGW-4	07/30/08
70290		07/30/08
70291	DGW-4 Filtered	07/30/08
70291	GW-6	07/30/08
70292	GW-6 Filtered	07/30/08
	MW-10R	07/31/08
70294	MW-1R	07/31/08
70295	MW-1R Filtered	07/31/08

Ammonia was analyzed by Benchmark Enviroanalytical, Imc. NELAC# E86147.

Copies of the Chain(s)-of-Custody, if received, are attached to this report.

If you have any questions or comments concerning this report, please do not hesitate to contact us.

Michael W. Palmer

Vice President, Laboratory Operations

**Enclosures** 



#### **Quality Control Data**

Project Number

PBS&J

080731.13

Project Description

CEP Impl.

August 14, 2008

Batch No:

C5873

Test: TestCode: Anions by Ion Chromatography

Associated Samples

70278, 70279, 70280, 70281, 70282, 70284, 70286, 70288, 70289, 70291,

70293, 70294

Compound	Blank	LCS Spike	LCS %Rec	LCSD %Rec	RPD %	QC RPD	Limits LCS	MS Spike	MS %Rec	MSD %Rec	RPD %	QC RPD	Limits	Dup RPD	Qualifiers
Parent Sample Number		**************************************						-,			/0	KPU	MS		
Chloride	0.045 U	5.00	110	440		_			70120	70120					
Nitrite-N	 		116	112	4	8	19-162	5.00	108	111	3	15	0-207		
Nitrate-N	 0.016 U	5.00	112	109	3	3	21-171	5.00	109	109	n	8	43-152		
CONTRACTOR OF CONTRACT AND ADDRESS OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRA	 0.014 U	5.00	105	109	4	5	19-168	5.00	104		<del>_</del>	- 44			
Sulfate	0.036 U	5.00	104	96	0 *					108	4	- 11	42-152		
	 0.000 0	3.00	104	90	8 -	ь	21-169	5.00	101	101	n	21	0.236		

Batch No:

C5880

Test: TestCode: Metals by EPA Method 6010

70278, 70279, 70280, 70281, 70282, 70283, 70284, 70285, 70286, 70287,

70288, 70289, 70290, 70291, 70292, 70293, 70294, 70295

Compound	Blank	LCS Spike	LCS %Rec	LCSD %Rec	RPD %	QC RPD	Limits LCS	MS Spike	MS %Red	MSD %Rec	RPD %	QC RPD	Limits MS	Dup RPD	Qualifiers
Parent Sample Number		:									,,,	NED	IMO		
Date Digested	8/1/2008 U	10.0	04/00	04/00	_				70278	70278					
Date Analyzed		10.0	01/08	01/08	0			10.0	01/08	01/08	0				
	8/8/2008 U	10.0	07/08	07/08	0			10.0		07/08					
Arsenic	0.0048 U	1000	102	106	1		20.440				U				
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<sup>\*</sup> indicates value is outside control limits for %Recovery or greater than acceptance criteria for RPD

#### **Footnotes**

The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

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Matrix Interference

Compound was analyzed for but not detected.

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#### SunLabs, Inc. Chain of Custody

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= Air	SOL = Solid	Sample Condition Upon Recei				/R	Relinqu	uished	d <b>Š</b> y:	D		Re	elinquis	hed To:	Date:	Time:	
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#### SunLabs, Inc. Chain of Custody

**№** 17325

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GA = Glass Amber	GVS = Low Level Volatile Kit	H = Hydrochloric Acid + Ice	S = Sulfuric Acid + Ice		$\bowtie r$	with	0 1/2	161	7/29/08	8:00
P = Plastic	T = Tedlar Bag	I = Ice only	VS = MeOH, OFW, + Ice		Relinguish	ed Bv:	Polinguish	A		
S = Soil Jar	O = Other	N = Nitric Acid + Ice	O = Other (Specify)		16	· /	Relinquish	1 1	Date:	Time:
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A = Air	SOL = Solid	Semale Condition Upon Resen			, tomiquion	ou by.	Relinquishe	ed To:	Pate:	Time:
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Bottle Type Codes:			2ns/	LP2	V	Re	linquis	hed By	:		ĪF	elina	ished To:	Date:	
GV = Glass Vial	GVS = Low Level Volatile Kit	Preservative Codes:				مت	7/	) ()					, c	,	Time:
GA = Glass Amber	T = Tedlar Bag	H = Hydrochloric Acid + Ice	S = Sulfurio A			<u> </u>	70/ 1		<u> </u>	***		5	Mh	7/24	1200
P = Plastic	O = Other	N = Nitric Acid + Ice	VS = MeOH,			Re	linquisi	hed By:			R	élingu	ished/fo:	Date:	Time:
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\ = Air	SOL = Solid	Sample Condition Upon Rece	int			Re	inquish	ned By:			R	elinqu	ished To:	Date:	Time:
W = Drinking Water	SW = Surface Water	Custody Seals present?		Y/N(NA)	)										
W = Ground Water	W = Water (Blanks)	Shipping Bills attached?		Y / N (NA)		Bal	im ~! - !-	- 15							
E = Sediment	O = Other (Specify)	Sample containers intact?		YY N /NA		Trei	iiiquisr	ed By:			Re	elinqui	ished To:	Date:	Time:
Temp: <u> </u>	2'6	Samples within holding times?		Ď N /NA											
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April 28, 2009

Brad Bayne PBS&J 5300 West Cypress St. Suite #200 Tampa, FL 33607

Re:

SunLabs Project Number:

090416.15

Client Project Description:

Sarasota Landfill

Dear Mr. Bayne:

Enclosed is the report of laboratory analysis for the following samples:

Sample Number	Sample Description	Date Collected
83153	GW-13	4/15/2009
83154	GW-28	4/15/2009
83155	GW-27	4/15/2009
83156	GW-27 Filtered	4/15/2009
83157	GW-31	4/15/2009
83158	GW-30	4/15/2009
83159	GW-30 Filtered	4/16/2009
83160	GW-29	4/16/2009
83161	GW-12	4/16/2009
83162	Dup A	4/16/2009
83163	GW-9	4/16/2009
83164	GW-9 Filtered	4/16/2009

Ammonia was analyzed by Benchmark Enviroanalytical, Inc. NELAC# E84167.

Copies of the Chain(s)-of-Custody, if received, are attached to this report.

If you have any questions or comments concerning this report, please do not hesitate to contact us.

Michael W. Palmer

Vice President, Laboratory Operations

**Enclosures** 

Email: Info@SunLabsInc.com



SunLabs Project Number

090416.15

PBS&J

Project Description

Sarasota Landfill

April 28, 2009

SunLabs Sample Number Sample Designation

83153 GW-13

Matrix

Groundwater

Date Collected

4/15/2009 10:45

Date Received

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Parameters	Method	Units	Results	Dil Fact	MDL or	. RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Metals by EPA Method 6010									
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Iron		mg/L	0.0048 U	1	0.0048	0.019	7440-38-2	04/20/09 11:34	04/17/09 09:30
	6010	mg/L	36	10	0.023	0.092	7439-89-6	04/22/09 14:02	04/17/09 09:30
<u>Ammonia</u>									
Nitrogen Ammonia (as N)	350.2	ma/l	2.10						
- ,	330.2	mg/L	3.19	1	0.005	0.020		04/24/09 15:30	
Total Dissolved Solids									
Date Analyzed									
Total Dissolved Solids			4/20/09 S7	1				04/20/09 08:00	
TOWN DISSUIVED SUINS	SM2540C	mg/L	888 -	·1	7.26	29.04		04/20/09 08:00	
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SunLabs Project Number

090416.15

PBS&J

Project Description

Sarasota Landfill

April 28, 2009

SunLabs Sample Number Sample Designation

83154 GW-28

Matrix

Groundwater

Date Collected

4/15/2009 12:05

Date Received

Parameters	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	'/15/2003 14.21								
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Metals by EPA Method 6010  Date Digested  Date Analyzed	3010		4/17/2009						04/17/09 09:30	
Arsenic Iron	6010 6010	mg/L mg/L	4/22/2009 0.0048 U 8.5	1 1 2	0.0048 0.0046		7440-38-2	04/22/09 14:04 04/20/09 11:54	04/17/09 09:30	
<u>Ammonia</u> Nitrogen Ammonia (as N)	350.2	mg/L	14.7	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	_		7439-89-6	04/22/09 14:04	04/17/09 09:30	
<u>Total Dissolved Solids</u> Date Analyzed				1	0.005	0.020		04/24/09 15:30		
Total Dissolved Solids	SM2540C	mg/L	4/20/09 S7 1180 -	1	7.26	29.04		04/20/09 08:00 04/20/09 08:00		



SunLabs Project Number

090416.15

PBS&J

Project Description

Sarasota Landfill

April 28, 2009

SunLabs Sample Number Sample Designation

83155 GW-27

Matrix

Groundwater

Date Collected

4/15/2009 12:25

Date Received

Parameters  Metala by EDA Market	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Metals by EPA Method 6010									
Date Digested	3010		4/17/2009						04/47/00 00 00
Date Analyzed		4	4/22/2009	1		***************************************	***************************************	04/22/09 14:07	04/17/09 09:30
Arsenic Iron	6010	mg/L	0.0048 U	1	0.0048	0.019	7440-38-2	04/20/09 11:56	04/17/00 00 70
TION	6010	mg/L	15	5	0.012	0.046	7439-89-6	04/22/09 14:07	04/17/09 09:30 04/17/09 09:30
<u>Ammonia</u>								0 1/22/03 11:07	0717/05 09:30
Nitrogen Ammonia (as N)	350.2	mg/L	2.63	1	0.005	0.020		04/24/09 15:30	
Total Dissolved Solids									
Date Analyzed			4/20/09 S7						
Total Dissolved Solids	SM2540C	mg/L	624 ~	. 1	7.26	30.04		04/20/09 08:00	
		9/5	<u></u>		7.20	29.04		04/20/09 08:00	



SunLabs Project Number

090416.15

PBS&J

Project Description

Sarasota Landfill

April 28, 2009

SunLabs Sample Number Sample Designation

83156

**GW-27 Filtered** 

Matrix

Groundwater

Date Collected

4/15/2009 12:25

Date Received

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Parameters	Method	Units	Results	Dil	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep					
Metals by EPA Method 6010 Date Analyzed	3010		4/17/2009 4/22/2009	1				04/22/09 14:09	04/17/09 09:30					
Arsenic Iron	6010 6010	mg/L mg/L	0.0048 U 11	5	0.0046	0.019	7 <del>44</del> 0-38-2 7439-89-6	04/20/09 11:59 04/22/09 14:09	04/17/09 09:30					



SunLabs Project Number

090416.15

PBS&J

Project Description

Sarasota Landfill

April 28, 2009

SunLabs Sample Number Sample Designation

83157 GW-31

Matrix

Groundwater

Date Collected

4/15/2009 13:10

Date Received

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Parameters	Method	Units	Results	Dil Fact	MDL or	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Metals by EPA Method 6010									
Date Digested Date Analyzed	3010		4/17/2009 4/22/2009	1				04/22/00 14:11	04/17/09 09:30
Arsenic	6010	mg/L	0.0048 U	1	0.0048	0.019	7440-38-2	04/22/09 14:11 04/20/09 12:01	04/17/00 00 20
Iron	6010	mg/L	14	5	0.012	0.046	7439-89-6	04/22/09 14:11	04/17/09 09:30 04/17/09 09:30
Ammonia							1		
Nitrogen Ammonia (as N)	350.2	mg/L	0.376	1	0.005	0.020		04/24/09 15:30	
Total Dissolved Solids									
Date Analyzed			4/20/09 S7	1				04/20/09 08:00	
Total Dissolved Solids	SM2540C	mg/L	632 -	· 1	7.26	29.04		04/20/09 08:00	



SunLabs Project Number

090416.15

PBS&J

Project Description

**Sarasota Landfill** 

April 28, 2009

SunLabs Sample Number Sample Designation

83158 GW-30 Matrix

Groundwater

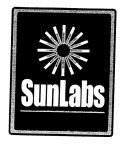
Date Collected
Date Received

4/15/2009 14:10

4/16/2009 14:21

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Metals by EPA Method 6010									
Date Digested	3010		4/17/2009						04/17/09 09:30
Date Analyzed	a anno anno anno anno anno anno anno an	***************************************	4/22/2009	1				04/22/09 12:39	
Arsenic	6010	mg/L	0.0048 U	1	0.0048	0.019	7440-38-2	04/20/09 12:03	04/17/09 09:30
Iron	6010	mg/L	3.3	1	0.0023	0.0092	7439-89-6	04/22/09 12:39	04/17/09 09:30
Ammonia									
Nitrogen Ammonia (as N)	350.2	mg/L	0.328	1	0.005	0.020		04/24/09 15:30	
Total Dissolved Solids									
Date Analyzed			4/20/09 S7	1				04/20/09 08:00	
Total Dissolved Solids	SM2540C	ma/L	672 -	1	7.26	29.04		04/20/09 08:00	

Phone: 813-881-9401 Fax: 813-354-4661 Email: Info@SunLabsInc.com



SunLabs Project Number

090416.15

PBS&J

Project Description

Sarasota Landfill

April 28, 2009

SunLabs Sample Number Sample Designation

83159

**GW-30 Filtered** 

Matrix

Groundwater

Date Collected

1/16/2000

Date Received

4/16/2009 14:10 4/16/2009 14:21

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS	Date/Time Analyzed	Date/Time
Metals by EPA Method 6010 Date Digested Date Analyzed	3010		4/17/2009 4/22/2009	1					04/17/09 09:30
Arsenic Iron	6010 6010	mg/L mg/L		1	0.0073	0.019	7440-38-2	04/22/09 12:41 04/20/09 12:06 04/22/09 12:41	04/17/09 09:30



