

State of Florida  
Department of Environmental Protection

# Interoffice Memorandum

TO: Jim Crane, Bureau of Waste Cleanup  
Twin Towers, Mail Station #4535

BUREAU OF WASTE CLEANUP

FROM: William Kutash, Administrator  
Division of Waste Management

JUL 10 2000

DATE: 7-5-00

TECHNICAL REVIEW SECTION

SUBJECT: CARA Former GNB

Please review and comment upon the technical aspects of the document as you deem appropriate.

In order to maintain progress in the case, we would appreciate comments within 30 days of receipt.

Additional information:

Facility Alias:

District Contact: SANDRA ZIPPIN

OR KUTAROWSKI

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Thanks.

WK/br

Attachment



**DAMES & MOORE**

A DAMES & MOORE GROUP COMPANY

BUREAU OF WASTE CLEANUP

JUL 10 2000

TECHNICAL REVIEW SECTION

**CONTAMINATION  
ASSESSMENT  
REPORT ADDENDUM  
FORMER  
GNB BATTERY FACILITY  
SOUTH FALKENBURG ROAD  
TAMPA FLORIDA**

**JUNE 2000**

**D.E.P.  
JUN 30 2000  
Southwest District Tampa**

**CONTAMINATION ASSESSMENT REPORT ADDENDUM  
FORMER GNB BATTERY FACILITY  
SOUTH FALKENBURG ROAD  
TAMPA FLORIDA**

**JUNE 2000**

**PREPARED FOR:**

**GNB TECHNOLOGIES**

**PREPARED BY:**

**DAMES & MOORE  
ONE NORTH DALE MABRY, SUITE 700  
TAMPA, FLORIDA  
(813) 875-1115**

**PREPARED BY:**

*Anthony P. Damiano*

Anthony P. Damiano  
Project Manager

**REVIEWED BY:**

*John M. Morrison*  
John M. Morrison  
Professional Geologist  
License No. 12345  
State of Florida

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## 1.0 INTRODUCTION

Dames & Moore conducted additional soil and groundwater assessment at the former GNB Technologies (GNB) facility at 200 South Falkenburg Road in Tampa, Florida. The assessment was conducted in response to the November 23, 1998, comments by the Florida Department of Environmental Protection (FDEP) to the August 1998 Contamination Assessment Report (CAR) prepared by Resource Consultants®, Inc. The additional assessment was conducted in February 2000, in accordance with the Work Plan for Field Activities submitted to FDEP in September 1999.

The additional investigation included installation of two additional Floridan Aquifer monitor wells, and ten additional soil borings on the north side of the building and a comprehensive round of groundwater samples to include all on-site and several off-site monitor wells. The chronology of the previous investigations conducted at the site is discussed below.

### 1.1 PREVIOUS INVESTIGATIONS

Investigations at the site began in 1986 prior to the sale of the facility by Pacific Chloride to JFI Land Corporation. GNB assumed the assets and liabilities of Pacific Chloride in 1988 and accepted previous agreements made by Pacific Chloride for cleanup of the property. A summary of the investigations conducted at the site is presented below.

- Prior to the 1986 sale of the facility, an environmental audit was conducted by Environmental & Industrial Hygiene Services (EIHS). Eighteen soil samples, six groundwater samples and two surface water samples were obtained and analyzed for lead. Results of the assessment revealed lead contamination of soils near the former on-site wastewater pretreatment plant (north side of the property).
- In 1988, additional contamination assessment activities of soil and groundwater were conducted by TEAM Consultants, Inc. TEAM took 46 soil samples and nine surface water and sediment samples. The TEAM assessment concluded that additional investigation was necessary to delineate the horizontal and vertical extent of lead impacted soils on the property. Six additional groundwater monitor wells were installed and sampled.

- In April 1988, Environmental Engineering Consultants (EEC) submitted a Corrective Action Plan to remove impacted soils from the site. In 1989, Chemical Waste Management conducted removal and disposal of soils with lead concentrations greater than 500 mg/kg in the area of the ditch north of the production facility. Other areas of the site (southeast corner of site, stormwater retention pond area, along the eastern property boundary and along the western property boundary) were also addressed by removal of lead containing soil. Soil was removed along the north property ditch to a depth of between six inches and two feet with the area near the former pasting operation (northeast corner) excavated to a depth of 48 inches. Over 180 soil samples were obtained to confirm that soil remediation goals were achieved.
- In July 1990, EEC submitted a Contamination Assessment Report that addressed the assessment and remediation conducted between November 1989 and March 1990.
- A Consent Order (No. 87-0775) was issued in June of 1990 by the Florida Department of Environmental Regulation. The consent order authorized remediation of soils outside the northern boundary of the property.
- In January 1991, FDER accepted the CAR as a Site Rehabilitation Completion Report for soil remediation but required additional assessment of the horizontal and vertical extent of groundwater contamination.
- A Quality Assurance Project Plan was not approved for the fieldwork conducted at the site until 1994. Since the previous soil and groundwater assessment had been conducted without benefit of the QAPP, the FDER requested that confirmation samples be obtained to reassess the effectiveness of the soil removal at the site. In addition, six new groundwater monitor wells were installed to further address groundwater conditions at the site. The existing and new wells were sampled and analyzed for conventional pollutants, metals, and volatile and semi-volatile organic compounds. The soil confirmation samples were obtained and additional monitor wells were installed in late 1994. Results of the additional assessment were presented in a Contamination Assessment Report prepared by Resource Consultants, Inc. (RCI) in March 1995.
- A total of fifty-four soil borings were conducted for the collection of soil samples. Forty-two samples were obtained at a depth of twelve inches below natural ground surface

(twelve inches below the level of previously excavated soil). Twelve borings were advanced with a drilling rig using a hollow stem auger to depths ranging from 13 to 39 feet below land surface. Six of these borings were converted into monitor wells. Results of the additional assessment indicated that lead was detected in concentrations greater than 500 mg/kg in the soil samples from six locations. Trichloroethene (TCE) was detected above the leachability limit of 0.0015 mg/kg at the 0-6 inch interval in four samples, NS-8, NS-11, NS-14 and NS-18. These samples were obtained from the north side of the building near the former pretreatment facility, near the tank pad on the north side of the building and near the northeast corner of the building. RCI concluded that lead in soil was not in high enough concentrations to exceed the EP Toxicity level and that TCE in soil did not appear to be impacting groundwater.

- Results of the analysis of groundwater samples indicated that total and dissolved cadmium, selenium, sodium and chromium were not present above MCLs in any of the samples. Total lead was detected in three samples above the MCL but dissolved lead was below the MCL of 0.015 mg/l for all samples. TCE, dichloroethene and vinyl chloride were detected slightly above the MCLs in several samples. Semi-volatile constituents were not detected in any of the groundwater samples. RCI concluded that no significant increases of lead contamination or movement of lead within the groundwater had occurred over the six years since the initial investigation at the site. RCI also concluded that TCE contamination at the site be monitored for possible changes. RCI recommended additional groundwater monitoring be conducted and an additional monitoring well be installed in a downgradient location.
- In comments to the 1995 CAR, FDEP requested three additional Floridan Aquifer monitor wells and two additional shallow monitor wells be installed. FDEP requested that the extent of VOC concentrations in groundwater in a downgradient direction be evaluated. FDEP also requested that additional soil investigation be conducted to determine whether site soils were a continuing source of groundwater contamination. In addition, FDEP requested that groundwater samples be analyzed for the full Volatile Priority Pollutant (VPP) list of organic constituents.
- In 1996, RCI conducted additional investigations at the site and submitted a Contamination Assessment Report to the FDEP in March 1997. Fifty soil samples were collected from twenty-four locations on all sides of the property. Soil samples were obtained below the

level of the previous soil excavation in order to sample natural soils and not fill material. Conclusions of the 1996 CAR stated that lead concentrations in soil at the site are minimal and are not impacting groundwater quality. TCLP analytical results indicated that the lead detected at the site does not exhibit leaching characteristics. In addition, the CAR concluded that no definable area of TCE in the surficial soils exceeded the State of Florida guidance concentrations and no areas of the site are acting as continual sources of groundwater contamination. The CAR concluded that TCE in the surficial aquifer was delineated except on the western side of the property. RCI recommended including existing monitor wells located across Falkenburg Road on the Coastal Unilube property to aid in TCE delineation. TCE in the Floridan Aquifer was defined to the south and west and continued monitoring of MW-12 (area of highest concentration of TCE) was recommended. In neither the shallow or Floridan aquifers were cadmium, chromium, lead selenium nor sodium MCLs exceeded. RCI indicated that natural attenuation was occurring for the volatile organic constituents as indicated by the presence of TCE degradation products 1,2-dichloroethane, trans-1,2-dichloroethene and vinyl chloride.

- After submittal of the 1997 CAR, the FDEP requested additional soil and groundwater assessment. In April 1998, Dames & Moore conducted additional soil and groundwater assessment and submitted a CAR in August 1998. Additional Floridan Aquifer monitor wells were installed and additional soil samples (the second such soil sampling) were obtained to characterize two areas of the site (north of the building and south of the building). Additional soil samples were obtained below the depth of the 1996 soil samples to further evaluate the presence of TCE in soils as a potential source of groundwater contamination. Results of the additional soil investigation indicated the TCE was not detected in any samples above the Soil Cleanup Target Level (SCTL) leaching standard of 0.03 mg/kg and was not present above the method detection limit of 0.025 mg/kg in any of the north side samples. Isolated areas of soil contamination on site were attributed to intermittent spills and leaks of lubricating oils and solvent from drums maintained by the present property owner. In order to further assess the horizontal and vertical extent of groundwater contamination, downgradient monitor wells on the Coastal Unilube property were sampled. Two new Floridan Aquifer monitor wells were installed on the adjacent CSX property right-of-way and four additional shallow monitor wells were installed. Two shallow wells were installed on site and two wells were installed on adjacent properties to the south and west. Hydraulic conductivity tests were performed to evaluate the transmissivity and groundwater flow

velocities of the shallow and Floridan aquifers beneath the property. Results of the groundwater assessment indicated that the extent TCE in groundwater was defined on three sides in the Floridan Aquifer and surficial aquifer. The CAR concluded that the inorganic constituent, lead, occasionally exceeds the MCL of 0.015 mg/l, however, some sampling events indicate lead below this level in all monitor well locations. Dames & Moore concluded that remedial measures to address lead in groundwater is not warranted. Dames & Moore recommended that another deep well be installed to delineate TCE in the Floridan Aquifer and preparation of a Remedial Action Plan to address treatment and removal of chlorinated hydrocarbons from the surficial and Floridan aquifers in the vicinity of the site.

- In April 1998, Dames & Moore conducted an interim remedial action for two areas of remaining lead impacted soil. The two areas were identified in the vicinity of soil samples NS-1 and NS-17 as presented in the 1995 CAR. These areas were located on the northern side of the building. NS-1 was located near the north drainage ditch and Falkenburg Road and NS-17 was located near the northeast corner of the building between monitor wells MW-1 and MW-10. A total of 112.4 tons of soil were excavated during the IRA. Dames & Moore prepared an Interim Remedial Action Report and submitted it to FDEP in December 1998.
- In comments prepared by the FDEP concerning the 1998 CAR and Interim Remedial Action Report, FDEP indicated that a thin zone (6" to 1') of soil with leachable levels of solvents "seems" to be present at the site. FDEP indicated that soil contamination should be addressed in a Remedial Action Plan or a demonstration be made that soils are not leaching in order to receive No Further Action for the soils on site. FDEP accepted the proposed downgradient monitor well to further delineate the TCE plume in the Floridan Aquifer, and requested that three off-site Floridan wells be included in future assessments. FDEP also requested that a deeper Floridan aquifer monitor well be installed on site to evaluate the deeper zone beneath the site. A Work Plan to address the additional groundwater assessment was requested. Dames & Moore prepared a work plan and conducted the additional assessment activities in February 2000. The results of the additional assessment are presented herein.

## 1.2 OBJECTIVES OF THE FEBRUARY 2000 INVESTIGATION

The objectives of the February 2000 investigation were to complete the delineation of the horizontal and vertical extent of TCE in the Floridan aquifer, to confirm previous soil analytical data for volatile organic constituents to determine if leachable concentrations exist, and to expand the off-site groundwater potable well survey and include additional off-site monitor wells in the assessment. To achieve this objective, Dames & Moore submitted a Work Plan for Field Activities, which was approved by the FDEP in September 1999. The Work Plan included installation of two additional Floridan Aquifer monitor wells, one on-site and one off-site in a downgradient location. The work plan included a comprehensive groundwater sampling event of twenty-two existing wells and the two newly installed Floridan wells. Additional off-site wells to be sampled included monitor wells MW-3 and MW-4 on the Coastal Unilube property, a production well located at Frito-Lay and an out of service private well located at 10114 Woodberry Drive. The work plan included collection of ten soil samples along the north side of the building to confirm TCE and other VOC concentrations in the unsaturated zone soils.

## 2.0 SITE INVESTIGATION

Field activities began on February 21, 2000. Monitor well installation was conducted by Diversified Drilling Company. Dames & Moore provided oversight during drilling activities and collected split spoon samples and samples of drill cuttings for geologic description.

A Site Health and Safety Plan was prepared and provided to all field personnel before commencement of fieldwork. Prior to initiating field and drilling activities, a health and safety meeting was held to answer all questions regarding work operations, potential site hazards, as well as emergency operating procedures, if required. All field activities followed a QAPP prepared for previous investigations at the site.

Property access agreements were again obtained from the adjacent properties prior to beginning fieldwork. Access to these properties has been imperative for this and previous investigations.

## 2.1 SOIL ASSESSMENT

The purpose of collecting and analyzing soil samples during the investigation was to determine whether a thin zone of soils on the north side of the building is a continuing source of TCE and other VOC constituents to the groundwater. Figure 3 shows the locations of all soil samples collected during this site investigation.

Ten soil samples were collected using a stainless steel split spoon. Soil sampling was conducted in accordance with ASTM (D) - 1586 *Standard Method for Penetration Test and Split Barrel Sampling of Soils*. Since portions of this area of the property had previously been excavated, two split spoons were driven at each sampling point providing a continuous soil profile to a depth of four feet below land surface. Dames & Moore visually inspected the soil to identify the depth of fill material, to describe the natural soil profile below the fill material, to look for indications of contamination, and to identify the depth to the saturated zone. A dark stained layer of soil was present in soil sample locations SS-4, SS-8 and SS-10. This stained layer was located within the 0"-6" interval and was sampled with the Encore sampler.

Soil samples were obtained at or below the fill/native soil interface at two depth intervals, 0"-6" and 6"-12". Soil samples were obtained using an Encore sampling device to ensure undisturbed samples and minimize loss of contaminants during transport to the laboratory. Samples were placed in a cooler on ice, logged on a chain of custody form and delivered to Savannah Laboratories in Tampa, Florida. Samples were analyzed for volatile priority pollutants (VPPs) and by the Synthetic Precipitation Leaching Procedure (SPLP). Samples from the 6"-12" interval was extracted and held prior to analysis pending results of the 0"-6" interval.

The split spoons and back of the drilling rig were decontaminated between sample locations. The decontamination procedure was as follows:

- Cleaned with heated water (steam cleaner);
- Cleaned with non-phosphate cleaner (Alconox or Liquinox);
- Rinsed with tap water;
- Rinsed thoroughly using deionized water;
- Rinsed twice using pesticide-grade or nanograde isopropanol; and
- Allowed to air dry as long as possible.



## 2.2 GROUNDWATER ASSESSMENT

Information previously obtained concerning groundwater characteristics in the surficial aquifer and Floridan Aquifer at the site included hydraulic conductivity data, groundwater flow data, groundwater classification, and the extent of contamination. Groundwater investigations were conducted in association with the contamination assessment in December 1996, June 1997 and April 1998. Evaluation of the data was presented in a Contamination Assessment Report (CAR) dated April 1998. Information presented in previous reports for the site indicated that the groundwater flow direction in the surficial aquifer is to the west/southwest and in the Floridan Aquifer it is to the northwest. The groundwater in the surficial aquifer was identified as G-II in the 1995 CAR. Hydraulic conductivity for the Floridan Aquifer and surficial aquifer was evaluated in the 1998 CAR. Hydraulic conductivity for the surficial aquifer was reported to range between 0.55 ft/day and 2/71 ft/day. The average transmissivity in the shallow aquifer was 15.36 ft<sup>2</sup>/day and the average flow velocity was 9.75 ft/year. The hydraulic conductivity for the Floridan Aquifer was reported to range between 1.71 ft/day to 5.89 ft /day. The average transmissivity for the Floridan Aquifer was 40/58 fts/day. The average flow velocity was 22.62 ft/year.

The horizontal and vertical extent of contamination at the site was evaluated in the 1998 CAR. Results indicated that TCE and its degradation products were detected in the surficial aquifer near the northwest corner of the building, on the southern side of the building, and near a drainage ditch on the southern portion of the property. TCE and its degradation products were detected in the Floridan Aquifer near the northwest portion of the building.

The purpose of this additional investigation was to further evaluate the horizontal and vertical extent of TCE contamination in the Floridan Aquifer and to evaluate current groundwater conditions in the surficial aquifer.

### 2.2.1 Groundwater Monitor Well Installation

Two new monitor wells were installed during this investigation. One well (MW-23) was designed to monitor the upper portion of the Floridan Aquifer in a downgradient location from the subject site. One well (MW-24) was designed to monitor a deeper portion of the Floridan

Aquifer beneath the site in an area with elevated concentrations of contaminants. Boring logs and well completion diagrams for the new wells are included in Appendix A.

At monitor well MW-24, the well boring was advanced through a 10.25-inch inside diameter hollow stem auger in order to place a ten-inch diameter surface casing. Continuous soil samples were obtained for lithologic description using a split spoon sampler. Schedule 40 PVC surface casing was installed several feet into the confining clay layer beneath the site in order to prevent potential migration of contaminants from the surficial aquifer to the Floridan Aquifer. The ten-inch diameter surface casing was installed to a depth of 28 feet. The surface casing was then secured by pumping neat cement grout through a tremmie pipe into the annular space between the casing and the side of the borehole, while simultaneously removing the 10.25-inch augers. The surface casing was then covered and secured in place for a period of at least 24 hours. After allowing the grout to harden, borings were then advanced through the casing using the mud-rotary drilling method. The boring was drilled to a depth of 65 feet. A six-inch diameter surface casing was installed in order to prevent potential migration of contaminants to the deeper portions of the Floridan Aquifer. The six-inch casing was also grouted into place using neat cement. The well was drilled out to 70 feet bls after allowing the grout to cure for 24 hours. Five feet of two-inch diameter, 0.010-inch slotted schedule 40 PVC well screen and 65 feet of casing were placed into the borehole to complete the well. The annulus was backfilled around the screen with 20/30-grade silica sand to approximately four to five feet above the screened interval. A four-foot thick bentonite seal was placed above the sand pack and the remaining annulus was backfilled with neat cement.

The off-site monitor well MW-23 was installed similar to MW-24, however, the ten inch surface casing was not utilized. The boring was advanced to ten feet using a 10.25-inch inside diameter hollow stem auger. Continuous soil samples were obtained for lithologic description using a split spoon sampler. Mud rotary drilling was employed from ten feet to the total depth of the well. A six-inch diameter surface casing was placed in the borehole at a depth of approximately 30 feet. The surface casing was grouted into place. The grout was allowed to cure for 24 hours before drilling the remaining borehole. The borehole was drilled to approximately 55 feet and the well was completed with five feet of two-inch diameter, 0.010-inch slotted well screen and 50 feet of casing. A 20/30 grade silica sand pack was placed around the well screen and extended four to five feet above the top of the screen. A three to four foot thick layer of bentonite was then placed on top of the filter pack. The annular space between the bentonite and the

ground surface was then backfilled with neat cement grout. The surface completions consisted of a flush mounted well cover secured by a two-foot by two-foot concrete pad with a locking expansion well cap.

The newly installed Floridan aquifer monitor wells were developed by surging and overpumping in order to remove fine particles from the sand pack and assist in restoring the natural water quality of the aquifer in the vicinity of the well. Each of the wells was alternately surged and overpumped at an approximate rate of one gallon per minute. Pumping continued until the development water was relatively clear and free of fine sediment. Development water extracted from each of the wells was pumped into labeled 55-gallon drums for temporary storage on site, until off-site disposal could be arranged.

Upon completion of well installation activities, Mooney & Associates, Inc. surveyed the locations of the newly installed monitor wells, a State of Florida Registered land surveying company. The top of casing elevation of each well was surveyed from a benchmark referenced to mean sea level with a 0.01-foot degree of accuracy.

### **2.2.2 Groundwater Sampling**

During the week of February 21, 2000, a comprehensive groundwater sampling event was conducted that included sampling all existing and newly installed monitor wells and off-site wells on the Coastal Unilube property, Frito Lay, Inc. and the former McCaffery residence at 10114 Woodberry Drive. All wells were sampled for total and dissolved aluminum, iron, lead, sulfates and total dissolved solids. In addition, samples obtained from all monitor wells were analyzed for the Volatile Priority Pollutants compounds by EPA Method 8260.

Each of the monitor wells was purged using a peristaltic pump and dedicated Tygon tubing. The wells were sampled using disposable Teflon bailers. Monitor well purging and sampling was conducted in accordance with the site Quality Assurance Project Plan (QAPP).

During purging, samples were monitored for pH, temperature, conductivity and turbidity. Records of these field measurements are included on the well sampling field data sheets included as Appendix E. Once these parameters had stabilized, samples were collected for metals, sulfates, total dissolved solids and VPPs. Following the same approved sampling procedure

employed during the December 1996 site assessment, samples requiring analysis for total and dissolved metals, as well as sulfates, were collected first using the peristaltic pump. A 1-micron filter was inserted inline with the peristaltic pump to collect the filtered samples for metals analysis. Once samples for these parameters had been obtained, the pump tubing was carefully removed from the well so as not to agitate the water column. Samples requiring PPV analysis were then collected using disposable Teflon bailers.

Groundwater samples collected for PPV analysis were placed in VOA vials preserved with hydrochloric acid. Samples requiring sulfate analysis were collected in 1/2-gallon plastic containers with no preservative, while those samples obtained for metals analysis were collected into 16-ounce plastic containers preserved with nitric acid. Groundwater samples were placed on ice in a cooler at 4°C, logged on a Chain-of-Custody form and were delivered to STL Savannah Laboratories in Tampa, Florida.

### 2.3 SAMPLING METHODOLOGY

Samples were submitted to STL Savannah Laboratories in Tampa, Florida for analysis. The methodology, handling, preservation and shipment of all samples were conducted in accordance with The STL Savannah Laboratories Comprehensive Quality Assurance Plan) May 1993, and applicable FDEP guidance documentation.

Prior to initiating any soil or groundwater sample collection activities, all sampling equipment was cleaned using the decontamination procedure described below. Decontamination at the site was conducted in a designated, properly contained area constructed specifically for that purpose. All liquid wastes associated with decontamination were collected and transferred to 55-gallon drums. These drums were labeled for proper storage and disposal. The sampling equipment, including hollow-stem augers, hand augers and split-spoon samplers, were decontaminated using the following procedure.

- Cleaned with heated water (steam cleaner);
- Cleaned with non-phosphate cleaner (Alconox or Liquinox);
- Rinsed with tap water;
- Rinsed thoroughly using deionized water;

- Rinsed twice using pesticide-grade or nanograde isopropanol; and
- Allowed to air dry as long as possible.

## 2.4 INVESTIGATION DERIVED WASTE

Investigation Derived Waste (IDW) handling and storage procedures followed those employed during previous site assessments. Decontamination water, soil auger cuttings, and monitor well development water were contained in 55-gallon drums. Each drum was labeled according to its contents. All of the drums were stored and properly maintained in a secured area located adjacent to the storm water retention pond in the southwest section of the property.

The collected and containerized wastes were sampled to characterize the waste for subsequent off-site disposal. Both the liquid and the solid IDW were analyzed for the same parameters as the groundwater and soil samples, respectively. Jamson Environmental of Tampa, Florida (Jamson) was contracted to properly dispose of the liquid and solid wastes. Analytical results characterized IDW as non-hazardous. The IDW were collected, manifested and disposed of at approved disposal facilities. Copies of the waste disposal manifests for these materials are included in Appendix E.

## 3.0 SITE GEOLOGY

The site geology was described in detail in the April 1998 CAR and cross sections were provided in that report. Additional information on the site geology was obtained during drilling of the two new Floridan monitor wells. Soil boring logs for the two new Floridan Aquifer monitor wells are presented in Appendix X. In general, the site is underlain by a ten to twenty foot thick surficial unit of unconsolidated fine-grained sands and clayey sands. Beneath the unconsolidated unit is a five to ten foot thick blue-green clay of the Hawthorn Group. The clay is underlain by a clayey sand or sandy clay which grades downward into a white weathered limestone. The depth to the limestone varies from approximately 28 feet to approximately 38 feet bls.

## 4.0 GROUNDWATER ELEVATIONS

### 4.1 SURFICIAL AQUIFER

On February 24, 2000, groundwater elevation measurements were obtained at all surficial and Floridan aquifer monitor wells. These water level measurements were then used to calculate potentiometric elevations in both water bearing zones. Table 1 summarizes these water level measurements, as well as surveyed top of casing elevations, well depths, and calculated water level elevations. The calculated water level elevations were used to construct the groundwater elevation contour maps included as Figures 4 and 5.

Water level measurements recorded on February 24, 2000, confirm that the groundwater flow direction in the surficial aquifer is predominantly toward the west-southwest. The change in groundwater elevation across the site is three to four feet, which equates to a hydraulic gradient of approximately 0.007 feet/foot.

### 4.2 FLORIDAN AQUIFER

Through the recent installation of MW-23 on the downgradient Extra Space Storage and MW-24 on the subject site, additional lithological information and groundwater analytical data from the deeper water-bearing zone are now available. Calculated groundwater elevations for MW-23 and MW-24, as well as the previously existing Floridan aquifer wells are included in Table 1. These elevations were used to construct the potentiometric map of the deeper aquifer included as Figure 5.

Groundwater elevation measurements obtained during February 2000 were used to evaluate to direction of groundwater flow in the Floridan Aquifer. Monitor well MW-24 was designed to monitor a deeper portion of the Floridan aquifer and was not used for contouring purposes. Monitor well MW-24 was installed adjacent to Floridan aquifer well MW-12. A potentiometric head difference of 4.37 feet was measured between these two wells. Recent groundwater measurements taken at the Floridan aquifer wells show that the flow direction in the deeper water bearing zone is toward the north-northwest. The difference in potentiometric head across the site is between two and three feet. This potentiometric head difference is equivalent to a gradient of 0.004 feet per foot, or less than one percent.

## 5.0 ANALYTICAL RESULTS

The principle criteria used to evaluate the analytical results for the soil samples collected during the February 2000 site investigation were the Soil Cleanup Target Levels established in Chapter 62-777 FAC (Contaminant Cleanup Target Levels).

The "leaching standards" of the Florida SCTLs have been applied to assess potential impacts from volatile organic concentrations detected in the surficial soils at this site. These leachability numbers are intended to be used as a screening mechanism for source removal evaluations, and as a "guidance" tool when concentrations of a contaminant of concern are also detected in the groundwater. GNB understands that these are default leachability numbers, and can, if it so elects, calculate a site-specific leachability number.

State of Florida Primary and Secondary MCLs were used to assess groundwater analytical data generated from the February 2000 investigation. Groundwater guidance concentrations as well as Groundwater Cleanup Target Levels (Rule 62-777) were also employed to evaluate the groundwater analytical results.

### 5.1 SOIL ANALYTICAL RESULTS

Table 4 summarizes the volatile organic analytical results for the soil samples obtained from the recent site investigation. The laboratory analytical report and chain of custody forms for the soil samples are included in Appendix B.

Based on the analytical results for the 0"-6" soil samples, none of the previously detected organic parameters were detected in the soil samples obtained during the February 2000 investigation. The method detection limit for vinyl chloride was above the leachability limit of 7.0 ug/kg, however it was well below the 62-785 FAC Direct Contact Industrial Exposure goal of 40 ug/kg. In addition, the soil sample SS-10 was diluted for analysis due to a high amount of organic compounds (other than VPPs) in the sample resulting in an elevated method detection limit of 1,000 ug/kg for most previously detected parameters (chloroform, cis-1,2-Dichloroethene, trans-1,2-dichloroethene, methylene chloride, and trichloroethene) and 2,000 ug/kg for vinyl chloride. These elevated detection limits for sample SS-10 were below their respective Direct

Contact Industrial Exposure goal with the exception of chloroform and vinyl chloride. Chloroform and vinyl chloride have not been detected in soils in previous investigations at the site, therefore, it is not likely that these constituents were present in soil sample SS-10. (In addition, vinyl chloride was not detected in the two closest wells to this sample location, MW-1 and MW-10.) No other Method 8260 volatile constituents were detected in the soil samples obtained during this investigation. Since no method 8260 constituents were detected in the 0"-6" interval, the 6"-12" interval was not analyzed.

## 5.2 GROUNDWATER ANALYTICAL RESULTS

The groundwater analytical results for the February 2000 investigation are summarized in Tables 2 and 3. Laboratory analytical reports and chain-of-custody forms are included in Appendix C. Groundwater field data collection sheets are included in Appendix D. The State of Florida Guidance Concentration Levels, the Cleanup (Rule 62-777) standards, as well as the Primary and Secondary MCLs for G-II aquifers were employed to evaluate groundwater analytical results obtained at the former GNB facility.

### 5.2.1 Metals/Inorganic Analysis

The groundwater samples from the surficial aquifer and Floridan Aquifer were analyzed for total and dissolved aluminum, iron, and lead, and sulfates.

#### Lead

Concentrations of total lead above the Primary MCL of 0.015 mg/l were detected at two monitor wells. These samples were obtained from MW-2 (0.075 mg/l), and MW-23 (0.21 mg/l). Analytical results for dissolved lead from these two samples were below the MCL, and below the detection limit of 0.005 mg/l.

#### Aluminum

Secondary MCLs were used to evaluate the analytical results for total and dissolved aluminum (0.2 mg/l), and total and dissolved iron (0.3 mg/l). The MCL for aluminum was exceeded in unfiltered samples from sixteen of 26 wells. The concentration of total aluminum ranged between 0.24 mg/l (MW-4) and 110 mg/l (MW-23). The MCL for dissolved aluminum was



exceeded in twelve filtered samples. The concentration of dissolved aluminum ranged between 0.22 mg/l (MW-8 and MW-10) and 76 mg/l (MW-11).

### Iron

The MCL for iron (0.3 mg/l) was exceeded in nineteen unfiltered samples. The total iron concentration ranged between 0.36 mg/l (MW-3 C.U.) and 67 mg/l (MW-23). The concentration of dissolved iron also exceeded the MCL in nineteen filtered samples and ranged between 0.31 mg/l (MW-13 and MW-16) and 75 mg/l (MW-8).

### Sulfates

The secondary groundwater MCL for sulfate is 250 mg/l. This level was exceeded at four of the 26 wells sampled for sulfate. These exceedances occurred in the samples from MW-2 (410 mg/l), MW-9 (730 mg/l), MW-11 (730 mg/l) and at MW-23 (340 mg/l).