SunLabs Project Number

090416.15

PBS&J

Project Description

Sarasota Landfill

April 28, 2009

SunLabs Sample Number Sample Designation

83160 GW-29

Matrix

Groundwater

Date Collected

4/16/2009 15:50

Date Received

COMMISSION OF CHIEF OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISSION OF COMMISS					, , , = ··. <del>==</del>								
Parameters	Method	Units	Results	Dil Facto	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep				
Metals by EPA Method 6010													
Date Digested Date Analyzed	3010		4/17/2009 4/22/2009	1				04/22/09 12:43	04/17/09 09:30				
Arsenic Iron	6010	mg/L	0.0048 U	1	0.0048	0.019	7440-38-2	04/20/09 12:08	04/17/09 09:30				
The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	6010	mg/L	1.4	1	0.0023	0.0092	7439-89-6	04/22/09 12:43	04/17/09 09:30				
Ammonia Nitrogen Ammonia (as N)	350.2	mg/L	3.41	1	0.005	0.020		04/24/09 15:30					
Total Dissolved Solids													
Date Analyzed Total Dissolved Solids	CM2T40C		4/20/09 S7	1				04/20/09 08:00					
	SM2540C	mg/L	596 -	1	7.26	29.04		04/20/09 08:00					



SunLabs Project Number

090416.15

PBS&J

Project Description

Sarasota Landfill

April 28, 2009

SunLabs Sample Number Sample Designation

83161 GW-12

Matrix

Groundwater

Date Collected

4/16/2009 09:55

Date Received

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Parameters	Method	Units	Results	Dil Facto	MDL r	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Metals by EPA Method 6010									The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
Date Digested	3010		4/17/2009						04/17/00 00 00
Date Analyzed			4/22/2009	1				04/22/09 12:46	04/17/09 09:30
Arsenic Iron	6010	mg/L	0.0048 U	1	0.0048	0.019	7440-38-2	04/20/09 12:10	04/17/09 09:30
11011	6010	mg/L	1.9	1	0.0023	0.0092	7439-89-6	04/22/09 12:46	04/17/09 09:30
Ammonia									- 4 - 17 - 03 13 0
Nitrogen Ammonia (as N)	350.2	mg/L	27.7	1	0.005	0.020		04/24/09 15:30	
Total Dissolved Solids									
Date Analyzed Total Dissolved Solids	SHOTAG		4/20/09 S7	1				04/20/09 08:00	
30103	SM2540C	mg/L	700 -	. 1	7.26	29.04		04/20/09 08:00	
	,							***************************************	



SunLabs Project Number

090416.15

PBS&J

Project Description

Sarasota Landfill

April 28, 2009

SunLabs Sample Number Sample Designation

83162 Dup A

Matrix

Groundwater

Date Collected

4/16/2009 09:55

Date Received

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Parameters	Method	Units	Results	Dil Facto		RL	CAS Number	Date/Time Analyzed	Date/Time Prep		
Metals by EPA Method 6010								The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	THE RESIDENCE OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY		
Date Digested Date Analyzed	3010		4/17/2009 4/22/2009	1				0.100.110	04/17/09 09:30		
Arsenic Iron	6010	mg/L	0.0048 U	1	0.0048	0.019	7440-38-2	04/22/09 12:48			
1101	6010	mg/L	1.9	1		0.0092	7439-89-6	04/20/09 12:13 04/22/09 12:48	04/17/09 09:30 04/17/09 09:30		
Ammonia					***************************************		· · · · · · · · · · · · · · · · · · ·	01/22/05 12:48	04/17/09 09:30		
Nitrogen Ammonia (as N)	350.2	mg/L	27.4	1	0.005	0.020		04/24/09 15:30			
Total Dissolved Solids								72,705 13.50			
Date Analyzed Total Dissolved Solids			4/20/09 S7	1				04/20/09 08:00			
Total Dissolved Solids	SM2540C	mg/L	688 -	. 1	7.26	29.04	V to the control to post tradeo	04/20/09 08:00			



SunLabs Project Number

090416.15

PBS&J

Project Description

Sarasota Landfill

April 28, 2009

SunLabs Sample Number Sample Designation

83163 GW-9

Matrix

Groundwater

Date Collected

4/16/2009 11:05

Date Received

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Parameters	Method	Units	Results	Dil Facto		RL	CAS Number	Date/Time Analyzed	Date/Time Prep		
Metals by EPA Method 6010											
Date Digested	3010		4/17/2009								
Date Analyzed									04/17/09 09:30		
Arsenic	6010		4/22/2009	1				04/22/09 14:14			
Iron	6010	mg/L	0.024	1	0.0048	0.019	7440-38-2	04/20/09 12:20	04/17/09 09:30		
	6010	mg/L	46	20	0.046	0.18	7439-89-6	04/22/09 14:14	04/17/09 09:30		
<u>Ammonia</u>									7-7-7-05-05-50		
Nitrogen Ammonia (as N)	350.2	mg/L	31.6	1	0.005	0.020		04/24/09 15:30			
Total Dissolved Solids											
Date Analyzed											
Total Dissolved Solids			4/20/09 S7	1				04/20/09 08:00			
	SM2540C	mg/L	1044 -	·1	7.26	29.04		04/20/09 08:00			
	ě							,,			



SunLabs **Project Number** 

090416.15

PBS&J

Project Description

Sarasota Landfill

April 28, 2009

SunLabs Sample Number Sample Designation

83164

**GW-9 Filtered** 

Matrix

Groundwater

Date Collected

4/16/2009 11:05

Date Received

4/16/2009 14:21

Parameters	Method	Units	Results	Dil Facto	r	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Metals by EPA Method 6010 Date Digested Date Analyzed	3010		4/17/2009 4/22/2009	1				04/22/09 14:16	04/17/09 09:30
Arsenic Iron	6010 6010	mg/L mg/L	0.022 45		0.0048 0.046	0.019 0.18	7440-38-2 7439-89-6		04/17/09 09:30

Email: Info@SunLabsInc.com



SunLabs Project Number

090416.15

PBS&J

Project Description

Sarasota Landfill

April 28, 2009

	Footnotes
*	SunLabs is not currently NELAC certified for this analyte.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MB	Method Blank
MS	Matrix Spike
MSD	Matrix Spike Duplicate
NA	Sample not analyzed at client's request.
RL	RL(reporting limit) = PQL(practical quantitation limit).
RPD	Relative Percent Difference
<i>57</i>	This analysis performed by Benchmark EnviroAnalytical, Inc., Certification number E84167.
U	Compound was analyzed for but not detected.
<i>V</i>	Indicates that the analyte was detected in both the sample and the associated method blank



## **Quality Control Data**

**Project Number** 

PBS&J

090416.15

Project Description

Sarasota Landfill

April 28, 2009

Batch No: TestCode:

C8931 6010-L

Associated Samples

83153, 83154, 83155, 83156, 83157, 83158, 83159, 83160, 83161, 83162, 83163, 83164

Compound	Blank	LCS Spike	LCS %Rec	LCSD %Rec	RPD %	QC RPD	Limits LCS		MS %Rec	MSD %Rec	RPD %	QC RPD	Limits	Dup RPD	Qualifiers
Parent Sample Number												KPD	MS	KPU	
Arsenic	0.0048 U	1000	94	93	1	8	88-112	1000	<i>83153</i> 97	<i>83153</i> 97					
Caumium	0.000611	1000	94	05	•						U	8	78-117		
Chromium	0.0035 U	1000			<u> </u>	3	87-110	1000	50	9/	1	10	73-116		
Iron	the form the state of the Table 1999.	1000	94	95	1	10	91-112	1000	92	91	1	4	70-122		
the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of th	0.0023 U	1000	92	90	2	20	80-126	1000	0	0	NA	EE			
Lead	0.0044 U	1000	91	94	3	8	87-113		90	86	5	10	0-289 64-118		

<sup>\*</sup> indicates value is outside control limits for %Recovery or greater than acceptance criteria for RPD

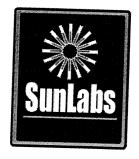
Footnotes

MSA

The results of the matrix spike are out of range due to a high amount of target analyte(s) in the original sample.

Compound was analyzed for but not detected.

SunLabs, Inc. Chain of Custody Client Name: SunLabs Project # Project Name: Sarasota Land Fil Contact: Bottle Type Project #: 100007910 Preservative Matrix الدد KWKW Phone / Fax: Alt Bill To: Analysis / Method Requested SunLabs Due Date Requested: Sample Description Sample Sample # of Sample # Standard Date Time **Bottles** FDEP PreApproval site Current rates - 2 Old rates 120C GW-2-Cash rates Remarks / Comments: \* Filtered 6W-29 GW-21 NUD 955 1105 Sampler Signature / Date: Printed Name / Affiliation: Vou 4/16/091 SUNLABS, INC. RESERVES THE RIGHT TO BILL FOR UNUSED/ Brad Bayre/ PBS+J UNRETURNED SAMPLES AND TO RETURN UNUSED SAMPLES. Relinguished By: Relinquished To: Date: Preservative Codes: Time: GV = Glass Vial GVS = Low Level Volatile Kit 4/13 H = Hydrochloric Acid + Ice S = Sulfuric Acid + Ice GA = Glass Amber T = Tedlar Bag I = Ice only VS = MeOH, OFW, + Ice Relinquished By: P = Plastic O = Other N = Nitric Acid + Ice Time: O = Other (Specify) S = Soil Jar Matrix Codes: SO = Soil Internal Use Only Relinquished B Relinguished To: SOL = Solid Sample Condition Upon Receipt: Date: Time: DW = Drinking Water SW = Surface Water Y/N/NA Custody Seals present? GW = Ground Water W = Water (Blanks) Shipping Bills attached? Y/N/NA Relinguished By: SE = Sediment Relinquished To: O = Other (Specify) Y N/NA Date: Sample containers intact? Time: Samples within holding times? Temp: 34 Y) N/NA Sufficient volume for all analyses? Q/N/NA SunLabs, Inc. Are vials head-space free? Y/N/NA) Received on Ice? Y N / NA 5460 Beaumont Center Blvd., Suite 520, Tampa, Florida 33634 Proper containers and preservatives? Y /) N / NA Phone: 813-881-9401 / Fax: 813-354-4661 e-mail: info@SunLabsInc.com www.SunLabsInc.com



May 6, 2009

Brad Bayne PBS&J 5300 West Cypress St. Suite #200 Tampa, FL 33607

Re:

SunLabs Project Number:

090423.13

Client Project Description:

Sarasota Landfill

Dear Mr. Bayne:

Enclosed is the report of laboratory analysis for the following samples:

Sample Number	Sample Description	Data Oall 4
83486	GW-18	Date Collected
83487	GW-24	4/22/2009
83488	GW-17	4/22/2009
83489	GW-26	4/22/2009
83490	GW-11	4/22/2009
83491	GW-11 Filtered	4/22/2009
83492		4/22/2009
83493	GW-25	4/22/2009
83494	GW-25 Filtered	4/22/2009
83495	GW-19	4/22/2009
83496	GW-20	4/22/2009
83497	GW-20 Filtered	4/22/2009
83498	GW-10	4/23/2009
	GW-22	4/23/2009
83499	GW-22 Filtered	4/23/2009
83500	GW-15	4/23/2009
83501	Dup B	4/23/2009
83502	GW-23	4/23/2009
83503	GW-21	4/22/2009
83504	GW-16	
83505	Dup C	4/23/2009
83506	GW-14	4/23/2009
		4/23/2009

Ammonia was analyzed by Benchmark Enviroanalytical, Inc. NELAC# E84167. TOC was analyzed by Columbia Analytical Services, Inc. NELAC# E82502.

SunLabs, Inc.

Cover Page 1 of 2

Phone: (813) 881-9401

5460 Beaumont Center Blvd., Suite 520 Tampa, FL 33634 ur

Unless Otherwise Noted and Where Applicable:

Email: Info@SunLabsInc.com Website: www.SunLabsInc.com

Copies of the Chain(s)-of-Custody, if received, are attached to this report.

If you have any questions or comments concerning this report, please do not hesitate to contact us.

Michael W. Palmer

Vice President, Laboratory Operations

Michael W. Palmer

Enclosures

SunLabs, Inc.

5460 Beaumont Center Blvd., Suite 520

Tampa, FL 33634

Cover Page 2 of 2

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Phone: (813) 881-9401

Unless Otherwise Noted and Where Applicable:

Email: Info@SunLabsInc.com Website: www.SunLabsInc.com

These samples were received at the proper temperature and were analyzed as received. The results herein relate only to the items tested or to the samples as received by the laboratory • This report shall not be reproduced except in full, without the written approval of the laboratory • Results for all sold matrices are reported on a dry weight bass • All samples will be disposed of within 45 days of the requirements of the NELAC standards • Footnotes are given at the end of the report • Uncertainty values are available upon request.



SunLabs Project Number

090423.13

PBS&J

Project Description

Sarasota Landfill

May 6, 2009

SunLabs Sample Number Sample Designation

83486 GW-18

Matrix

Groundwater

Date Collected

4/22/2009 09:45

Parameters				Date Received			4/23		
	Method	Units	Results	Dil Facto	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Metals by EPA Method 6010								,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	rrep
Date Digested Date Analyzed	3010		4/24/2009						04/24/09 10:00
Arsenic	6010	mg/L	4/28/2009	1	***************************************			04/28/09 14:07	, ,
Iron	6010	•	0.0048 U	1	0.0048		7440-38-2	04/24/09 18:57	04/24/09 10:00
Ammonia		mg/L	8.0	2	0.0046	0.018	7439-89-6	04/28/09 14:07	04/24/09 10:00
Nitrogen Ammonia (as N)	350.2	mg/L	5.75	1	0.005	0.020		05/01/00 44 50	
Total Dissolved Solids								05/01/09 14:52	
Date Analyzed									
Total Dissolved Solids	0110		4/28/09 S7	1				04/28/09 16:00	
	SM2540C	mg/L	708	1	7.26	29.04		04/28/09 16:00	***************************************



SunLabs **Project Number** 

090423.13

PBS&J

Project Description

Sarasota Landfill

May 6, 2009

SunLabs Sample Number Sample Designation

83487 **GW-24** 

Matrix

Groundwater

Date Collected Date Received

4/22/2009 11:25 4/23/2009 16:00

Parameters	Method	Units	Results	Dil	MDL	RL	CAS	Date/Time	Date/Time
Metals by EPA Method 6010				Factor			Number	Analyzed	Prep
Date Digested									
Date Analyzed	3010		4/24/2009						04/24/00 10:00
Arsenic	5040		4/28/2009	1	***************************************			04/28/09 14:14	04/24/09 10:00
Iron	6010	mg/L	0.0048 U	1	0.0048	0.019	7440-38-2	04/24/09 18:59	04/24/09 10:00
_	6010	mg/L	7.6	2	0.0046	0.018	7439-89-6	04/28/09 14:14	04/24/09 10:00
<u>Ammonia</u>								- , ,	01/24/05 10:00
Nitrogen Ammonia (as N)	350.2	mg/L	0.208		0.005				
Total Dissolved Solids	•		0.200	1	0.005	0.020		05/01/09 14:52	
Date Analyzed									
Total Dissolved Solids	Q		4/28/09 S7	1				04/28/09 16:00	
	SM2540C	mg/L	956	1	7.26	29.04		04/28/09 16:00	



SunLabs **Project Number** 

090423.13

PBS&J

Project Description

Sarasota Landfill

May 6, 2009

SunLabs Sample Number Sample Designation

83488 GW-17

Matrix

Groundwater

Date Collected

4/22/2009 12:10

Date Received

							.,		
Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS	Date/Time	Date/Time
Metals by EPA Method 6010							Number	Analyzed	Prep
Date Digested	2040								
Date Analyzed	3010		4/24/2009						04/24/09 10:00
Arsenic	6010		4/28/2009	1				04/28/09 13:19	04/24/09 10:00
Iron	6010	mg/L	0.018 I		0.0048		7440-38-2		04/24/09 10:00
Ammonia		mg/L	3.3	1	0.0023	0.0092	7439-89-6	04/28/09 13:19	
Nitrogen Ammonia (as N)									
	350.2	mg/L	0.123	1	0.005	0.020		0F/01/00 44 TO	
Total Dissolved Solids								05/01/09 14:52	
Date Analyzed									
Total Dissolved Solids	SM2540C		4/28/09 S7	1				04/28/09 16:00	
s =	J. 120 10C	mg/L	956	1	7.26	29.04		04/28/09 16:00	



SunLabs Project Number

090423.13

PBS&J

Project Description

Sarasota Landfill

May 6, 2009

SunLabs Sample Number Sample Designation

83489 GW-26

Matrix

Groundwater

Date Collected

4/22/2009 12:45

Date Received

_									
Para meters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time	Date/Time
Metals by EPA Method 6010							Mullipel	Analyzed	Prep
Date Digested	3010								
Date Analyzed	3010		4/24/2009						04/24/09 10:00
Arsenic	6010		4/28/2009	1				04/28/09 14:17	0.72.705 10.00
Iron	6010	mg/L	0.010 I	1	0.0048	0.019	7440-38-2	04/24/09 19:09	04/24/09 10:00
	6010	mg/L	19	5	0.012	0.046	7439-89-6	04/28/09 14:17	04/24/09 10:00
<u>Ammonia</u>								3 1/20/05 14.17	04/24/09 10:00
Nitrogen Ammonia (as N)	350.2								
• •	350.2	mg/L	4.58	1	0.005	0.020		05/01/09 14:52	
Total Dissolved Solids								,,	
Date Analyzed									
Total Dissolved Solids	CMOSAGO		4/28/09 S7	1				04/28/09 16:00	
*	SM2540C	mg/L	776	1 7	7.26	29.04		04/28/09 16:00	



SunLabs **Project Number** 

090423.13

PBS&J

Project Description

Sarasota Landfill

May 6, 2009

SunLabs Sample Number Sample Designation

83490 **GW-11** 

Matrix

Groundwater

Date Collected

4/22/2009 13:45

Date Received

Parameters					,, 25, 2005 10.00							
	Method	Units	Results	Dil Factor	MDL	RL	CAS	Date/Time	Date/Time			
Metals by EPA Method 6010							Number	Analyzed	Prep			
Date Digested	2010											
Date Analyzed	3010		4/24/2009						04/24/09 10:00			
Arsenic	6010		4/28/2009	11				04/28/09 14:19	0 1/2 1/03 10.00			
Iron	6010	mg/L	0.0048 U		0.0048	0.019	7440-38-2	04/24/09 19:11	04/24/09 10:00			
Ammonia		mg/L	24	10	0.023	0.092	7439-89-6	04/28/09 14:19	04/24/09 10:00			
Nitrogen Ammonia (as N)	350.2	mg/L	0.414	1	0.005	0.020	•					
Total Dissolved Solids			01121		0.005	0.020		05/01/09 14:52				
Date Analyzed												
Total Dissolved Solids	0110=		4/28/09 S7	1				04/28/09 16:00	-			
3 =	SM2540C	mg/L	584	1 2	7.3	29		04/28/09 16:00				
								- ,, -5 10.00				



SunLabs Project Number

090423.13

PBS&J

Project Description

Sarasota Landfill

May 6, 2009

SunLabs Sample Number Sample Designation

83491

**GW-11 Filtered** 

Matrix

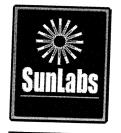
Groundwater

Date Collected

4/22/2009 13:45

Date Received

Parameters		<u> </u>												
raidilictei 5	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time					
Metals by EPA Method 6010							Mullipel	Allalyzed	Prep					
Date Digested Date Analyzed	3010	***************************************	4/24/2009						04/24/09 10:00					
Arsenic Iron	6010	mg/L	4/28/2009 0.0048 U	1	0.0048	0.010	7440-38-2	04/28/09 14:22						
1011	6010	mg/L	26			0.019	7439-89-6	04/24/09 19:14 04/28/09 14:22	, - , 20.00					



SunLabs **Project Number** 

090423.13

PBS&J

Project Description

Sarasota Landfill

May 6, 2009

SunLabs Sample Number Sample Designation

83492 **GW-25** 

Matrix

Date Collected

Groundwater

Date Received

4/22/2009 14:25 4/23/2009 16:00

					1 1/==== 40.00						
Parameters	Method	Units	Results	Dil Fac	MD tor	L RL	CAS Number	Date/Time Analyzed	Date/Time		
Anions by Ion Chromatography								Andryzeu	Prep		
Date Analyzed											
Chloride	300.0		04/23/2009	1				04/23/09 22:37	7 04/23/09 13:00		
Nitrate as N	300.0	mg/L	75	5	0.22	0.9	16887-00-6	04/28/09 16:40	,, 20:00		
Sulfate		mg/L	0.014 U	1	0.014	0.056	14797-55-8	04/23/09 22:37	- 7702 20:10		
	300.0	mg/L	0.036 U	1	0.036	0.14	14808-79-8	04/27/09 18:52	- 7-5705 15.00		
Metals by EPA Method 6010								- , - , - , - , - , - , - , - , - , - ,	07/2//09 13:45		
Date Digested	3010										
Date Analyzed	2010		4/24/2009						04/24/09 10:00		
Arsenic	6010		4/28/2009	1				04/28/09 13:01	0 72 705 10.00		
Iron	6010	mg/L	0.009 I	1		0.019	7440-38-2	04/24/09 19:16	04/24/09 10:00		
Manganese	6010	mg/L	4.9	1	0.0023	0.0092	7439-89-6	04/28/09 13:01	, -,		
Sodium	6010	mg/L	0.007	1	0.0006	0.0024	7439-96-5	04/28/09 13:01	04/24/09 10:00		
	0010	mg/L	130 V -	2	0.022	0.088	7440-23-5	04/28/09 11:20	04/24/09 10:00		
Total Alkalinity									0,72,703 10.00		
Date analyzed			4/20/202						• *		
Total Alkalinity as CaCO3	SM2320B	ma/l	4/30/2009	1				04/30/09 12:00	04/30/09 12:00		
Amenia	0. 120200	mg/L	550	1	1.2	5		04/30/09 12:00	04/30/09 12:00		
<u>Ammonia</u>									, - , 12.00		
Nitrogen Ammonia (as N)	350.2	mg/L	0.135								
Total Dissolved C- !! !		mg/c	0.125	1	0.005	0.020		05/01/09 14:52			
Total Dissolved Solids											
Date Analyzed			4/28/09 S7								
Total Dissolved Solids	SM2540C	mg/L	836	1 1	7.26	20.0.		04/28/09 16:00			
Total Organic Carbon		3/2	630	1	7.26	29.04		04/28/09 16:00			
Date Analyzed											
			5/1/09	1							
otal Organic Carbon	9060	mg/L	57	1	0.5	1		05/01/09 12:09			
		- <del></del>	3,	1	0.3	1		05/01/09 12:09			



SunLabs Project Number

090423.13

PBS&J

Project Description

Sarasota Landfill

May 6, 2009

SunLabs Sample Number

Sample Designation

83493

**GW-25 Filtered** 

Matrix

/latrix

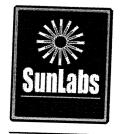
Groundwater

Date Collected

4/22/2009 14:25

Date Received

Para meters	Method	Units	Results	Dil Factor	MDL	RL	CAS	Date/Time	Date/Time
Metals by EPA Method 6010 Date Digested	3010						Number	Analyzed	Prep
Date Analyzed	2010		4/24/2009 4/28/2009				***************************************		04/24/09 10:00
Arsenic Iron	6010	mg/L	0.009 I	1	0.0048	0.019		04/28/09 13:28 04/24/09 19:18	
	6010	mg/L	4.7	1	0.0023	0.0092			



SunLabs Project Number

090423.13

PBS&J

Project Description

Sarasota Landfill

May 6, 2009

SunLabs Sample Number Sample Designation

83494 GW-19

Matrix

Groundwater

Date Collected

4/22/2009 15:10

Date Received

Parameters		***************************************							
	Method	Units	Results	Dil Factor	MDL	RL	CAS	Date/Time	Date/Time
Metals by EPA Method 6010				1 0001			Number	Analyzed	Prep
Date Digested	2010								
Date Analyzed	3010		4/24/2009						04/24/00 +0
Arsenic			4/28/2009	1			***************************************	04/28/09 14:24	04/24/09 10:00
Iron	6010	mg/L	0.0048 U	1	0.0048	0.019	7440-38-2	04/24/09 19:21	
_	6010	mg/L	5.9	2	0.0046	0.018	7439-89-6	04/28/09 14:24	04/24/09 10:00
<u>Ammonia</u>						-		0-7/20/09 14:24	04/24/09 10:00
Nitrogen Ammonia (as N)	350.2								
Tatal m.	330.2	mg/L	0.133	1	0.005	0.020		05/01/09 14:52	
Total Dissolved Solids								, ,	
Date Analyzed			4/20/00						
Total Dissolved Solids	SM2540C	ma/l	4/28/09 S7	1				04/28/09 16:00	
		mg/L	768	1 7	7.26	29.04		04/28/09 16:00	



SunLabs **Project Number** 

090423.13

PBS&J

Project Description

Sarasota Landfill

May 6, 2009

SunLabs Sample Number Sample Designation

83495 **GW-20** 

Matrix

Groundwater

Date Collected

4/22/2009 16:21

Date Received

							. 1/2	3/2009 10:00	
Parameters	Method	Units	Results	Dil Fac	MD ctor	L RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Anions by Ion Chromatography								Anaryzeu	Prep
Date Analyzed									
Chloride	300.0		04/23/2009	1				04/23/09 22:53	04/23/09 13:0
Nitrate as N	300.0	mg/L	109	10	0.45	1.8	16887-00-6	04/29/09 15:40	
Sulfate	300.0	mg/L	0.014 U	1	0.014	0.056	14797-55-8	04/23/09 22:53	7 7 1
	300.0	mg/L	3.2	1	0.036	0.14	14808-79-8		04/27/09 13:45
Metals by EPA Method 6010								- 72.705 15.20	07/2//09 13:43
Date Digested	3010								
Date Analyzed	3010		4/24/2009						04/24/09 10:00
Arsenic	6010	,,	4/28/2009	1				04/28/09 13:03	0 72 703 10.00
Iron	6010	mg/L	0.015 I	1	0.0048	0.019	7440-38-2	04/24/09 19:23	04/24/09 10:00
Manganese	6010	mg/L	3.6	1	0.0023	0.0092	7439-89-6	04/28/09 13:03	04/24/09 10:00
Sodium - ~		mg/L	0.011	1	0.0006	0.0024	7439-96-5	04/28/09 13:03	04/24/09 10:00
	6010	mg/L	210 V_	5	0.055	0.22	7440-23-5	04/28/09 11:24	
Total Alkalinity							-	0 1/20/03 11.24	04/24/09 10:00
Date analyzed									
Total Alkalinity as CaCO3	SM2320B		4/30/2009	1				04/30/09 12:00	04/30/09 12:00
7.00	3M2320B	mg/L	570	1	1.2	5			04/30/09 12:00
<u>Ammonia</u>								- 1,50,05 12.00	04/30/09 12:00
Nitrogen Ammonia (as N)	350.2								
	330.2	mg/L	0.716	1	0.005	0.020		05/01/09 14:52	
Total Dissolved Solids								,,	
Date Analyzed									
otal Dissolved Solids	SM2540C	/1	4/28/09 S7	1				04/28/09 16:00	
Catal O 1 a .	31123700	mg/L	940	1	7.26	29.04		04/28/09 16:00	
otal Organic Carbon									
ate Analyzed									
otal Organic Carbon	9060		5/1/09	1				05/01/09 12:09	
	3000	mg/L	57	1	0.5	1		05/01/09 12:09	