### pH

Field pH measurements in the surficial aquifer monitor wells ranged from 3.54 (MW-11) to 6.29 (MW-10). Field pH measurements in the Floridan aquifer monitor wells ranged from 6.90 (MW-12) and 11.33 (MW-15). This again demonstrates the slightly depressed (acidic) pH condition in the surficial aquifer.

### **5.2.2 Organics Analysis**

A summary of the groundwater analytical data is included in Table 3. The laboratory analytical reports and chain of custody forms for the groundwater samples are included in Appendix C. Isoconcentration contour maps for TCE in the surficial and Floridan Aquifers at the subject property are shown on Figures 6 and 7.

The February 2000 sampling event confirms that TCE and its degradation products are present in the surficial and deeper water bearing zones at the former GNB site. Analytical results for the groundwater samples indicated that trichloroethene and several degradation products were detected in groundwater at the site. Trichloroethene (TCE) was detected above the maximum contaminant level of 3.0 µg/l in the samples from nine wells. TCE was detected in the samples collected from monitor wells MW-2 (15 µg/l), MW-3A (32 µg/l), MW-6 (17 µg/l), MW-9 (21 µg/l), MW-11 (22 µg/l), MW-12 (80 µg/l), MW-17 (23 µg/l), MW-18 (9 µg/l), and MW-20 (160 µg/l). The TCE concentrations detected in these nine wells did not exceed the Natural

Attenuation Default Concentration (NADC) of 300 µg/l. Monitor wells MW-12 and MW-18 were the only Floridan Aquifer monitor wells that had detectable concentrations of TCE. The method detection limits for TCE for monitor wells MW-3 (C.U.) (150 µg/l) and MW-4 (C.U.) (15 µg/l) were elevated above the MCL of 3.0 µg/l but were below the NADC of 300 µg/l. The Coastal Unilube site was a previous oil distributor and has had documented contamination not associated with the GNB site.

**Cis-1,2-Dichloroethene** was detected above the MCL of 70 µg/l in samples collected from two wells, MW-20 (350 µg/l) and MW-4 C.U. (740 µg/l). MW-4 (C.U.) is located across Falkenburg road to the west of the subject site. The concentrations of cis-1,2-dichloroethene detected in the on-site monitor well MW-20 did not exceed the NADC of 700 µg/l. The NADC was exceeded in the sample from the off-site well MW-4 C.U. The method detection limit for this parameter was elevated (250 µg/l) for the sample from MW-3 (C.U.) and was above the MCL of 70 µg/l but less than the NADC of 700 µg/l.

**Vinyl chloride** was detected above the MCL (1.0 µg/l) in samples obtained from seven on-site monitor wells and one off-site well. Vinyl chloride was detected in the samples from MW-2 (21 µg/l), MW-6 (19 µg/l), MW-8 (140 µg/l), MW-9 (37 µg/l), MW-11 (31 µg/l), MW-18 (19 µg/l), MW-20 (16 µg/l), and MW-4 (C.U.) at 190 µg/l. The concentration of vinyl chloride exceeded the NADC of 100 µg/l in the samples from monitor wells MW-8 and MW-4 (C.U.). The MDL for vinyl chloride for sample MW-3 (C.U.) was elevated (50 µg/l) above the MCL of 1.0 µg/l but was below the NADC of 100 µg/l.

**Bromodichloromethane** was detected above the GWCTL of 0.6 µg/l in one well, MW-24 at 8.4 µg/l. The method detection limit for bromodichloromethane was 5.0 µg/l for all on-site wells, which is above the MCL of 0.6 µg/l but less than the NADC of 60 µg/l. The MDLs for off-site wells MW-3 (C.U.) was 250 µg/l and for MW-4 (C.U.) was 25 µg/l, which were above either the GWCTL (60 µg/l) or the NADC (0.6 µg/l) for this parameter.

**Ethylbenzene** was detected in the sample obtained from one off-site monitor well MW-3 C.U. at 2,400 µg/l, which is greater than the MCL of 700 µg/l but less than the NADC of 7000 µg/l. Ethylbenzene was not detected in any of the on-site monitor wells.

Compounds previously detected in groundwater samples obtained at the site included carbon disulfide, chloroform, 1,1-dichloroethane, 1,1-dichloroethene, methyl isobutyl ketone and toluene. These compounds were not detected in the groundwater samples obtained during the February 2000 sampling event.

No other contaminants were detected above the MCL or NADC in the onsite monitor wells. Some parameters were present above the method detection limit but were below their respective MCL, NADC or GWCTL. The compounds include: trans-1,2-dichloroethane, which was detected in monitor wells MW-6 (9.5 µg/l), MW-8 (5.1 µg/l), MW-9 (8.4 µg/l), MW-12 (46 µg/l), MW-18 (7 µg/l), MW-20 (19 µg/l) and MW-23 (5 µg/l). Cis-1,2-dichloroethane was also present in several wells in concentrations greater than the MDL but less than the MCL, NADC or GWCTL. Cis-1,2-DCA was present in the samples from monitor wells MW-2 (21 µg/l), MW-3A (14 µg/l), MW-4 (25 µg/l), MW-7 (6.1 µg/l), MW-11 (35 µg/l), MW-12 (28 µg/l), MW-13 (6.9 µg/l), MW-14 (34 µg/l), MW-15 (6.3 µg/l), MW-17 (43 µg/l), MW-18 (15 µg/l) and MW-23 (19 µg/l). The method detection limit for off-site wells MW-3 (C.U.) and MW-4 (C.U.) was elevated above the MCL or GWCTL or NADC for the other 8260 parameters.

### 5.3 DATA ANALYSIS

#### 5.3.1 Soils

Based on the most recent analytical data and historical data presented in the 1998 and 1997 CAR's, it does not appear that a source of TCE contamination exists in surficial soils on the north side of the site. TCE or other organic compounds were not detected in any soil samples obtained during this investigation. An unknown organic compound was present in the sample from the northeast corner of the building (SS-10), which resulted in an elevated method detection limit for all the method 8260 parameters in that sample. Based on this analytical data and the appearance of stained soil observed at this location, it appears that the organic compounds detected at soil sample location SS-10 may be the result of activities conducted by the current tenant of the property, such as spills of lubricating oils or grease associated with the heavy equipment currently used on site.

### 5.3.2 Groundwater

Based on the recent groundwater analytical data, the concentrations of TCE on the subject site are consistent with previous analytical data presented in the 1998 CAR. The extent of TCE present above the MCL of 3.0 µg/l is delineated in the surficial aquifer on all sides and appears to be limited to the area of the subject property. In addition, TCE concentrations have decreased from 1998 levels in six of ten wells in which it was detected. The concentration of TCE increased in one deep well (MW-12) and remained the same or increased slightly in three shallow wells (MW-3A, MW-11, and MW-20). The concentration of cis-1,2-DCE increased in three of the four deep wells in which it was detected and increased in four of ten shallow wells with the largest increases at monitor wells MW-6, MW-8 and MW-9. The concentration of cis-1,2-DCE decreased in one deep well (MW-18) and eight shallow wells. The overall decreases in TCE concentrations and increases in cis-1,2-DCE, and trans-1,2-DCE in groundwater indicate that some degradation is occurring. TCE concentrations detected at the downgradient Coastal Unilube property across Falkenburg Road do not appear to be related to migration of contaminants from the subject site. TCE concentrations at the Coastal Unilube property have historically been orders of magnitude higher than those on the subject property. Samples obtained from the Coastal Unilube property during the February 2000 sampling event had elevated method detection limits for TCE and vinyl chloride.

Concentrations of dissolved aluminum that exceeded the primary MCL in the surficial aquifer appeared to be higher along the northern property boundary and highest around monitor wells MW-11, MW-9 and MW-2. Concentrations of dissolved iron that exceeded the secondary MCL were present in all surficial wells except those located on the eastern property boundary and northeastern corner of the property (MW-1, MW-7 and MW-10). It appears the presence of iron in the shallow aquifer is naturally occurring. Dissolved lead was not detected in any of the surficial aquifer wells. Sulfates in concentrations that exceeded the secondary MCL were detected primarily in wells located in the northwestern portion of the property, specifically monitor wells MW-2, MW-9, and MW-11. The concentrations of metals and sulfates have historically been related to depressed pH levels in the area of the site where the wastewater pretreatment facility and acid neutralization tanks were located. Elevated concentrations of metals also appear to be limited to the surficial aquifer.

Detectable concentrations of TCE in the upper Floridan Aquifer are limited to the northwest portion of the property. The nearest off-site Floridan Aquifer monitor well (MW-18) had concentrations of TCE above the MCL. The horizontal extent of TCE contamination in the upper Floridan Aquifer has been delineated on the north, east and west but may extend underneath the building on site towards the south. The vertical extent of contamination has been delineated with the deepest (70') on-site well (MW-24) exhibiting no detectable concentrations of the 8260 constituents.

## 6.0 CONCLUSIONS

Based on analysis of the recent and historical data obtained at the GNB Falkenburg Road site, the following conclusions are presented:

- Investigations began at the property in 1986 prior to the sale of the site by Pacific Chloride to JFI Land Corporation. Results of the initial assessment indicated lead contamination of soils near the former on-site wastewater treatment plant.
- Additional investigation in 1988 included soil, surface water and groundwater samples. Lead impacted soils were delineated. Further groundwater investigation was recommended. A soil excavation was conducted to remove soil with lead concentrations greater than 500 mg/kg and over 180 soil samples were obtained to confirm that previous soil remediation goals were achieved.
- Additional assessment and removal of lead impacted soil was conducted after approval of the Quality Assurance Project Plan in 1994. Soil samples were also analyzed for Volatile Priority Pollutants and trichloroethene was detected in four soil samples obtained on the north side of the building. Lead in soil did not exceed the EP Toxicity Level and TCE in soil did not appear to be impacting groundwater. Dissolved metals were not detected in groundwater above the MCLs. TCE, dichloroethene, and vinyl chloride were detected slightly above the MCLs in several groundwater samples. Additional groundwater monitoring was recommended.
- In 1996, at FDEP's request, additional soil investigation was conducted and additional downgradient monitor wells were installed. Results of the soil investigation indicated that

lead was not present in leachable concentrations and no areas of soil with TCE concentrations greater than soil cleanup guidance concentrations (residential or industrial) were present on the site. The extent of TCE in shallow groundwater was delineated on the north, east and south and continued monitoring of the shallow and Floridan Aquifers was recommended.

- FDEP requested additional soil and groundwater assessment after submittal of the 1997 CAR. Additional Floridan Aquifer monitor wells and additional soil samples were obtained to characterize the north and south sides of the property and to further evaluate the presence of TCE in soil as a potential source of groundwater contamination. Results of the additional soil investigation indicated that TCE was not detected above the Soil Cleanup Target Level leaching standard or above the laboratory method detection limit in any of the soil samples obtained. Other VPP compounds were also not detected above the leachability goal for each compound. Two areas of remaining lead impacted soil were excavated in 1998. Results of the additional groundwater assessment indicated that the extent of TCE in shallow and deep groundwater was defined on three sides and an additional downgradient Floridan Aquifer monitor well should be installed. Groundwater flow direction and hydraulic conductivity were assessed at this time. Results indicated that groundwater flow in the surficial aquifer was to the west/southwest and groundwater flow in the Floridan aquifer was to the northwest.
- After submittal of the 1998 CAR, FDEP indicated that a thin zone of soil with leachable levels of solvents "seems" to be present at the site. FDEP indicated that soil contamination should be addressed in a Remedial Action Plan or a demonstration be made that soils are not leaching in order to receive No Further Action for the soils on site. FDEP also requested that a deeper Floridan Aquifer monitor well be installed to evaluate downward migration of contaminants on the north side of the property. A Work Plan to address the additional groundwater and soil investigation was prepared.
- Dames & Moore conducted additional assessment activities in February 2000. Results of this additional soil assessment indicated that no volatile priority pollutant compounds (including TCE and other compounds previously detected in soils at the property) were detected above the leachability goals or method detection limits for those compounds. One exception to this was at soil sample SS-10 which had an elevated method detection limit due to a high amount of organic compound(s) (other than VPPs) in the sample. The organic compound(s) are likely the result of spills or leaks of lubricating oils or grease utilized on site by the current

property tenant. Dames & Moore evaluated the groundwater results for the two wells that are in closest proximity to the soil sample SS-10 and results indicated that no VPP compounds were detected in these wells, indicating that the organic compounds detected at SS-10 are also not leaching into groundwater in the vicinity.

- Results of this additional groundwater assessment indicated that concentrations of total and dissolved aluminum and iron were present above the MCL in numerous samples across the site, and their presence appears to be a naturally occurring background condition. Dissolved lead was not detected in any groundwater samples.
- Volatile Priority Pollutant compounds that were detected in shallow or deep groundwater samples above the MCL included TCE (detected in nine wells), cis-1,2-dichloroethene (detected in one on site and one off site well), vinyl chloride (detected in seven on-site wells and one off-site well), bromodichloromethane (detected in one well), and ethylbenzene (detected in one off-site well).
- The Natural Attenuation Default Concentration for vinyl chloride was exceeded in the on-site groundwater sample obtained from monitor well MW-8. No other parameters detected in groundwater at the site exceeded their respective NADCs. The NADC for cis-1,2-dichloroethene was exceeded in the off-site well (MW-4 C.U.).
- The concentration of TCE has decreased in six of ten wells in which it has been historically detected. The extent of TCE in the surficial aquifer has been delineated on all sides and appears to be limited to the area of the subject property, but appears slightly off-site to the south of the property. The extent of TCE in the Floridan Aquifer has been delineated and extends slightly off site to the northwest. In comparison to the analytical results presented in the 1998 CAR, the concentration of TCE increased on one deep well (MW-12) and remained the same or increased slightly in three shallow wells (MW-3A, MW-11 and MW-20).
- The vertical extent of TCE has been delineated with the deepest (70') on site well (MW-24) exhibiting no detectable concentrations of the method 8260 constituents.
- The concentration of cis-1,2-DCE increased in four deep wells and four shallow wells, while it decreased in one deep well and eight shallow wells.

- Trans-1,2-dichloroethane was detected below the MCL for that compound in seven wells indicating that natural degradation of TCE and cis-1,2-DCE is occurring.

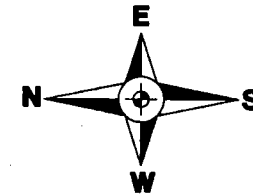
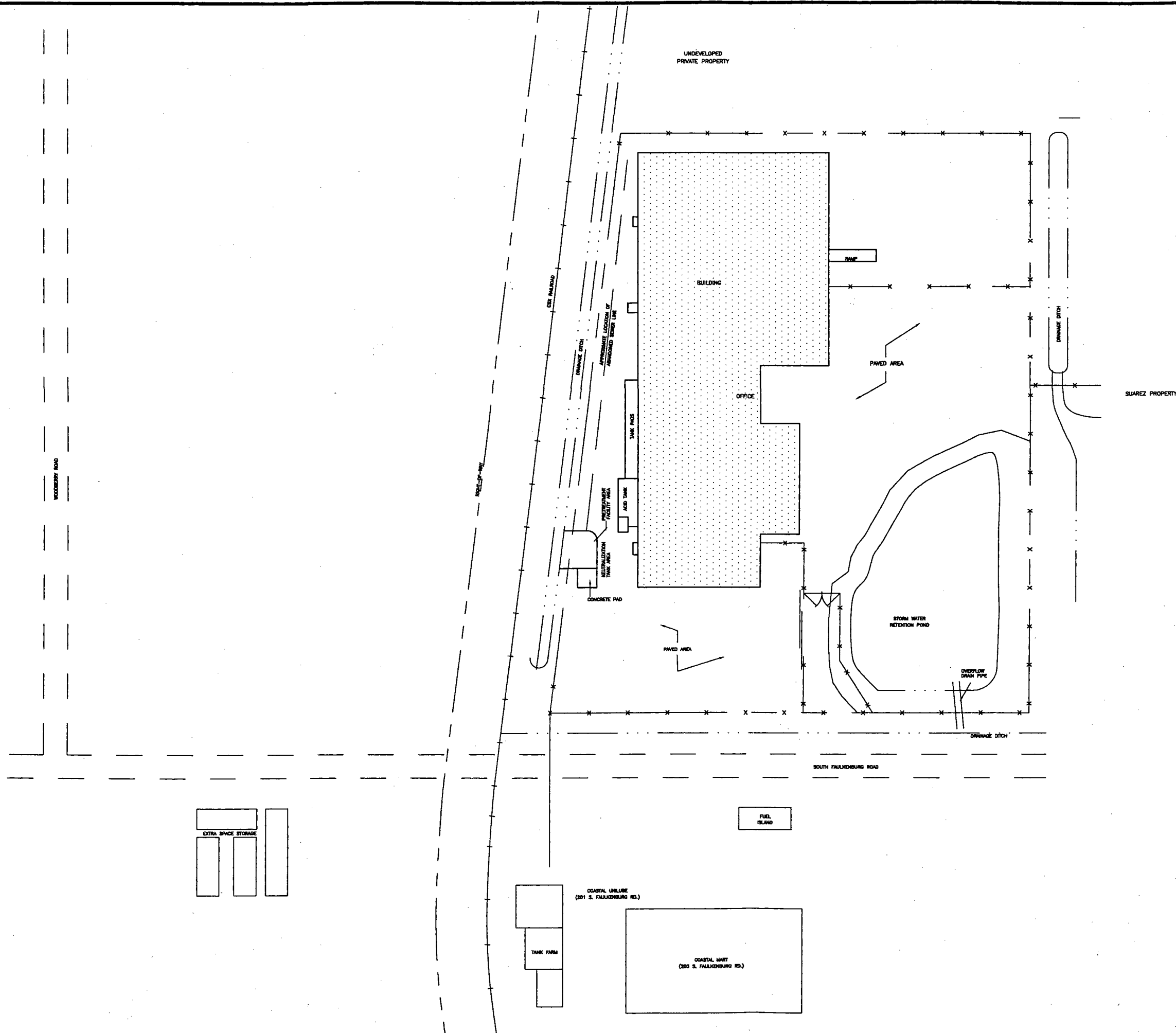
## 7.0 RECOMMENDATIONS

Based on the analytical results recently obtained, as well as the information collected during the 1996 and 1994 site investigations, GNB recommends that the following measures be conducted:

- (1) A Remedial Action Plan (RAP) will be prepared to address the chlorinated hydrocarbons from both the surficial and Floridan aquifers in the vicinity of the site.
- (2) Dames & Moore recommends that no further soil assessment be conducted unless deemed necessary as part of the proposed groundwater remediation program.



## FIGURES



100 50 0 100  
SCALE: 1" = 100'

SITE LAYOUT MAP  
INCLUDING OFF-SITE  
PROPERTIES

FORMER PACIFIC CHOLINE FACILITY  
GNB TECHNOLOGIES  
TAMPA, FLORIDA

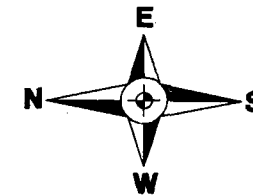
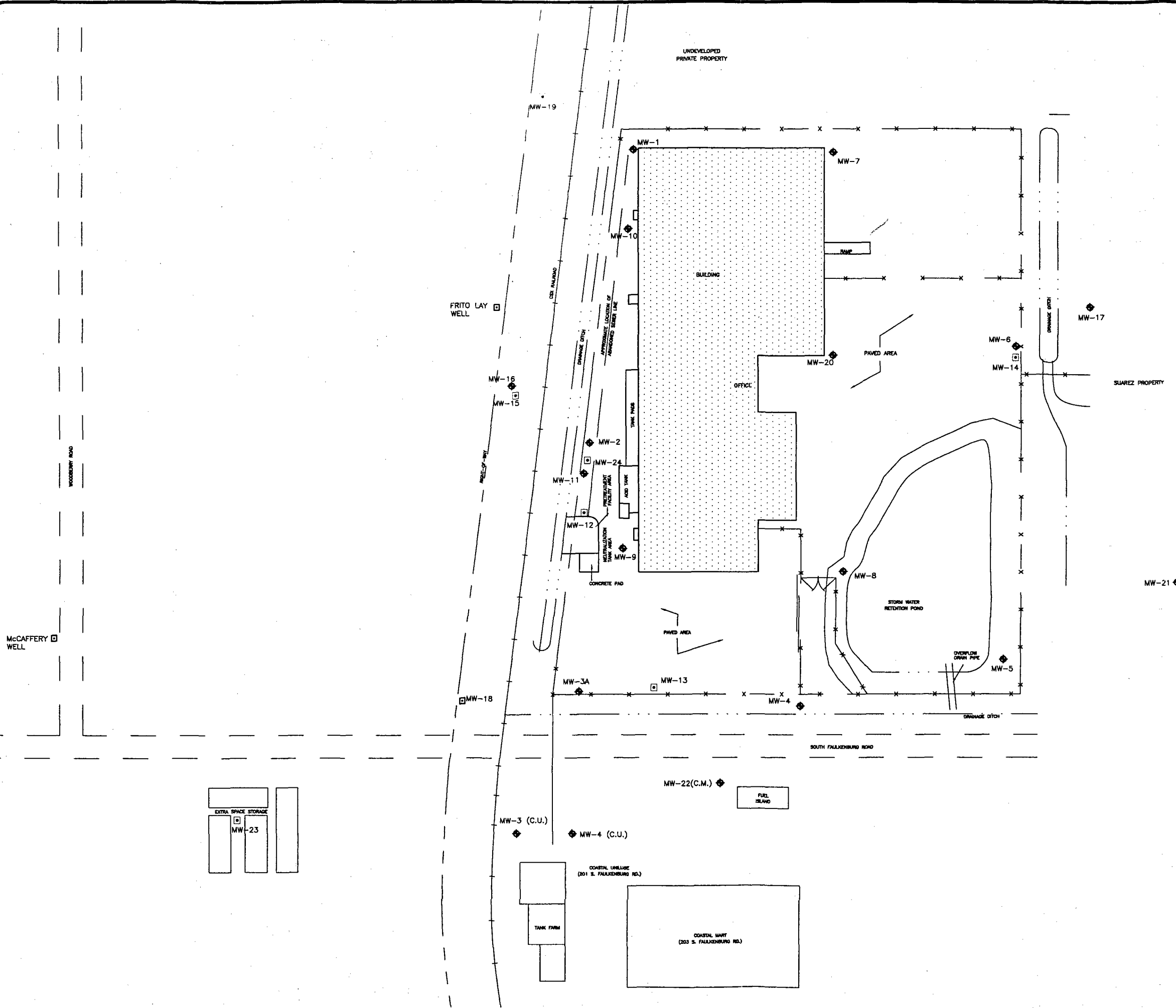
DCM GROUP  
DAMES & MOORE  
A DAMES & MOORE GROUP COMPANY

JOB NO.  
32040-015

1

NO.	BY	DATE	DESCRIPTION
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2	APD		
3	APD		
4	APD		
5	APD		
6	APD		
7	APD		
8	APD		
9	APD		
10	APD		

June 01, 2000 8:11:33 a.m. AcadVer:15.0  
Drawing: G:\DATA\141\HAZWAST\32040015 GNB\GNB-FG.DWG



100 50 0 100  
SCALE: 1" = 100'

### LEGEND

- FLORIDAN AQUIFER MONITORING WELL
- ◆ SURFICIAL AQUIFER MONITORING WELL

FORMER PACIFIC CHOHIDE FACILITY  
GNB TECHNOLOGIES  
TAMPA, FLORIDA

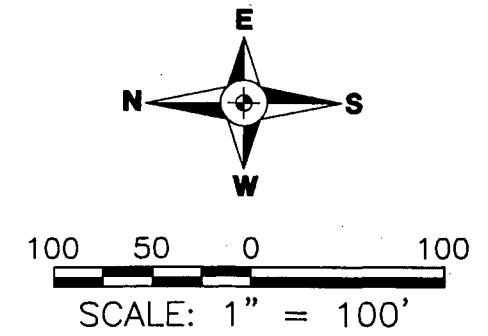
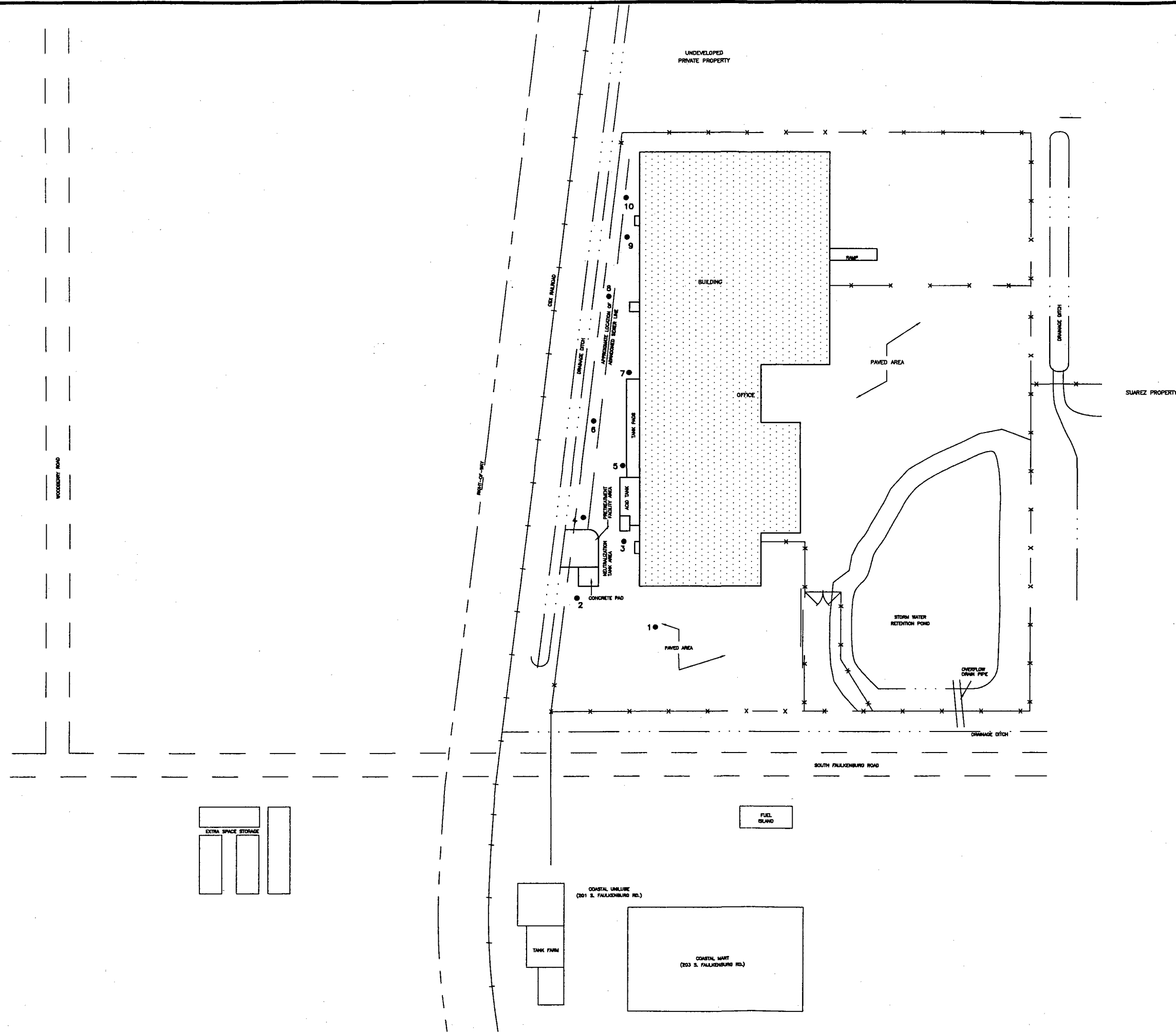
DAMES & MOORE  
A DAMES & MOORE GROUP COMPANY

MONITORING WELL  
LOCATION MAP

DATE: 5/17/00  
BY: [Signature]  
NO. [Blank]  
DESCRIPTION: [Blank]

JOB NO.  
32040-015

2



### LEGEND

- SOIL SAMPLE LOCATIONS



**DAMES & MOORE**  
A DAMES & MOORE GROUP COMPANY

**FORMER PACIFIC CHOHIDE FACILITY**  
**GNB TECHNOLOGIES**  
**TAMPA, FLORIDA**

**SOIL SAMPLE**  
**LOCATION MAP**

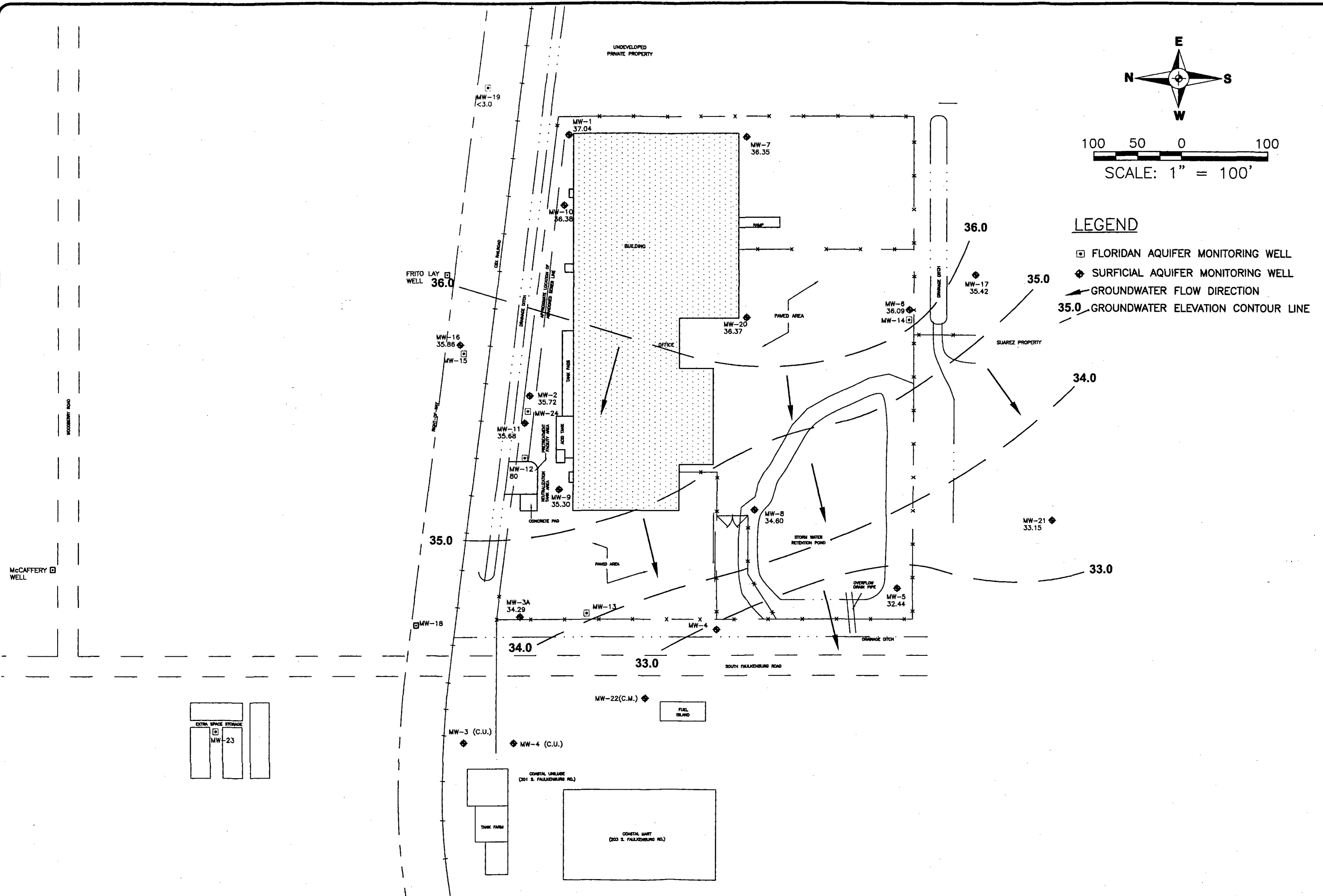
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DSGN: JRS  
CHKD: APD  
APD: APD

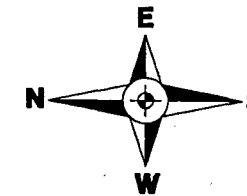
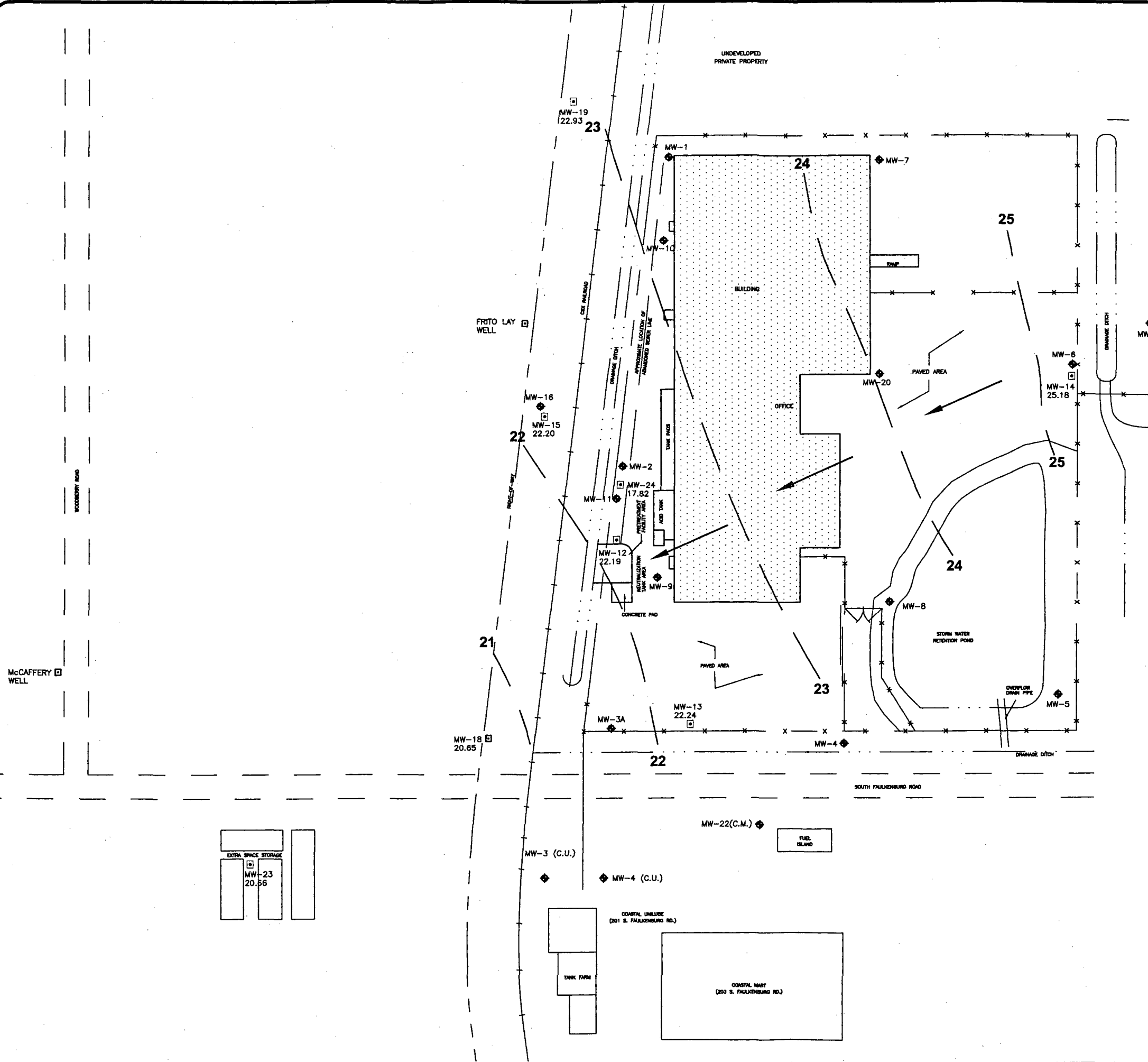
DATE: 06/11/99

NO. BY DATE REVISIONS

DESCRIPTION

JOB NO.  
32040-015





100 50 0 100  
SCALE: 1" = 100'

### LEGEND

- FLORIDAN AQUIFER MONITORING WELL
- ◆ SURFICIAL AQUIFER MONITORING WELL
- 25 POTENTIOMETRIC SURFACE CONTOUR LINE
- GROUNDWATER FLOW DIRECTION

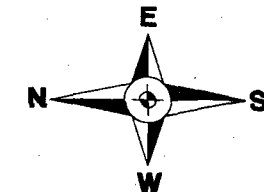
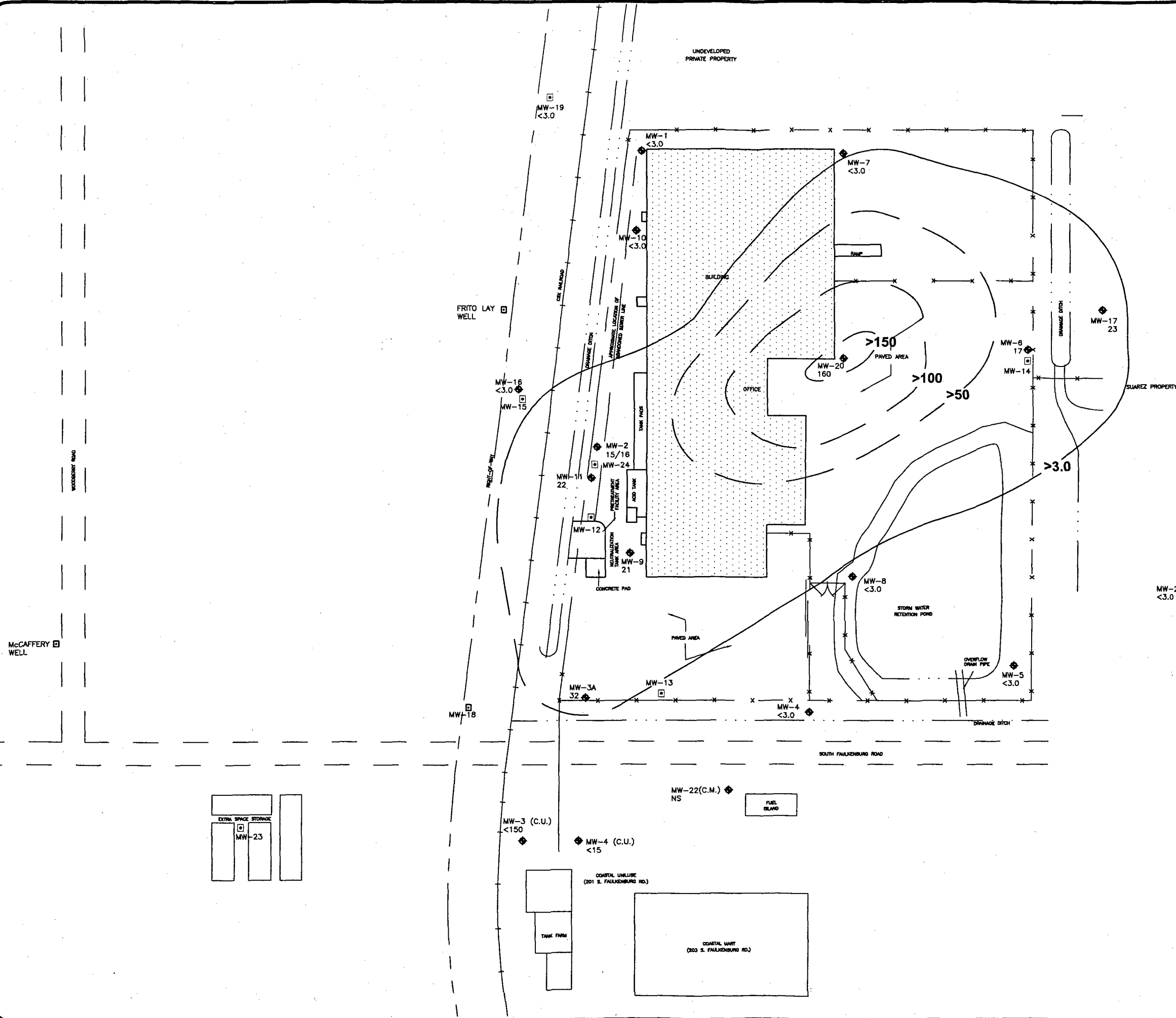
NOTE:  
MW-24 NOT USED FOR CONTOURING PURPOSES

FLORIDAN AQUIFER  
POTENTIOMETRIC SURFACE  
MAP, FEBRUARY 2000

FORMER PACIFIC CHOHIDE FACILITY  
GNB TECHNOLOGIES  
TAMPA, FLORIDA

DCM GROUP  
DAMES & MOORE  
A DAMES & MOORE GROUP COMPANY

JOB NO.  
32040-015



100 50 0 100  
SCALE: 1" = 100'

### LEGEND

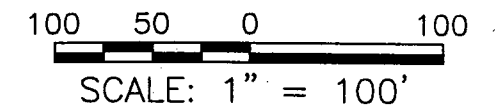
- FLORIDAN AQUIFER MONITORING WELL
- ◆ SURFICIAL AQUIFER MONITORING WELL
- △ PROPOSED MONITORING WELLS
- 160 CONCENTRATION OF TCE EXPRESSION IN ug/l

**TCE CONCENTRATION MAP**  
**SURFICIAL AQUIFER,**  
**FEBRUARY 2000**

**FORMER PACIFIC CHOHIDE FACILITY**  
**GNB TECHNOLOGIES**  
**TAMPA, FLORIDA**

**DAMES & MOORE**  
A DAMES & MOORE GROUP COMPANY

JOB NO.  
32040-015



□ FLORIDAN AQUIFER MONITORING WELL  
 ♦ SURFICIAL AQUIFER MONITORING WELL  
 △ PROPOSED MONITORING WELLS  
 80± CONCENTRATION OF TCE EXRESSION  
 IN ug/l

**TCE CONCENTRATION MAP  
(FLORIDAN AQUIFER)**



**DCM**  
**GROUP**

**DAMES & MOORE**

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7



## TABLES

**TABLE 1**  
**GROUNDWATER ELEVATIONS**  
**FORMER GNB FACILITY**  
**200 South Falkenburg Road**  
**Tampa, Florida**

Monitoring Well	Top of Casing Elevation (ft.)	Well Depth (ft)	Water Level (ft)	Water Level Elevation (ft)
MW-1	41.00	18.84	3.96	37.04
MW-2	40.01	10.27	4.29	35.72
MW-3A	39.48	14.35	5.19	34.29
MW-4	40.27	11.42	7.29	32.98
MW-5	39.66	18.79	7.22	32.44
MW-6	40.11	11.31	4.02	36.09
MW-7	40.17	14.58	3.82	36.35
MW-8	40.17	14.38	5.57	34.60
MW-9	40.23	14.58	4.93	35.30
MW-10	40.73	14.55	4.35	36.38
MW-11	39.72	14.39	4.04	35.68
MW-12 *	39.67	37.32	17.48	22.19
MW-13 *	39.87	37.21	17.63	22.24
MW-14 *	39.75	41.34	14.57	25.18
MW-15 *	39.63	42.41	17.43	22.20
MW-16	39.84	14.46	3.98	35.86
MW-17	40.12	14.76	4.70	35.42
MW-18 *	39.75	42.31	19.10	20.65
MW-19 *	42.29	49.41	19.36	22.93
MW-20	40.02	14.40	3.65	36.37
MW-21	38.58	14.82	5.43	33.15
MW-22 (C.M.)	38.52	14.75	NA	NA
MW-23	39.36	51.26	18.70	20.66
MW-24	38.20	78.49	20.38	17.82

NOTE: Water levels measured on February 24, 2000.

NA - Water level was not recorded at MW-22 (C.M.). - Dry -

\* Floridan aquifer monitoring wells.

**TABLE 2**  
**ANALYTICAL SUMMARY TABLE**  
**INORGANIC GROUNDWATER RESULTS<sup>A</sup>**

FORMER GNB FACILITY  
200 SOUTH FALKENBURG ROAD  
TAMPA, FLORIDA

Location	pH	Temp. (°F)	Conductivity umhos	Turbidity (NTU)	Aluminum		Iron		Lead		Sulfates	Total Dissolved Solids	Dissolved Oxygen
					Total	Diss.	Total	Diss.	Total	Diss.			
MW - 1	4.07	71.3	42	0.53	1.8	2.1	<0.05	<0.05	<0.005	<0.005	84	260	9.5
MW - 2	3.59	72.2	99	2.51	22	24	11	12	<0.005	<0.005	410	870	4.3
MW - 3A	5.13	72.3	575	24.9	1.8	1.2	9.5	9.6	<0.005	<0.005	230	460	9.1
MW - 4	5.58	73.4	190	2.31	0.24	0.85	8.5	1	0.075	<0.005	18	130	17.6
MW - 5	5.59	75.4	14	0.66	<0.2	<0.2	0.4	0.45	<0.005	<0.005	<5.0	76	22.8
MW - 6	5.60	70.7	196	0.85	0.69	<0.2	0.076	0.84	<0.005	<0.005	11	110	9.7
MW - 7	5.15	75.6	316	1.44	0.61	0.56	0.58	0.12	<0.005	<0.005	55	240	7.2
MW - 8	5.67	67.1	262	87.8	1.1	0.22	3.2	75	<0.005	<0.005	<5.0	150	9.0
MW - 9	5.08	71.7	132	137	60	35	20	20	<0.005	<0.005	730	1,200	5.9
MW - 10	6.29	73.1	12	3.39	0.24	0.22	0.074	<0.05	<0.005	<0.005	<5.0	110	10.4
MW - 11	3.54	74.7	136	130	85	76	16	17	<0.005	<0.005	730	1,300	7.0
MW - 12	6.90	84.5	920	0.95	<0.2	<0.2	0.16	<0.2	0.008	<0.005	170	580	7.6
MW - 13	7.54	78.0	342	0.66	<0.2	<0.2	0.2	0.31	<0.005	<0.005	14	210	7.9
MW - 14	10.65	77.6	447	30.2	<0.2	0.2	0.91	<0.05	<0.005	<0.005	7.5	140	10.3
MW - 15	11.33	76.0	165	4.06	0.59	0.66	0.17	<0.05	<0.005	<0.005	27	470	11.9
MW - 16	5.86	72.0	46	4.66	<0.2	<0.2	0.12	0.31	<0.005	<0.005	73	330	5.9
MW - 17	4.87	72.1	25	0.38	<0.2	<0.2	1.6	1.6	<0.005	<0.005	55	150	11.5
MW - 18	7.15	78.1	51	1.19	<0.2	<0.2	0.38	0.36	<0.005	<0.005	11	240	12.6
MW - 19	7.30	82.0	47	1.19	<0.2	<0.2	0.16	<0.2	<0.005	<0.005	<5.0	260	13.4
MW - 20	5.60	70.2	496	3.52	0.4	<0.2	8.5	9.7	<0.005	<0.005	120	330	
MW - 21	4.85	78.8		1.10	1.8	0.87	0.99	0.48	<0.005	<0.005	36	120	23.8
MW - 22 (C.M.)	Dry												
MW - 3 (C.U.)	5.73	75.4	25	0.62	<0.2	<0.2	0.36	0.37	<0.005	<0.005	42	170	6.1
MW - 4 (C.U.)	6.22	76.6	69	30.8	0.47	<0.2	13	12	<0.005	<0.005	90	400	29.2
MW-23	8.46	85.7	1,157	NM	110	<0.20	67	<0.092	0.21	<0.0050	340	1,000	17.8
MW-24	7.82	78.2	94	3.46	44	0.26	0.61	<0.050	<0.0050	<0.0050	110	460	12.1
Dup (MW-?)													
Frito Lay	7.39	76.2	54	3.49	<0.2	<0.2	0.64	0.59	<0.005	<0.005	15.0	270	23.0
McCaffery	7.54	86.1	408	3.02	<0.2	<0.2	3.7	2.8	0.013	<0.005	<5.0	210	11.8
Equip. Blank					<0.2	<0.2	<0.05	<0.005	<0.005	<0.005	<5.0	<5.0	

<sup>A</sup> All groundwater analyses reported as mg/L or ppm, unless noted otherwise.

pH - Expressed in standard units

ND - Not Detected

NM - Not Measured

NA - Not Analyzed

TABLE 3

**ANALYTICAL SUMMARY TABLE  
ORGANIC GROUNDWATER RESULTS**

**FORMER GNB FACILITY  
200 SOUTH FALKENBURG ROAD  
TAMPA, FLORIDA**

Sample Location Sampling Date	NADC	GWCTL	MCL	MW-1 2/23/00	MW-2 2/23/00	MW-3A 2/22/00	MW-4 2/22/00	MW-5 2/24/00	MW-6 2/21/00	MW-7 2/21/00	MW-8 2/21/00	MW-9 2/23/00	MW-10 2/23/00	MW-11 2/23/00	MW-12 2/22/00
<b>Method 8260 Volatiles</b>															
Acetone	7000	700		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromodichloromethane	60	0.6		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon Disulfide	7000	700		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroform	570	5.7		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1 - Dichloroethane	700	70		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1 - Dichloroethene	700		7	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,2-Dichloroethene	700		70	<5.0	21	14	25	<5.0	300	6.1	160	140	<5.0	35	28
Trans - 1,2 - Dichloroethene	1000		100	<5.0	<5.0	<5.0	<5.0	<5.0	9.5	<5.0	5.1	8.4	<5.0	<5.0	46
Ethylbenzene	7000		700	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl Isobutyl Ketone	5600	560		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Toluene	10000		1000	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichlorethene	300		3	<3.0	15	32	<3.0	<3.0	17	<3.0	<3.0	21	<3.0	22	80
Vinyl Chloride	100		1	<1.0	21	<1.0	<1.0	<1.0	19	<1.0	140*	37	<1.0	31	<1.0
All Other 8260 Volatiles				BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

All concentrations expressed in parts per billion (ppb)(ug/l) unless otherwise noted.

BDL - Below Detection Limit

NADC - Natural Attenuation Default Concentrations - Chapter 62-777, Table V, Florida Administrative Code

GWCTL - Groundwater Cleanup Target Levels - Chapter 62-777, Table I, Florida Administrative Code

MCL - Maximum Contaminant Levels - Chapter 62-550, Florida Administrative Code

TABLE 3

**ANALYTICAL SUMMARY TABLE  
ORGANIC GROUNDWATER RESULTS**

**FORMER GNB FACILITY  
200 SOUTH FALKENBURG ROAD  
TAMPA, FLORIDA**

Sample Location Sampling Date	NADC	GWCTL	MCL	MW-13 2/22/00	MW-14 2/21/00	MW-15 2/22/00	MW-16 2/22/00	MW-17 2/24/00	MW-18 2/24/00	MW-19 2/22/00	MW-20 2/21/00	MW-21 2/21/00	MW-22 (C.M.) Dry	MW-3 (C.U.) 2/23/00	MW-4 (C.U.) 2/23/00
<b>Method 8260 Volatiles</b>															
Acetone	7000	700		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	NS	<2500	<250
Bromodichloromethane	60	0.6		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NS	<250	<25.0
Carbon Disulfide	7000	700		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NS	<250	<25.0
Chloroform	570	5.7		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NS	<250	<25.0
1,1 - Dichloroethane	700	70		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NS	<250	<25.0
1,1 - Dichloroethene	700		7	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NS	<250	<25.0
cis-1,2-Dichloroethene	700		70	6.9	34	6.3	<5.0	43	15	<5.0	350	<5.0	NS	<250	740
Trans - 1,2 - Dichloroethene	1000		100	<5.0	<5.0	<5.0	<5.0	<5.0	7	<5.0	19	<5.0	NS	<250	<25.0
Ethylbenzene	7000		700	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NS	2,400	<25.0
Methyl Isobutyl Ketone	5600	560		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	NS	<1,200	<120
Toluene	10000		1000	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NS	230	<25.0
Trichlorethene	300		3	<3.0	<3.0	<3.0	<3.0	23	9	<3.0	160	<3.0	NS	<150	<15
Vinyl Chloride	100		1	<1.0	<1.0	<1.0	<1.0	<1.0	19	<1.0	16	<1.0	NS	<50	190
All Other 8260 Volatiles				BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	BDL	BDL

All concentrations expressed in parts per billion (ppb)(ug/l) unless otherwise noted.

BDL - Below Detection Limit

NADC - Natural Attenuation Default Concentrations - Chapter 62-777, Table V, Florida Administrative Code

GWCTL - Groundwater Cleanup Target Levels - Chapter 62-777, Table I, Florida Administrative Code

MCL - Maximum Contaminant Levels - Chapter 62-550, Florida Administrative Code

TABLE 3

**ANALYTICAL SUMMARY TABLE  
ORGANIC GROUNDWATER RESULTS**

**FORMER GNB FACILITY  
200 SOUTH FALKENBURG ROAD  
TAMPA, FLORIDA**

Sample Location Sampling Date	NADC	GWCTL	MCL	MW-23 3/21/00	MW-24 2/27/00	Frito Lay 2/28/00	McCaffery Well 2/28/00	Equip Blank 2/28/00	Dup (MW-3a) 2/22/00	Dup (MW-2) 2/23/00
Method 8260 Volatiles										
Acetone	7000	700		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Bromodichloromethane	60	0.6		<5.0	8.4	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon Disulfide	7000	700		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroform	570	5.7		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1 - Dichloroethane	700	70		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1 - Dichloroethene	700		7	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,2-Dichloroethene	700		70	19	<5.0	<5.0	<5.0	<5.0	10	23
Trans - 1,2 - Dichloroethene	1000		100	5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethylbenzene	7000		700	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl Isobutyl Ketone	5600	560		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Toluene	10000		1000	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichloroethene	300		3	<3.0	<3.0	<3.0	<3.0	<3.0	26	16
Vinyl Chloride	100		1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	24
All Other 8260 Volatiles				BDL	BDL	BDL	BDL	BDL	BDL	BDL

All concentrations expressed in parts per billion (ppb)(ug/l) unless otherwise noted.

BDL - Below Detection Limit

NADC - Natural Attenuation Default Concentrations - Chapter 62-777, Table V, Florida Administrative Code

GWCTL - Groundwater Cleanup Target Levels - Chapter 62-777, Table I, Florida Administrative Code

MCL - Maximum Contaminant Levels - Chapter 62-550, Florida Administrative Code

TABLE 4

ANALYTICAL SUMMARY TABLE  
ORGANIC SOIL RESULTSFORMER GNB FACILITY  
200 SOUTH FALKENBURG ROAD  
TAMPA, FLORIDA

Sample Location	SCTL		SS-1	SS-2	SS-3	SS-4	SS-5	SS-6	SS-7	SS-8	SS-9	SS-10
	Direct Contact	Leachability To										
Sample Depth	Industrial	Groundwater	0 - 6 "	0 - 6 "	0 - 6 "	0 - 6 "	0 - 6 "	0 - 6 "	0 - 6 "	0 - 6 "	0 - 6 "	0 - 6 "
<b>METHOD 8260</b>												
Chloroform	500	30	<5.6	<4.9	<5.0	<6.1	<5.8	<5.2	<5.9	<5.5	<5.7	<1,000
cis-1,2-Dichloroethene	130,000	400	<5.6	<4.9	<5.0	<6.1	<5.8	<5.2	<5.9	<5.5	<5.7	<1,000
trans-1,2-Dichloroethene	210,000	700	<5.6	<4.9	<5.0	<6.1	<5.8	<5.2	<5.9	<5.5	<5.7	<1,000
Methylene Chloride	23,000	20	<5.6	<4.9	<5.0	<6.1	<5.8	<5.2	<5.9	<5.5	<5.7	<1,000
Trichloroethene	8,500	30	<5.6	<4.9	<5.0	<6.1	<5.8	<5.2	<5.9	<5.5	<5.7	<1,000
Vinyl Chloride	40	7	<11.0	<9.8	<10.0	<12.0	<12.0	<10.0	<12.0	<11.0	<11.0	<2,000
All Other 8260 Volatiles			BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

All concentrations expressed in ug/kg or parts per billion

BDL - Below Detection Limit

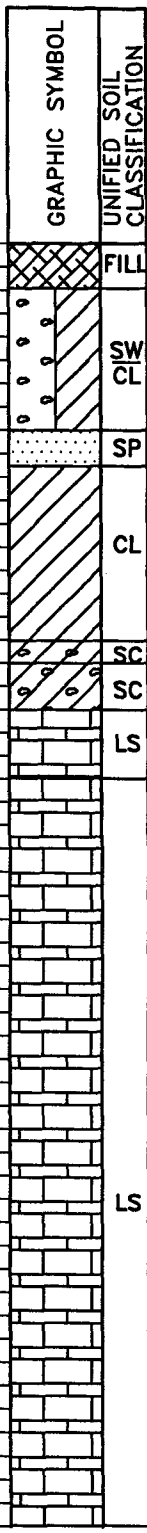
Matrix interference on SS-10 resulted in elevated detection limits

**APPENDIX A**

**BORING LOGS/  
WELL CONSTRUCTION DIAGRAMS**



SAMPLING RESISTANCE  
(BLOWS/FOOT) SPT-N  
CORE RECOVERY  
SAMPLE TYPE  
CORING RATE  
(MIN/FOOT)  
DEPTH (FEET)



SURFACE ELEVATION NOT AVAILABLE  
WATER LEVEL AT SURFACE

### DESCRIPTION

SANDY, TAN - DK BRN FG -FILL  
SAND VERY DK BRN, FG  
SAND REDDISH BRD, FG-MG GRADES TO CLAY - GREY BRN, SL SANDY  
SAND BRN, FG-MG  
CLAY, BLUE GREEN, V. SL SANDY, STIFF  
CLAY, BLUE GREEN, MOTTLED WITH ORANGE AND BLACK  
SAND, WHITE CLAYEY  
SANDY CLAY / CLAYEY SAND, WHITE MOTTLED WITH ORANGE CLAY  
LIMESTONE, WHITE, WEATHERED, ROCK FRAGMENTS WITH CARBONATE CLAY  
LIMESTONE AND CARBONATE CLAY ALTERNATING (SPLIT SPOON REFUSAL AT 26')

BORING TERMINATED AT 55 FEET ON 2-23-00

- ☒ DISTURBED SAMPLE
- UNDISTURBED SAMPLE
- NO SAMPLE RECOVERED
- ☒ STANDARD PENETRATION TEST
- WOH WEIGHT OF HAMMER

May 15, 2000 7:52:02 a.m. AcadVer:15.0  
Drawing: G:\DATA\141\HAZWAST\32040015 GNB\SOIL BORING.DWG



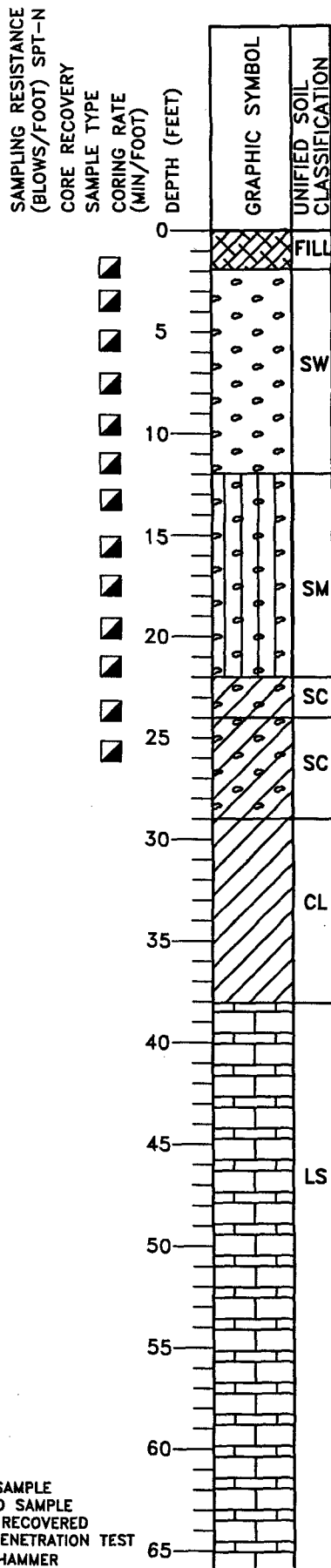
**DAMES & MOORE**  
A DAMES & MOORE GROUP COMPANY

### FIELD BORING LOG

SITE: LDM  
PROJECT NO.: 32040-015  
LOGGED BY: LDM  
DRILLING CO.: DIVERSIFIED  
DRILLER: CHRIS

BORE NO. **SB-23**

DRILLING DATE: FEB. 21, 2000  
STARTED: FEB. 21, 2000  
FINISHED: FEB. 25, 2000



SURFACE ELEVATION NOT AVAILABLE

WATER LEVEL AT SURFACE

## DESCRIPTION

BLACK FILL MATERIAL, CRUSCHED ASPHALT & ROOF SHINGLES,  
BRN & BLK FINE GRAINED SAND, GREY BROWN

SAND, DARK BROWNISH, FG

SAND, DARK BROWNISH, FG

SAND, VERY DARK BROWNISH, SLIGHTLY SILTY, FG

SAND, TAN, SLIGHTLY CLAYEY, F-MG

CLAYEY SAND, TAN GRADES TO SANDY CLAY AT 23.51,  
SANDY CLAY, BLUE GREY, W/ WEATHERED LIMESTONE ROCK  
FRAGMENTS & CARBONATE CLAY

CLAYEY SAND, TAN-GREY W/ SOME WHITE WEATHERED  
LIMESTONE ROCK FRAGMENTS, WHITE CLAY AND SOME BLACK  
PHOSPHATE PEBBLES

CLAY, BLUE GREEN, SLIGHTLY STIFF

CLAY, BLUE GREEN

LIMESTONE, WHITE, WITH SOME CLAY LENSES

LIMESTONE, WHITE, GRANULAR

BORING TERMINATED AT 66 FEET ON 2-24-00

- ☐ DISTURBED SAMPLE
  - UNDISTURBED SAMPLE
  - NO SAMPLE RECOVERED
  - ☑ STANDARD PENETRATION TEST
- WOH WEIGHT OF HAMMER



**DAMES & MOORE**  
A DAMES & MOORE GROUP COMPANY

## FIELD BORING LOG

SITE: ???