SunLabs **Project Number** 

090423.13

PBS&J

Project Description

Sarasota Landfill

May 6, 2009

SunLabs Sample Number Sample Designation

83496 **GW-20 Filtered** 

Matrix

Groundwater

Date Collected

4/22/2009 16:21

Date Received

							.,,	2005 10.00	
Parameters Motela has 500 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Metals by EPA Method 6010  Date Digested  Date Analyzed	3010		4/24/2009 4/28/2009	1					04/24/09 10:00
Arsenic Iron	6010 6010	mg/L mg/L	0.009 I 3.4		0.0048 0. 0.0023 0.		7440-38-2	<b>- -</b>	04/24/09 10:00



SunLabs Project Number

090423.13

PBS&J

Project Description

Sarasota Landfill

May 6, 2009

SunLabs Sample Number Sample Designation

83497 GW-10

Matrix

Groundwater

Date Collected

4/23/2009 11:45

Date Received

							,	, =====================================	
Para meters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time	Date/Time
Metals by EPA Method 6010							Maniper	Analyzed	Prep
Date Digested	3010								
Date Analyzed	2010		4/24/2009						04/24/09 10:00
Arsenic	6010		4/28/2009	1		····		04/28/09 14:26	
Iron	6010	mg/L	0.0048 U		0.0048		7440-38-2	04/24/09 19:28	
	0010	mg/L	5.9	2	0.0046	0.018	7439-89-6	04/28/09 14:26	04/24/09 10:00
Ammonia							,		
Nitrogen Ammonia (as N)	350.2	mg/L	1.29 *						
Total Dissolved Solids		mg/L	1.29	1	0.005	0.020		05/01/09 14:52	
Date Analyzed									
Total Dissolved Solids			4/28/09 S7	1					
Total Dissolved Solids	SM2540C	mg/L	832	1	7.26	20.04		04/28/09 16:00	
÷ ±		31 -	332	1	7.20	29.04		04/28/09 16:00	



SunLabs Project Number

090423.13

PBS&J

Project Description

Sarasota Landfill

May 6, 2009

SunLabs Sample Number Sample Designation

83498 GW-22

Matrix

Groundwater

Date Collected

4/23/2009 09:00

Date Received

Method	Units	Results	Dil Factor		RL	CAS	Date/Time	Date/Time
						Mullipet	Analyzea	Prep
2010								
3010								04/24/09 10:00
		4/28/2009	1				04/28/09 14:20	01/24/09 10:00
	mg/L	0.0048 U	1	0.0048	0.019	7440-38-2		04/24/00 40.00
6010	mg/L	7.7	2	0.0046	0.018			04/24/09 10:00
							01/20/05 14:29	04/24/09 10:00
350.2	mg/L	0.157	1	0.005	0.020		2=12	
	<b>-</b>		-	0.003	0.020		05/01/09 14:52	
		4/28/09 S7	1				04/28/00 16:00	
SM2540C	mg/L	2492	1	7.26	29.04			
	3010 6010 6010	3010  6010 mg/L  6010 mg/L  350.2 mg/L	3010 4/24/2009 4/28/2009 6010 mg/L 0.0048 U 6010 mg/L 7.7 350.2 mg/L 0.157	3010 4/24/2009  4/28/2009 1 6010 mg/L 0.0048 U 1 6010 mg/L 7.7 2  350.2 mg/L 0.157 1  4/28/09 S7 1	3010 4/24/2009  4/28/2009 1 6010 mg/L 0.0048 U 1 0.0048 6010 mg/L 7.7 2 0.0046  350.2 mg/L 0.157 1 0.005	3010 4/24/2009  4/28/2009 1 6010 mg/L 0.0048 U 1 0.0048 0.019 6010 mg/L 7.7 2 0.0046 0.018  350.2 mg/L 0.157 1 0.005 0.020	3010 4/24/2009  4/28/2009 1 6010 mg/L 0.0048 U 1 0.0048 0.019 7440-38-2 6010 mg/L 7.7 2 0.0046 0.018 7439-89-6  350.2 mg/L 0.157 1 0.005 0.020	3010 4/24/2009  4/28/09 1 0.0048 U 1 0.0046 0.018 7439-89-6 04/28/09 14:29  350.2 mg/L 0.157 1 0.005 0.020 05/01/09 14:52



SunLabs Project Number

090423.13

PBS&J

Project Description

Sarasota Landfill

May 6, 2009

SunLabs Sample Number Sample Designation

83499

**GW-22 Filtered** 

Matrix

пх

Groundwater

Date Collected Date Received

4/23/2009 09:00 4/23/2009 16:00

				, , =====								
Parameters	Method	Units	Results	Dil Factor		RL	CAS Number	Date/Time Analyzed	Date/Time			
Metals by EPA Method 6010 Date Digested	3010		4/24/2009				.vambe.	Allalyzeu	Prep			
Date Analyzed Arsenic	6010	mg/L	4/28/2009 0.0048 U	1	0.00.0		***************************************	04/28/09 14:36				
Iron	6010	mg/L	7.1		0.0048 0 0.0046 0			04/24/09 19:37 04/28/09 14:36	. , - ,			



SunLabs **Project Number** 

090423.13

PBS&J

Project Description

Sarasota Landfill

May 6, 2009

SunLabs Sample Number Sample Designation

83500 **GW-15** 

Matrix

Groundwater

Date Collected

4/23/2009 10:15

Date Received

Day-		1/25/2005 10:00							
Para meters	Method	Units	Results	Dil Fac		L RL	CAS Number	Date/Time Analyzed	Date/Time
Anions by Ion Chromatography								Anaryzea	Prep
Date Analyzed									
Chloride	300.0		04/24/2009	1				04/24/09 18:49	04/24/09 14:00
Nitrate as N	300.0	mg/L	370	50	2.2	9	16887-00-6	04/28/09 17:34	
Sulfate		mg/L	0.014 U	1	0.014	0.056	14797-55-8	04/24/09 18:49	
	300.0	mg/L	37	1	0.036	0.14	14808-79-8		04/24/09 14:00
Metals by EPA Method 6010									04/24/05 14:00
Date Digested	3010								
Date Analyzed	3010		4/24/2009						04/24/09 10:00
Arsenic	6010		4/28/2009	1				04/28/09 14:10	
Iron	6010	mg/L	0.17	1	0.0048	0.019	7440-38-2	04/24/09 19:39	04/24/09 10:00
Manganese	6010	mg/L	32	10	0.023	0.092	7439-89-6	04/28/09 14:10	04/24/09 10:00
Sodium	6010	mg/L	0.015	1	0.0006	0.0024	7439-96-5	04/28/09 13:06	04/24/09 10:00
<b></b>	9010	mg/L	120 V _	2	0.022	0.088	7440-23-5	04/28/09 11:27	04/24/09 10:00
Total Alkalinity								, ==, == ==,	0 1/2 1/03 10:00
Date analyzed									-
Total Alkalinity as CaCO3	SM2320B		4/30/2009	1				04/30/09 12:00	04/30/09 12:00
	31-12-32-05	mg/L	770	1	1.2	5			04/30/09 12:00
Ammonia									,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Nitrogen Ammonia (as N)	350.2	mg/L	10.1						
Total Discolved Call 4		nig/L	10.1	1	0.005	0.020		05/01/09 14:52	
Total Dissolved Solids									
Date Analyzed			4/28/09 S7						
otal Dissolved Solids	SM2540C	mg/L	1728	1	7.00			04/28/09 16:00	
otal Organic Carbon		9/ €	1/20	1	7.26	29.04		04/28/09 16:00	
rate Analyzed			5/1/09						
otal Organic Carbon	9060	mg/L	55	1	0.5			05/01/09 12:09	
					0.5	l		05/01/09 12:09	



SunLabs Project Number

090423.13

PBS&J

Project Description

Sarasota Landfill

May 6, 2009

SunLabs Sample Number Sample Designation

83501 Dup B

Matrix

Groundwater

Date Collected

4/23/2009 10:15

Date Received

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS	Date/Time	Date/Time
Metals by EPA Method 6010							Number	Analyzed	Prep
Date Digested	2010								
Date Analyzed	3010		4/24/2009						04/24/09 10:00
Arsenic	6010		4/28/2009	1				04/28/09 14:38	04/24/09 10:00
Iron	6010	mg/L	0.14	1	0.0048	0.019	7440-38-2	04/24/09 19:42	04/24/09 10:00
A	0010	mg/L	31	10	0.023	0.092	7439-89-6	04/28/09 14:38	04/24/09 10:00
<u>Ammonia</u>							the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon		
Nitrogen Ammonia (as N)	350.2	mg/L	10.7		0.00=				
Total Dissolved Solids		3/-	10.7		0.005	0.020		05/01/09 14:52	
Date Analyzed									
Total Dissolved Solids		***************************************	4/28/09 S7	1				04/39/00 16:00	
	SM2540C	mg/L	1692	1	7.26	29.04		04/28/09 16:00 04/28/09 16:00	
50 ma		*						01/20/09 10:00	



SunLabs Project Number

090423.13

PBS&J

Project Description

Sarasota Landfill

May 6, 2009

SunLabs Sample Number Sample Designation

83502 GW-23

Matrix

Groundwater

Date Collected

4/23/2009 10:20

Date Received

							,		
Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time
Metals by EPA Method 6010							· · · · · · · · · · · · · · · · · · ·	Allalyzed	Prep
Date Digested	3010								
Date Analyzed	2010		4/24/2009						04/24/09 10:00
Arsenic	5040		4/28/2009	1				04/28/09 14:41	
Iron	6010	mg/L	0.0048 U	1	0.0048	0.019	7440-38-2	04/24/09 19:44	
	6010	mg/L	11	5	0.012	0.046	7439-89-6	04/28/09 14:41	
<u>Ammonia</u>								0 1/20/03 14:41	04/24/09 10:00
Nitrogen Ammonia (as N)	350.2	mg/L	0.223	1	0.005	0.020		05/04/00	
Total Dissolved Solids				-		0.020		05/01/09 14:52	
Date Analyzed									
Total Dissolved Solids			4/28/09 S7	1				04/28/09 16:00	
TOWN DISSUIVED SOURCE	SM2540C	mg/L	608	1	7.26	29.04			
- <del></del>						23.07		04/28/09 16:00	7000



SunLabs Project Number

090423.13

PBS&J

Project Description

Sarasota Landfill

May 6, 2009

SunLabs Sample Number Sample Designation

83503 GW-21

Matrix

Groundwater

Date Collected

4/22/2009 16:25

Date Received

							. 1/2	3/2003 10.00	
Parameters	Method	Units	Results	Dil Fac	MD tor	L RL	CAS Number	Date/Time Analyzed	Date/Time
Anions by Ion Chromatography								Allaryzed	Prep
Date Analyzed Chloride			04/24/2009	1				04/24/09 19:42	
Nitrate as N	300.0	mg/L	340	50	2.2	9	16887-00-6	04/28/09 18:00	, . ,
Sulfate	300.0	mg/L	2.1	1	0.014	0.056	14797-55-8	04/24/09 19:42	
	300.0	mg/L	3.8	1	0.036	0.14	14808-79-8		
Metals by EPA Method 6010							21000 7 3 0	04/24/09 19:42	04/24/09 14:00
Date Digested	3010		4/24/2009						
Date Analyzed			4/28/2009						04/24/09 10:00
Arsenic	6010	mg/L	0.0048 U	1		2.2		04/28/09 14:12	
Iron	6010	mg/L	6.8	1	0.0048		7440-38-2	04/24/09 19:46	04/24/09 10:00
Manganese	6010	mg/L	0.018	2	0.0046		7439-89-6	04/28/09 14:12	04/24/09 10:00
Sodium	6010	mg/L	180 V-	1	************************	0.0024	7439-96-5	04/28/09 13:09	04/24/09 10:00
Total Alkalinity		9, =		5	0.055	0.22	7440-23-5	04/28/09 11:29	04/24/09 10:00
Date analyzed			. *						
Total Alkalinity as CaCO3			4/30/2009	1				04/30/00 12:00	
and the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of th	SM2320B	mg/L	330	1	1.2	5		04/30/09 12:00 04/30/09 12:00	04/30/09 12:00
<u>Ammonia</u>					*******************			04/30/09 12:00	04/30/09 12:00
litrogen Ammonia (as N)	350.2	ma/I							
Total Discolus I G II I		mg/L	0.143	1	0.005	0.020		05/01/09 14:52	
otal Dissolved Solids									
ate Analyzed			4/28/09 S7						
otal Dissolved Solids	SM2540C	mg/L	1020	1				04/28/09 16:00	
otal Organic Carbon		g/ L	1020	1	7.26	29.04		04/28/09 16:00	
ate Analyzed									
otal Organic Carbon			5/1/09	1				05/04/00	
ocal Organic Carbon	9060	mg/L	39	1	0.5	1		05/01/09 12:09	
								05/01/09 12:09	