PROJECT NO.: 99999

LOGGED BY: ???

DRILLING CO.: ???

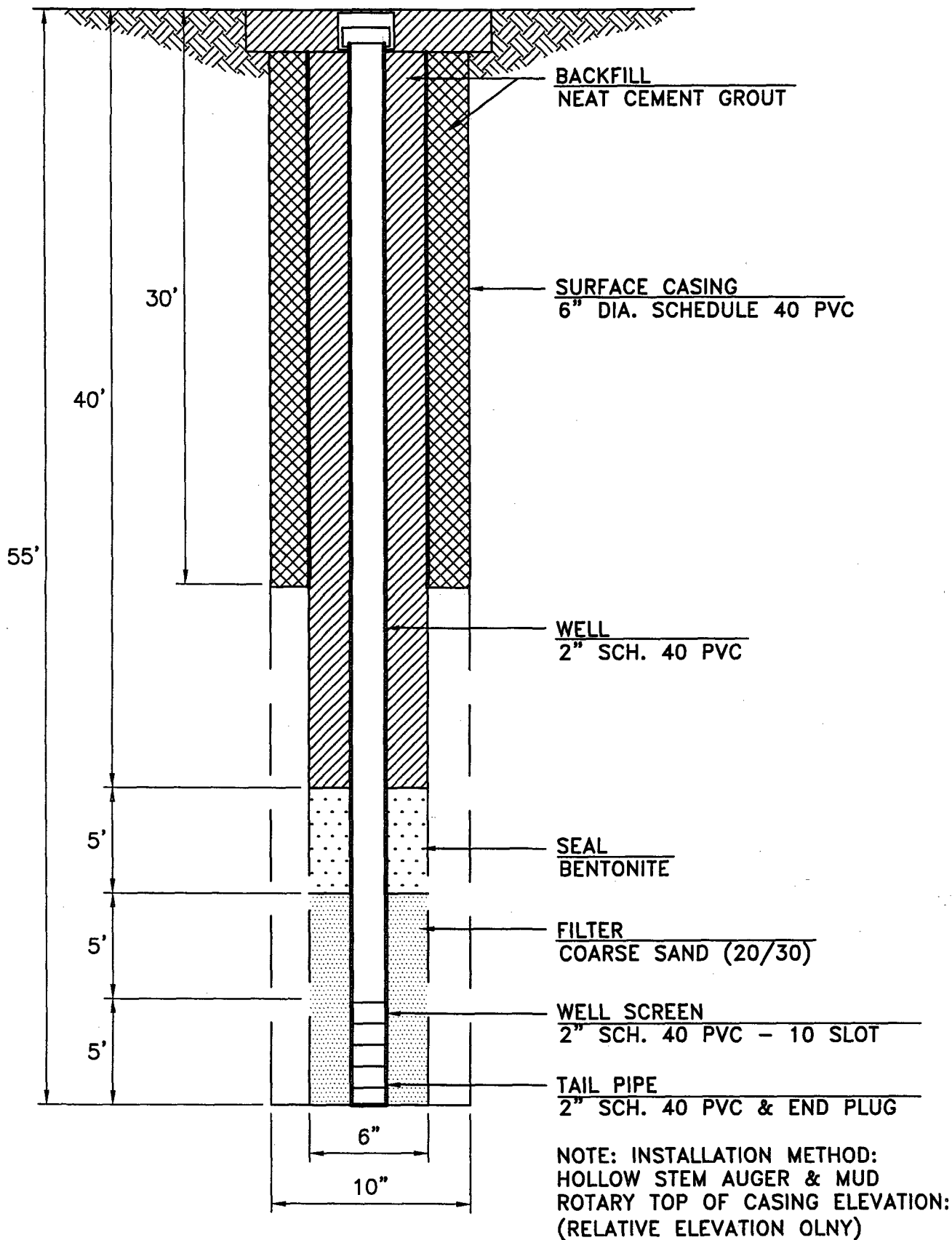
DRILLER: ???

BORE  
NO. **SB-24**

DRILLING DATE: 999999

STARTED: 99999

FINISHED: 999999



April 26, 2000 7:52:03 a.m. AcadVer: 15.0  
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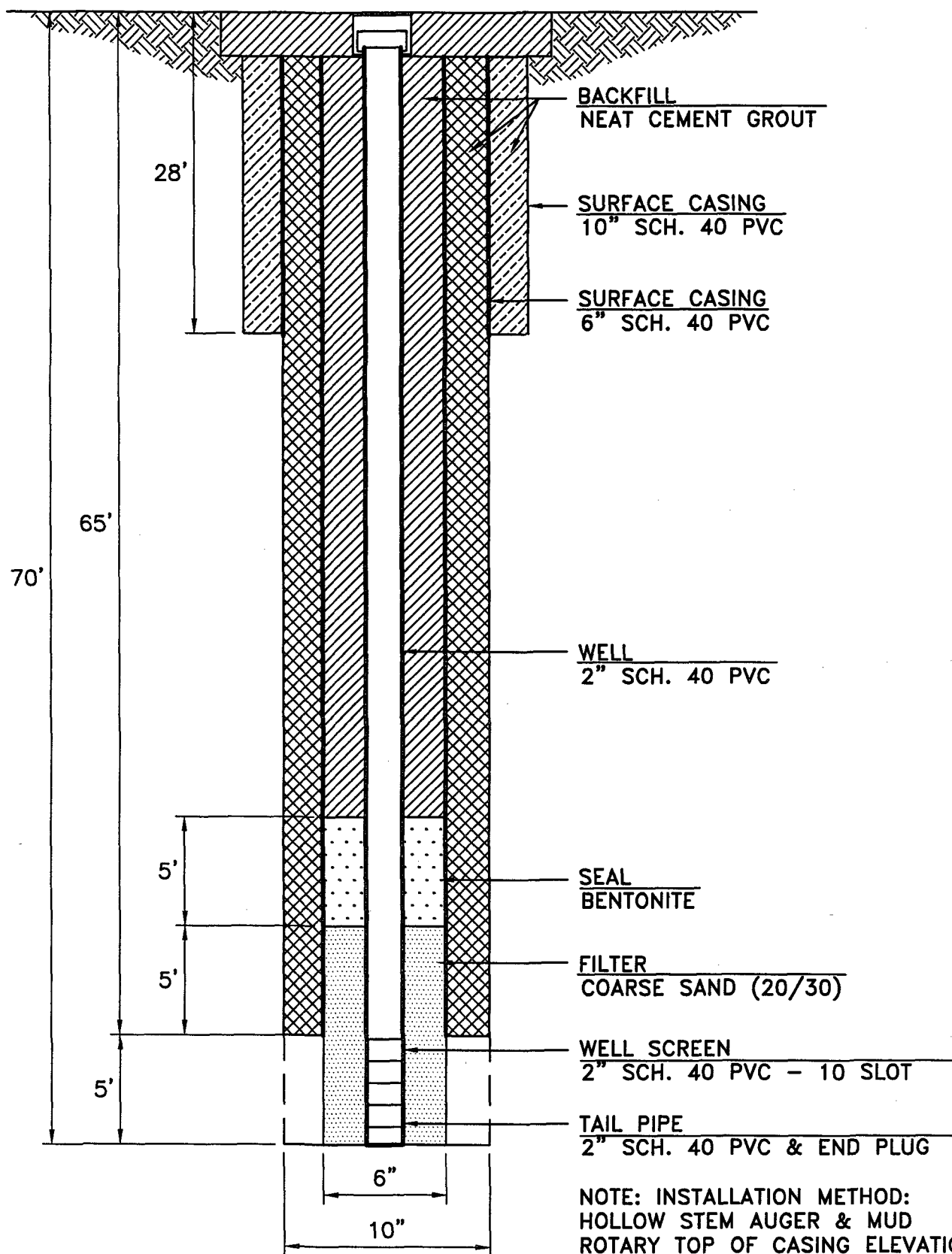
**DAMES & MOORE**  
A DAMES & MOORE GROUP COMPANY

### WELL CONSTRUCTION DIAGRAM

SITE: ???  
PROJECT NO.: 32040-015  
LOGGED BY: LDM  
DRILLING CO.: DIVERSIFIED  
DRILLER: CHRIS

WELL NO. **MW-23**

DRILLING DATE: FEB. 21, 2000  
STARTED: FEB. 21, 2000  
FINISHED: FEB. 25, 2000



May 15, 2000 7:54:28 a.m. AcadVer:15.0  
Drawing: G:\DATA\141\HAZWAST\32040015 GNB\WELL INSTALL1.DWG



**DAMES & MOORE**  
A DAMES & MOORE GROUP COMPANY

### WELL CONSTRUCTION DIAGRAM

SITE: ???  
PROJECT NO.: 32040-015  
LOGGED BY: LDM  
DRILLING CO.: DIVERSIFIED  
DRILLER: CHRIS

WELL NO. MW-24

DRILLING DATE: FEB. 21, 2000  
STARTED: FEB. 21, 2000  
FINISHED: FEB. 25, 2000

**APPENDIX B**

**ANALYTICAL REPORT  
AND CHAIN-OF-CUSTODY FORMS  
(SOIL)**



6712 Benjamin Road, Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049 • www.stlsavlab.com

LOG NO: B0-60615  
Received: 28 FEB 00  
Reported: 13 MAR 00

Mr. Tony Damiano  
Dames & Moore  
1 North Dale Mabry, Suite 700  
Tampa, FL 33609

Project: GNB Tampa Falkenburg  
Sampled By: Client  
Code: 133500313

REPORT OF RESULTS

Page 1

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
60615-1	SS-1 0-6"	02-25-00/10:30
60615-2	SS-2 0-6"	02-25-00/11:00
60615-3	SS-3 0-6"	02-25-00/11:30
60615-4	SS-4 0-6"	02-25-00/13:00
60615-5	SS-5 0-6"	02-25-00/13:30

PARAMETER	60615-1	60615-2	60615-3	60615-4	60615-5
Volatile Organic Compounds					
Acrolein (Propenal), ug/kg dw	<110	<98	<100	<120	<120
Acrylonitrile, ug/kg dw	<110	<98	<100	<120	<120
Benzene, ug/kg dw	<5.6	<4.9	<5.0	<6.1	<5.8
Bromoform, ug/kg dw	<5.6	<4.9	<5.0	<6.1	<5.8
Carbon Tetrachloride, ug/kg dw	<5.6	<4.9	<5.0	<6.1	<5.8
Chlorobenzene, ug/kg dw	<5.6	<4.9	<5.0	<6.1	<5.8
Chlorodibromomethane, ug/kg dw	<5.6	<4.9	<5.0	<6.1	<5.8
Chloroethane, ug/kg dw	<11	<9.8	<10	<12	<12
2-Chloroethylvinyl Ether, ug/kg dw	<56	<49	<50	<61	<58
Chloroform, ug/kg dw	<5.6	<4.9	<5.0	<6.1	<5.8
Dichlorobromomethane, ug/kg dw	<5.6	<4.9	<5.0	<6.1	<5.8
Dichlorodifluoromethane, ug/kg dw	<5.6	<4.9	<5.0	<6.1	<5.8
1,1-Dichloroethane, ug/kg dw	<5.6	<4.9	<5.0	<6.1	<5.8
1,2-Dichloroethane, ug/kg dw	<5.6	<4.9	<5.0	<6.1	<5.8
1,1-Dichloroethylene, ug/kg dw	<5.6	<4.9	<5.0	<6.1	<5.8
1,2-Dichloropropane, ug/kg dw	<5.6	<4.9	<5.0	<6.1	<5.8
1,3-Dichloropropene, ug/kg dw	<5.6	<4.9	<5.0	<6.1	<5.8
Ethylbenzene, ug/kg dw	<5.6	<4.9	<5.0	<6.1	<5.8
Methyl Bromide, ug/kg dw	<11	<9.8	<10	<12	<12
Methyl Chloride, ug/kg dw	<11	<9.8	<10	<12	<12
Methylene Chloride, ug/kg dw	<5.6	<4.9	<5.0	<6.1	<5.8



6712 Benjamin Road, Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049 • www.stlsavlab.com

LOG NO: B0-60615  
Received: 28 FEB 00  
Reported: 13 MAR 00

Mr. Tony Damiano  
Dames & Moore  
1 North Dale Mabry, Suite 700  
Tampa, FL 33609

Project: GNB Tampa Falkenburg  
Sampled By: Client  
Code: 133500313

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED			
60615-1	SS-1 0-6"	02-25-00/10:30			
60615-2	SS-2 0-6"	02-25-00/11:00			
60615-3	SS-3 0-6"	02-25-00/11:30			
60615-4	SS-4 0-6"	02-25-00/13:00			
60615-5	SS-5 0-6"	02-25-00/13:30			
PARAMETER	60615-1	60615-2	60615-3	60615-4	60615-5
1,1,2,2-Tetrachloroethane, ug/kg dw	<5.6	<4.9	<5.0	<6.1	<5.8
Tetrachloroethylene, ug/kg dw	<5.6	<4.9	<5.0	<6.1	<5.8
Toluene, ug/kg dw	<5.6	<4.9	<5.0	<6.1	<5.8
cis/trans-1,2-Dichloroethyl ene, ug/kg dw	<5.6	<4.9	<5.0	<6.1	<5.8
1,1,1-Trichloroethane, ug/kg dw	<5.6	<4.9	<5.0	<6.1	<5.8
1,1,2-Trichloroethane, ug/kg dw	<5.6	<4.9	<5.0	<6.1	<5.8
Trichloroethylene, ug/kg dw	<5.6	<4.9	<5.0	<6.1	<5.8
Trichlorofluoromethane, ug/kg dw	<5.6	<4.9	<5.0	<6.1	<5.8
Vinyl Chloride, ug/kg dw	<11	<9.8	<10	<12	<12
Percent Solids	93	91	96	89	93



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Reported: 13 MAR 00

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1 North Dale Mabry, Suite 700  
Tampa, FL 33609

Project: GNB Tampa Falkenburg  
Sampled By: Client  
Code: 141900313

REPORT OF RESULTS

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED			
60615-6	SS-6 0-6"	02-25-00/14:00			
60615-7	SS-7 0-6"	02-25-00/14:30			
60615-8	SS-8 0-6"	02-25-00/15:00			
60615-9	SS-9 0-6"	02-25-00/15:30			
60615-10	SS-10 0-6"	02-25-00/16:00			
PARAMETER	60615-6	60615-7	60615-8	60615-9	60615-10
Volatile Organic Compounds					
Acrolein (Propenal), ug/kg dw	<100	<120	<110	<110	<21000*F34
Acrylonitrile, ug/kg dw	<100	<120	<110	<110	<21000
Benzene, ug/kg dw	<5.2	<5.9	<5.5	<5.7	<1000
Bromoform, ug/kg dw	<5.2	<5.9	<5.5	<5.7	<1000
Carbon Tetrachloride, ug/kg dw	<5.2	<5.9	<5.5	<5.7	<1000
Chlorobenzene, ug/kg dw	<5.2	<5.9	<5.5	<5.7	<1000
Chlorodibromomethane, ug/kg dw	<5.2	<5.9	<5.5	<5.7	<1000
Chloroethane, ug/kg dw	<10	<12	<11	<11	<2000
2-Chloroethylvinyl Ether, ug/kg dw	<52	<59	<55	<57	<10000
Chloroform, ug/kg dw	<5.2	<5.9	<5.5	<5.7	<1000
Dichlorobromomethane, ug/kg dw	<5.2	<5.9	<5.5	<5.7	<1000
Dichlorodifluoromethane, ug/kg dw	<5.2	<5.9	<5.5	<5.7	<1000
1,1-Dichloroethane, ug/kg dw	<5.2	<5.9	<5.5	<5.7	<1000
1,2-Dichloroethane, ug/kg dw	<5.2	<5.9	<5.5	<5.7	<1000
1,1-Dichloroethylene, ug/kg dw	<5.2	<5.9	<5.5	<5.7	<1000
1,2-Dichloropropane, ug/kg dw	<5.2	<5.9	<5.5	<5.7	<1000
1,3-Dichloropropene, ug/kg dw	<5.2	<5.9	<5.5	<5.7	<1000
Ethylbenzene, ug/kg dw	<5.2	<5.9	<5.5	<5.7	<1000
Methyl Bromide, ug/kg dw	<10	<12	<11	<11	<2000
Methyl Chloride, ug/kg dw	<10	<12	<11	<11	<2000
Methylene Chloride, ug/kg dw	<5.2	<5.9	<5.5	<5.7	<1000





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Tampa, FL 33609

Project: GNB Tampa Falkenburg  
Sampled By: Client  
Code: 133500313

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED			
60615-6	SS-6 0-6"	02-25-00/14:00			
60615-7	SS-7 0-6"	02-25-00/14:30			
60615-8	SS-8 0-6"	02-25-00/15:00			
60615-9	SS-9 0-6"	02-25-00/15:30			
60615-10	SS-10 0-6"	02-25-00/16:00			
PARAMETER	60615-6	60615-7	60615-8	60615-9	60615-10
1,1,2,2-Tetrachloroethane, ug/kg dw	<5.2	<5.9	<5.5	<5.7	<1000
Tetrachloroethylene, ug/kg dw	<5.2	<5.9	<5.5	<5.7	<1000
Toluene, ug/kg dw	<5.2	<5.9	<5.5	<5.7	<1000
cis/trans-1,2-Dichloroethyl ene, ug/kg dw	<5.2	<5.9	<5.5	<5.7	<1000
1,1,1-Trichloroethane, ug/kg dw	<5.2	<5.9	<5.5	<5.7	<1000
1,1,2-Trichloroethane, ug/kg dw	<5.2	<5.9	<5.5	<5.7	<1000
Trichloroethylene, ug/kg dw	<5.2	<5.9	<5.5	<5.7	<1000
Trichlorofluoromethane, ug/kg dw	<5.2	<5.9	<5.5	<5.7	<1000
Vinyl Chloride, ug/kg dw	<10	<12	<11	<11	<2000
Percent Solids	92	91	87	89	88



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Code: 133500313

REPORT OF RESULTS

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LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED			
60615-11	Method Blank				
60615-12	Accuracy (%Rec)				
60615-13	Precision (%RPD)				
60615-14	Date Analyzed				
PARAMETER	60615-11	60615-12	60615-13	60615-14	
Volatile Organic Compounds					
Acrolein (Propenal), ug/kg dw	<100	---	---	03.06.00	
Acrylonitrile, ug/kg dw	<100	---	---	03.06.00	
Benzene, ug/kg dw	<5.0	61 %	9.8 %	03.06.00	
Bromoform, ug/kg dw	<5.0	---	---	03.06.00	
Carbon Tetrachloride, ug/kg dw	<5.0	---	---	03.06.00	
Chlorobenzene, ug/kg dw	<5.0	76 %	0.0 %	03.06.00	
Chlorodibromomethane, ug/kg dw	<5.0	---	---	03.06.00	
Chloroethane, ug/kg dw	<10	---	---	03.06.00	
2-Chloroethylvinyl Ether, ug/kg dw	<50	---	---	03.06.00	
Chloroform, ug/kg dw	<5.0	---	---	03.06.00	
Dichlorobromomethane, ug/kg dw	<5.0	---	---	03.06.00	
Dichlorodifluoromethane, ug/kg dw	<5.0	---	---	03.06.00	
1,1-Dichloroethane, ug/kg dw	<5.0	---	---	03.06.00	
1,2-Dichloroethane, ug/kg dw	<5.0	---	---	03.06.00	
1,1-Dichloroethylene, ug/kg dw	<5.0	82 %	9.8 %	03.06.00	
1,2-Dichloropropane, ug/kg dw	<5.0	---	---	03.06.00	
1,3-Dichloropropene, ug/kg dw	<5.0	---	---	03.06.00	
Ethylbenzene, ug/kg dw	<5.0	---	---	03.06.00	
Methyl Bromide, ug/kg dw	<10	---	---	03.06.00	
Methyl Chloride, ug/kg dw	<10	---	---	03.06.00	
Methylene Chloride, ug/kg dw	<5.0	---	---	03.06.00	
1,1,2,2-Tetrachloroethane, ug/kg dw	<5.0	---	---	03.06.00	



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Tampa, FL 33609

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Sampled By: Client  
Code: 133500313

REPORT OF RESULTS

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LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED		
60615-11	Method Blank			
60615-12	Accuracy (%Rec)			
60615-13	Precision (%RPD)			
60615-14	Date Analyzed			
PARAMETER	60615-11	60615-12	60615-13	60615-14
Tetrachloroethylene, ug/kg dw	<5.0	---	---	03.06.00
Toluene, ug/kg dw	<5.0	83 %	2.4 %	03.06.00
cis/trans-1,2-Dichloroethylene, ug/kg dw	<5.0	---	---	03.06.00
1,1,1-Trichloroethane, ug/kg dw	<5.0	---	---	03.06.00
1,1,2-Trichloroethane, ug/kg dw	<5.0	---	---	03.06.00
Trichloroethylene, ug/kg dw	<5.0	79 %	2.5 %	03.06.00
Trichlorofluoromethane, ug/kg dw	<5.0	---	---	03.06.00
Vinyl Chloride, ug/kg dw	<10	---	---	03.06.00

Method: EPA SW-846  
Certifications #'s: 84385,E84282

\*F34 = Due to the abundance of organics in the sample, dilution was required.

Andre Rachmaninoff, Project Manager



**APPENDIX C**

**ANALYTICAL REPORT  
AND CHAIN-OF-CUSTODY SHEETS  
(GROUNDWATER)**



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Mr. Tony Damiano  
Dames & Moore  
1 North Dale Mabry, Suite 700  
Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015 GNB Falkenburg  
Sampled By: Client  
Code: 14530039

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED		
60565-6	MW-15	02-22-00/17:55		
60565-7	MW-16	02-22-00/18:50		
60565-8	DUP	02-22-00		
PARAMETER		60565-6	60565-7	60565-8
1,2,3-Trichlorobenzene, ug/l		<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene, ug/l		<5.0	<5.0	<5.0
1,1,1-Trichloroethane, ug/l		<5.0	<5.0	<5.0
1,1,2-Trichloroethane, ug/l		<5.0	<5.0	<5.0
Trichloroethylene, ug/l		<3.0	<3.0	26
Trichlorofluoromethane, ug/l		<5.0	<5.0	<5.0
1,2,3-Trichloropropane, ug/l		<5.0	<5.0	<5.0
1,2,4-Trimethylbenzene, ug/l		<5.0	<5.0	<5.0
1,3,5-Trimethylbenzene, ug/l		<5.0	<5.0	<5.0
Vinyl Chloride, ug/l		<1.0	<1.0	<1.0
o-Xylene, ug/l		<5.0	<5.0	<5.0
m&p-Xylene, ug/l		<5.0	<5.0	<5.0
Acetone, ug/l		<50	<50	<50
2-Butanone (MEK), ug/l		<25	<25	<25
4-methyl-2-pentanone (MIBK), ug/l		<25	<25	<25
Carbon Disulfide, ug/l		<5.0	<5.0	<5.0
Aluminum (Dissolved) (6010), mg/l		0.66	<0.20	0.63
Iron (Dissolved) (6010), mg/l		<0.050	0.31	9.5
Lead (Dissolved) (7421), mg/l		<0.0050	<0.0050	<0.0050
Sulfate as SO4 (375.4), mg/l		27	73	240
Total Dissolved Solids (160.1), mg/l		470	330	400



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Client PO. No.: TPAR02000019

Project: 32040.015 GNB Falkenburg  
Sampled By: Client  
Code: 100800310  
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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	
60565-6	MW-15	02-22-00/17:55	
60565-7	MW-16	02-22-00/18:50	
60565-8	DUP	02-22-00	
PARAMETER	60565-6	60565-7	60565-8
Dichlorodifluoromethane, ug/l	<10	<10	<10
1,1-Dichloroethane, ug/l	<5.0	<5.0	<5.0
1,2-Dichloroethane, ug/l	<3.0	<3.0	<3.0
1,1-Dichloroethylene, ug/l	<5.0	<5.0	<5.0
cis-1,2-Dichloroethylene, ug/l	6.3	<5.0	10
trans-1,2-Dichloroethylene, ug/l	<5.0	<5.0	<5.0
1,2-Dichloropropane, ug/l	<5.0	<5.0	<5.0
1,3-Dichloropropane, ug/l	<5.0	<5.0	<5.0
2,2-Dichloropropane, ug/l	<5.0	<5.0	<5.0
1,1-Dichloropropylene, ug/l	<5.0	<5.0	<5.0
cis-1,3-Dichloropropene, ug/l	<5.0	<5.0	<5.0
trans-1,3-Dichloropropene, ug/l	<5.0	<5.0	<5.0
Ethylbenzene, ug/l	<5.0	<5.0	<5.0
Hexachlorobutadiene, ug/l	<5.0	<5.0	<5.0
Isopropylbenzene, ug/l	<5.0	<5.0	<5.0
4-Isopropyltoluene, ug/l	<5.0	<5.0	<5.0
Methylene Chloride, ug/l	<5.0	<5.0	<5.0
Naphthalene, ug/l	<5.0	<5.0	<5.0
n-Propylbenzene , ug/l	<5.0	<5.0	<5.0
Styrene, ug/l	<5.0	<5.0	<5.0
1,1,1,2-Tetrachloroethane, ug/l	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane, ug/l	<5.0	<5.0	<5.0
Tetrachloroethylene, ug/l	<3.0	<3.0	<3.0
Toluene, ug/l	<5.0	<5.0	<5.0



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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED		
60565-6	MW-15	02-22-00/17:55		
60565-7	MW-16	02-22-00/18:50		
60565-8	DUP	02-22-00		
PARAMETER		60565-6	60565-7	60565-8
Volatile Organic Compounds (8260)				
Benzene, ug/l		<1.0	<1.0	<1.0
Bromobenzene, ug/l		<5.0	<5.0	<5.0
Bromochloromethane, ug/l		<5.0	<5.0	<5.0
Bromodichloromethane, ug/l		<5.0	<5.0	<5.0
Bromoform, ug/l		<5.0	<5.0	<5.0
Bromomethane, ug/l		<10	<10	<10
n-Butylbenzene, ug/l		<5.0	<5.0	<5.0
sec-Butylbenzene, ug/l		<5.0	<5.0	<5.0
tert-Butylbenzene, ug/l		<5.0	<5.0	<5.0
Carbon Tetrachloride, ug/l		<3.0	<3.0	<3.0
Chlorobenzene, ug/l		<5.0	<5.0	<5.0
Chloroethane, ug/l		<10	<10	<10
Chloroform, ug/l		<5.0	<5.0	<5.0
Chloromethane, ug/l		<10	<10	<10
Chlorotoluene, ug/l		<5.0	<5.0	<5.0
4-Chlorotoluene, ug/l		<5.0	<5.0	<5.0
Chlorodibromomethane, ug/l		<5.0	<5.0	<5.0
1,2-Dibromo-3-chloropropane, ug/l		<5.0	<5.0	<5.0
1,2-Dibromoethane (EDB), ug/l		<5.0	<5.0	<5.0
Dibromomethane, ug/l		<5.0	<5.0	<5.0
1,2-Dichlorobenzene, ug/l		<5.0	<5.0	<5.0
1,3-Dichlorobenzene, ug/l		<5.0	<5.0	<5.0
1,4-Dichlorobenzene, ug/l		<5.0	<5.0	<5.0





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Page 4

REPORT OF RESULTS

DATE/  
TIME SAMPLED

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES				
60565-1	MW-4				
60565-2	MW-13				
60565-3	MW-3A				
60565-4	MW-12				
60565-5	MW-19				
PARAMETER	60565-1	60565-2	60565-3	60565-4	60565-5
Lead (Dissolved) (7421), mg/l	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Sulfate as SO4 (375.4), mg/l	18	14	230	170	<5.0
Total Dissolved Solids (160.1), mg/l	130	210	460	580	260



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LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED				
60565-1	MW-4	02-22-00/09:40				
60565-2	MW-13	02-22-00/11:12				
60565-3	MW-3A	02-22-00/12:12				
60565-4	MW-12	02-22-00/13:40				
60565-5	MW-19	02-22-00/16:50				
PARAMETER	60565-1	60565-2	60565-3	60565-4	60565-5	
1,1,1,2-Tetrachloroethane, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	
1,1,2,2-Tetrachloroethane, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	
Tetrachloroethylene, ug/l	<3.0	<3.0	<3.0	<3.0	<3.0	
Toluene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	
1,2,3-Trichlorobenzene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	
1,2,4-Trichlorobenzene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	
1,1,1-Trichloroethane, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	
1,1,2-Trichloroethane, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	
Trichloroethylene, ug/l	<3.0	<3.0	32	80	<3.0	
Trichlorofluoromethane, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	
1,2,3-Trichloropropane, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	
1,2,4-Trimethylbenzene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	
1,3,5-Trimethylbenzene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	
Vinyl Chloride, ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	
o-Xylene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	
m&p-Xylene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	
Acetone, ug/l	<50	<50	<50	<50	<50	
2-Butanone (MEK), ug/l	<25	<25	<25	<25	<25	
4-methyl-2-pentanone (MIBK), ug/l	<25	<25	<25	<25	<25	
Carbon Disulfide, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	
Aluminum (Dissolved) (6010), mg/l	0.85	<0.20	1.2	<0.20	<0.20	
Iron (Dissolved) (6010), mg/l	1.0	0.31	9.6	1.5	0.23	



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Client PO. No.: TPAR02000019

Project: 32040.015 GNB Falkenburg  
Sampled By: Client  
Code: 100800310

REPORT OF RESULTS

Page 2

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED			
60565-1	MW-4	02-22-00/09:40			
60565-2	MW-13	02-22-00/11:12			
60565-3	MW-3A	02-22-00/12:12			
60565-4	MW-12	02-22-00/13:40			
60565-5	MW-19	02-22-00/16:50			
PARAMETER	60565-1	60565-2	60565-3	60565-4	60565-5
1,3-Dichlorobenzene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dichlorobenzene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Dichlorodifluoromethane, ug/l	<10	<10	<10	<10	<10
1,1-Dichloroethane, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane, ug/l	<3.0	<3.0	<3.0	<3.0	<3.0
1,1-Dichloroethylene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,2-Dichloroethylene, ug/l	25	6.9	14	28	<5.0
trans-1,2-Dichloroethylene, ug/l	<5.0	<5.0	<5.0	46	<5.0
1,2-Dichloropropane, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichloropropane, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
2,2-Dichloropropane, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloropropylene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,3-Dichloropropene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,3-Dichloropropene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Ethylbenzene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Hexachlorobutadiene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Isopropylbenzene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
4-Isopropyltoluene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Methylene Chloride, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Naphthalene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
n-Propylbenzene , ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Styrene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0



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LOG NO: B0-60565  
Received: 23 FEB 00  
Reported: 08 MAR 00

Mr. Tony Damiano  
Dames & Moore  
1 North Dale Mabry, Suite 700  
Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015 GNB Falkenburg  
Sampled By: Client  
Code: 14530039

REPORT OF RESULTS

Page 1

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
60565-1	MW-4	02-22-00/09:40
60565-2	MW-13	02-22-00/11:12
60565-3	MW-3A	02-22-00/12:12
60565-4	MW-12	02-22-00/13:40
60565-5	MW-19	02-22-00/16:50

PARAMETER	60565-1	60565-2	60565-3	60565-4	60565-5
Volatile Organic Compounds (8260)					
Benzene, ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Bromobenzene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Bromochloromethane, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Bromodichloromethane, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Bromoform, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Bromomethane, ug/l	<10	<10	<10	<10	<10
n-Butylbenzene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
sec-Butylbenzene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
tert-Butylbenzene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon Tetrachloride, ug/l	<3.0	<3.0	<3.0	<3.0	<3.0
Chlorobenzene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane, ug/l	<10	<10	<10	<10	<10
Chloroform, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Chloromethane, ug/l	<10	<10	<10	<10	<10
Chlorotoluene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
4-Chlorotoluene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorodibromomethane, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dibromo-3-chloropropane, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dibromoethane (EDB), ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromomethane, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichlorobenzene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0



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LOG NO: B0-60565  
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Reported: 08 MAR 00

Mr. Tony Damiano  
Dames & Moore  
1 North Dale Mabry, Suite 700  
Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015 GNB Falkenburg  
Sampled By: Client  
Code: 14530039

REPORT OF RESULTS

Page 8

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED			
60565-9	Method Blank				
60565-10	Accuracy (%Rec)				
60565-11	Precision (%RPD)				
60565-13	Date Digested				
60565-12	Date Analyzed				
PARAMETER	60565-9	60565-10	60565-11	60565-13	60565-12
Volatile Organic Compounds (8260)					
Benzene, ug/l	<1.0	98 %	0 %	---	03.03.00
Bromobenzene, ug/l	<5.0	---	---	---	03.03.00
Bromochloromethane, ug/l	<5.0	---	---	---	03.03.00
Bromodichloromethane, ug/l	<5.0	---	---	---	03.03.00
Bromoform, ug/l	<5.0	---	---	---	03.03.00
Bromomethane, ug/l	<10	---	---	---	03.03.00
n-Butylbenzene, ug/l	<5.0	---	---	---	03.03.00
sec-Butylbenzene, ug/l	<5.0	---	---	---	03.03.00
tert-Butylbenzene, ug/l	<5.0	---	---	---	03.03.00
Carbon Tetrachloride, ug/l	<3.0	---	---	---	03.03.00
Chlorobenzene, ug/l	<5.0	91 %	2.2 %	---	03.03.00
Chloroethane, ug/l	<10	---	---	---	03.03.00
Chloroform, ug/l	<5.0	---	---	---	03.03.00
Chloromethane, ug/l	<10	---	---	---	03.03.00
Chlorotoluene, ug/l	<5.0	---	---	---	03.03.00
4-Chlorotoluene, ug/l	<5.0	---	---	---	03.03.00
Chlorodibromomethane, ug/l	<5.0	---	---	---	03.03.00
1,2-Dibromo-3-chloropropane, ug/l	<5.0	---	---	---	03.03.00
1,2-Dibromoethane (EDB), ug/l	<5.0	---	---	---	03.03.00
Dibromomethane, ug/l	<5.0	---	---	---	03.03.00
1,2-Dichlorobenzene, ug/l	<5.0	---	---	---	03.03.00



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Dames & Moore  
1 North Dale Mabry, Suite 700  
Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015 GNB Falkenburg  
Sampled By: Client  
Code: 100800310

REPORT OF RESULTS

Page 9

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED			
60565-9	Method Blank				
60565-10	Accuracy (%Rec)				
60565-11	Precision (%RPD)				
60565-13	Date Digested				
60565-12	Date Analyzed				
PARAMETER	60565-9	60565-10	60565-11	60565-13	60565-12
1,3-Dichlorobenzene, ug/l	<5.0	---	---	---	03.03.00
1,4-Dichlorobenzene, ug/l	<5.0	---	---	---	03.03.00
Dichlorodifluoromethane, ug/l	<10	---	---	---	03.03.00
1,1-Dichloroethane, ug/l	<5.0	---	---	---	03.03.00
1,2-Dichloroethane, ug/l	<3.0	---	---	---	03.03.00
1,1-Dichloroethylene, ug/l	<5.0	82 %	4.9 %	---	03.03.00
cis-1,2-Dichloroethylene, ug/l	<5.0	---	---	---	03.03.00
trans-1,2-Dichloroethylene, ug/l	<5.0	---	---	---	03.03.00
1,2-Dichloropropane, ug/l	<5.0	---	---	---	03.03.00
1,3-Dichloropropane, ug/l	<5.0	---	---	---	03.03.00
2,2-Dichloropropane, ug/l	<5.0	---	---	---	03.03.00
1,1-Dichloropropylene, ug/l	<5.0	---	---	---	03.03.00
cis-1,3-Dichloropropene, ug/l	<5.0	---	---	---	03.03.00
trans-1,3-Dichloropropene, ug/l	<5.0	---	---	---	03.03.00
Ethylbenzene, ug/l	<5.0	---	---	---	03.03.00
Hexachlorobutadiene, ug/l	<5.0	---	---	---	03.03.00
Isopropylbenzene, ug/l	<5.0	---	---	---	03.03.00
4-Isopropyltoluene, ug/l	<5.0	---	---	---	03.03.00
Methylene Chloride, ug/l	<5.0	---	---	---	03.03.00
Naphthalene, ug/l	<5.0	---	---	---	03.03.00
n-Propylbenzene , ug/l	<5.0	---	---	---	03.03.00
Styrene, ug/l	<5.0	---	---	---	03.03.00



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LOG NO: B0-60565  
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Reported: 08 MAR 00

Mr. Tony Damiano  
Dames & Moore  
1 North Dale Mabry, Suite 700  
Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015 GNB Falkenburg  
Sampled By: Client  
Code: 14570039  
Page 10

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED			
60565-9	Method Blank				
60565-10	Accuracy (%Rec)				
60565-11	Precision (%RPD)				
60565-13	Date Digested				
60565-12	Date Analyzed				
PARAMETER	60565-9	60565-10	60565-11	60565-13	60565-12
1,1,1,2-Tetrachloroethane, ug/l	<5.0	---	---	---	03.03.00
1,1,2,2-Tetrachloroethane, ug/l	<5.0	---	---	---	03.03.00
Tetrachloroethylene, ug/l	<3.0	---	---	---	03.03.00
Toluene, ug/l	<5.0	89 %	2.2 %	---	03.03.00
1,2,3-Trichlorobenzene, ug/l	<5.0	---	---	---	03.03.00
1,2,4-Trichlorobenzene, ug/l	<5.0	---	---	---	03.03.00
1,1,1-Trichloroethane, ug/l	<5.0	---	---	---	03.03.00
1,1,2-Trichloroethane, ug/l	<5.0	---	---	---	03.03.00
Trichloroethylene, ug/l	<3.0	92 %	8.7 %	---	03.03.00
Trichlorofluoromethane, ug/l	<5.0	---	---	---	03.03.00
1,2,3-Trichloropropane, ug/l	<5.0	---	---	---	03.03.00
1,2,4-Trimethylbenzene, ug/l	<5.0	---	---	---	03.03.00
1,3,5-Trimethylbenzene, ug/l	<5.0	---	---	---	03.03.00
Vinyl Chloride, ug/l	<1.0	---	---	---	03.03.00
o-Xylene, ug/l	<5.0	---	---	---	03.03.00
m&p-Xylene, ug/l	<5.0	<5.0	<5.0	---	03.03.00
Acetone, ug/l	<50	---	---	---	03.03.00
2-Butanone (MEK), ug/l	<25	---	---	---	03.03.00
4-methyl-2-pentanone (MIBK), ug/l	<25	---	---	---	03.03.00
Carbon Disulfide, ug/l	<5.0	---	---	---	03.03.00
Aluminum (Dissolved) (6010), mg/l	<0.20	98 %	5.1 %	03.03.00	03.06.00
Iron (Dissolved) (6010), mg/l	<0.050	104 %	2.9 %	03.03.00	03.06.00



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LOG NO: B0-60565  
Received: 23 FEB 00  
Reported: 08 MAR 00

Mr. Tony Damiano  
Dames & Moore  
1 North Dale Mabry, Suite 700  
Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015 GNB Falkenburg  
Sampled By: Client  
Code: 14530039

REPORT OF RESULTS

Page 11

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED			
60565-9	Method Blank				
60565-10	Accuracy (%Rec)				
60565-11	Precision (%RPD)				
60565-13	Date Digested				
60565-12	Date Analyzed				
PARAMETER	60565-9	60565-10	60565-11	60565-13	60565-12
Lead (Dissolved) (7421), mg/l	<0.0050	104 %	0.97 %	03.03.00	03.04.00
Sulfate as SO4 (375.4), mg/l	<5.0	102 %	8.9 %	---	02.29.00
Total Dissolved Solids (160.1), mg/l	<5.0	99 %	0.10 %	---	02.25.00

Method: EPA SW-846, EPA 600/4-79-020  
FDOH Certification: E84282, E87052

Andre Rachmaninoff, Project Manager





## ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

☐ 5102 LaRoche Avenue, Savannah, GA 31404

☐ 2846 Industrial Plaza Drive, Tallahassee, FL 32301

☐ 900 Lakeside Drive, Mobile, AL 36693

☐ 6712 Benjamin Rd., Suite 100, Tampa, FL 33634

Phone: (912) 354-7858 Fax: (912) 352-0165  
Phone: (850) 878-3994 Fax: (850) 878-9504  
Phone: (334) 666-6633 Fax: (334) 666-6696  
Phone: (813) 885-7427 Fax: (813) 885-7049

PROJECT REFERENCE <b>GNB TAMPA FAIRBORN</b>	PROJECT NO. <b>32040.015</b>	PROJECT LOCATION (STATE) <b>FL</b>	MATRIX TYPE	REQUIRED ANALYSES										PAGE	OF
STL (LAB) PROJECT MANAGER <b>A. DAMIANO</b>	P.O. NUMBER	CONTRACT NO.	E (C) OR GRAB (G) INDICATE (WATER) SEMISOLID AQUEOUS LIQUID (OIL, SOLVENT, ETC) <b>A1, Pb, Fe, (T/D)</b> <b>504, TDS</b> <b>8260</b>											STANDARD REPORT DELIVERY	<input type="radio"/>
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX												DATE DUE _____	
CLIENT NAME <b>FORMER GNB</b>	CLIENT EMAIL													EXPEDITED REPORT DELIVERY (SURCHARGE)	<input type="radio"/>
CLIENT ADDRESS <b>FAIRBORN RD TAMPA FL</b>														DATE DUE _____	
COMPANY CONTRACTING THIS WORK (if applicable):													NUMBER OF COOLERS SUBMITTED PER SHIPMENT:		

[illegible]

RELINQUISHED BY: (SIGNATURE) <i>Bo Pello</i>	DATE 2-11-00	TIME 0915	RELINQUISHED BY: (SIGNATURE) <i>Francis J. Blery</i>	DATE 2-22-00	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE) <i>Bo Pello</i>	DATE	TIME	RECEIVED BY: (SIGNATURE) <i>Bo Pello</i>	DATE 2-23-00	TIME 0905	RECEIVED BY: (SIGNATURE)	DATE	TIME

## LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>Charles E. Coyle</i>	DATE 2-23-00	TIME 1101	CUSTODY INTACT  YES NO	CUSTODY SEAL NO.  806-0565	STL-SL LOG NO.  806-0565	LABORATORY REMARKS:  28 BAH LGS
--	-----------------	--------------	---------------------------------	-------------------------------------	--------------------------------	---------------------------------------

ORIGINAL



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LOG NO: B0-60556  
Received: 22 FEB 00  
Reported: 08 MAR 00

Mr. Tony Damiano  
Dames & Moore  
1 North Dale Mabry, Suite 700  
Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015 GNB Falkenburg  
Sampled By: Client  
Code: 09290038

Page 1

REPORT OF RESULTS

DATE/  
TIME SAMPLED

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	
60556-1	MW-21	02-21-00/12:45
60556-2	MW-14	02-21-00/15:08
60556-3	MW-6	02-21-00/15:50
60556-4	MW-7	02-21-00/16:43
60556-5	MW-20	02-21-00/17:35

PARAMETER	60556-1	60556-2	60556-3	60556-4	60556-5
Volatile Organic Compounds (8260)					
Benzene, ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Bromobenzene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Bromochloromethane, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Bromodichloromethane, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Bromoform, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Bromomethane, ug/l	<10	<10	<10	<10	<10
n-Butylbenzene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
sec-Butylbenzene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
tert-Butylbenzene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon Tetrachloride, ug/l	<3.0	<3.0	<3.0	<3.0	<3.0
Chlorobenzene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane, ug/l	<10	<10	<10	<10	<10
Chloroform, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Chloromethane, ug/l	<10	<10	<10	<10	<10
Chlorotoluene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
4-Chlorotoluene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorodibromomethane, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dibromo-3-chloropropane, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dibromoethane (EDB), ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromomethane, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichlorobenzene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0



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LOG NO: B0-60556  
Received: 22 FEB 00  
Reported: 08 MAR 00

Mr. Tony Damiano  
Dames & Moore  
1 North Dale Mabry, Suite 700  
Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015 GNB Falkenburg  
Sampled By: Client  
Code: 092900310

REPORT OF RESULTS

Page 2

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED			
60556-1	MW-21	02-21-00/12:45			
60556-2	MW-14	02-21-00/15:08			
60556-3	MW-6	02-21-00/15:50			
60556-4	MW-7	02-21-00/16:43			
60556-5	MW-20	02-21-00/17:35			
PARAMETER	60556-1	60556-2	60556-3	60556-4	60556-5
1,3-Dichlorobenzene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dichlorobenzene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Dichlorodifluoromethane, ug/l	<10	<10	<10	<10	<10
1,1-Dichloroethane, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane, ug/l	<3.0	<3.0	<3.0	<3.0	<3.0
1,1-Dichloroethylene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,2-Dichloroethylene, ug/l	<5.0	34	300*F42	6.1	350*F42
trans-1,2-Dichloroethylene, ug/l	<5.0	<5.0	9.5	<5.0	19
1,2-Dichloropropane, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichloropropane, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
2,2-Dichloropropane, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloropropylene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,3-Dichloropropene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,3-Dichloropropene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Ethylbenzene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Hexachlorobutadiene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Isopropylbenzene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
4-Isopropyltoluene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Methylene Chloride, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Naphthalene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
n-Propylbenzene , ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Styrene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0



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LOG NO: B0-60556  
Received: 22 FEB 00  
Reported: 08 MAR 00

Mr. Tony Damiano  
Dames & Moore  
1 North Dale Mabry, Suite 700  
Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015 GNB Falkenburg  
Sampled By: Client  
Code: 17330038  
Page 3

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
60556-1	MW-21	02-21-00/12:45
60556-2	MW-14	02-21-00/15:08
60556-3	MW-6	02-21-00/15:50
60556-4	MW-7	02-21-00/16:43
60556-5	MW-20	02-21-00/17:35

PARAMETER	60556-1	60556-2	60556-3	60556-4	60556-5
1,1,1,2-Tetrachloroethane, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethylene, ug/l	<3.0	<3.0	<3.0	<3.0	<3.0
Toluene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichlorobenzene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,1-Trichloroethane, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Trichloroethylene, ug/l	<3.0	<3.0	17	<3.0	160*F42
Trichlorofluoromethane, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichloropropane, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trimethylbenzene, ug/l	<5.0	<5.0	<5.0	<5.0	12
1,3,5-Trimethylbenzene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl Chloride, ug/l	<1.0	<1.0	19	<1.0	16
o-Xylene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
m&p-Xylene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Acetone, ug/l	<50	<50	<50	<50	<50
2-Butanone (MEK), ug/l	<25	<25	<25	<25	<25
4-methyl-2-pentanone (MIBK), ug/l	<25	<25	<25	<25	<25
Carbon Disulfide, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Aluminum (Dissolved), mg/l	0.87	0.21	<0.20	0.56	<0.20
Iron (Dissolved), mg/l	0.48	<0.050	0.84	0.12	9.7



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Reported: 08 MAR 00

Mr. Tony Damiano  
Dames & Moore  
1 North Dale Mabry, Suite 700  
Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015 GNB Falkenburg  
Sampled By: Client  
Code: 09290038

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES					DATE/ TIME SAMPLED
60556-1	MW-21					02-21-00/12:45
60556-2	MW-14					02-21-00/15:08
60556-3	MW-6					02-21-00/15:50
60556-4	MW-7					02-21-00/16:43
60556-5	MW-20					02-21-00/17:35
PARAMETER	60556-1	60556-2	60556-3	60556-4	60556-5	
Lead (Dissolved), mg/l	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	
Sulfate as SO4 (375.4), mg/l	36	7.5	11	55	120	
Total Dissolved Solids (160.1), mg/l	120	140	110	240	330	



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Reported: 08 MAR 00

Mr. Tony Damiano  
Dames & Moore  
1 North Dale Mabry, Suite 700  
Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015 GNB Falkenburg  
Sampled By: Client  
Code: 092900310  
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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
60556-6	MW-8	02-21-00/18:17
PARAMETER	60556-6	
Volatile Organic Compounds (8260)		
Benzene, ug/l		<1.0
Bromobenzene, ug/l		<5.0
Bromochloromethane, ug/l		<5.0
Bromodichloromethane, ug/l		<5.0
Bromoform, ug/l		<5.0
Bromomethane, ug/l		<10
n-Butylbenzene, ug/l		<5.0
sec-Butylbenzene, ug/l		<5.0
tert-Butylbenzene, ug/l		<5.0
Carbon Tetrachloride, ug/l		<3.0
Chlorobenzene, ug/l		<5.0
Chloroethane, ug/l		<10
Chloroform, ug/l		<5.0
Chloromethane, ug/l		<10
Chlorotoluene, ug/l		<5.0
4-Chlorotoluene, ug/l		<5.0
Chlorodibromomethane, ug/l		<5.0
1,2-Dibromo-3-chloropropane, ug/l		<5.0
1,2-Dibromoethane (EDB), ug/l		<5.0
Dibromomethane, ug/l		<5.0
1,2-Dichlorobenzene, ug/l		<5.0
1,3-Dichlorobenzene, ug/l		<5.0
1,4-Dichlorobenzene, ug/l		<5.0
Dichlorodifluoromethane, ug/l		<10
1,1-Dichloroethane, ug/l		<5.0



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LOG NO: B0-60556  
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Reported: 08 MAR 00

Mr. Tony Damiano  
Dames & Moore  
1 North Dale Mabry, Suite 700  
Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015 GNB Falkenburg  
Sampled By: Client  
Code: 09290038

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REPORT OF RESULTS

DATE/  
TIME SAMPLED

LOG NO SAMPLE DESCRIPTION , LIQUID SAMPLES

60556-6 MW-8 02-21-00/18:17

PARAMETER 60556-6

1,2-Dichloroethane, ug/l	<3.0
1,1-Dichloroethylene, ug/l	<5.0
cis-1,2-Dichloroethylene, ug/l	160*F42
trans-1,2-Dichloroethylene, ug/l	5.1
1,2-Dichloropropane, ug/l	<5.0
1,3-Dichloropropane, ug/l	<5.0
2,2-Dichloropropane, ug/l	<5.0
1,1-Dichloropropylene, ug/l	<5.0
cis-1,3-Dichloropropene, ug/l	<5.0
trans-1,3-Dichloropropene, ug/l	<5.0
Ethylbenzene, ug/l	<5.0
Hexachlorobutadiene, ug/l	<5.0
Isopropylbenzene, ug/l	<5.0
4-Isopropyltoluene, ug/l	<5.0
Methylene Chloride, ug/l	<5.0
Naphthalene, ug/l	<5.0
n-Propylbenzene , ug/l	<5.0
Styrene, ug/l	<5.0
1,1,1,2-Tetrachloroethane, ug/l	<5.0
1,1,2,2-Tetrachloroethane, ug/l	<5.0
Tetrachloroethylene, ug/l	<3.0
Toluene, ug/l	<5.0
1,2,3-Trichlorobenzene, ug/l	<5.0
1,2,4-Trichlorobenzene, ug/l	<5.0
1,1,1-Trichloroethane, ug/l	<5.0
1,1,2-Trichloroethane, ug/l	<5.0



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LOG NO: B0-60556  
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Reported: 08 MAR 00

Mr. Tony Damiano  
Dames & Moore  
1 North Dale Mabry, Suite 700  
Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015 GNB Falkenburg  
Sampled By: Client  
Code: 17330038  
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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
60556-6	MW-8	02-21-00/18:17
PARAMETER	60556-6	
Trichloroethylene, ug/l	<3.0	
Trichlorofluoromethane, ug/l	<5.0	
1,2,3-Trichloropropane, ug/l	<5.0	
1,2,4-Trimethylbenzene, ug/l	<5.0	
1,3,5-Trimethylbenzene, ug/l	<5.0	
Vinyl Chloride, ug/l	140*F42	
o-Xylene, ug/l	<5.0	
m&p-Xylene, ug/l	<5.0	
Acetone, ug/l	<50	
2-Butanone (MEK), ug/l	<25	
4-methyl-2-pentanone (MIBK), ug/l	<25	
Carbon Disulfide, ug/l	<5.0	
Aluminum (Dissolved), mg/l	0.22	
Iron (Dissolved), mg/l	75	
Lead (Dissolved), mg/l	<0.0050	
Sulfate as SO4 (375.4), mg/l	<5.0	
Total Dissolved Solids (160.1), mg/l	150	





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Client PO. No.: TPAR02000019

Project: 32040.015 GNB Falkenburg  
Sampled By: Client  
Code: 09290038

Page 8

REPORT OF RESULTS

DATE/  
TIME SAMPLED

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES				
60556-7	Method Blank				
60556-8	Accuracy (%Rec)				
60556-9	Precision (%RPD)				
60556-10	Date Analyzed				
PARAMETER	60556-7	60556-8	60556-9	60556-10	
Volatile Organic Compounds (8260)					
Benzene, ug/l	<1.0	116 %	0 %	03.01.00	
Bromobenzene, ug/l	<5.0	---	---	03.01.00	
Bromochloromethane, ug/l	<5.0	---	---	03.01.00	
Bromodichloromethane, ug/l	<5.0	---	---	03.01.00	
Bromoform, ug/l	<5.0	---	---	03.01.00	
Bromomethane, ug/l	<10	---	---	03.01.00	
n-Butylbenzene, ug/l	<5.0	---	---	03.01.00	
sec-Butylbenzene, ug/l	<5.0	---	---	03.01.00	
tert-Butylbenzene, ug/l	<5.0	---	---	03.01.00	
Carbon Tetrachloride, ug/l	<3.0	---	---	03.01.00	
Chlorobenzene, ug/l	<5.0	115 %	1.7 %	03.01.00	
Chloroethane, ug/l	<10	---	---	03.01.00	
Chloroform, ug/l	<5.0	---	---	03.01.00	
Chloromethane, ug/l	<10	---	---	03.01.00	
Chlorotoluene, ug/l	<5.0	---	---	03.01.00	
4-Chlorotoluene, ug/l	<5.0	---	---	03.01.00	
Chlorodibromomethane, ug/l	<5.0	---	---	03.01.00	
1,2-Dibromo-3-chloropropane, ug/l	<5.0	---	---	03.01.00	
1,2-Dibromoethane (EDB), ug/l	<5.0	---	---	03.01.00	
Dibromomethane, ug/l	<5.0	---	---	03.01.00	
1,2-Dichlorobenzene, ug/l	<5.0	---	---	03.01.00	
1,3-Dichlorobenzene, ug/l	<5.0	---	---	03.01.00	



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Received: 22 FEB 00  
Reported: 08 MAR 00

Mr. Tony Damiano  
Dames & Moore  
1 North Dale Mabry, Suite 700  
Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015 GNB Falkenburg  
Sampled By: Client  
Code: 092900310

REPORT OF RESULTS

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LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED		
60556-7	Method Blank			
60556-8	Accuracy (%Rec)			
60556-9	Precision (%RPD)			
60556-10	Date Analyzed			
PARAMETER	60556-7	60556-8	60556-9	60556-10
1,4-Dichlorobenzene, ug/l	<5.0	---	---	03.01.00
Dichlorodifluoromethane, ug/l	<10	---	---	03.01.00
1,1-Dichloroethane, ug/l	<5.0	---	---	03.01.00
1,2-Dichloroethane, ug/l	<3.0	---	---	03.01.00
1,1-Dichloroethylene, ug/l	<5.0	100 %	0 %	03.01.00
cis-1,2-Dichloroethylene, ug/l	<5.0	---	---	03.01.00
trans-1,2-Dichloroethylene, ug/l	<5.0	---	---	03.01.00
1,2-Dichloropropane, ug/l	<5.0	---	---	03.01.00
1,3-Dichloropropane, ug/l	<5.0	---	---	03.01.00
2,2-Dichloropropane, ug/l	<5.0	---	---	03.01.00
1,1-Dichloropropylene, ug/l	<5.0	---	---	03.01.00
cis-1,3-Dichloropropene, ug/l	<5.0	---	---	03.01.00
trans-1,3-Dichloropropene, ug/l	<5.0	---	---	03.01.00
Ethylbenzene, ug/l	<5.0	---	---	03.01.00
Hexachlorobutadiene, ug/l	<5.0	---	---	03.01.00
Isopropylbenzene, ug/l	<5.0	---	---	03.01.00
4-Isopropyltoluene, ug/l	<5.0	---	---	03.01.00
Methylene Chloride, ug/l	<5.0	---	---	03.01.00
Naphthalene, ug/l	<5.0	---	---	03.01.00
n-Propylbenzene , ug/l	<5.0	---	---	03.01.00
Styrene, ug/l	<5.0	---	---	03.01.00
1,1,1,2-Tetrachloroethane, ug/l	<5.0	---	---	03.01.00
1,1,2,2-Tetrachloroethane, ug/l	<5.0	---	---	03.01.00



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Received: 22 FEB 00  
Reported: 08 MAR 00

Mr. Tony Damiano  
Dames & Moore  
1 North Dale Mabry, Suite 700  
Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015 GNB Falkenburg  
Sampled By: Client  
Code: 16450039  
Page 10

REPORT OF RESULTS

DATE/  
TIME SAMPLED

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES				
60556-7	Method Blank				
60556-8	Accuracy (%Rec)				
60556-9	Precision (%RPD)				
60556-10	Date Analyzed				
PARAMETER	60556-7	60556-8	60556-9	60556-10	
Tetrachloroethylene, ug/l	<3.0	---	---	03.01.00	
Toluene, ug/l	<5.0	112 %	3.6 %	03.01.00	
1,2,3-Trichlorobenzene, ug/l	<5.0	---	---	03.01.00	
1,2,4-Trichlorobenzene, ug/l	<5.0	---	---	03.01.00	
1,1,1-Trichloroethane, ug/l	<5.0	---	---	03.01.00	
1,1,2-Trichloroethane, ug/l	<5.0	---	---	03.01.00	
Trichloroethylene, ug/l	<3.0	115 %	1.7 %	03.01.00	
Trichlorofluoromethane, ug/l	<5.0	---	---	03.01.00	
1,2,3-Trichloropropane, ug/l	<5.0	---	---	03.01.00	
1,2,4-Trimethylbenzene, ug/l	<5.0	---	---	03.01.00	
1,3,5-Trimethylbenzene, ug/l	<5.0	---	---	03.01.00	
Vinyl Chloride, ug/l	<1.0	---	---	03.01.00	
o-Xylene, ug/l	<5.0	---	---	03.01.00	
m&p-Xylene, ug/l	<5.0	---	---	03.01.00	
Acetone, ug/l	<50	---	---	03.01.00	
2-Butanone (MEK), ug/l	<25	---	---	03.01.00	
4-methyl-2-pentanone (MIBK), ug/l	<25	---	---	03.01.00	
Carbon Disulfide, ug/l	<5.0	---	---	03.01.00	
Aluminum (Dissolved), mg/l	<0.20	116 %	7.4 %	03.02.00	
Iron (Dissolved), mg/l	<0.050	113 %	8.8 %	03.02.00	
Lead (Dissolved), mg/l	<0.0050	106 %	8.5 %	03.02.00	
Sulfate as SO4 (375.4), mg/l	<5.0	89 %	0 %	02.25.00	



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LOG NO: B0-60556  
Received: 22 FEB 00  
Reported: 08 MAR 00

Mr. Tony Damiano  
Dames & Moore  
1 North Dale Mabry, Suite 700  
Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015 GNB Falkenburg  
Sampled By: Client  
Code: 16450039

REPORT OF RESULTS

Page 11

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED		
60556-7	Method Blank			
60556-8	Accuracy (%Rec)			
60556-9	Precision (%RPD)			
60556-10	Date Analyzed			
PARAMETER	60556-7	60556-8	60556-9	60556-10
Total Dissolved Solids (160.1), mg/l	<5.0	100 %	0.50 %	02.24.00

Method: EPA SW-846, EPA 600/4-79-020  
FDOH Certification: E84282

\*F42 = Target compounds were quantitated from a secondary dilution due to analyte abundance in the sample.