SunLabs **Project Number** 

090423.13

PBS&J

Project Description

Sarasota Landfill

May 6, 2009

SunLabs Sample Number Sample Designation

83504 **GW-16** 

Matrix

0.5 1

Date Collected

Groundwater

4/23/2009 12:30

05/01/09 12:09

								7/2009 12:30	
					Date R	eceived	i 4/23		
Parameters	Method	Units	Results	Dil Fac	MD tor	L RL	CAS Number	Date/Time Analyzed	Date/Time
Anions by Ion Chromatography								Allalyzeu	Prep
Date Analyzed									
Chloride	300.0		04/24/2009	1				04/24/09 21:03	04/24/09 14:00
Nitrate as N	300.0	mg/L	66	5	0.22	0.9	16887-00-6	04/28/09 18:27	
Sulfate	300.0	mg/L	0.014 U	1	0.014	0.056	14797-55-8	04/24/09 21:03	, - , 1100
	300.0	mg/L	0.036 U	1	0.036	0.14	14808-79-8	04/24/09 21:03	
Metals by EPA Method 6010									
Date Digested	3010		4/20/200						
Date Analyzed	3010		4/28/2009						04/28/09 10:00
Arsenic	6010	m = /1	4/30/2009	1				04/30/09 13:21	
Iron	6010	mg/L	0.23	1		0.019	7440-38-2	04/29/09 23:16	04/28/09 10:00
Manganese	6010	mg/L	30	10	0.023	0.092	7439-89-6	04/30/09 13:21	04/28/09 10:00
Sodium	6010	mg/L	0.010	1		0.0024	7439-96-5	04/30/09 12:55	
Tabel Aller :	0010	mg/L	87 V –	1	0.011	0.044	7440-23-5	04/30/09 12:00	04/28/09 10:00
Total Alkalinity			. •						, ==, == 20100
Date analyzed			4/20/2000						
Total Alkalinity as CaCO3	SM2320B	mg/L	4/30/2009	1				04/30/09 12:00	04/30/09 12:00
Ammonia		mg/c	710	1	1.2	5		04/30/09 12:00	04/30/09 12:00
litrogen Ammonia (as N)	350.2	mg/L	17.3		0.005	0.000			
otal Dissolved Solids			17.5	1	0.005	0.020		05/01/09 14:52	
ate Analyzed			4/28/09 S7	1					
otal Dissolved Solids	SM2540C	mg/L	900	1	7.26	29.04		04/28/09 16:00	
otal Organic Carbon		3, -	230	-	1.20	25.04		04/28/09 16:00	
ate Analyzed									
otal Organic Carbon			5/1/09	1				05/04/00 45	
star Organic Carbon	9060	mg/L	40	1	0.5	1		05/01/09 12:09	



SunLabs Project Number

090423.13

PBS&J

Project Description

Sarasota Landfill

May 6, 2009

SunLabs Sample Number Sample Designation

83505 Dup C

Matrix

Groundwater

Date Collected Date Received

4/23/2009 12:30 4/23/2009 16:00

				7 - 37 - 2003 10.00								
Para meters	Method	Units	Results	Dil Fac	MD:	L RL	CAS Number	Date/Time Analyzed	Date/Time			
Anions by Ion Chromatography								Allalyzeu	Prep			
Date Analyzed												
Chloride	300.0		04/24/2009	1				04/24/09 21:30	04/24/09 14:00			
Nitrate as N	300.0	mg/L	66	5	0.22	0.9	16887-00-6	04/28/09 18:54				
Sulfate	300.0	mg/L	0.014 U	1	0.014	0.056	14797-55-8	04/24/09 21:30	,			
	300.0	mg/L	0.036 U	1	0.036	0.14	14808-79-8	04/24/09 21:30	- / - / 1100			
Metals by EPA Method 6010									072703 14.00			
Date Digested	3010		4 (0.0 (0.0 -									
Date Analyzed	3010		4/28/2009						04/28/09 10:00			
Arsenic	6010	ma/l	4/30/2009	1				04/30/09 13:23	, , , , = = = = = = = = = = = = = = = =			
Iron	6010	mg/L	0.22	1	0.0048		7440-38-2	04/29/09 23:18	04/28/09 10:00			
Manganese	6010	mg/L mg/L	29	10	0.023	0.092	7439-89-6	04/30/09 13:23	04/28/09 10:00			
Sodium	6010		0.010	1		0.0024	7439-96-5	04/30/09 12:58	04/28/09 10:00			
Total Alkalinity		mg/L	86 V_	1	0.011	0.044	7440-23-5	04/30/09 12:02	04/28/09 10:00			
									. ,			
Date analyzed			4/30/2009									
Fotal Alkalinity as CaCO3	SM2320B	mg/L	720	1	1.2	_		04/30/09 12:00	04/30/09 12:00			
Ammonia		- Marian	/20		1.2	5		04/30/09 12:00	04/30/09 12:00			
litrogen Ammonia (as N)												
ntrogen Ammonia (as N)	350.2	mg/L	17.3	1	0.005	0.020		25/24/55				
otal Dissolved Solids					0.003	0.020		05/01/09 14:52				
Pate Analyzed												
otal Dissolved Solids	C110.7.		4/28/09 S7	1				04/28/09 16:00				
	SM2540C	mg/L	904	1	7.26	29.04		04/28/09 16:00				
otal Organic Carbon								5 1/20/03 10:00				
ate Analyzed												
otal Organic Carbon	9060		5/1/09	1				05/01/09 12:09				
	3000	mg/L	38	1	0.5	L		05/01/09 12:09				



SunLabs **Project Number** 

090423.13

PBS&J

Project Description

Sarasota Landfill

May 6, 2009

SunLabs Sample Number Sample Designation

83506 **GW-14** 

Matrix

Groundwater

Date Collected

4/23/2009 13:15

Date Received

						CCCIVC	7/2		
Parameters	Method	Units	s Results		MD tor	L RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Anions by Ion Chromatography								· ·····yaca	ггер
Date Analyzed									
Chloride	300.0		04/25/2009	1				04/25/09 00:37	04/24/09 14:00
Nitrate as N	300.0	mg/L	220	20	0.9	3.6	16887-00-6	04/29/09 16:07	
Sulfate	300.0	mg/L	0.014 U	1	0.014	0.056	14797-55-8	04/25/09 00:37	. , - , 1100
	300.0	mg/L	2.1	1	0.036	0.14	14808-79-8	04/25/09 00:37	- , - , - 5
Metals by EPA Method 6010									
Date Digested	3010		4/20/2000						
Date Analyzed	3010		4/28/2009						04/28/09 10:00
Arsenic	6010	ma/l	4/30/2009	1				04/30/09 13:25	
Iron	6010	mg/L	0.041	1		0.019	7440-38-2	04/29/09 23:31	04/28/09 10:00
Manganese	6010	mg/L	38	10	0.023	0.092	7439-89-6	04/30/09 13:25	04/28/09 10:00
Sodium	6010	mg/L	0.008	1		0.0024	7439-96-5	04/30/09 13:00	04/28/09 10:00
Total Alkalinity	5010	mg/L	180 V_	2	0.022	0.088	7440-23-5	04/30/09 12:16	04/28/09 10:00
Date analyzed			4/30/2009						*
Total Alkalinity as CaCO3	SM2320B	mg/L	860	1		_		04/30/09 12:00	04/30/09 12:00
Ammonia			000	11	1.2	5		04/30/09 12:00	04/30/09 12:00
Nitrogen Ammonia (as N)	350.2	mg/L	14,4	1	0.005	0.020			
otal Dissolved Solids					0.003	0.020		05/01/09 14:52	
Pate Analyzed									
otal Dissolved Solids			4/28/09 S7	1				04/20/00 44	
our propried 201102	SM2540C	mg/L	1336	1	7.26	29.04		04/28/09 16:00	
otal Organic Carbon				-		-510 (		04/28/09 16:00	
ate Analyzed									
otal Organic Carbon			5/1/09	1				05/01/09 12:09	
James Garbon	9060	mg/L	44	1	0.5	1		05/01/09 12:09	



SunLabs Project Number

090423.13

PBS&J

Project Description

Sarasota Landfill

May 6, 2009

#### Footnotes SunLabs is not currently NELAC certified for this analyte. The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit. LCS Laboratory Control Sample LCSD Laboratory Control Sample Duplicate ΜB Method Blank MS Matrix Spike MSDMatrix Spike Duplicate NA Sample not analyzed at client's request. RL RL(reporting limit) = PQL(practical quantitation limit). RPDRelative Percent Difference This analysis performed by Benchmark EnviroAnalytical, Inc., Certification number E84167. 57 U Compound was analyzed for but not detected. Indicates that the analyte was detected in both the sample and the associated method blank.



#### **Quality Control Data**

Project Number

PBS&J

090423.13

Project Description

Sarasota Landfill

Test:	Batch No:	C8995	7						· - · · · · · · · · · · · · · · · · · ·								May 6, :
TestCode   Spine   S				nh.									les			***************************************	
Blank   LCS   LCS   LCS   RPD  QC   Limits     RS   MS   MS   RPD  QC   Limits     RPD   MS   RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD     RPD	estCode:		y ion omomatogra	puy							03432, 0	J490					
Parent Surppis Number		300.0															
September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   Sept	ompouru		Blank					)Q	C Limits	- MS	MS	MSD	ppr		C I imite		
Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound	broad Committee Maria		1	Spike	%Red	%Rec	%							_			
Name as N   0.016 U   5.00   95   97   2   3   85-116   5.00   104   107   3   15   0.207										Ť				KPU	M:	s :::	
Name as a N   0.016   U   5.00   94   102   8   10   80-122   5.00   108   112   4   8   43-152				5.00	95	97	2	3	85-116	5 504			•			_	į
Batch No: C9009   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated				5.00	106	111			*****								
Batch No:   C9009   September   C9009   C9009   September   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009   C9009	iu ale as iv		0.014 U	5.00	94	102	8										
Test: Metals by EPA Method 6010  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-L  TestCode: 6010-	Ratch No:	Canna				***************************************			00 122	- 3.00	) 30	30	- 6	11	42-15	2	
Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   Salada   S											Associate	d Samela					
TestCode:   60104   CS   LCS   LCS   LCS   RPD   -QC Limits-   MS   MS   MS   MS   MS   MS   MS   M	est:	Metals by	EPA Method 6010	)							83486 83	487 83 <i>4</i> 1	88 8348	80 83400	02404 0	2400 00	400 0040
Stank   CS   LCS   LCS   LCS   RPD  QC   Limits   MS   MS   MS   MS   MS   MS   MS   M	estCode:			•							83495, 83	496, 8349	97. 8349	8. 83499	, 03491, 6. 83500 8	3492, 83 3501	193, 83494,
Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spik	ompound	30.00											,	-, -, -,	, 00000, 0.	0001, 00	102, 03303
Prevent Sample Number   Arcenic Content Sample Number   Arce	mpound		Blank		LCS		RPD	QC	Limits	MS	MS	Men	DDD				
Associated Samples   Announce   Associated Samples   Announce   Associated Samples   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   Announce   A				Spike	%Rec	%Rec	%										Qualifie
Trops	•													KPU	MS		
Managamese			0.0048 U	1000	102	101	1	8	88-112	1000							
Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description   Description			0.0023 U	1000	101	98											
Batch No: C9017    Second Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compound   Compoun			0.0006 U	1000	101										0-289		
Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part	dium	***************************************	0.26	10.0											76-113		
Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associated Samples   Associa	atch No:	C0047		***************************************	am new again				05-114	10.0	U-	0*	NA	14	72-125		
## SelScode: 300.0    Blank	aton NO.	C3017								٠ ٨	nonciated	Camada					
Self-Code   300.0   Blank	st:	Anions by	Ion Chromatograpi	hv											***************************************		
Blank   CS   CS   CS   CS   RPD  QC   CImits   MS   MS   MS   RPD   MS   RPD   MS   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RP	tCode:		ion omornatograpi	ııy						U	0000, 000	03, 03304	4, 83505	, 83506			
Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Cont		300.0															
Spike   %Rec   % RPD   LCS   Spike   %Rec   % RPD   LCS   Spike   %Rec   % RPD   MS   MSD   MS   MSD   MS   MSD   MS   MS	npouna		Blank	LCS	LCS	LCSD	RPD	00	imite	ис	110						
Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Number   Sample Numbe				Spike						1							Qualifiers
Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spike   Spik										Орика			76	RPD	MS	KPD	
Name	***************************************		0.016 U	5.00	87	95	0 *	2	04 447	5.00							
String   SN   0.016 U   5.00   89   95   7   7   81-120   5.00   95   94   1   8   43-152			0.045 U .	10.00						*******************				***************************************	24-163		
Marke as N   0.014   U   5.00   91   100   9   10   80-122   5.00   98   98   0   11   42-152			0.016 U			***************							1	15	0-207		
## Associated Samples   Cantest			0.014 U											8	43-152		
### Associated Samples ### Associated Samples ### Associated Samples ### Associated Samples ### Associated Samples ### Associated Samples ### Associated Samples ### Associated Samples ### Associated Samples ### Associated Samples ### Associated Samples ### Blank    CS			0.022 U		***************************************				***************************************				0	11	42-152		
Associated Samples ast: Anions by Ion Chromatography  ast Spike	ite		0.036 U	,			***************************************				***************************************	***************************************	3	15	61-123		
Anions by Ion Chromatography  StCode: 300.0    Blank	toh Na.	00000				30		<u> </u>	91-114	25.00	98	98	0	21	0-236		
### Anions by Ion Chromatography ### stCode: 300.0  ### Spike #Rec #Rec #Rec #Rec #Rec #Rec #Rec #Re	ILCH NO.	C9039															
Blank   CS   Spike   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec   WRec	it:	Anions by Id	on Chromatograph												·····		
Blank	ode:		on omornatograph	y						034	+92, 0349	•					
CCS		300.0					_										
Spike %Rec %Rec % RPD LCS Spike %Rec % RPD LCS Spike %Rec % RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD MS RPD M	pouna		Blank	LCS	LCS L	CSD F	RPD	OC 1 i	mit e	ue	ис .	100					
## Sample Number   10.00   99   99   99   99   99   99   99				Spike	%Rec %					_							Qualifiers
fate 0.045 U 10.00 99 99 0 3 85-116 10.00 28 28 0 15 0-207  atch No: C9047  St: Metals by EPA Method 6010  Code: 6010-L  Inpound Blank										Оріко			76	RPD	MS	RPD	
Associated Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Samples   Sam			0.045 U	10.00	99	99	٥	2	05 440	40.00							
atch No: C9047  st: Metals by EPA Method 6010  Blank	e		0.036 U											15	0-207		
St:   Metals by EPA Method 6010	tah Na	00047	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon			33	***************************************	3	91-114	25.00	100 1	00	0	21	0-236		
Metals by EPA Method 6010   83504, 83505, 83506	LCH NO.	C9047															
Code:	:	Metals by FE	DA Mothad CO10							ASS	ociated Sa	mples		***************************************			
Blank   LCS   LCS   LCS   RPD  QC   Limits   MS   MS   MSD   RPD  QC   Limits   Dup   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD   RPD			A MERIOR ON IN							8350	)4, 83505,	83506					
CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS   CCS		6010-L															
Prit Sample Number   Spike   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %Rec   %	ound		Blank	LCS I	CS IC	ים תפי	DN.	00.1:-	. 24 -								
nt Sample Number  nic 0.0048 U 1000 93 95 2 8 88-112 1000 97 95 2 8 78-117  nium 0.001 U 1000 93 91 2 10 87-116 1000 87 89 2 11 70-120		_													nits		Qualifiers
um 0.0048 U 1000 93 95 2 8 88-112 1000 97 95 2 8 78-117 mium 0.001 U 1000 93 91 2 10 87-116 1000 87 89 2 11 70-120	Sample Number					'	- "	ır U	LUS	Spike %	orec %F	(80 '	%	RPD	MS	RPD	
um 0.001 U 1000 93 91 2 10 87-116 1000 87 89 2 11 70-120			0.0048 U	1000	no ^			_		ε	33504 835	04				— <u> </u>	
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	ım		0.0000			******************************	-		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1000	87 8						•
mium 0.0035 U 1000 98 96 2 3 87-110 1000 93 89 4 10 73-116	um		2.222						7-110	1000		*					
0.0035 U 1000 96 96 0 10 91-112 1000 89 85 5 * 4 70-122			0.000	******************			)	10 9	1-112	1000							

SunLabs, Inc.