Andre Rachmaninoff, Project Manager



## ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

006-0556 Serial Number 000513

☐ 5102 LaRoche Avenue, Savannah, GA 31404  
☐ 2846 Industrial Plaza Drive, Tallahassee, FL 32301  
☐ 900 Lakeside Drive, Mobile, AL 36693  
☐ 6712 Benjamin Rd., Suite 100, Tampa, FL 33634

Phone: (912) 354-7858 Fax: (912) 352-0165  
Phone: (850) 878-3994 Fax: (850) 878-9504  
Phone: (334) 666-6633 Fax: (334) 666-6696  
Phone: (813) 885-7427 Fax: (813) 885-7049

PROJECT REFERENCE		PROJECT NO.	PROJECT LOCATION (STATE)	MATRIX TYPE	REQUIRED ANALYSES										PAGE	OF
GNB Falkenberg		32040.015	FL													
STL (LAB) PROJECT MANAGER		P.O. NUMBER	CONTRACT NO.	<div>COMPOSITE (C) OR GRAB (G) INDICATE</div> <div>AQUEOUS (WATER)</div> <div>SOLID OR SEMISOLID</div> <div>AIR</div> <div>NONAQUEOUS LIQUID (OIL, SOLVENT, ETC)</div>											STANDARD REPORT DELIVERY	<input type="radio"/>
A. DAMIANO		TAM-R-0200-0019													DATE DUE	
CLIENT (SITE) PM		CLIENT PHONE (813)	CLIENT FAX												EXPEDITED REPORT DELIVERY (SURCHARGE)	<input type="radio"/>
		875-1115													DATE DUE	
CLIENT NAME		CLIENT EMAIL													NUMBER OF COOLERS SUBMITTED PER SHIPMENT:	
GNB																
CLIENT ADDRESS																
COMPANY CONTRACTING THIS WORK (if applicable):																
D+M																
SAMPLE		SAMPLE IDENTIFICATION			NUMBER OF CONTAINERS SUBMITTED										REMARKS	
DATE	TIME															
2-21-00	12:45P	MW-21		G X				2	1	3						
	3:08P	MW-14		G X				2	1	3						
	3:50P	MW-6		G X				2	1	3						
	4:43P	MW-7		G X				2	1	3						
	5:35P	MW-20		G X				2	1	3						
	6:17P	MW-8		G X				2	1	3						
RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RELINQUISHED BY: (SIGNATURE)		DATE	TIME					
E. P. Pardo		2-11-00	0915	B. J. Pardo		2-21-00										
RECEIVED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY: (SIGNATURE)		DATE	TIME					
B. J. Pardo				B. J. Pardo		2-22-00	0905									
LABORATORY USE ONLY																
RECEIVED FOR LABORATORY BY: (SIGNATURE)		DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	STL-SL LOG NO.	LABORATORY REMARKS:									
E. P. Pardo		2-22-00	1039	YES		006-0556	20 BAWES									

ORIGINAL



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LOG NO: B0-60578  
Received: 24 FEB 00  
Reported: 08 MAR 00

Mr. Tony Damiano  
Dames & Moore  
1 North Dale Mabry, Suite 700  
Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015/GNB Falkenburg  
Sampled By: Client  
Code: 09300038

REPORT OF RESULTS

Page 1

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
60578-1	MW-4 (C.U.)	02-23-00/11:35
60578-2	MW-3 (C.U.)	02-23-00/12:11
60578-3	MW-1	02-23-00/13:27
60578-4	MW-10	02-23-00/14:05
60578-5	MW-2	02-23-00/14:42

PARAMETER	60578-1	60578-2	60578-3	60578-4	60578-5
Volatile Organic Compounds (8260)					
Benzene, ug/l	<5.0	<50	<1.0	<1.0	<1.0
Bromobenzene, ug/l	<25	<250	<5.0	<5.0	<5.0
Bromochloromethane, ug/l	<25	<250	<5.0	<5.0	<5.0
Bromodichloromethane, ug/l	<25	<250	<5.0	<5.0	<5.0
Bromoform, ug/l	<25	<250	<5.0	<5.0	<5.0
Bromomethane, ug/l	<50	<500	<10	<10	<10
n-Butylbenzene, ug/l	<25	<250	<5.0	<5.0	<5.0
sec-Butylbenzene, ug/l	<25	<250	<5.0	<5.0	<5.0
tert-Butylbenzene, ug/l	<25	<250	<5.0	<5.0	<5.0
Carbon Tetrachloride, ug/l	<15	<150	<3.0	<3.0	<3.0
Chlorobenzene, ug/l	<25	<250	<5.0	<5.0	<5.0
Chloroethane, ug/l	<50	<500	<10	<10	<10
Chloroform, ug/l	<25	<250	<5.0	<5.0	<5.0
Chloromethane, ug/l	<50	<500	<10	<10	<10
Chlorotoluene, ug/l	<25	<250	<5.0	<5.0	<5.0
4-Chlorotoluene, ug/l	<25	<250	<5.0	<5.0	<5.0
Chlorodibromomethane, ug/l	<25	<250	<5.0	<5.0	<5.0
1,2-Dibromo-3-chloropropane, ug/l	<25	<250	<5.0	<5.0	<5.0
1,2-Dibromoethane (EDB), ug/l	<25	<250	<5.0	<5.0	<5.0
Dibromomethane, ug/l	<25	<250	<5.0	<5.0	<5.0
1,2-Dichlorobenzene, ug/l	<25	<250	<5.0	<5.0	<5.0



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LOG NO: B0-60578  
Received: 24 FEB 00  
Reported: 08 MAR 00

Mr. Tony Damiano  
Dames & Moore  
1 North Dale Mabry, Suite 700  
Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015/GNB Falkenburg  
Sampled By: Client  
Code: 120100310

REPORT OF RESULTS

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LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED				
60578-1	MW-4 (C.U.)	02-23-00/11:35				
60578-2	MW-3 (C.U.)	02-23-00/12:11				
60578-3	MW-1	02-23-00/13:27				
60578-4	MW-10	02-23-00/14:05				
60578-5	MW-2	02-23-00/14:42				
PARAMETER	60578-1	60578-2	60578-3	60578-4	60578-5	
1,3-Dichlorobenzene, ug/l	<25	<250	<5.0	<5.0	<5.0	
1,4-Dichlorobenzene, ug/l	<25	<250	<5.0	<5.0	<5.0	
Dichlorodifluoromethane, ug/l	<50	<500	<10	<10	<10	
1,1-Dichloroethane, ug/l	<25	<250	<5.0	<5.0	<5.0	
1,2-Dichloroethane, ug/l	<15	<150	<3.0	<3.0	<3.0	
1,1-Dichloroethylene, ug/l	<25	<250	<5.0	<5.0	<5.0	
cis-1,2-Dichloroethylene, ug/l	740	<250	<5.0	<5.0	21	
trans-1,2-Dichloroethylene, ug/l	<25	<250	<5.0	<5.0	<5.0	
1,2-Dichloropropane, ug/l	<25	<250	<5.0	<5.0	<5.0	
1,3-Dichloropropane, ug/l	<25	<250	<5.0	<5.0	<5.0	
2,2-Dichloropropane, ug/l	<25	<250	<5.0	<5.0	<5.0	
1,1-Dichloropropylene, ug/l	<25	<250	<5.0	<5.0	<5.0	
cis-1,3-Dichloropropene, ug/l	<25	<250	<5.0	<5.0	<5.0	
trans-1,3-Dichloropropene, ug/l	<25	<250	<5.0	<5.0	<5.0	
Ethylbenzene, ug/l	<25	2400	<5.0	<5.0	<5.0	
Hexachlorobutadiene, ug/l	<25	<250	<5.0	<5.0	<5.0	
Isopropylbenzene, ug/l	<25	<250	<5.0	<5.0	<5.0	
4-Isopropyltoluene, ug/l	<25	<250	<5.0	<5.0	<5.0	
Methylene Chloride, ug/l	<25	<250	<5.0	<5.0	<5.0	
Naphthalene, ug/l	<25	<250	<5.0	<5.0	<5.0	
n-Propylbenzene , ug/l	<25	<250	<5.0	<5.0	<5.0	
Styrene, ug/l	<25	260	<5.0	<5.0	<5.0	



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Mr. Tony Damiano  
Dames & Moore  
1 North Dale Mabry, Suite 700  
Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015/GNB Falkenburg  
Sampled By: Client  
Code: 17050038  
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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED				
60578-1	MW-4 (C.U.)	02-23-00/11:35				
60578-2	MW-3 (C.U.)	02-23-00/12:11				
60578-3	MW-1	02-23-00/13:27				
60578-4	MW-10	02-23-00/14:05				
60578-5	MW-2	02-23-00/14:42				
PARAMETER	60578-1	60578-2	60578-3	60578-4	60578-5	
1,1,1,2-Tetrachloroethane, ug/l	<25	<250	<5.0	<5.0	<5.0	
1,1,2,2-Tetrachloroethane, ug/l	<25	<250	<5.0	<5.0	<5.0	
Tetrachloroethylene, ug/l	<15	<150	<3.0	<3.0	<3.0	
Toluene, ug/l	<25	230	<5.0	<5.0	<5.0	
1,2,3-Trichlorobenzene, ug/l	<25	<250	<5.0	<5.0	<5.0	
1,2,4-Trichlorobenzene, ug/l	<25	<250	<5.0	<5.0	<5.0	
1,1,1-Trichloroethane, ug/l	<25	<250	<5.0	<5.0	<5.0	
1,1,2-Trichloroethane, ug/l	<25	<250	<5.0	<5.0	<5.0	
Trichloroethylene, ug/l	<15	<150	<3.0	<3.0	15	
Trichlorofluoromethane, ug/l	<25	<250	<5.0	<5.0	<5.0	
1,2,3-Trichloropropane, ug/l	<25	<250	<5.0	<5.0	<5.0	
1,2,4-Trimethylbenzene, ug/l	<25	<250	<5.0	<5.0	<5.0	
1,3,5-Trimethylbenzene, ug/l	<25	<250	<5.0	<5.0	<5.0	
Vinyl Chloride, ug/l	190	<50	<1.0	<1.0	21	
o-Xylene, ug/l	<25	<250	<5.0	<5.0	<5.0	
m&p-Xylene, ug/l	<25	370	<5.0	<5.0	<5.0	
Acetone, ug/l	<250	<2500	<50	<50	<50	
2-Butanone (MEK), ug/l	<120	<1200	<25	<25	<25	
4-methyl-2-pentanone (MIBK), ug/l	<120	<1200	<25	<25	<25	
Carbon Disulfide, ug/l	<25	<250	<5.0	<5.0	<5.0	
Aluminum, mg/l	0.47	<0.20	1.8	0.24	22	
Aluminum (Dissolved), mg/l	<0.20	<0.20	2.1	0.22	24	





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LOG NO: B0-60578  
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Dames & Moore  
1 North Dale Mabry, Suite 700  
Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015/GNB Falkenburg  
Sampled By: Client  
Code: 09300038

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED			
60578-1	MW-4 (C.U.)	02-23-00/11:35			
60578-2	MW-3 (C.U.)	02-23-00/12:11			
60578-3	MW-1	02-23-00/13:27			
60578-4	MW-10	02-23-00/14:05			
60578-5	MW-2	02-23-00/14:42			
PARAMETER	60578-1	60578-2	60578-3	60578-4	60578-5
Iron, mg/l	13	0.36	<0.050	0.074	11
Iron (Dissolved), mg/l	12	0.37	<0.050	<0.050	12
Lead, mg/l	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Lead (Dissolved), mg/l	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Sulfate as SO4 (375.4), mg/l	90	42	84	<5.0	410
Total Dissolved Solids (160.1), mg/l	400	170	260	110	870



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Client PO. No.: TPAR02000019

Project: 32040.015/GNB Falkenburg  
Sampled By: Client  
Code: 09300038

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED		
60578-6	MW-11	02-23-00/16:20		
60578-7	MW-9	02-23-00/17:40		
60578-8	DUP	02-23-00		
PARAMETER		60578-6	60578-7	60578-8
Volatile Organic Compounds (8260)				
Benzene, ug/l		<1.0	<1.0	<1.0
Bromobenzene, ug/l		<5.0	<5.0	<5.0
Bromochloromethane, ug/l		<5.0	<5.0	<5.0
Bromodichloromethane, ug/l		<5.0	<5.0	<5.0
Bromoform, ug/l		<5.0	<5.0	<5.0
Bromomethane, ug/l		<10	<5.0	<10
n-Butylbenzene, ug/l		<5.0	<5.0	<5.0
sec-Butylbenzene, ug/l		<5.0	<5.0	<5.0
tert-Butylbenzene, ug/l		<5.0	<5.0	<5.0
Carbon Tetrachloride, ug/l		<3.0	<3.0	<3.0
Chlorobenzene, ug/l		<5.0	<5.0	<5.0
Chloroethane, ug/l		<10	<10	<10
Chloroform, ug/l		<5.0	<5.0	<5.0
Chloromethane, ug/l		<10	<10	<10
Chlorotoluene, ug/l		<5.0	<5.0	<5.0
4-Chlorotoluene, ug/l		<5.0	<5.0	<5.0
Chlorodibromomethane, ug/l		<5.0	<5.0	<5.0
1,2-Dibromo-3-chloropropane, ug/l		<5.0	<5.0	<5.0
1,2-Dibromoethane (EDB), ug/l		<5.0	<5.0	<5.0
Dibromomethane, ug/l		<5.0	<5.0	<5.0
1,2-Dichlorobenzene, ug/l		<5.0	<5.0	<5.0
1,3-Dichlorobenzene, ug/l		<5.0	<5.0	<5.0
1,4-Dichlorobenzene, ug/l		<5.0	<5.0	<5.0



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Dames & Moore  
1 North Dale Mabry, Suite 700  
Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015/GNB Falkenburg  
Sampled By: Client  
Code: 120100310  
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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED		
60578-6	MW-11	02-23-00/16:20		
60578-7	MW-9	02-23-00/17:40		
60578-8	DUP	02-23-00		
PARAMETER		60578-6	60578-7	60578-8
Dichlorodifluoromethane, ug/l		<10	<10	<10
1,1-Dichloroethane, ug/l		<5.0	<5.0	<5.0
1,2-Dichloroethane, ug/l		<3.0	<3.0	<3.0
1,1-Dichloroethylene, ug/l		<5.0	<5.0	<5.0
cis-1,2-Dichloroethylene, ug/l		35	140	23
trans-1,2-Dichloroethylene, ug/l		<5.0	8.4	<5.0
1,2-Dichloropropane, ug/l		<5.0	<5.0	<5.0
1,3-Dichloropropane, ug/l		<5.0	<5.0	<5.0
2,2-Dichloropropane, ug/l		<5.0	<5.0	<5.0
1,1-Dichloropropylene, ug/l		<5.0	<5.0	<5.0
cis-1,3-Dichloropropene, ug/l		<5.0	<5.0	<5.0
trans-1,3-Dichloropropene, ug/l		<5.0	<5.0	<5.0
Ethylbenzene, ug/l		<5.0	<5.0	<5.0
Hexachlorobutadiene, ug/l		<5.0	<5.0	<5.0
Isopropylbenzene, ug/l		<5.0	<5.0	<5.0
4-Isopropyltoluene, ug/l		<5.0	<5.0	<5.0
Methylene Chloride, ug/l		<5.0	<5.0	<5.0
Naphthalene, ug/l		<5.0	<5.0	<5.0
n-Propylbenzene , ug/l		<5.0	<5.0	<5.0
Styrene, ug/l		<5.0	<5.0	<5.0
1,1,1,2-Tetrachloroethane, ug/l		<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane, ug/l		<5.0	<5.0	<5.0
Tetrachloroethylene, ug/l		<3.0	<3.0	<3.0
Toluene, ug/l		<5.0	<5.0	<5.0



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Dames & Moore  
1 North Dale Mabry, Suite 700  
Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015/GNB Falkenburg  
Sampled By: Client  
Code: 17050038  
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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED		
60578-6	MW-11	02-23-00/16:20		
60578-7	MW-9	02-23-00/17:40		
60578-8	DUP	02-23-00		
PARAMETER		60578-6	60578-7	60578-8
1,2,3-Trichlorobenzene, ug/l		<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene, ug/l		<5.0	<5.0	<5.0
1,1,1-Trichloroethane, ug/l		<5.0	<5.0	<5.0
1,1,2-Trichloroethane, ug/l		<5.0	<5.0	<5.0
Trichloroethylene, ug/l		22	21	16
Trichlorofluoromethane, ug/l		<5.0	<5.0	<5.0
1,2,3-Trichloropropane, ug/l		<5.0	<5.0	<5.0
1,2,4-Trimethylbenzene, ug/l		5.6	<5.0	<5.0
1,3,5-Trimethylbenzene, ug/l		<5.0	<5.0	<5.0
Vinyl Chloride, ug/l		31	37	24
o-Xylene, ug/l		<5.0	<5.0	<5.0
m&p-Xylene, ug/l		<5.0	<5.0	<5.0
Acetone, ug/l		<50	<50	<50
2-Butanone (MEK), ug/l		<25	<25	<25
4-methyl-2-pentanone (MIBK), ug/l		<25	<25	<25
Carbon Disulfide, ug/l		<5.0	<5.0	<5.0
Aluminum, mg/l		85	60	24
Aluminum (Dissolved), mg/l		76	35	24
Iron, mg/l		16	20	12
Iron (Dissolved), mg/l		17	20	11
Lead, mg/l		<0.0050	<0.0050	<0.0050



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Dames & Moore  
1 North Dale Mabry, Suite 700  
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Client PO. No.: TPAR02000019

Project: 32040.015/GNB Falkenburg  
Sampled By: Client  
Code: 09300038

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REPORT OF RESULTS

DATE/  
TIME SAMPLED

LOG NO SAMPLE DESCRIPTION, LIQUID SAMPLES

60578-6	MW-11	02-23-00/16:20
60578-7	MW-9	02-23-00/17:40
60578-8	DUP	02-23-00

PARAMETER	60578-6	60578-7	60578-8
Lead (Dissolved), mg/l	<0.0050	<0.0050	<0.0050
Sulfate as SO <sub>4</sub> (375.4), mg/l	730	730	420
Total Dissolved Solids (160.1), mg/l	1300	1200	880



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Dames & Moore  
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Client PO. No.: TPAR02000019

Project: 32040.015/GNB Falkenburg  
Sampled By: Client  
Code: 104900310

REPORT OF RESULTS

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LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED			
60578-9	Method Blank				
60578-10	Accuracy (%Rec)				
60578-11	Precision (%RPD)				
60578-13	Date Digested				
60578-12	Date Analyzed				
PARAMETER	60578-9	60578-10	60578-11	60578-13	60578-12
Volatile Organic Compounds (8260)					
Benzene, ug/l	<1.0	98 %	0.0 %	---	03.05.00
Bromobenzene, ug/l	<5.0	---	---	---	03.05.00
Bromochloromethane, ug/l	<5.0	---	---	---	03.05.00
Bromodichloromethane, ug/l	<5.0	---	---	---	03.05.00
Bromoform, ug/l	<5.0	---	---	---	03.05.00
Bromomethane, ug/l	<10	---	---	---	03.05.00
n-Butylbenzene, ug/l	<5.0	---	---	---	03.05.00
sec-Butylbenzene, ug/l	<5.0	---	---	---	03.05.00
tert-Butylbenzene, ug/l	<5.0	---	---	---	03.05.00
Carbon Tetrachloride, ug/l	<3.0	---	---	---	03.05.00
Chlorobenzene, ug/l	<5.0	91 %	2.2 %	---	03.05.00
Chloroethane, ug/l	<10	---	---	---	03.05.00
Chloroform, ug/l	<5.0	---	---	---	03.05.00
Chloromethane, ug/l	<10	---	---	---	03.05.00
Chlorotoluene, ug/l	<5.0	---	---	---	03.05.00
4-Chlorotoluene, ug/l	<5.0	---	---	---	03.05.00
Chlorodibromomethane, ug/l	<5.0	---	---	---	03.05.00
1,2-Dibromo-3-chloropropane, ug/l	<5.0	---	---	---	03.05.00
1,2-Dibromoethane (EDB), ug/l	<5.0	---	---	---	03.05.00
Dibromomethane, ug/l	<5.0	---	---	---	03.05.00
1,2-Dichlorobenzene, ug/l	<5.0	---	---	---	03.05.00



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1 North Dale Mabry, Suite 700  
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Client PO. No.: TPAR02000019

Project: 32040.015/GNB Falkenburg  
Sampled By: Client  
Code: 120100310  
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REPORT OF RESULTS

DATE/  
TIME SAMPLED

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES					
60578-9	Method Blank					
60578-10	Accuracy (%Rec)					
60578-11	Precision (%RPD)					
60578-13	Date Digested					
60578-12	Date Analyzed					
PARAMETER	60578-9	60578-10	60578-11	60578-13	60578-12	
1,3-Dichlorobenzene, ug/l	<5.0	---	---	---	03.05.00	
1,4-Dichlorobenzene, ug/l	<5.0	---	---	---	03.05.00	
Dichlorodifluoromethane, ug/l	<10	---	---	---	03.05.00	
1,1-Dichloroethane, ug/l	<5.0	---	---	---	03.05.00	
1,2-Dichloroethane, ug/l	<3.0	---	---	---	03.05.00	
1,1-Dichloroethylene, ug/l	<5.0	82 %	4.9 %	---	03.05.00	
cis-1,2-Dichloroethylene, ug/l	<5.0	---	---	---	03.05.00	
trans-1,2-Dichloroethylene, ug/l	<5.0	---	---	---	03.05.00	
1,2-Dichloropropane, ug/l	<5.0	---	---	---	03.05.00	
1,3-Dichloropropane, ug/l	<5.0	---	---	---	03.05.00	
2,2-Dichloropropane, ug/l	<5.0	---	---	---	03.05.00	
1,1-Dichloropropylene, ug/l	<5.0	---	---	---	03.05.00	
cis-1,3-Dichloropropene, ug/l	<5.0	---	---	---	03.05.00	
trans-1,3-Dichloropropene, ug/l	<5.0	---	---	---	03.05.00	
Ethylbenzene, ug/l	<5.0	---	---	---	03.05.00	
Hexachlorobutadiene, ug/l	<5.0	---	---	---	03.05.00	
Isopropylbenzene, ug/l	<5.0	---	---	---	03.05.00	
4-Isopropyltoluene, ug/l	<5.0	---	---	---	03.05.00	
Methylene Chloride, ug/l	<5.0	---	---	---	03.05.00	
Naphthalene, ug/l	<5.0	---	---	---	03.05.00	
n-Propylbenzene , ug/l	<5.0	---	---	---	03.05.00	
Styrene, ug/l	<5.0	---	---	---	03.05.00	



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LOG NO: B0-60578  
Received: 24 FEB 00  
Reported: 08 MAR 00

Mr. Tony Damiano  
Dames & Moore  
1 North Dale Mabry, Suite 700  
Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015/GNB Falkenburg  
Sampled By: Client  
Code: 120100310  
Page 11

REPORT OF RESULTS

DATE/  
TIME SAMPLED

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES					
60578-9	Method Blank					
60578-10	Accuracy (%Rec)					
60578-11	Precision (%RPD)					
60578-13	Date Digested					
60578-12	Date Analyzed					
PARAMETER	60578-9	60578-10	60578-11	60578-13	60578-12	
1,1,1,2-Tetrachloroethane, ug/l	<5.0	---	---	---	03.05.00	
1,1,2,2-Tetrachloroethane, ug/l	<5.0	---	---	---	03.05.00	
Tetrachloroethylene, ug/l	<3.0	---	---	---	03.05.00	
Toluene, ug/l	<5.0	89 %	2.2 %	---	03.05.00	
1,2,3-Trichlorobenzene, ug/l	<5.0	---	---	---	03.05.00	
1,2,4-Trichlorobenzene, ug/l	<5.0	---	---	---	03.05.00	
1,1,1-Trichloroethane, ug/l	<5.0	---	---	---	03.05.00	
1,1,2-Trichloroethane, ug/l	<5.0	---	---	---	03.05.00	
Trichloroethylene, ug/l	<3.0	92 %	8.7 %	---	03.05.00	
Trichlorofluoromethane, ug/l	<5.0	---	---	---	03.05.00	
1,2,3-Trichloropropane, ug/l	<5.0	---	---	---	03.05.00	
1,2,4-Trimethylbenzene, ug/l	<5.0	---	---	---	03.05.00	
1,3,5-Trimethylbenzene, ug/l	<5.0	---	---	---	03.05.00	
Vinyl Chloride, ug/l	<1.0	---	---	---	03.05.00	
o-Xylene, ug/l	<5.0	---	---	---	03.05.00	
m&p-Xylene, ug/l	<5.0	---	---	---	03.05.00	
Acetone, ug/l	<50	---	---	---	03.05.00	
2-Butanone (MEK), ug/l	<25	---	---	---	03.05.00	
4-methyl-2-pentanone (MIBK), ug/l	<25	---	---	---	03.05.00	
Carbon Disulfide, ug/l	<5.0	---	---	---	03.05.00	
Aluminum, mg/l	<0.20	94 %	0.21 %	02.29.00	03.06.00	
Aluminum (Dissolved), mg/l	<0.20	94 %	0.21 %	02.29.00	03.06.00	





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LOG NO: B0-60578  
Received: 24 FEB 00  
Reported: 08 MAR 00

Mr. Tony Damiano  
Dames & Moore  
1 North Dale Mabry, Suite 700  
Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015/GNB Falkenburg  
Sampled By: Client  
Code: 120100310  
Page 12

REPORT OF RESULTS

DATE/  
TIME SAMPLED

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES					
60578-9	Method Blank					
60578-10	Accuracy (%Rec)					
60578-11	Precision (%RPD)					
60578-13	Date Digested					
60578-12	Date Analyzed					
PARAMETER	60578-9	60578-10	60578-11	60578-13	60578-12	
Iron, mg/l	<0.050	94 %	0.84 %	02.29.00	03.06.00	
Iron (Dissolved), mg/l	<0.050	94 %	0.84 %	02.29.00	03.06.00	
Lead, mg/l	<0.0050	91 %	0.40 %	02.29.00	03.06.00	
Lead (Dissolved), mg/l	<0.0050	91 %	0.40 %	02.29.00	03.06.00	
Sulfate as SO <sub>4</sub> (375.4), mg/l	<5.0	88 %	6.2 %	---	03.06.00	
Total Dissolved Solids (160.1), mg/l	<5.0	99 %	0.10 %	---	02.25.00	

Method: EPA SW-846, EPA 600/4-79-020  
FDOH Certification: E84282

Andre Rachmaninoff, Project Manager

## ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

☐ 5102 LaRoche Avenue, Savannah, GA 31404

☐ 2846 Industrial Plaza Drive, Tallahassee, FL 32301





☐ 900 Lakeside Drive, Mobile, AL 36693

☐ 6712 Benjamin Rd., Suite 100, Tampa, FL 33634

Phone: (912) 354-7858 Fax: (912) 352-0165  
Phone: (850) 878-3994 Fax: (850) 878-9504  
Phone: (334) 666-6633 Fax: (334) 666-6696  
Phone: (813) 885-7427 Fax: (813) 885-7049

PROJECT REFERENCE <b>GMB TAMPA FAKENBURG</b>		PROJECT NO. <b>32040.015</b>		PROJECT LOCATION (STATE) <b>FL</b>		REQUIRED ANALYSES										PAGE		OF					
STL (LAB) PROJECT MANAGER <b>A. DAMIANO</b>		P.O. NUMBER		CONTRACT NO.		INDICATE SITE (C) OR GRAB (G) PLUS (WATER) OR SEMISOLID		AQUEOUS LIQUID (OIL, SOLVENT, ETC.) <b>Al, Pb, Fe (T/D)</b>		<b>SO<sub>4</sub>, TDS</b>		<b>8260</b>										STANDARD REPORT DELIVERY <input type="radio"/>	
CLIENT (SITE) PM		CLIENT PHONE		CLIENT FAX																		DATE DUE _____	
CLIENT NAME <b>FORMER GMB</b>		CLIENT EMAIL																		EXPEDITED REPORT DELIVERY (SURCHARGE) <input type="radio"/>			
CLIENT ADDRESS <b>FAKENBURG RD, TAMPA, FL.</b>																				DATE DUE _____			
COMPANY CONTRACTING THIS WORK (if applicable):																				NUMBER OF COOLERS SUBMITTED PER SHIPMENT:			

[illegible]

RELINQUISHED BY: (SIGNATURE) 	DATE 2-11-00	TIME 0915	RELINQUISHED BY: (SIGNATURE) 	DATE 2-23-00	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE) 	DATE	TIME	RECEIVED BY: (SIGNATURE) 	DATE 2-24-00	TIME 1000	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY						
RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES NO	CUSTODY SEAL NO.	STL-SL LOG NO.	LABORATORY REMARKS:
<i>Charles Elch</i>	2-24-00	1332			B06-0578	20 HANES

# OBIGMA



6712 Benjamin Road, Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049 • www.stlsavlab.com

LOG NO: B0-60613  
Received: 25 FEB 00  
Reported: 07 MAR 00

Mr. Tony Damiano  
Dames & Moore  
1 North Dale Mabry, Suite 700  
Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015/GNB Falkenburg  
Sampled By: Client  
Code: 09160037

REPORT OF RESULTS

Page 1

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES					DATE/ TIME SAMPLED
60613-1	MW-21					02-24-00/11:30
60613-2	MW-6					02-24-00/12:05
60613-3	MW-14					02-24-00/12:10
60613-4	MW-15					02-24-00/12:45
60613-5	MW-16					02-24-00/13:20
PARAMETER	60613-1	60613-2	60613-3	60613-4	60613-5	
Aluminum (6010), mg/l	1.8	0.69	<0.20	0.59	<0.20	
Iron (6010), mg/l	0.99	0.076	0.91	0.17	0.12	
Lead (6010), mg/l	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	



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LOG NO: B0-60613  
Received: 25 FEB 00  
Reported: 07 MAR 00

Mr. Tony Damiano  
Dames & Moore  
1 North Dale Mabry, Suite 700  
Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015/GNB Falkenburg  
Sampled By: Client  
Code: 09160037

Page 2

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED			
60613-6	MW-19	02-24-00/13:50			
60613-7	MW-13	02-24-00/14:50			
60613-8	MW-3A	02-24-00/15:20			
60613-9	MW-8	02-24-00/16:15			
60613-10	MW-7	02-24-00/16:45			
PARAMETER	60613-6	60613-7	60613-8	60613-9	60613-10
Aluminum (6010), mg/l	<0.20	<0.20	1.8	1.1	0.61
Iron (6010), mg/l	0.16	0.20	9.5	3.2	0.58
Lead (6010), mg/l	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050



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1 North Dale Mabry, Suite 700  
Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015/GNB Falkenburg  
Sampled By: Client  
Code: 09160037

Page 3

# REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
60613-11	MW-20	02-24-00/17:20
60613-12	MW-4	02-24-00/17:53
PARAMETER	60613-11	60613-12
Aluminum (6010), mg/l	0.40	0.24
Iron (6010), mg/l	8.5	0.42
Lead (6010), mg/l	<0.0050	0.075



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Reported: 07 MAR 00

Mr. Tony Damiano  
Dames & Moore  
1 North Dale Mabry, Suite 700  
Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015/GNB Falkenburg  
Sampled By: Client  
Code: 09160037

REPORT OF RESULTS

Page 4

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
60613-13	Method Blank	
60613-14	Accuracy (%Rec)	
60613-15	Precision (%RPD)	
60613-16	Date Digested	
60613-17	Date Analyzed	
PARAMETER	60613-13	60613-14
Aluminum (6010), mg/l	<0.20	103 %
Iron (6010), mg/l	<0.050	110 %
Lead (6010), mg/l	<0.0050	102 %

Method: EPA SW-846  
FDOH Certification: E87052

Andre Rachmaninoff, Project Manager

# SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

## ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

- ☐ 5102 LaRoche Avenue, Savannah, GA 31404
- ☐ 2846 Industrial Plaza Drive, Tallahassee, FL 32301
- ☐ 414 SW 12th Avenue, Deerfield Beach, FL 33442
- ☐ 900 Lakeside Drive, Mobile, AL 36693
- ☐ 6712 Benjamin Road, Suite 100, Tampa, FL 33634
- ☐ 100 Alpha Drive, Suite 110, Destrehan, LA 70047

Phone: (912) 354-7858  
Phone: (904) 878-3994  
Phone: (954) 421-7400  
Phone: (334) 666-6633  
Phone: (813) 885-7427  
Phone: (504) 764-1100

Fax: (912) 352-0165  
Fax: (904) 878-9504  
Fax: (954) 421-2584  
Fax: (334) 666-6696  
Fax: (813) 885-7049  
Fax: (504) 725-1163