5460 Beaumont Center Blvd., Suite 520

Tampa, FL 33634

Laboratory ID Number - E84809

0-289 Phone: (813) 881-9401

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Email: Info@SunLabsInc.com Website: www.SunLabsInc.com



## **Quality Control Data**

Project Number

PBS&J

090423.13

Project Description

Sarasota Landfill

May 6, 2009

Batch No: Test: TestCode:	C9047 Metals by 1	EPA Method 6010									d Sample 1505, 835				IVI	ay 0, 20
Compound  Parent Sample Number		Blank	LCS Spike	LCS %Rec	LCSD %Rec	RPD %	QC RPD	Limits LCS	MS Spike	MS %Rec	MSD %Rec	RPD %	QC RPD	Limits	Dup RPD	Qualifiers
Lead		0.0044	7							83504	83504		KPU	MS	1410	
Manganese		0.0044 U	1000	95	95	0	8	87-113	1000	89	87	2	10	64.440		
Selenium		0.0006 U 0.0047 U	1000	92	93	1	5	91-112	1000	87	89	2	9	64-118 76-113		
Silver	20	0.0033 U	1000	95	94	1	4	88-110	1000	97	91	6	6	81-114		
Sodium		0.043	1000 10.0	95	96	1	10	85-111	1000	89	91	2	6	74-114		
Dotah Na	00000	0.010 1	10.0	98	101	3	6	89-114	10.0	39 *	34 *	14	14	72-125	************	***************************************
Batch No: Test: TestCode:	C9080 Total Alkalir Alkalinity	nity									Samples 95, 83500		83504, 8	3505, 8350	16	
Compound Parent Sample Number		Blank	LCS Spike		LCSD %Rec	RPD %	QC Li RPD	imits LCS	MS Spike		MSD %Rec	RPD %	QC L	imits MS	Dup RPD	Qualifiers
ate analyzed otal Alkalinity as CaCO	3		50 50	/2009 /2 91	2009 91	0								***************************************		

<sup>\*</sup> indicates value is outside control limits for %Recovery or greater than acceptance criteria for RP

Footnotes

U

Compound was analyzed for but not detected.

Phone: (813) 881-9401 Email: Info@SunLabsInc.com Website: www.SunLabsInc.com

#### SunLabs, Inc. Chain of Custody

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Client Name: #BS&																
Contact: Road Bayes		SunLabs Project	# C	290	04	23	5. I <sup>2</sup>	3						C	1 /	1 4.
Address: 5300 112 4	<u> </u>	Bottle Type	P	P	P	0	D	P	DI	PT	010	_ Proj∈	ct Name	<i>≥20100</i>	sola Lana	KC 1
Address: 5300 W. Cypre  Tampa, FL  Phone / Fax: 813 - 282-7	55 54, 1#260	Preservative	N	5	工	7	エ	立	그	<u> </u>	PP	4	Project #	t: 1000	07910	_
Phone / Fax: $2 \cdot 3 - 2 \cdot 32 - 7$	33765	Matrix	612	<u>E</u> W	64	70	المام	2			417	4	PO#	t:		
E Mail: \2.	215	Analysis / Method	1	0			GW	600		6W 6	<del>-, </del>	씌 ^	It Bill To	: <u>-</u> -		
E-Mail: bjbayne@pb	sj.com	Requested	P	2	١. ا	100		~2	2		8 8	1.				
STATE OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY		1	14	20	6	3	Λl	X	0	10 1	-1,0	<u>,                                     </u>				
SunLabs Sample Description	on Sample	Sample # of	S	Ammonia	9	Mu	ŏl	T. Alkal	Nitra	<b>*</b>  _	Ar. 6	Due Da	te Requ	ested:	·	$\neg$
Sample #	Date	Time Bottles	£	4	1	2	K	Kil.	51	13/1	5/4		tan	darc	}	-
30+86 GW-18	4/22	945 3	V		-	4	<u>'</u>			27/6		FI	DEP Pre	Approval si	te	$\dashv$
33487 GW-24	4/22	1125 3	V	Y	V		$\perp$					7 -	Curre	nt rates	Old rates	
5488 GW-17	4)22		V	V	V								sh rates		Old rates	-
83489 GW-ZG			4	4	4				T				s / Com			4
8349091 6111-11	19/66	1245 3	4	4	4											1
3549293 GW - 25	11/12	1345 74	4	4	1						V	1 *		أعاط	. ,	1
83494 Gu 1a	1/66	1425	V	V	V	V	V	V	V	VV	10	1	£	-11+e	red	
Georgia Az	EW-10 4122	1510 3	V	V	V					T-				***	•	
		1621 848	И	1		H	V	4	1/1	12	<del>///</del>	ł	G	11.64	Tot meto	LIS
8349899 GW-22		1625 43	V	V	V			十	$\top$			- BB		· · · ·	, -, ,, ,	
83500 GW-15		0900 4	V	V	V			$\top$	_	+	1					
8350 DVD B		1015 7	V	VI		VI		17/1	1	1,	1		,			1
83502 GW- 73		1015 3	VI	7		$\dashv$			1	4	+	Gw.	-10/0	w-21	switched	1
83503 CH SW 10	(1/23	1020 3 0	VI			$\top$	+	$\dashv$	$\dashv$		+		•			1
Sampler Signature / Date:	GW-20 4123	1145 - 73	VI	7	7/1	1	7	7/1	1	1	+					1
	Printed Name / Affiliation			6	走话	15 pj	À IME	OC.	10.0	FACE	Santa Control		7 - 2 1 19 - 19 -			
Dun 1/23/09	Brad Bay	1 / 500 1		No.	4.5		BET	1100		EDEK!	/ES II	IE RIGH	тто ви	L FOR UN	USED	1
Bottle Type Codes:	3.00 509,	re / PBS+	-7	Re	elinqu	ished	DV.	CIZIN	EU SP	MILLE	SAND	TORE	URN U	NUSED SA	IUSED) MPLES	
	Preservative Codes:			$\exists$		,	∪y.	0	•	Kell	iquisn	90 Jo:	1	Date: ,	Time:	
CA CON LEVEL VOIAGE KIT	H = Hydrochloric Acid + Ice S	S = Sulfuric Acid + Ice		-10	150	u	.01	15.		X	4 h	tils	Val	4/23	1600	l
D = Di	l	/S = MeOH, OFW, + Ice		H.	dinqui	ebod	7	n					4	1123	1600	ĺ
C = Other  S = Soil Jar	1	= Other (Specify)		"	mriqui	31160	ъу			Relir	nquishe	d To:	[0	ate:	Time:	
Matrix O. A		.,		-									- 1			
30 = 30ii	Internal Use Only	· · · · · · · · · · · · · · · · · · ·		Bo	lingui					╀						
A = Air SOL = Solid	Sample Condition Upon Receipt				linqui	snea :	By:			Relin	quishe	d To:	D	ate:	Time:	
DW = Drinking Water SW = Surface Water	Cuspdy Seels present?	- XIO														
GW = Ground Water W = Water (Blanks)	Shipping Bills attached?												- 1		1 1	
GE = Sediment O = Other (Specify)	Sample containers integt?		经进	Kei	linquis	shed (	Ву:			Relin	quishe	d To:	D	ate:	Time:	
	Samples within holding times?			Ŷ.									- 1		,	
Temp: 4110	Sufficient volume for all analyses		計劃							L					1	
	Are viels head space free?		開盟							Su	ınLab	s, Inc.				
	Proper containers and preservative	S? ON/NA		3		546	60 Be	aumo	nt Ce	nter Bl	vd., Su	ite 520. 7	ampa. F	Florida 336	34	
他们就是一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个			部語					1 110	me. u	10-001	-94U1	hay X1	1_25A AC	264	~	
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#### SunLabs, Inc. Chain of Custody

Client Name: PBS+J		Comt at	s Projec		0	70	150	. 2		2							
Contact: Brad Bayne		D 111 T		t#		10	40	70	11	2				Project Nar	ne: 5	ara	50ta Lan 207910
Address: 5300 W. Cypros Tumpa, FL3	es ct the amo	Bottle Ty		IV	18	18	P	P	18	IP	P	P	P	Project	#: 10	200	2079D
Tampa, EL 3	3607	Preserva	Ilive	IN	5	I	7	エ	I	I	エ	I	7	PO	#:		701 110
Phone / Fax: 813 - 282-7	1.75		/ <b>A.</b> 4	ΘW	EM	8	€ħ	614	GW	6W	લ્ખ	63	GW	Alt Bill	Го:		
E-Mail: by bayne @ pt			/ Method	1 01	0		2		~	l a	0.1	16	*				
	23	Requ	uested	12	8	10	>	U	AIKa).	trate	Sulfate	rid	6				
SunLabs Sample Description	Sample	Commis	4.5	As,	. ~	9	4	0	F	1 1	G	Chlo	+1	Due Date Re	quested:	:,	1
Sample #	Date	1		V	2	-	My	6	1-1	1	3	-	45	7	tan	١.	(c)
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Sampler Signature / Date:	inted Name / Affiliat	ion				74 (1973)											
1/23/04 Pr			,			明度を	. FS	UNL	ABS,	ÍŅC, I	RESE	RVE	STH	E RIGHT TO	BILL FO	RUÑI	ISEN/# 1/#
	Rrad B	agre	18BS	347	7 1	-	# U	NA	TUR	VED S	AMP	LES,	AND	<b>FO</b> RETURN	UNUSE	D SAN	IPLES
Bottle Type Codes:	servative Codes:				-JF	Relingu	uished	d By:		)	R	elinqu	uishe	d/rg;	Date:	E 1747!	Time:
W = Gloop Vist	Hydrochloric Acid + Ice	S = 0.46.1			- 1	$\Lambda \geq$	),	. /	$\gamma l_i$ (	١.,	$\mathcal{K}$	1	1/	. One.	141	23	
A = Glass Ambor T = T # =	Ice only	S = Sulfuric /			-	V	M		/V /	$\sim$	$\Psi$	VI.	10	unes	//	4)	1600
= Plastic	Nitric Acid + Ice	VS = MeOH,			IR	ettnqu	iished	d By:	•		R	elinqu	ishe	d To:	Date:		Time:
= Soil Jar	The Field Tipe	O = Other (Si	Decity)														C.
fatrix Codes: SO = Soil	rnal Use Only	755-2671	2.50 B	でが	TOTAL STATE										1		
	nple Condition Upon Rece	<b>达克斯</b> 拉	<b>"是"</b>		al R	elinqu	ished	By:			Re	elinqu	ished	To:	Date:		Time:
W = Drinking Water SW = Surface Water Cus	tody Seals present?	<b>学</b>		畫記													
	Ping Bills attached?										L	_					
	iple containers intact?		<b>≒"(\$)</b>	推問	Re	elinqui	ished	Ву:			Re	linqui	ished	To:	Date:		Time:
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#### **APPENDIX K:**

#### SURFACE WATER LABORATORY ANALYTICAL DATA



April 20, 2009

Brad Bayne PBS&J 5300 West Cypress St. Suite #200 Tampa, FL 33607

Re:

SunLabs Project Number:

Client Project Description:

090410.09

Sarasota Landfill Surface Water & Wetlands

Assessm

Dear Mr. Bayne:

Enclosed is the report of laboratory analysis for the following samples:

Sample Number	Sample Description	Date Collected
82942	Pond 7	
82943	Pond 6	4/8/2009
82944	Pond 5	4/8/2009
82945	Pond 4	4/8/2009
82946	Pond 3	4/9/2009
82947		4/9/2009
82948	Pond 2	4/9/2009
82949	Pond 1	4/9/2009
	Myakka-1	4/9/2009
82950	Myakka-2	4/9/2009
82951	Temp Well #1	4/9/2009
82952	Temp Well #1	4/9/2009
82953	Temp Well #2	
82954	Temp Well #2	4/9/2009
		4/9/2009

Copies of the Chain(s)-of-Custody, if received, are attached to this report.