PROJECT REFERENCE <b>GNB TAMPA FAULK.</b>		PROJECT NO. <b>32040.015</b>		P.O. NUMBER		MATRIX TYPE		REQUIRED ANALYSES				PAGE		OF			
PROJECT LOC. (State) <b>FL</b>		SAMPLER(S) NAME <b>FRANCISCO J. BORDOQUE</b>		PHONE		FAX		<div style="transform: rotate(-45deg); display: inline-block;">             AQUEOUS (WATER) SOLID OR SEMISOLID AIR NONAQUEOUS LIQUID (oil, solvent, etc.) (T) <b>Al, Pb, Fe</b> </div>				<input type="checkbox"/> STANDARD REPORT DELIVERY  <input type="checkbox"/> EXPEDITED REPORT DELIVERY (surcharge)  Date Due: _____					
CLIENT NAME		CLIENT PROJECT MANAGER <b>A. DAMIANO</b>															
CLIENT ADDRESS (CITY, STATE, ZIP)																	
SAMPLE		SL NO.		SAMPLE IDENTIFICATION				NUMBER OF CONTAINERS SUBMITTED				REMARKS					
DATE	TIME																
2-24-00	11:30A			MW-21													
	12:05P			MW-6													
	12:10			MW-14													
	12:45			MW-15													
	1:20			MW-16													
	1:50			MW-19													
	2:50			MW-13													
	3:20			MW-3A													
	4:15			MW-8													
	4:45			MW-7													
	5:20			MW-20													
	5:53			MW-4													
RELINQUISHED BY: (SIGNATURE)		DATE		TIME		RELINQUISHED BY: (SIGNATURE)		DATE		TIME		RELINQUISHED BY: (SIGNATURE)		DATE		TIME	
								2-25-00		10:00A							
RECEIVED BY: (SIGNATURE)		DATE		TIME		RECEIVED BY: (SIGNATURE)		DATE		TIME		RECEIVED BY: (SIGNATURE)		DATE		TIME	
								2-25-00		17:10							
LABORATORY USE ONLY																	
RECEIVED FOR LABORATORY BY: (SIGNATURE)		DATE		TIME		CUSTODY INTACT		CUSTODY SEAL NO.		SL LOG NO.		LABORATORY REMARKS:					
		2-25-00		1807		<input type="checkbox"/> YES <input type="checkbox"/> NO				806-0613							

ORIGINAL



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LOG NO: B0-60612  
Received: 25 FEB 00  
Reported: 08 MAR 00

Mr. Tony Damiano  
Dames & Moore  
1 North Dale Mabry, Suite 700  
Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015/GNB Falkenburg  
Sampled By: Client  
Code: 15570039

REPORT OF RESULTS

Page 1

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED			
60612-1	MW-17	02-24-00/09:20			
60612-2	MW-5	02-24-00/11:00			
60612-3	MW-18	02-24-00/15:40			
PARAMETER			60612-1	60612-2	60612-3
Volatile Organic Compounds (8260)					
Benzene, ug/l			<1.0	<1.0	<1.0
Bromobenzene, ug/l			<5.0	<5.0	<5.0
Bromochloromethane, ug/l			<5.0	<5.0	<5.0
Bromodichloromethane, ug/l			<5.0	<5.0	<5.0
Bromoform, ug/l			<5.0	<5.0	<5.0
Bromomethane, ug/l			<10	<10	<10
n-Butylbenzene, ug/l			<5.0	<5.0	<5.0
sec-Butylbenzene, ug/l			<5.0	<5.0	<5.0
tert-Butylbenzene, ug/l			<5.0	<5.0	<5.0
Carbon Tetrachloride, ug/l			<3.0	<3.0	<3.0
Chlorobenzene, ug/l			<5.0	<5.0	<5.0
Chloroethane, ug/l			<10	<10	<10
Chloroform, ug/l			<5.0	<5.0	<5.0
Chloromethane, ug/l			<10	<10	<10
Chlorotoluene, ug/l			<5.0	<5.0	<5.0
4-Chlorotoluene, ug/l			<5.0	<5.0	<5.0
Chlorodibromomethane, ug/l			<5.0	<5.0	<5.0
1,2-Dibromo-3-chloropropane, ug/l			<5.0	<5.0	<5.0
1,2-Dibromoethane (EDB), ug/l			<5.0	<3.0	<3.0
Dibromomethane, ug/l			<5.0	<5.0	<5.0
1,2-Dichlorobenzene, ug/l			<5.0	<5.0	<5.0
1,3-Dichlorobenzene, ug/l			<5.0	<5.0	<5.0
1,4-Dichlorobenzene, ug/l			<5.0	<5.0	<5.0





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LOG NO: B0-60612  
Received: 25 FEB 00  
Reported: 08 MAR 00

Mr. Tony Damiano  
Dames & Moore  
1 North Dale Mabry, Suite 700  
Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015/GNB Falkenburg  
Sampled By: Client  
Code: 094500310

REPORT OF RESULTS

Page 2

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	
60612-1	MW-17	02-24-00/09:20	
60612-2	MW-5	02-24-00/11:00	
60612-3	MW-18	02-24-00/15:40	
PARAMETER	60612-1	60612-2	60612-3
Dichlorodifluoromethane, ug/l	<10	<10	<10
1,1-Dichloroethane, ug/l	<5.0	<5.0	<5.0
1,2-Dichloroethane, ug/l	<3.0	<3.0	<3.0
1,1-Dichloroethylene, ug/l	<5.0	<5.0	<5.0
cis-1,2-Dichloroethylene, ug/l	43	<5.0	15
trans-1,2-Dichloroethylene, ug/l	<5.0	<5.0	7.0
1,2-Dichloropropane, ug/l	<5.0	<5.0	<5.0
1,3-Dichloropropane, ug/l	<5.0	<5.0	<5.0
2,2-Dichloropropane, ug/l	<5.0	<5.0	<5.0
1,1-Dichloropropylene, ug/l	<5.0	<5.0	<5.0
cis-1,3-Dichloropropene, ug/l	<5.0	<5.0	<5.0
trans-1,3-Dichloropropene, ug/l	<5.0	<5.0	<5.0
Ethylbenzene, ug/l	<5.0	<5.0	<5.0
Hexachlorobutadiene, ug/l	<5.0	<5.0	<5.0
Isopropylbenzene, ug/l	<5.0	<5.0	<5.0
4-Isopropyltoluene, ug/l	<5.0	<5.0	<5.0
Methylene Chloride, ug/l	<5.0	<5.0	<5.0
Naphthalene, ug/l	<5.0	<5.0	<5.0
n-Propylbenzene , ug/l	<5.0	<5.0	<5.0
Styrene, ug/l	<5.0	<5.0	<5.0
1,1,1,2-Tetrachloroethane, ug/l	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane, ug/l	<5.0	<5.0	<5.0
Tetrachloroethylene, ug/l	<3.0	<3.0	<3.0
Toluene, ug/l	<5.0	<5.0	<5.0



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LOG NO: B0-60612  
Received: 25 FEB 00  
Reported: 08 MAR 00

Mr. Tony Damiano  
Dames & Moore  
1 North Dale Mabry, Suite 700  
Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015/GNB Falkenburg  
Sampled By: Client  
Code: 15570039

Page 3

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED		
60612-1	MW-17	02-24-00/09:20		
60612-2	MW-5	02-24-00/11:00		
60612-3	MW-18	02-24-00/15:40		
PARAMETER		60612-1	60612-2	60612-3
1,2,3-Trichlorobenzene, ug/l		<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene, ug/l		<5.0	<5.0	<5.0
1,1,1-Trichloroethane, ug/l		<5.0	<5.0	<5.0
1,1,2-Trichloroethane, ug/l		<5.0	<5.0	<5.0
Trichloroethylene, ug/l		23	<3.0	9.0
Trichlorofluoromethane, ug/l		<5.0	<5.0	<5.0
1,2,3-Trichloropropane, ug/l		<5.0	<5.0	<5.0
1,2,4-Trimethylbenzene, ug/l		<5.0	<5.0	<5.0
1,3,5-Trimethylbenzene, ug/l		<5.0	<5.0	<5.0
Vinyl Chloride, ug/l		<1.0	<1.0	19
o-Xylene, ug/l		<5.0	<5.0	<5.0
m&p-Xylene, ug/l		<5.0	<5.0	<5.0
Acetone, ug/l		<50	<50	<50
2-Butanone (MEK), ug/l		<25	<25	<25
4-methyl-2-pentanone (MIBK), ug/l		<25	<25	<25
Carbon Disulfide, ug/l		<5.0	<5.0	<5.0
Aluminum (6010), mg/l		<0.20	<0.20	<0.20
Aluminum (Dissolved) (6010), mg/l		<0.20	<0.20	<0.20
Iron (6010), mg/l		1.6	0.40	0.38
Iron (Dissolved) (6010), mg/l		1.6	0.45	0.36
Lead (7421), mg/l		<0.0050	<0.0050	<0.0050



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LOG NO: B0-60612  
Received: 25 FEB 00  
Reported: 08 MAR 00

Mr. Tony Damiano  
Dames & Moore  
1 North Dale Mabry, Suite 700  
Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015/GNB Falkenburg  
Sampled By: Client  
Code: 15570039

Page 4

REPORT OF RESULTS

DATE/  
TIME SAMPLED

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES			
60612-1	MW-17	02-24-00/09:20		
60612-2	MW-5	02-24-00/11:00		
60612-3	MW-18	02-24-00/15:40		
PARAMETER		60612-1	60612-2	60612-3
Lead (Dissolved) (7421), mg/l		<0.0050	<0.0050	<0.0050
Sulfate as SO4 (375.4), mg/l		55	<5.0	11
Total Dissolved Solids (160.1), mg/l		150	76	240



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LOG NO: B0-60612  
Received: 25 FEB 00  
Reported: 08 MAR 00

Mr. Tony Damiano  
Dames & Moore  
1 North Dale Mabry, Suite 700  
Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015/GNB Falkenburg  
Sampled By: Client  
Code: 15570039

REPORT OF RESULTS

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DATE/

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	TIME SAMPLED			
60612-4	Method Blank				
60612-5	Accuracy (%Rec)				
60612-6	Precision (%RPD)				
60612-7	Date Digested				
60612-8	Date Analyzed				
PARAMETER	60612-4	60612-5	60612-6	60612-7	60612-8
Volatile Organic Compounds (8260)					
Benzene, ug/l	<1.0	104 %	0 %	---	03.05.00
Bromobenzene, ug/l	<5.0	---	---	---	03.05.00
Bromochloromethane, ug/l	<5.0	---	---	---	03.05.00
Bromodichloromethane, ug/l	<5.0	---	---	---	03.05.00
Bromoform, ug/l	<5.0	---	---	---	03.05.00
Bromomethane, ug/l	<10	---	---	---	03.05.00
n-Butylbenzene, ug/l	<5.0	---	---	---	03.05.00
sec-Butylbenzene, ug/l	<5.0	---	---	---	03.05.00
tert-Butylbenzene, ug/l	<5.0	---	---	---	03.05.00
Carbon Tetrachloride, ug/l	<3.0	---	---	---	03.05.00
Chlorobenzene, ug/l	<5.0	93 %	2.2 %	---	03.05.00
Chloroethane, ug/l	<10	---	---	---	03.05.00
Chloroform, ug/l	<5.0	---	---	---	03.05.00
Chloromethane, ug/l	<10	---	---	---	03.05.00
Chlorotoluene, ug/l	<5.0	---	---	---	03.05.00
4-Chlorotoluene, ug/l	<5.0	---	---	---	03.05.00
Chlorodibromomethane, ug/l	<5.0	---	---	---	03.05.00
1,2-Dibromo-3-chloropropane, ug/l	<5.0	---	---	---	03.05.00
1,2-Dibromoethane (EDB), ug/l	<5.0	---	---	---	03.05.00
Dibromomethane, ug/l	<5.0	---	---	---	03.05.00
1,2-Dichlorobenzene, ug/l	<5.0	---	---	---	03.05.00



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LOG NO: B0-60612  
Received: 25 FEB 00  
Reported: 08 MAR 00

Mr. Tony Damiano  
Dames & Moore  
1 North Dale Mabry, Suite 700  
Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015/GNB Falkenburg  
Sampled By: Client  
Code: 094500310  
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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED			
60612-4	Method Blank				
60612-5	Accuracy (%Rec)				
60612-6	Precision (%RPD)				
60612-7	Date Digested				
60612-8	Date Analyzed				
PARAMETER	60612-4	60612-5	60612-6	60612-7	60612-8
1,3-Dichlorobenzene, ug/l	<5.0	---	---	---	03.05.00
1,4-Dichlorobenzene, ug/l	<5.0	---	---	---	03.05.00
Dichlorodifluoromethane, ug/l	<10	---	---	---	03.05.00
1,1-Dichloroethane, ug/l	<5.0	---	---	---	03.05.00
1,2-Dichloroethane, ug/l	<3.0	---	---	---	03.05.00
1,1-Dichloroethylene, ug/l	<5.0	88 %	0 %	---	03.05.00
cis-1,2-Dichloroethylene, ug/l	<5.0	---	---	---	03.05.00
trans-1,2-Dichloroethylene, ug/l	<5.0	---	---	---	03.05.00
1,2-Dichloropropane, ug/l	<5.0	---	---	---	03.05.00
1,3-Dichloropropane, ug/l	<5.0	---	---	---	03.05.00
2,2-Dichloropropane, ug/l	<5.0	---	---	---	03.05.00
1,1-Dichloropropylene, ug/l	<5.0	---	---	---	03.05.00
cis-1,3-Dichloropropene, ug/l	<5.0	---	---	---	03.05.00
trans-1,3-Dichloropropene, ug/l	<5.0	---	---	---	03.05.00
Ethylbenzene, ug/l	<5.0	---	---	---	03.05.00
Hexachlorobutadiene, ug/l	<5.0	---	---	---	03.05.00
Isopropylbenzene, ug/l	<5.0	---	---	---	03.05.00
4-Isopropyltoluene, ug/l	<5.0	---	---	---	03.05.00
Methylene Chloride, ug/l	<5.0	---	---	---	03.05.00
Naphthalene, ug/l	<5.0	---	---	---	03.05.00
n-Propylbenzene , ug/l	<5.0	---	---	---	03.05.00
Styrene, ug/l	<5.0	---	---	---	03.05.00



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Reported: 08 MAR 00

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Dames & Moore  
1 North Dale Mabry, Suite 700  
Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015/GNB Falkenburg  
Sampled By: Client  
Code: 15570039

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED			
60612-4	Method Blank				
60612-5	Accuracy (%Rec)				
60612-6	Precision (%RPD)				
60612-7	Date Digested				
60612-8	Date Analyzed				
PARAMETER	60612-4	60612-5	60612-6	60612-7	60612-8
1,1,1,2-Tetrachloroethane, ug/l	<5.0	---	---	---	03.05.00
1,1,2,2-Tetrachloroethane, ug/l	<5.0	---	---	---	03.05.00
Tetrachloroethylene, ug/l	<3.0	---	---	---	03.05.00
Toluene, ug/l	<5.0	94 %	0 %	---	03.05.00
1,2,3-Trichlorobenzene, ug/l	<5.0	---	---	---	03.05.00
1,2,4-Trichlorobenzene, ug/l	<5.0	---	---	---	03.05.00
1,1,1-Trichloroethane, ug/l	<5.0	---	---	---	03.05.00
1,1,2-Trichloroethane, ug/l	<5.0	---	---	---	03.05.00
Trichloroethylene, ug/l	<3.0	92 %	0 %	---	03.05.00
Trichlorofluoromethane, ug/l	<5.0	---	---	---	03.05.00
1,2,3-Trichloropropane, ug/l	<5.0	---	---	---	03.05.00
1,2,4-Trimethylbenzene, ug/l	<5.0	---	---	---	03.05.00
1,3,5-Trimethylbenzene, ug/l	<5.0	---	---	---	03.05.00
Vinyl Chloride, ug/l	<1.0	---	---	---	03.05.00
o-Xylene, ug/l	<5.0	---	---	---	03.05.00
m&p-Xylene, ug/l	<5.0	---	---	---	03.05.00
Acetone, ug/l	<50	---	---	---	03.05.00
2-Butanone (MEK), ug/l	<25	---	---	---	03.05.00
4-methyl-2-pentanone (MIBK), ug/l	<25	---	---	---	03.05.00
Carbon Disulfide, ug/l	<5.0	---	---	---	03.05.00
Aluminum (6010), mg/l	<0.20	103 %	5.8 %	03.01.00	03.03.00
Aluminum (Dissolved) (6010), mg/l	<0.20	103 %	5.8 %	03.01.00	03.03.00



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Dames & Moore  
1 North Dale Mabry, Suite 700  
Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015/GNB Falkenburg  
Sampled By: Client  
Code: 15570039  
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REPORT OF RESULTS

DATE/  
TIME SAMPLED

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES					
60612-4	Method Blank					
60612-5	Accuracy (%Rec)					
60612-6	Precision (%RPD)					
60612-7	Date Digested					
60612-8	Date Analyzed					
PARAMETER	60612-4	60612-5	60612-6	60612-7	60612-8	
Iron (6010), mg/l	<0.050	110 %	12 %	03.01.00	03.03.00	
Iron (Dissolved) (6010), mg/l	<0.050	110 %	12 %	03.01.00	03.03.00	
Lead (7421), mg/l	<0.0050	96 %	2.1 %	03.01.00	03.07.00	
Lead (Dissolved) (7421), mg/l	<0.0050	96 %	2.1 %	03.01.00	03.07.00	
Sulfate as SO4 (375.4), mg/l	<5.0	102 %	5.9 %	---	02.28.00	
Total Dissolved Solids (160.1), mg/l	<5.0	99 %	0.70 %	---	03.01.00	

Method: EPA SW-846, EPA 600/4-79-020  
FDOH Certification: E84282, E87052

Andre Rachmaninoff, Project Manager



- ☐ 5102 LaRoche Avenue, Savannah, GA 31404
- ☐ 2846 Industrial Plaza Drive, Tallahassee, FL 32301
- ☐ 414 SW 12th Avenue, Deerfield Beach, FL 33442
- ☐ 900 Lakeside Drive, Mobile, AL 36693
- ☐ 6712 Benjamin Road, Suite 100, Tampa, FL 33634
- ☐ 100 Alpha Drive, Suite 110, Destrehan, LA 70047

Phone: (912) 354-7858  
Phone: (904) 878-3994  
Phone: (954) 421-7400  
Phone: (334) 666-6633  
Phone: (813) 885-7427  
Phone: (504) 764-1100

Fax: (912) 352-0165  
Fax: (904) 878-9504  
Fax: (954) 421-2584  
Fax: (334) 666-6696  
Fax: (813) 885-7049  
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ORIGINAL





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LOG NO: B0-60617  
Received: 28 FEB 00  
Reported: 07 MAR 00

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Dames & Moore  
1 North Dale Mabry, Suite 700  
Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015/GNB Falkenburg  
Sampled By: Client  
Code: 16100037  
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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
60617-1	PMW-24	02-27-00/15:10
PARAMETER	60617-1	
Purgeable Halocarbons (601)		
Bromodichloromethane, ug/l	11	
Bromoform, ug/l	<5.0	
Bromomethane, ug/l	<1.0	
Carbon Tetrachloride, ug/l	<1.0	
Chlorobenzene, ug/l	<1.0	
Chloroethane, ug/l	<1.0	
2-Chloroethylvinyl Ether, ug/l	<10	
Chloroform, ug/l	4.4	
Chloromethane, ug/l	<1.0	
Dibromochloromethane, ug/l	14	
1,2-Dichlorobenzene, ug/l	<1.0	
1,3-Dichlorobenzene, ug/l	<1.0	
1,4-Dichlorobenzene, ug/l	<1.0	
Dichlorodifluoromethane, ug/l	<1.0	
1,1-Dichloroethane, ug/l	<1.0	
1,2-Dichloroethane, ug/l	<1.0	
1,1-Dichloroethylene, ug/l	<1.0	
cis-1,2-Dichloroethylene, ug/l	<1.0	
trans-1,2-Dichloroethylene, ug/l	<1.0	
1,2-Dichloropropane, ug/l	<1.0	
cis-1,3-Dichloropropene, ug/l	<1.0	
trans-1,3-Dichloropropene, ug/l	<1.0	
Methylene Chloride, ug/l	<5.0	
1,1,2,2-Tetrachloroethane, ug/l	<1.0	
Tetrachloroethylene, ug/l	<1.0	
1,1,1-Trichloroethane, ug/l	<1.0	
1,1,2-Trichloroethane, ug/l	<1.0	
Trichloroethylene, ug/l	<1.0	
Trichlorofluoromethane, ug/l	<1.0	
Vinyl Chloride, ug/l	<1.0	



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REPORT OF RESULTS

Page 2

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED			
60617-2	Method Blank				
60617-3	Accuracy (%Rec)				
60617-4	Precision (%RPD)				
60617-5	Date Analyzed				
PARAMETER	60617-2	60617-3	60617-4	60617-5	
Purgeable Halocarbons (601)					
Bromodichloromethane, ug/l	<1.0	---	---	02.28.00	
Bromoform, ug/l	<5.0	---	---	02.28.00	
Bromomethane, ug/l	<1.0	---	---	02.28.00	
Carbon Tetrachloride, ug/l	<1.0	---	---	02.28.00	
Chlorobenzene, ug/l	<1.0	9.4 %	1.1 %	02.28.00	
Chloroethane, ug/l	<1.0	---	---	02.28.00	
2-Chloroethylvinyl Ether, ug/l	<10	---	---	02.28.00	
Chloroform, ug/l	<1.0	---	---	02.28.00	
Chloromethane, ug/l	<1.0	---	---	02.28.00	
Dibromochloromethane, ug/l	<1.0	---	---	02.28.00	
1,2-Dichlorobenzene, ug/l	<1.0	---	---	02.28.00	
1,3-Dichlorobenzene, ug/l	<1.0	---	---	02.28.00	
1,4-Dichlorobenzene, ug/l	<1.0	---	---	02.28.00	
Dichlorodifluoromethane, ug/l	<1.0	---	---	02.28.00	
1,1-Dichloroethane, ug/l	<1.0	---	---	02.28.00	
1,2-Dichloroethane, ug/l	<1.0	---	---	02.28.00	
1,1-Dichloroethylene, ug/l	<1.0	105 %	9.5 %	02.28.00	
cis-1,2-Dichloroethylene, ug/l	<1.0	---	---	02.28.00	
trans-1,2-Dichloroethylene, ug/l	<1.0	---	---	02.28.00	
1,2-Dichloropropane, ug/l	<1.0	---	---	02.28.00	
cis-1,3-Dichloropropene, ug/l	<1.0	---	---	02.28.00	
trans-1,3-Dichloropropene, ug/l	<1.0	---	---	02.28.00	



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1 North Dale Mabry, Suite 700  
Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015/GNB Falkenburg  
Sampled By: Client  
Code: 16100037

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED		
60617-2	Method Blank			
60617-3	Accuracy (%Rec)			
60617-4	Precision (%RPD)			
60617-5	Date Analyzed			
PARAMETER	60617-2	60617-3	60617-4	60617-5
Methylene Chloride, ug/l	<5.0	---	---	02.28.00
1,1,2,2-Tetrachloroethane, ug/l	<1.0	---	---	02.28.00
Tetrachloroethylene, ug/l	<1.0	---	---	02.28.00
1,1,1-Trichloroethane, ug/l	<1.0	---	---	02.28.00
1,1,2-Trichloroethane, ug/l	<1.0	---	---	02.28.00
Trichloroethylene, ug/l	<1.0	110 %	18 %	02.28.00
Trichlorofluoromethane, ug/l	<1.0	---	---	02.28.00
Vinyl Chloride, ug/l	<1.0	---	---	02.28.00

Methods: EPA CFR Part 136, EPA SW-846, EPA 600/4-79-020

FDOH Certification: E84282

Andre Rachmaninoff, Project Manager



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Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015/GNB Falkenburg  
Sampled By: Client  
Code: 16140037  
Page 1

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
60617-1	PMW-24	02-27-00/15:10
PARAMETER	60617-1	
Volatile Organic Compounds (8260)		
Benzene, ug/l		<1.0
Bromobenzene, ug/l		<5.0
Bromochloromethane, ug/l		<5.0
Bromodichloromethane, ug/l		8.4
Bromoform, ug/l		10
Bromomethane, ug/l		<10
n-Butylbenzene, ug/l		<5.0
sec-Butylbenzene, ug/l		<5.0
tert-Butylbenzene, ug/l		<5.0
Carbon Tetrachloride, ug/l		<3.0
Chlorobenzene, ug/l		<5.0
Chloroethane, ug/l		<10
Chloroform, ug/l		<5.0
Chloromethane, ug/l		<10
Chlorotoluene, ug/l		<5.0
4-Chlorotoluene, ug/l		<5.0
Chlorodibromomethane, ug/l		15
1,2-Dibromo-3-chloropropane, ug/l		<5.0
1,2-Dibromoethane (EDB), ug/l		<5.0
Dibromomethane, ug/l		<5.0
1,2-Dichlorobenzene, ug/l		<5.0
1,3-Dichlorobenzene, ug/l		<5.0
1,4-Dichlorobenzene, ug/l		<5.0
Dichlorodifluoromethane, ug/l		<5.0
1,1-Dichloroethane, ug/l		<5.0



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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
60617-1	PMW-24	02-27-00/15:10
PARAMETER	60617-1	
1,2-Dichloroethane, ug/l	<3.0	
1,1-Dichloroethylene, ug/l	<5.0	
cis-1,2-Dichloroethylene, ug/l	<5.0	
trans-1,2-Dichloroethylene, ug/l	<5.0	
1,2-Dichloropropane, ug/l	<5.0	
1,3-Dichloropropane, ug/l	<5.0	
2,2-Dichloropropane, ug/l	<5.0	
1,1-Dichloropropylene, ug/l	<5.0	
cis-1,3-Dichloropropene, ug/l	<5.0	
trans-1,3-Dichloropropene, ug/l	<5.0	
Ethylbenzene, ug/l	<5.0	
Hexachlorobutadiene, ug/l	<5.0	
Isopropylbenzene, ug/l	<5.0	
4-Isopropyltoluene, ug/l	<5.0	
Methylene Chloride, ug/l	<5.0	
Naphthalene, ug/l	<5.0	
n-Propylbenzene , ug/l	<5.0	
Styrene, ug/l	<5.0	
1,1,1,2-Tetrachloroethane, ug/l	<5.0	
1,1,2,2-Tetrachloroethane, ug/l	<5.0	
Tetrachloroethylene, ug/l	<3.0	
Toluene, ug/l	<5.0	
1,2,3-Trichlorobenzene, ug/l	<5.0	
1,2,4-Trichlorobenzene, ug/l	<5.0	
1,1,1-Trichloroethane, ug/l	<5.0	
1,1,2-Trichloroethane, ug/l	<5.0	



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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
60617-1	PMW-24	02-27-00/15:10
PARAMETER	60617-1	
Trichloroethylene, ug/l	<3.0	
Trichlorofluoromethane, ug/l	<5.0	
1,2,3-Trichloropropane, ug/l	<5.0	
1,2,4-Trimethylbenzene, ug/l	<5.0	
1,3,5-Trimethylbenzene, ug/l	<5.0	
Vinyl Chloride, ug/l	<1.0	
o-Xylene, ug/l	<5.0	
m-Xylene, ug/l	<5.0	
p-Xylene, ug/l	<5.0	
Acetone, ug/l	<50	
2-Butanone (MEK), ug/l	<25	
4-methyl-2-pentanone (MIBK), ug/l	<25	
Carbon Disulfide, ug/l	<5.0	
Aluminum, mg/l	0.44	
Aluminum (Dissolved), mg/l	0.26	
Iron, mg/l	0.061	
Iron (Dissolved), mg/l	<0.050	
Lead, mg/l	<0.0050	
Lead (Dissolved), mg/l	<0.0050	
Sulfate as SO4 (375.4), mg/l	110	
Total Dissolved Solids (160.1), mg/l	460	



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REPORT OF RESULTS

Page 4

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED			
60617-2	Method Blank				
60617-3	Accuracy (%Rec)				
60617-4	Precision (%RPD)				
60617-5	Date Analyzed				
PARAMETER	60617-2	60617-3	60617-4	60617-5	
Volatile Organic Compounds (8260)					
Benzene, ug/l	<1.0	117 %	12 %	02.28.00	
Bromobenzene, ug/l	<5.0	---	---	02.28.00	
Bromochloromethane, ug/l	<5.0	---	---	02.28.00	
Bromodichloromethane, ug/l	<5.0	---	---	02.28.00	
Bromoform, ug/l	<5.0	---	---	02.28.00	
Bromomethane, ug/l	<10	---	---	02.28.00	
n-Butylbenzene, ug/l	<5.0	---	---	02.28.00	
sec-Butylbenzene, ug/l	<5.0	---	---	02.28.00	
tert-Butylbenzene, ug/l	<5.0	---	---	02.28.00	
Carbon Tetrachloride, ug/l	<3.0	---	---	02.28.00	
Chlorobenzene, ug/l	<5.0	105 %	1.9 %	02.28.00	
Chloroethane, ug/l	<10	---	---	02.28.00	
Chloroform, ug/l	<5.0	---	---	02.28.00	
Chloromethane, ug/l	<10	---	---	02.28.00	
Chlorotoluene, ug/l	<5.0	---	---	02.28.00	
4-Chlorotoluene, ug/l	<5.0	---	---	02.28.00	
Chlorodibromomethane, ug/l	<5.0	---	---	02.28.00	
1,2-Dibromo-3-chloropropane, ug/l	<5.0	---	---	02.28.00	
1,2-Dibromoethane (EDB), ug/l	<5.0	---	---	02.28.00	
Dibromomethane, ug/l	<5.0	---	---	02.28.00	
1,2-Dichlorobenzene, ug/l	<5.0	---	---	02.28.00	
1,3-Dichlorobenzene, ug/l	<5.0	---	---	02.28.00	



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Dames & Moore  
1 North Dale Mabry, Suite 700  
Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015/GNB Falkenburg  
Sampled By: Client  
Code: 16140037  
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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED			
60617-2	Method Blank				
60617-3	Accuracy (%Rec)				
60617-4	Precision (%RPD)				
60617-5	Date Analyzed				
PARAMETER	60617-2	60617-3	60617-4	60617-5	
1,4-Dichlorobenzene, ug/l	<5.0	---	---	02.28.00	
Dichlorodifluoromethane, ug/l	<5.0	---	---	02.28.00	
1,1-Dichloroethane, ug/l	<5.0	---	---	02.28.00	
1,2-Dichloroethane, ug/l	<3.0	---	---	02.28.00	
1,1-Dichloroethylene, ug/l	<5.0	98 %	16 %	02.28.00	
cis-1,2-Dichloroethylene, ug/l	<5.0	---	---	02.28.00	
trans-1,2-Dichloroethylene, ug/l	<5.0	---	---	02.28.00	
1,2-Dichloropropane, ug/l	<5.0	---	---	02.28.00	
1,3-Dichloropropane, ug/l	<5.0	---	---	02.28.00	
2,2-Dichloropropane, ug/l	<5.0	---	---	02.28.00	
1,1-Dichloropropylene, ug/l	<5.0	---	---	02.28.00	
cis-1,3-Dichloropropene, ug/l	<5.0	---	---	02.28.00	
trans-1,3-Dichloropropene, ug/l	<5.0	---	---	02.28.00	
Ethylbenzene, ug/l	<5.0	---	---	02.28.00	
Hexachlorobutadiene, ug/l	<5.0	---	---	02.28.00	
Isopropylbenzene, ug/l	<5.0	---	---	02.28.00	
4-Isopropyltoluene, ug/l	<5.0	---	---	02.28.00	
Methylene Chloride, ug/l	<5.0	---	---	02.28.00	
Naphthalene, ug/l	<5.0	---	---	02.28.00	
n-Propylbenzene , ug/l	<5.0	---	---	02.28.00	
Styrene, ug/l	<5.0	---	---	02.28.00	
1,1,1,2-Tetrachloroethane, ug/l	<5.0	---	---	02.28.00	
1,1,2,2-Tetrachloroethane, ug/l	<5.0	---	---	02.28.00	