If you have any questions or comments concerning this report, please do not hesitate to contact us.

Michael W. Palmer

Vice President, Laboratory Operations

Enclosures

SunLabs, Inc.

Cover Page 1 of 1

Phone: (813) 881-9401

5460 Beaumont Center Blvd., Suite 520 Tampa, FL 33634 U

Unless Otherwise Noted and Where Applicable:

Email: Info@SunLabsInc.com Website: www.SunLabsInc.com

These samples were received at the proper temperature and were analyzed as received. The results herein relate only to the items tested or to the samples as received by the laboratory • This report shall not be reproduced except in full, without the written approval of the laboratory • Results for all sold matrices are reported on a dry weight basis • All samples will be disposed of within 45 days of the requirements of the NELAC standards • Poothotes are given at the end of the report • Uncertainty values are available upon request.



SunLabs Project Number

PBS&J

090410.09

Project Description

Sarasota Landfill Surface Water & Wetlands Assessm

April 20, 2009

SunLabs Sample Number Sample Designation 82942 Pond 7

Matrix

Surface Water

Date Collected

4/8/2009 15:00

Date Received

4/10/2009 14:10

Parameters	Method	Units	Results	Dil	MDL	RL	CAS	Date/Time	Date/Time
Metals by EPA Method 6010				Factor			Number	Analyzed	Prep
Date Digested Date Analyzed Arsenic	3010		4/13/2009 4/14/2009	1				•	04/13/09 09:00
Iron	6010 6010	mg/L mg/L	0.0048 U 0.55 V		0.0048 0.0023				,, 05.00



SunLabs **Project Number** 

090410.09

Project Description

PBS&J

Sarasota Landfill Surface Water & Wetlands Assessm

April 20, 2009

SunLabs Sample Number Sample Designation

82943 Pond 6

Matrix

Surface Water

Date Collected

4/8/2009 17:00

Date Received

4/10/2009 14:10

							7/10	/2009 14:10	
Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Metals by EPA Method 6010								,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	riep
Date Digested Date Analyzed	3010		4/13/2009 4/14/2009						04/13/09 09:00
Arsenic	6010	mg/L	0.0048 U	1				04/14/09 14:00	
Iron	6010	mg/L	1.3 V			0.019 0.0092			- ,,



SunLabs **Project Number** 

PBS&J 090410.09

Project Description

Sarasota Landfill Surface Water & Wetlands Assessm

April 20, 2009

SunLabs Sample Number Sample Designation

82944 Pond 5

Matrix

Surface Water

Date Collected Date Received 4/8/2009 16:00

				D	ate Re	ceived	4/10		
Parameters  Metals by EPA Method 6010	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Date Digested Date Analyzed Arsenic	3010		4/13/2009 4/14/2009	1				044447	04/13/09 09:00
Iron	6010 6010	mg/L mg/L	0.0048 U 0.76 V			0.019 0.0092	7440-38-2 7439-89-6	04/14/09 14:02 04/13/09 17:02 04/14/09 14:02	04/13/09 09:00



SunLabs Project Number

090410.09

PBS&J

Project Description

Sarasota Landfill Surface Water & Wetlands Assessm

April 20, 2009

SunLabs Sample Number Sample Designation

82945 Pond 4

Matrix

Surface Water

Date Collected

4/9/2009 08:00

Date Received

4/10/2009 14:10

							,		
Para meters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time
Metals by EPA Method 6010								Anaryzea	Prep
Date Digested	3010		4/13/2009						
Date Analyzed Arsenic	T (T a d ) T (T ) T   T   T   T   T   T   T   T   T		4/14/2009	1				04/14/09 14:05	04/13/09 09:00
Iron	6010	mg/L	0.0048 U	1	0.0048	0.019	7440-38-2	04/13/09 17:04	
	6010	mg/L	0.53 V	1	0.0023	0.0092			- ,,



SunLabs Project Number

PBS&J

090410.09

Project Description

Sarasota Landfill Surface Water & Wetlands Assessm

April 20, 2009

SunLabs Sample Number Sample Designation

82946 Pond 3

Matrix

Surface Water

Date Collected

4/9/2009 09:00

Date Received

4/10/2009 14:10

							1, 10	/2003 14.10	
Parameters  Metals by EPA Method 6010	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Date Digested Date Analyzed Arsenic	3010 6010	mg/L	4/13/2009 4/14/2009 0.0048 U	1				04/14/09 14:07	04/13/09 09:00
Iron	6010	mg/L	0.0048 U 0.91 V		0.0048 0.0023				- ,, -0, 03 03.00



SunLabs Project Number

090410.09

PBS&J

Project Description

Sarasota Landfill Surface Water & Wetlands Assessm

April 20, 2009

SunLabs Sample Number Sample Designation

82947 Pond 2

Matrix

Surface Water

Date Collected Date Received

4/9/2009 11:45 4/10/2009 14:10

							,		
Parameters	Method	Units	Results	Dil Factor	MDL.	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Metals by EPA Method 6010								-	
Date Digested	3010		4/14/2009						
Date Analyzed Arsenic			4/15/2009						04/14/09 09:00
Iron	6010	mg/L	0.0048 U	1	0.0048	0.010	7442	04/15/09 13:41	
ITOI	6010	mg/L	0.46			0.019			- 4 - 4 - 05.00
				1	0.0023	0.0092	7439-89-6	04/15/09 13:41	04/14/09 09:00



SunLabs Project Number

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PBS&J
Project Description

090410.09

Sarasota Landfill Surface Water & Wetlands Assessm

April 20, 2009

SunLabs Sample Number Sample Designation

82948 Pond 1

Matrix

Surface Water

Date Collected Date Received

4/9/2009 12:30 4/10/2009 14:10

Para meters Para meters	Method	Units	Results	Dil	MDL	RL	CAS	Date/Time	Date/Time
Metals by EPA Method 6010				Factor			Number	Analyzed	Prep
Date Digested	3010		4/13/2009						
Date Analyzed	5515		4/14/2009					-	04/13/09 09:00
Arsenic	6010			1				04/14/09 14:14	
Iron		mg/L	0.012 I	1	0.0048	0.019	7440-38-2	04/13/09 17:09	04/13/09 09:00
	6010	mg/L	0.65 V	1	0.0023	0.0092	7439-89-6		04/13/00 00:00



SunLabs Project Number

iber

PBS&J
Project Description

090410.09

Sarasota Landfill Surface Water & Wetlands Assessm

April 20, 2009

SunLabs Sample Number Sample Designation

82949 Myakka-1

Matrix

Surface Water

Date Collected

4/9/2009 09:45

Date Received

4/10/2009 14:10

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Metals by EPA Method 6010 Date Digested									Frep
ate Analyzed	3010		4/13/2009 4/14/2009	1					04/13/09 09:00
rsenic ron	6010	mg/L	0.0048 U	1	0.0048	0.019	7440-38-2	04/14/09 14:17 04/13/09 17:17	04/13/09 09:00
	6010	mg/L	0.12 V	1	0.0023	0.0092	7439-89-6		



SunLabs Project Number

090410.09

PBS&J

Project Description

Sarasota Landfill Surface Water & Wetlands Assessm

April 20, 2009

SunLabs Sample Number Sample Designation

82950 Myakka-2

Matrix

Matrix

Surface Water

Date Collected

4/9/2009 10:45

Date Received

4/10/2009 14:10

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time Prep
Metals by EPA Method 6010								<b>,</b>	гтер
Date Digested	3010		4/13/3000						
Date Analyzed	3010		4/13/2009						04/13/09 09:00
Arsenic	6010		4/14/2009	1				04/14/09 14:19	
Iron	6010	mg/L	0.0048 U	1	0.0048	0.019	7440-38-2	04/13/09 17:20	04/13/09 09:00
	6010	mg/L	0.18 V	1	0.0023	0.0092		04/14/09 14:19	- 77 05 05.00



#### **Quality Control Data**

**Project Number** 

PBS&J

090410.09

Project Description

Sarasota Landfill Surface

April 20, 2009

Batch No: C8846

Test:

Metals by EPA Method 6010

Associated Samples

82942, 82943, 82944, 82945, 82946, 82948, 82949, 82950, 82952, 82954

TestCode: 6010-L Compound

Compound  Parent Sample Number	Blank	LCS Spike	LCS %Rec	LCSD %Rec	RPD %	QC I RPD	Limits LCS	MS Spike	MS %Rec	MSD %Rec	RPD %	QC RPD	Limits MS	Dup RPD	Qualifiers
Arsenic	0.0048 U	1000	00	00	_				82942	82942			·		
Iron	0.00301	1000	98 92	96	2	8	88-112	1000	99	100	1	8	78-117		
Lead	0.0044 U	1000	97	93 97		20	80-126	1000	93	97	4	55	0-289		
		1000	31	9/	0	8	87-113	1000	97	101	4	10	64-118		

Batch No:

Test:

C8868

Metals by EPA Method 6010

Associated Samples

82947

TestCode: 6010-L

Compound	Blank	LCS Spike	LCS %Rec	LCSD %Rec	RPD	QC RPD	Limits LCS	MS Spike	MS %Rec	MSD	RPD		Limits	Dup	Qualifiers
Parent Sample Number						KFD	103	Shike	76KeC	%Rec	%	RPD	MS	RPD	
Arsenic	0.0048 U	1000	95	96					82958	82958					
Barium	0.001 U				1	8	88-112	1000	97	101	4	8	78-117		
Cadmium	0.000 U	1000	99	100	1	10	87-116	1000	94	105	11	11	70-120		
Chromium	0.0035 U	1000	92	98	6*	3	87-110	1000	94	99	5	10	73-116	***************************************	
on		1000	98	100	2	10	91-112	1000	98	102	4	4	70-122		
ead	0.0023 U	1000	91	96	5	20	80-126	1000	92	94	2	55	0-289		·
lagnesium	0.0044 U	1000	96	99	3	. 8	87-113	1000	97	99	2	10	64-118		
otassium	0.017	10.0	96	96	0	3	91-107	10.0	94	92	2				
	0.18 U	10.0	97	97	0	3	91-112	10.0	95		2	30	0-227		
elenium	0.0047 U	1000	96	102	6*					99	4	196	0-209		
ilver	0.0033 U	1000	***************************************			4	88-110	1000	99	101	2	6	81-114		
odium	0.22		99	102	3	10	85-111	1000	99	103	4	6	74-114		
inc		10.0	97	98	1	6	89-114	10.0	99	97	2	14	72-125		
	0.0029 U	1000	98	99	1	4	86-114	1000	100	101	4	R	75 116		

Batch No: C8908

6010-S

Test: TestCode: RCRA Metals by EPA Method 6010

Associated Samples

82951, 82953

Compound	Blank	1.00													
Parent Sample Number	Diank	LCS Spike	LCS %Rec	LCSD %Rec	RPD %	QC RPD	Limits LCS	MS Spike	MS %Rec	MSD %Rec	RPD %	QC RPD	Limits MS	Dup RPD	Qualifiers
Aluminum									82951	82951			1810		
Arsenic	0.5 U	1000	103	99	4	6	83-110	1000	160	86	60 *	42	0-1539		
Barium	0.2 U	1000	91	90	1	7	71-105	1000	93	90	3	12	59-120		
iron	0.05 U	1000	93	92	1	8	66-113	1000	95	89	7	104	33-148		
Nickel	0.10	1000	99	95	4	6	80-112	1000	46	115	86 *	0	0-219	<b></b>	
Zinc	0.1 U	1000	89	89	0	5	75-111	1000	96	92	4	14	52-119		***************************************
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<sup>\*</sup> indicates value is outside control limits for %Recovery or greater than acceptance criteria for RP

Footnotes

U

Compound was analyzed for but not detected.

Page QC-1 of 1

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= Sediment	W = Water (Blanks)	Shipping Bills			V / N / (X)		Relind	uished l	Bv:		Poli	anulat :	J T		
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		Are vials head			(IN (NA)		4	54	60 Ba	aumoni :	S Conter C	unLat	is, inc.		
Jemp: <b>c</b> Received on it	se? (Y/) N / NA	Are vials head		242-12-12-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	YN (NA)			540	60 Bea	aumont	Center B	lvd Si	i <b>s, inc.</b> uite 520, Tam <sub>l</sub> / Fax: 813-35	a, Florida 33	8634



April 15, 2009

Brad Bayne PBS&J 5300 West Cypress St. Suite #200 Tampa, FL 33607

Re:

SunLabs Project Number:

090410.10

Client Project Description:

Sarasota Landfill Surface Water & Wetlands

Assessm

Dear Mr. Bayne:

Enclosed is the report of laboratory analysis for the following samples:

Sample Number	Sample Description	Date Collected
82955 82956	Grab Dup 1 Grab Dup 2	4/10/2009
	5.45 54p 2	4/10/2009

Copies of the Chain(s)-of-Custody, if received, are attached to this report.

If you have any questions or comments concerning this report, please do not hesitate to contact us.

Sincerely,

Michael W. Palmer

Vice President, Laboratory Operations

Enclosures

5460 Beaumont Center Blvd., Suite 520 Tampa, FL 33634

Unless Otherwise Noted and Where Applicable:

Email: Info@SunLabsInc.com Website: www.SunLabsInc.com



SunLabs **Project Number** 

090410.10

PBS&J

Project Description

Sarasota Landfill Surface Water & Wetlands Assessm

April 15, 2009

SunLabs Sample Number Sample Designation

82955 Grab Dup 1

Matrix

Surface Water

Date Collected

4/10/2009 10:00

Date Received

4/10/2009 14:10

Parameters	Method	Units	Results	Dil Factor		RL	CAS Number	Date/Time Analyzed	Date/Time
Metals by EPA Method 6010 Date Digested								Allalyzeu	Prep
Date Analyzed	3010		4/13/2009 4/14/2009						04/13/09 09:00
Arsenic Iron	6010	mg/L	0.015 I	1	0.0048 0	0.019	7440-38-2	04/14/09 14:26 04/13/09 17:27	04/13/09 09:00
	6010	mg/L	1.0 V	1	0.0023 0	.0092	7439-89-6	04/14/09 14:26	



SunLabs **Project Number** 

090410.10

PBS&J

Project Description

Sarasota Landfill Surface Water & Wetlands Assessm

April 15, 2009

SunLabs Sample Number Sample Designation

82956 Grab Dup 2

Matrix

Surface Water

Date Collected

4/10/2009 11:00

Date Received

4/10/2009 14:10

Parameters	Method	Units	Results	Dil Factor	MDL	RL	CAS Number	Date/Time Analyzed	Date/Time
Metals by EPA Method 6010								ruidi J260	Prep
Date Digested Date Analyzed	3010		4/13/2009 4/14/2009	1					04/13/09 09:00
Arsenic Iron	6010 6010	mg/L mg/L	0.0048 U 0.56 V		0.0048			04/14/09 14:28 04/13/09 17:29 04/14/09 14:28	- ,, 05.00

Website: www.SunLabsInc.com



SunLabs Project Number

090410.10

PBS&J

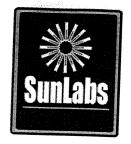
Project Description

Sarasota Landfill Surface Water & Wetlands Assessm

April 15, 2009

#### Footnotes

SunLabs is not currently NELAC certified for this analyte. The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit. LCS Laboratory Control Sample Laboratory Control Sample Duplicate LCSD MB Method Blank MS Matrix Spike MSD Matrix Spike Duplicate NA Sample not analyzed at client's request. RL RL(reporting limit) = PQL(practical quantitation limit). RPD Relative Percent Difference Compound was analyzed for but not detected. Indicates that the analyte was detected in both the sample and the associated method blank.



## **Quality Control Data**

Project Number

090410.10

PBS&J

Project Description

Sarasota Landfill Surface

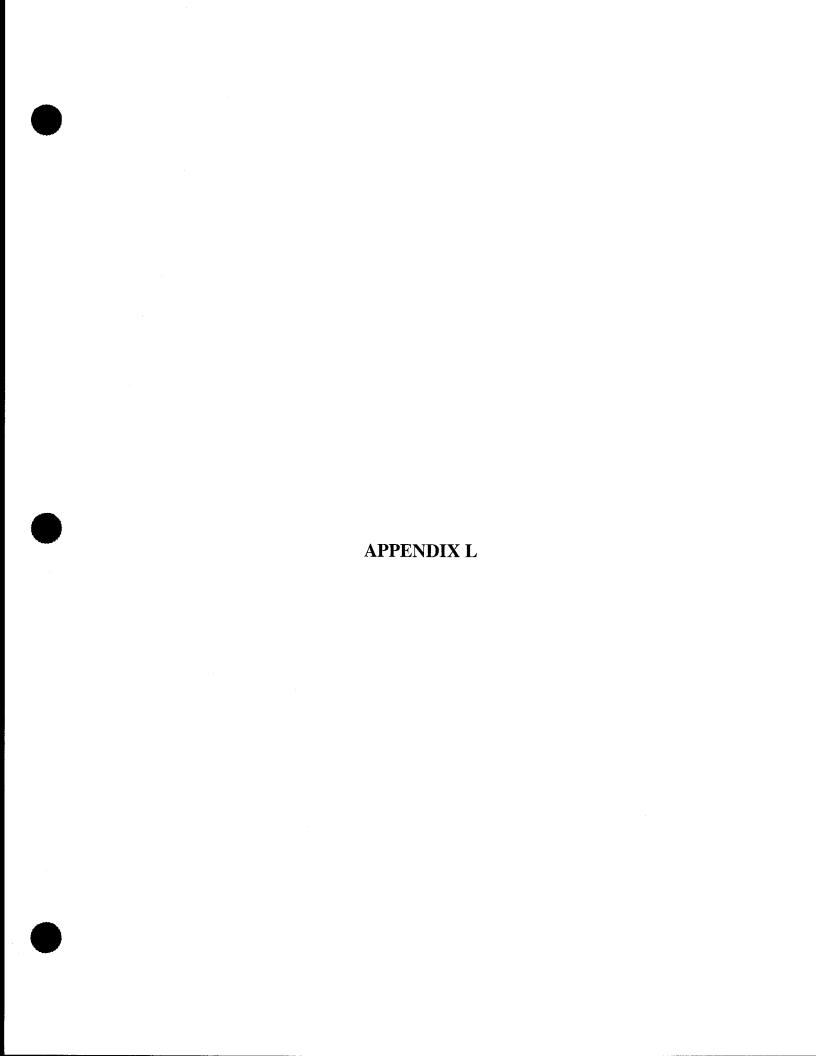
Batch No:	C8846								A	ssociate	d Sample	<u> </u>	***************************************		Apr	il 15, 200
TestCode:	Metals by EPA	Method 6010							8	2955, 82	956			***************************************	***************************************	***************************************
	6010-L								Ì							
Compound		Blank	LCS Spike	LCS %Rec	LCSD %Rec	RPD %	QC RPD	Limits	MS	MS	MSD	RPD	QC	Limits	Dup	Qualifiers
Parent Sample Number							KPU	LCS	Spike	%Rec	%Rec	%	RPD	MS	RPD	
Arsenic		0.0048 U	1000							82942	82942					1
ron		0.00301		98	96	2	8	88-112	1000	99	100	1	8	78-117		
.ead			1000	92	93	1	20	80-126	1000	93	97	4	55	0-289		
		0.0044 U	1000	97	97	0	8	87-113	1000	97	101	<del></del>	10	64-118		

<sup>\*</sup> indicates value is outside control limits for %Recovery or greater than acceptance criteria for RPD

Footnotes

Compound was analyzed for but not detected.

SunLabs, Inc. Chain of Custody Sarasota Candrill Surface Water & Wetlands Project Name: Assessment Project #: 10000 7910 090410.10 SunLabs Project # Bottle Type Preservative PO #: \_\_\_\_ Matrix Alt Bill To: Analysis / Method E-Mail: bjbagne @ 9/09 Requested Due Date Requested; SunLabs Sample Description Sample Sample # of Standard 5 Sample # Q Date Time **Bottles** X2955 FDEP PreApproval site प्राप् 10:00 Current rates Grabaldo Old rates 4110 11:00 Cash rates Remarks / Comments: Jeparate COC Sampler Signature / Date: Printed Name / Affiliation: 4/10/09 SUNLABS, INC. RESERVES THE RIGHT TO BILL FOR UNUSED/ PBS+J UNRETURNED SAMPLES AND TO RETURN UNUSED SAMPLES. Relinquished By: Bottle Type Codes: Relinquished To: Time: Preservative Codes: 4/6 GV = Glass Vial GVS = Low Level Volatile Kit H = Hydrochloric Acid + Ice S = Sulfuric Acid + Ice GA = Glass Amber T = Tedlar Bag I = Ice only VS = MeOH, OFW, + Ice P ≈ Plastic Relinquished By: Belinguighe To: O = Other Date: Time: N = Nitric Acid + Ice O = Other (Specify) S = Soil Jar Matrix Codes: SO = Soil internal Use Only Relinquished By: Relinquistled To: A = Air SOL = Solid Date: Sample Condition Upon Receipt: DW = Drinking Water SW = Surface Water Custody Seals present? GW = Ground Water W = Water (Blanks) Shipping Bills attached? Relinquished By: SE = Sediment Relinguished To: O = Other (Specify) Date: Time: Sample containers intact? DN/NA Samples within holding times? Temp: \ Sufficient volume for all analyses? SunLabs, Inc. Are vials head-space free? Received on Ice? YYN/NA 5460 Beaumont Center Blvd., Suite 520, Tampa, Florida 33634 Proper containers and preservatives? Phone: 813-881-9401 / Fax: 813-354-4661 e-mail: info@SunLabsInc.com www.SunLabsInc.com



#### Sarasota County Public Health Unit Office of Environmental Engineering Permit Tracking System 06/16/09 09:05

_	Property 97-175-39799 — Property Appraiser Id: 0356-00-1010 —
	Name :
	Address: 4000 KNIGHTS TRAIL ROAD NOKOMIS FL 34275
	Sc Tp Rg Lot(s) Blk Subdivision Unit CTM Map Q,Q
	11 38 19 METES & BOUNDS 27C 356
-	Well Permit 98D-0002
	Type:Work: N Well: W Use: O Method: O QQ: 4,3 Septic permit:
Į	Owner : MEYER & GABBERT Phone: ( ) -
1	Driller: PARRISH, T. Licence: 9132
1	Total depth: 120' Diameter: 4" Cased depth: 60' Material: G Seal: D
	Approved: 08/28/98 By: SF Cancelled: / /
- 1	
-	Completion report
-	Completion report ————————————————————————————————————
	Completion report ————————————————————————————————————
	Completion report  Total depth: 130' Diameter: 4" Cased depth: 60' Date: 09/30/98  S.W.L.: 0' Grout: 0  Pump : S HP: 1 GPM: 0
	Completion report  Total depth: 130' Diameter: 4" Cased depth: 60' Date: 09/30/98  S.W.L.: 0' Grout: 0  Pump : S HP: 1 GPM: 0  Chemical report
	Completion report  Total depth: 130' Diameter: 4" Cased depth: 60' Date: 09/30/98  S.W.L.: 0' Grout: 0  Pump : S HP: 1 GPM: 0  Chemical report  TDS: 590 Chlorides: 131 pH: 7.6 Color: 6 Date: 09/30/98
	Completion report  Total depth: 130' Diameter: 4" Cased depth: 60' Date: 09/30/98  S.W.L.: 0' Grout: 0  Pump : S HP: 1 GPM: 0  Chemical report  TDS: 590 Chlorides: 131 pH: 7.6 Color: 6 Date: 09/30/98  Iron: 0.01 Hardness: 342 Sulfate: 0 Lab: QUALITY WATER
	Completion report  Total depth: 130' Diameter: 4" Cased depth: 60' Date: 09/30/98  S.W.L.: 0' Grout: 0  Pump : S HP: 1 GPM: 0  Chemical report  TDS: 590 Chlorides: 131 pH: 7.6 Color: 6 Date: 09/30/98

#### Sarasota County Public Health Unit Office of Environmental Engineering Permit Tracking System 06/16/09 09:04

	Property 97-175-39799	Pro	operty Apprai	ser id: '	0356-00-1	010		
	Name :		-5-1-03 1-55-0-					
	Address : 4000	KNIGHTS '	TRAIL ROAD	N	OKOMIS	FL	3427	5
	Sc Tp Rg Lot(s)		Subdivision		Unit CTM			
1	11 38 19		METES & BOUN		27C	356		
-	Well Permit 97D-0003 -							
1	Type:Work: N Well: W	Use: P	Method: R	QQ: ,	Septic p	ermit:		
	Owner : CENTRAL LAN			( )				
I	Driller : DIVERSIFIED			ice: 2805				
1	Total depth: 150' Dia				Material	: P Seal:	G	
1	Approved: 05/02/97 By	7: SF Car	ncelled: /	1		,	-	
-	Completion report -							
			~ · · · · · · · · · · · · · · · · · · ·		Data. AE	107/00		
	Total depth: 100' Dia	ameter:	b" Cased dept	n: 66'	Date: Vo	/0//98		
	Total depth: 100' Dia S.W.L. : 10'	ameter:			Date: Vo	/0//98		
	S.W.L. : 10'		Grout:		Date: Vo	/07/98		
	S.W.L. : 10' Pump :				Date: V3			
	S.W.L. : 10' Pump : Chemical report ———	HP:	Grout: 0 GPM: 0	66			/	
	S.W.L. : 10' Pump : Chemical report ——— TDS: 0 Chloride	HP: 0	Grout: 0 GPM: 0 pH:	0.0 Co	lor: 0	Date:	/	/
	S.W.L.: 10' Pump: Chemical report ——— TDS: 0 Chloride Iron: 0.00 Hardnes	HP: 0	Grout: 0 GPM: 0	0.0 Co			/ .	/
	S.W.L.: 10' Pump: Chemical report ———— TDS: 0 Chloride Iron: 0.00 Hardnes Bacteriological report	HP: 0	Grout: 0 GPM: 0 pH:	0.0 Co	lor: 0		/	/

#### Sarasota County Public Health Unit Office of Environmental Engineering Permit Tracking System 06/16/09 09:11

Property 97-175-39799 — Name :	Property Appraiser	Id: 0356-00-1010					
Address: 4000 KN	GHTS TRAIL ROAD	NOKOMIS FL 34275					
Sc Tp Rg Lot(s) Bl	Subdivision	Unit CTM Map Q,Q					
11 38 19	METES & BOUNDS						
Well Permit V97-0411							
Type:Work: N Well: W U	Jse: I Method: R QQ:	3,1 Septic permit:					
Owner : SARASOTA COUNT	TY SOLID WASPhone: (	) -					
Driller : ZIEGLER, WILL)	er : ZIEGLER, WILLIAM (5"-I) Licence: 9078						
Total depth: 90' Diamet	depth: 90' Diameter: 5" Cased depth: 65' Material: P Seal: G ved: 06/20/97 By: PM Cancelled: / /						
Approved: 06/20/97 By: I							
- Completion report -							
Total depth: 90' Diamet	er: 5" Cased depth:	70' Date: 07/28/97					
S.W.L. : 0'	Grout: 0						
Pump :	HP: 0 GPM: 0						
Chemical report —							
TDS: 618 Chlorides:	117 pH: 7.4	Color: 0 Date: 08/10/97					
Iron: 0.01 Hardness:	200 Sulfate: 89	Lab: THORNTON LABORTORY					
- Bacteriological report -							
Received: / / From	1:						