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Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015/GNB Falkenburg  
Sampled By: Client  
Code: 16140037

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REPORT OF RESULTS

DATE/  
TIME SAMPLED

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES				
60617-2	Method Blank				
60617-3	Accuracy (%Rec)				
60617-4	Precision (%RPD)				
60617-5	Date Analyzed				
PARAMETER	60617-2	60617-3	60617-4	60617-5	
Tetrachloroethylene, ug/l	<3.0	---	---	02.28.00	
Toluene, ug/l	<5.0	102 %	3.9 %	02.28.00	
1,2,3-Trichlorobenzene, ug/l	<5.0	---	---	02.28.00	
1,2,4-Trichlorobenzene, ug/l	<5.0	---	---	02.28.00	
1,1,1-Trichloroethane, ug/l	<5.0	---	---	02.28.00	
1,1,2-Trichloroethane, ug/l	<5.0	---	---	02.28.00	
Trichloroethylene, ug/l	<3.0	105 %	5.7 %	02.28.00	
Trichlorofluoromethane, ug/l	<5.0	---	---	02.28.00	
1,2,3-Trichloropropane, ug/l	<5.0	---	---	02.28.00	
1,2,4-Trimethylbenzene, ug/l	<5.0	---	---	02.28.00	
1,3,5-Trimethylbenzene, ug/l	<5.0	---	---	02.28.00	
Vinyl Chloride, ug/l	<1.0	---	---	02.28.00	
o-Xylene, ug/l	<5.0	---	---	02.28.00	
m-Xylene, ug/l	<5.0	---	---	02.28.00	
p-Xylene, ug/l	<5.0	---	---	02.28.00	
Acetone, ug/l	<50	---	---	02.28.00	
2-Butanone (MEK), ug/l	<25	---	---	02.28.00	
4-methyl-2-pentanone (MIBK), ug/l	<25	---	---	02.28.00	
Carbon Disulfide, ug/l	<5.0	---	---	02.28.00	
Aluminum, mg/l	<0.20	95 %	1.5 %	03.01.00	
Aluminum (Dissolved), mg/l	<0.20	95 %	1.5 %	03.01.00	
Iron, mg/l	<0.050	94 %	2.6 %	03.01.00	



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Client PO. No.: TPAR02000019

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REPORT OF RESULTS

DATE/  
TIME SAMPLED

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES				
60617-2	Method Blank				
60617-3	Accuracy (%Rec)				
60617-4	Precision (%RPD)				
60617-5	Date Analyzed				
PARAMETER		60617-2	60617-3	60617-4	60617-5
Iron (Dissolved), mg/l		<0.50	94 %	2.6 %	03.01.00
Lead, mg/l		<0.0050	94 %	1.7 %	03.01.00
Lead (Dissolved), mg/l		<0.0050	94 %	1.7 %	03.01.00
Sulfate as SO <sub>4</sub> (375.4), mg/l		<5.0	88 %	6.2 %	03.06.00
Total Dissolved Solids (160.1), mg/l		<5.0	99 %	0.70 %	03.01.00

Methods: EPA CFR Part 136, EPA SW-846, EPA 600/4-79-020  
FDOH Certification: E84282

Andre Rachmaninoff, Project Manager

ORIGINAL



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Dames & Moore  
1 North Dale Mabry, Suite 700  
Tampa, FL 33609

Project: 32040.015/GNB Tampa Falkenburg  
Sampled By: Client  
Code: 123500313

REPORT OF RESULTS

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LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED		
60636-1	Frito Lay Well	02-28-00/10:10		
60636-2	McCaffery Well	02-28-00/12:15		
60636-3	Equipment Blank	02-28-00/15:05		
PARAMETER		60636-1	60636-2	60636-3
Volatile Organic Compounds (8260)				
Benzene, ug/l		<1.0	<1.0	<1.0
Bromobenzene, ug/l		<5.0	<5.0	<5.0
Bromochloromethane, ug/l		<5.0	<5.0	<5.0
Bromodichloromethane, ug/l		<5.0	<5.0	<5.0
Bromoform, ug/l		<5.0	<5.0	<5.0
Bromomethane, ug/l		<10	<10	<10
n-Butylbenzene, ug/l		<5.0	<5.0	<5.0
sec-Butylbenzene, ug/l		<5.0	<5.0	<5.0
tert-Butylbenzene, ug/l		<5.0	<5.0	<5.0
Carbon Tetrachloride, ug/l		<3.0	<3.0	<3.0
Chlorobenzene, ug/l		<5.0	<5.0	<5.0
Chloroethane, ug/l		<10	<10	<10
Chloroform, ug/l		<5.0	<5.0	<5.0
Chloromethane, ug/l		<10	<10	<10
Chlorotoluene, ug/l		<5.0	<5.0	<5.0
4-Chlorotoluene, ug/l		<5.0	<5.0	<5.0
Chlorodibromomethane, ug/l		<5.0	<5.0	<5.0
1,2-Dibromo-3-chloropropane, ug/l		<5.0	<5.0	<5.0
1,2-Dibromoethane (EDB), ug/l		<5.0	<5.0	<5.0
Dibromomethane, ug/l		<5.0	<5.0	<5.0
1,2-Dichlorobenzene, ug/l		<5.0	<5.0	<5.0
1,3-Dichlorobenzene, ug/l		<5.0	<5.0	<5.0
1,4-Dichlorobenzene, ug/l		<5.0	<5.0	<5.0



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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED		
60636-1	Frito Lay Well	02-28-00/10:10		
60636-2	McCaffery Well	02-28-00/12:15		
60636-3	Equipment Blank	02-28-00/15:05		
PARAMETER		60636-1	60636-2	60636-3
Dichlorodifluoromethane, ug/l		<10	<10	<10
1,1-Dichloroethane, ug/l		<5.0	<5.0	<5.0
1,2-Dichloroethane, ug/l		<3.0	<3.0	<3.0
1,1-Dichloroethylene, ug/l		<5.0	<5.0	<5.0
cis-1,2-Dichloroethylene, ug/l		<5.0	<5.0	<5.0
trans-1,2-Dichloroethylene, ug/l		<5.0	<5.0	<5.0
1,2-Dichloropropane, ug/l		<5.0	<5.0	<5.0
1,3-Dichloropropane, ug/l		<5.0	<5.0	<5.0
2,2-Dichloropropane, ug/l		<5.0	<5.0	<5.0
1,1-Dichloropropylene, ug/l		<5.0	<5.0	<5.0
cis-1,3-Dichloropropene, ug/l		<5.0	<5.0	<5.0
trans-1,3-Dichloropropene, ug/l		<5.0	<5.0	<5.0
Ethylbenzene, ug/l		<5.0	<5.0	<5.0
Hexachlorobutadiene, ug/l		<5.0	<5.0	<5.0
Isopropylbenzene, ug/l		<5.0	<5.0	<5.0
4-Isopropyltoluene, ug/l		<5.0	<5.0	<5.0
Methylene Chloride, ug/l		<5.0	<5.0	<5.0
Naphthalene, ug/l		<5.0	<5.0	<5.0
n-Propylbenzene , ug/l		<5.0	<5.0	<5.0
Styrene, ug/l		<5.0	<5.0	<5.0
1,1,1,2-Tetrachloroethane, ug/l		<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane, ug/l		<5.0	<5.0	<5.0
Tetrachloroethylene, ug/l		<3.0	<3.0	<3.0
Toluene, ug/l		<5.0	<5.0	<5.0



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Tampa, FL 33609

Project: 32040.015/GNB Tampa Falkenburg  
Sampled By: Client  
Code: 123500313

REPORT OF RESULTS

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LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED		
60636-1	Frito Lay Well	02-28-00/10:10		
60636-2	McCaffery Well	02-28-00/12:15		
60636-3	Equipment Blank	02-28-00/15:05		
PARAMETER		60636-1	60636-2	60636-3
1,2,3-Trichlorobenzene, ug/l		<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene, ug/l		<5.0	<5.0	<5.0
1,1,1-Trichloroethane, ug/l		<5.0	<5.0	<5.0
1,1,2-Trichloroethane, ug/l		<5.0	<5.0	<5.0
Trichloroethylene, ug/l		<3.0	<3.0	<3.0
Trichlorofluoromethane, ug/l		<5.0	<5.0	<5.0
1,2,3-Trichloropropane, ug/l		<5.0	<5.0	<5.0
1,2,4-Trimethylbenzene, ug/l		<5.0	<5.0	<5.0
1,3,5-Trimethylbenzene, ug/l		<5.0	<5.0	<5.0
Vinyl Chloride, ug/l		<1.0	<1.0	<1.0
o-Xylene, ug/l		<5.0	<5.0	<5.0
m-Xylene, ug/l		<5.0	<5.0	<5.0
p-Xylene, ug/l		<5.0	<5.0	<5.0
Acetone, ug/l		<50	<50	<50
2-Butanone (MEK), ug/l		<25	<25	<25
4-methyl-2-pentanone (MIBK), ug/l		<25	<25	<25
Carbon Disulfide, ug/l		<5.0	<5.0	<5.0
Aluminum, mg/l		<0.20	<0.20	<0.20
Aluminum (Dissolved), mg/l		<0.20	<0.20	<0.20
Iron, mg/l		0.64	3.7	<0.050
Iron (Dissolved), mg/l		0.59	2.8	<0.050
Lead, mg/l		<0.0050	0.013	<0.0050



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REPORT OF RESULTS

Page 4

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED		
60636-1	Frito Lay Well	02-28-00/10:10		
60636-2	McCaffery Well	02-28-00/12:15		
60636-3	Equipment Blank	02-28-00/15:05		
PARAMETER		60636-1	60636-2	60636-3
Lead (Dissolved), mg/l		<0.0050	<0.0050	<0.0050
Sulfate as SO <sub>4</sub> (375.4), mg/l		15	<5.0	<5.0
Total Dissolved Solids (160.1), mg/l		270	210	<5.0



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REPORT OF RESULTS

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LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	
60636-4	DUP-1	02-28-00/13:05	
60636-5	DUP-2	02-28-00/14:50	
PARAMETER		60636-4	60636-5
Aluminum, mg/l		2.3	11
Aluminum (Dissolved), mg/l		1.2	10
Lead, mg/l		<0.0050	<0.0050
Lead (Dissolved), mg/l		<0.0050	<0.0050
Iron, mg/l		3.7	10
Iron (Dissolved), mg/l		2.6	10





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REPORT OF RESULTS

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LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
60636-6	MW-12	02-28-00/14:50
PARAMETER	60636-6	
Aluminum, mg/l	<0.20	
Lead, mg/l	0.0079	
Iron, mg/l	0.16	



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REPORT OF RESULTS

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LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED			
60636-7	Method Blank				
60636-8	Accuracy (%Rec)				
60636-9	Precision (%RPD)				
60636-11	Date Digested				
60636-10	Date Analyzed				
PARAMETER	60636-7	60636-8	60636-9	60636-11	60636-10
Aluminum, mg/l	<0.20	109 %	8.1 %	03.07.00	03.09.00
Aluminum (Dissolved), mg/l	<0.20	109 %	8.1 %	03.07.00	03.09.00
Iron (Dissolved), mg/l	<0.050	104 %	9.3 %	03.07.00	03.09.00
Iron, mg/l	<0.050	104 %	9.3 %	03.07.00	03.09.00
Lead, mg/l	<0.0050	102 %	4.8 %	03.07.00	03.09.00
Lead (Dissolved), mg/l	<0.0050	102 %	4.8 %	03.07.00	03.09.00
Sulfate as SO4 (375.4), mg/l	<5.0	88 %	6.2 %	---	03.06.00
Total Dissolved Solids (160.1), mg/l	<5.0	99 %	0.70 %	---	03.01.00



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REPORT OF RESULTS

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LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED			
60636-7	Method Blank				
60636-8	Accuracy (%Rec)				
60636-9	Precision (%RPD)				
60636-11	Date Digested				
60636-10	Date Analyzed				
PARAMETER	60636-7	60636-8	60636-9	60636-11	60636-10
Volatile Organic Compounds (8260)					
Benzene, ug/l	<1.0	104 %	0 %	---	03.06.00
Bromobenzene, ug/l	<5.0	---	---	---	03.06.00
Bromochloromethane, ug/l	<5.0	---	---	---	03.06.00
Bromodichloromethane, ug/l	<5.0	---	---	---	03.06.00
Bromoform, ug/l	<5.0	---	---	---	03.06.00
Bromomethane, ug/l	<10	---	---	---	03.06.00
n-Butylbenzene, ug/l	<5.0	---	---	---	03.06.00
sec-Butylbenzene, ug/l	<5.0	---	---	---	03.06.00
tert-Butylbenzene, ug/l	<5.0	---	---	---	03.06.00
Carbon Tetrachloride, ug/l	<3.0	---	---	---	03.06.00
Chlorobenzene, ug/l	<5.0	92 %	0 %	---	03.06.00
Chloroethane, ug/l	<10	---	---	---	03.06.00
Chloroform, ug/l	<5.0	---	---	---	03.06.00
Chloromethane, ug/l	<10	---	---	---	03.06.00
Chlorotoluene, ug/l	<5.0	---	---	---	03.06.00
4-Chlorotoluene, ug/l	<5.0	---	---	---	03.06.00
Chlorodibromomethane, ug/l	<5.0	---	---	---	03.06.00
1,2-Dibromo-3-chloropropane, ug/l	<5.0	---	---	---	03.06.00
1,2-Dibromoethane (EDB), ug/l	<5.0	---	---	---	03.06.00
Dibromomethane, ug/l	<5.0	---	---	---	03.06.00
1,2-Dichlorobenzene, ug/l	<5.0	---	---	---	03.06.00



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REPORT OF RESULTS

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LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED			
60636-7	Method Blank				
60636-8	Accuracy (%Rec)				
60636-9	Precision (%RPD)				
60636-11	Date Digested				
60636-10	Date Analyzed				
PARAMETER	60636-7	60636-8	60636-9	60636-11	60636-10
1,3-Dichlorobenzene, ug/l	<5.0	---	---	---	03.06.00
1,4-Dichlorobenzene, ug/l	<5.0	---	---	---	03.06.00
Dichlorodifluoromethane, ug/l	<5.0	---	---	---	03.06.00
1,1-Dichloroethane, ug/l	<5.0	---	---	---	03.06.00
1,2-Dichloroethane, ug/l	<3.0	---	---	---	03.06.00
1,1-Dichloroethylene, ug/l	<5.0	87 %	2.3 %	---	03.06.00
cis-1,2-Dichloroethylene, ug/l	<5.0	---	---	---	03.06.00
trans-1,2-Dichloroethylene, ug/l	<5.0	---	---	---	03.06.00
1,2-Dichloropropane, ug/l	<5.0	---	---	---	03.06.00
1,3-Dichloropropane, ug/l	<5.0	---	---	---	03.06.00
2,2-Dichloropropane, ug/l	<5.0	---	---	---	03.06.00
1,1-Dichloropropylene, ug/l	<5.0	---	---	---	03.06.00
cis-1,3-Dichloropropene, ug/l	<5.0	---	---	---	03.06.00
trans-1,3-Dichloropropene, ug/l	<5.0	---	---	---	03.06.00
Ethylbenzene, ug/l	<5.0	---	---	---	03.06.00
Hexachlorobutadiene, ug/l	<5.0	---	---	---	03.06.00
Isopropylbenzene, ug/l	<5.0	---	---	---	03.06.00
4-Isopropyltoluene, ug/l	<5.0	---	---	---	03.06.00
Methylene Chloride, ug/l	<5.0	---	---	---	03.06.00
Naphthalene, ug/l	<5.0	---	---	---	03.06.00
n-Propylbenzene , ug/l	<5.0	---	---	---	03.06.00
Styrene, ug/l	<5.0	---	---	---	03.06.00



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LOG NO: B0-60636  
Received: 29 FEB 00  
Reported: 13 MAR 00

Mr. Tony Damiano  
Dames & Moore  
1 North Dale Mabry, Suite 700  
Tampa, FL 33609

Project: 32040.015/GNB Tampa Falkenburg  
Sampled By: Client  
Code: 123500313

REPORT OF RESULTS

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LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED			
60636-7	Method Blank				
60636-8	Accuracy (%Rec)				
60636-9	Precision (%RPD)				
60636-11	Date Digested				
60636-10	Date Analyzed				
PARAMETER	60636-7	60636-8	60636-9	60636-11	60636-10
1,1,1,2-Tetrachloroethane, ug/l	<5.0	---	---	---	03.06.00
1,1,2,2-Tetrachloroethane, ug/l	<5.0	---	---	---	03.06.00
Tetrachloroethylene, ug/l	<3.0	---	---	---	03.06.00
Toluene, ug/l	<5.0	91 %	2.2 %	---	03.06.00
1,2,3-Trichlorobenzene, ug/l	<5.0	---	---	---	03.06.00
1,2,4-Trichlorobenzene, ug/l	<5.0	---	---	---	03.06.00
1,1,1-Trichloroethane, ug/l	<5.0	---	---	---	03.06.00
1,1,2-Trichloroethane, ug/l	<5.0	---	---	---	03.06.00
Trichloroethylene, ug/l	<3.0	90 %	4.4 %	---	03.06.00
Trichlorofluoromethane, ug/l	<5.0	---	---	---	03.06.00
1,2,3-Trichloropropane, ug/l	<5.0	---	---	---	03.06.00
1,2,4-Trimethylbenzene, ug/l	<5.0	---	---	---	03.06.00
1,3,5-Trimethylbenzene, ug/l	<5.0	---	---	---	03.06.00
Vinyl Chloride, ug/l	<1.0	---	---	---	03.06.00
o-Xylene, ug/l	<5.0	---	---	---	03.06.00
m-Xylene, ug/l	<5.0	---	---	---	03.06.00
p-Xylene, ug/l	<5.0	---	---	---	03.06.00
Acetone, ug/l	<50	---	---	---	03.06.00
2-Butanone (MEK), ug/l	<25	---	---	---	03.06.00
4-methyl-2-pentanone (MIBK), ug/l	<25	---	---	---	03.06.00
Carbon Disulfide, ug/l	<5.0	---	---	---	03.06.00

Methods: EPA SW-486, EPA 600/4-79-020  
DOH Certification #'s: E842828

ARW



CLIENTS FIELD COPY



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LOG NO: B0-60873  
Received: 22 MAR 00  
Reported: 31 MAR 00

Mr. Tony Damiano  
Dames & Moore  
1 North Dale Mabry, Suite 700  
Tampa, FL 33609

Client PO. No.: TPA-R-0200-0019

Project: 32040.015/GNB Falkenburg  
Sampled By: Client  
Code: 162300331  
Page 1

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
60873-1	MW-23	03-21-00/13:30
PARAMETER	60873-1	
Volatile Organic Compounds (8260)		
Benzene, ug/l		<1.0
Bromobenzene, ug/l		<5.0
Bromochloromethane, ug/l		<5.0
Bromodichloromethane, ug/l		<5.0
Bromoform, ug/l		<5.0
Bromomethane, ug/l		<10
n-Butylbenzene, ug/l		<5.0
sec-Butylbenzene, ug/l		<5.0
tert-Butylbenzene, ug/l		<5.0
Carbon Tetrachloride, ug/l		<3.0
Chlorobenzene, ug/l		<5.0
Chloroethane, ug/l		<10
Chloroform, ug/l		<5.0
Chloromethane, ug/l		<10
Chlorotoluene, ug/l		<5.0
4-Chlorotoluene, ug/l		<5.0
Chlorodibromomethane, ug/l		<5.0
1,2-Dibromo-3-chloropropane, ug/l		<5.0
1,2-Dibromoethane (EDB), ug/l		<5.0
Dibromomethane, ug/l		<5.0
1,2-Dichlorobenzene, ug/l		<5.0
1,3-Dichlorobenzene, ug/l		<5.0
1,4-Dichlorobenzene, ug/l		<5.0
Dichlorodifluoromethane, ug/l		<10
1,1-Dichloroethane, ug/l		<5.0





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Mr. Tony Damiano  
Dames & Moore  
1 North Dale Mabry, Suite 700  
Tampa, FL 33609

Client PO. No.: TPA-R-0200-0019

Project: 32040.015/GNB Falkenburg  
Sampled By: Client  
Code: 155000331

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
60873-1	MW-23	03-21-00/13:30
PARAMETER	60873-1	
1,2-Dichloroethane, ug/l	<3.0	
1,1-Dichloroethylene, ug/l	<5.0	
cis-1,2-Dichloroethylene, ug/l	19	
trans-1,2-Dichloroethylene, ug/l	5.0	
1,2-Dichloropropane, ug/l	<5.0	
1,3-Dichloropropane, ug/l	<5.0	
2,2-Dichloropropane, ug/l	<5.0	
1,1-Dichloropropylene, ug/l	<5.0	
cis-1,3-Dichloropropene, ug/l	<5.0	
trans-1,3-Dichloropropene, ug/l	<5.0	
Ethylbenzene, ug/l	<5.0	
Hexachlorobutadiene, ug/l	<5.0	
Isopropylbenzene, ug/l	<5.0	
4-Isopropyltoluene, ug/l	<5.0	
Methylene Chloride, ug/l	<5.0	
Naphthalene, ug/l	<5.0	
n-Propylbenzene , ug/l	<5.0	
Styrene, ug/l	<5.0	
1,1,1,2-Tetrachloroethane, ug/l	<5.0	
1,1,2,2-Tetrachloroethane, ug/l	<5.0	
Tetrachloroethylene, ug/l	<3.0	
Toluene, ug/l	<5.0	
1,2,3-Trichlorobenzene, ug/l	<5.0	
1,2,4-Trichlorobenzene, ug/l	<5.0	
1,1,1-Trichloroethane, ug/l	<5.0	
1,1,2-Trichloroethane, ug/l	<5.0	



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Tampa, FL 33609

Client PO. No.: TPA-R-0200-0019

Project: 32040.015/GNB Falkenburg  
Sampled By: Client  
Code: 155000331

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
60873-1	MW-23	03-21-00/13:30
PARAMETER	60873-1	
Trichloroethylene, ug/l	<3.0	
Trichlorofluoromethane, ug/l	<5.0	
1,2,3-Trichloropropane, ug/l	<5.0	
1,2,4-Trimethylbenzene, ug/l	<5.0	
1,3,5-Trimethylbenzene, ug/l	<5.0	
Vinyl Chloride, ug/l	<1.0	
o-Xylene, ug/l	<5.0	
m-Xylene, ug/l	<5.0	
p-Xylene, ug/l	<5.0	
Acetone, ug/l	<50	
2-Butanone (MEK), ug/l	<25	
4-methyl-2-pentanone (MIBK), ug/l	<25	
Carbon Disulfide, ug/l	<5.0	
Aluminum, mg/l	110	
Aluminum (Dissolved), mg/l	<0.20	
Iron, mg/l	67	
Iron (Dissolved), mg/l	0.092	
Lead, mg/l	0.21	
Lead (Dissolved), mg/l	<0.0050	
Sulfate as SO4 (375.4), mg/l	340	
Total Dissolved Solids (160.1), mg/l	1000	



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Project: 32040.015/GNB Falkenburg  
Sampled By: Client  
Code: 155000331

REPORT OF RESULTS

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LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED			
60873-2	Method Blank				
60873-3	Accuracy (%Rec)				
60873-4	Precision (%RPD)				
60873-5	Prep Date				
60873-6	Date Analyzed				
PARAMETER	60873-2	60873-3	60873-4	60873-5	60873-6
Aluminum, mg/l	<0.20	99 %	4.4 %	03.24.00	03.30.00
Aluminum (Dissolved), mg/l	<0.20	99 %	4.4 %	03.24.00	03.30.00
Iron (Dissolved), mg/l	<0.050	100 %	7.9 %	03.24.00	03.30.00
Iron, mg/l	<0.050	100 %	7.9 %	03.24.00	03.30.00
Lead, mg/l	<0.0050	100 %	2.9 %	03.24.00	03.30.00
Lead (Dissolved), mg/l	<0.0050	100 %	2.9 %	03.24.00	03.30.00
Sulfate as SO4 (375.4), mg/l	<5.0	104 %	11 %	---	03.28.00
Total Dissolved Solids (160.1), mg/l	<5.0	98 %	0.20 %	---	03.22.00



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Client PO. No.: TPA-R-0200-0019

Project: 32040.015/GNB Falkenburg  
Sampled By: Client  
Code: 155000331

REPORT OF RESULTS

Page 5

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED			
60873-2	Method Blank				
60873-3	Accuracy (%Rec)				
60873-4	Precision (%RPD)				
60873-5	Prep Date				
60873-6	Date Analyzed				
PARAMETER	60873-2	60873-3	60873-4	60873-5	60873-6
Volatile Organic Compounds (8260)					
Benzene, ug/l	<1.0	93 %	11 %	---	3.30.00
Bromobenzene, ug/l	<5.0	---	---	---	3.30.00
Bromochloromethane, ug/l	<5.0	---	---	---	3.30.00
Bromodichloromethane, ug/l	<5.0	---	---	---	3.30.00
Bromoform, ug/l	<5.0	---	---	---	3.30.00
Bromomethane, ug/l	<10	---	---	---	3.30.00
n-Butylbenzene, ug/l	<5.0	---	---	---	3.30.00
sec-Butylbenzene, ug/l	<5.0	---	---	---	3.30.00
tert-Butylbenzene, ug/l	<5.0	---	---	---	3.30.00
Carbon Tetrachloride, ug/l	<3.0	---	---	---	3.30.00
Chlorobenzene, ug/l	<5.0	88 %	4.5 %	---	3.30.00
Chloroethane, ug/l	<10	---	---	---	3.30.00
Chloroform, ug/l	<5.0	---	---	---	3.30.00
Chloromethane, ug/l	<10	---	---	---	3.30.00
Chlorotoluene, ug/l	<5.0	---	---	---	3.30.00
4-Chlorotoluene, ug/l	<5.0	---	---	---	3.30.00
Chlorodibromomethane, ug/l	<5.0	---	---	---	3.30.00
1,2-Dibromo-3-chloropropane, ug/l	<5.0	---	---	---	3.30.00
1,2-Dibromoethane (EDB), ug/l	<5.0	---	---	---	3.30.00
Dibromomethane, ug/l	<5.0	---	---	---	3.30.00
1,2-Dichlorobenzene, ug/l	<5.0	---	---	---	3.30.00



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Dames & Moore  
1 North Dale Mabry, Suite 700  
Tampa, FL 33609

Client PO. No.: TPA-R-0200-0019

Project: 32040.015/GNB Falkenburg  
Sampled By: Client  
Code: 162300331

REPORT OF RESULTS

Page 6

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED			
60873-2	Method Blank				
60873-3	Accuracy (%Rec)				
60873-4	Precision (%RPD)				
60873-5	Prep Date				
60873-6	Date Analyzed				
PARAMETER	60873-2	60873-3	60873-4	60873-5	60873-6
1,3-Dichlorobenzene, ug/l	<5.0	---	---	---	3.30.00
1,4-Dichlorobenzene, ug/l	<5.0	---	---	---	3.30.00
Dichlorodifluoromethane, ug/l	<10	---	---	---	3.30.00
1,1-Dichloroethane, ug/l	<5.0	---	---	---	3.30.00
1,2-Dichloroethane, ug/l	<3.0	---	---	---	3.30.00
1,1-Dichloroethylene, ug/l	<5.0	90 %	13 %	---	3.30.00
cis-1,2-Dichloroethylene, ug/l	<5.0	---	---	---	3.30.00
trans-1,2-Dichloroethylene, ug/l	<5.0	---	---	---	3.30.00
1,2-Dichloropropane, ug/l	<5.0	---	---	---	3.30.00
1,3-Dichloropropane, ug/l	<5.0	---	---	---	3.30.00
2,2-Dichloropropane, ug/l	<5.0	---	---	---	3.30.00
1,1-Dichloropropylene, ug/l	<5.0	---	---	---	3.30.00
cis-1,3-Dichloropropene, ug/l	<5.0	---	---	---	3.30.00
trans-1,3-Dichloropropene, ug/l	<5.0	---	---	---	3.30.00
Ethylbenzene, ug/l	<5.0	---	---	---	3.30.00
Hexachlorobutadiene, ug/l	<5.0	---	---	---	3.30.00
Isopropylbenzene, ug/l	<5.0	---	---	---	3.30.00
4-Isopropyltoluene, ug/l	<5.0	---	---	---	3.30.00
Methylene Chloride, ug/l	<5.0	---	---	---	3.30.00
Naphthalene, ug/l	<5.0	---	---	---	3.30.00
n-Propylbenzene , ug/l	<5.0	---	---	---	3.30.00
Styrene, ug/l	<5.0	---	---	---	3.30.00



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LOG NO: B0-60873  
Received: 22 MAR 00  
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Mr. Tony Damiano  
Dames & Moore  
1 North Dale Mabry, Suite 700  
Tampa, FL 33609

Client PO. No.: TPA-R-0200-0019

Project: 32040.015/GNB Falkenburg  
Sampled By: Client  
Code: 155000331

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED			
60873-2	Method Blank				
60873-3	Accuracy (%Rec)				
60873-4	Precision (%RPD)				
60873-5	Prep Date				
60873-6	Date Analyzed				
PARAMETER	60873-2	60873-3	60873-4	60873-5	60873-6
1,1,1,2-Tetrachloroethane, ug/l	<5.0	---	---	---	3.30.00
1,1,2,2-Tetrachloroethane, ug/l	<5.0	---	---	---	3.30.00
Tetrachloroethylene, ug/l	<3.0	---	---	---	3.30.00
Toluene, ug/l	<5.0	85 %	2.4 %	---	3.30.00
1,2,3-Trichlorobenzene, ug/l	<5.0	---	---	---	3.30.00
1,2,4-Trichlorobenzene, ug/l	<5.0	---	---	---	3.30.00
1,1,1-Trichloroethane, ug/l	<5.0	---	---	---	3.30.00
1,1,2-Trichloroethane, ug/l	<5.0	---	---	---	3.30.00
Trichloroethylene, ug/l	<3.0	86 %	4.7 %	---	3.30.00
Trichlorofluoromethane, ug/l	<5.0	---	---	---	3.30.00
1,2,3-Trichloropropane, ug/l	<5.0	---	---	---	3.30.00
1,2,4-Trimethylbenzene, ug/l	<5.0	---	---	---	3.30.00
1,3,5-Trimethylbenzene, ug/l	<5.0	---	---	---	3.30.00
Vinyl Chloride, ug/l	<1.0	---	---	---	3.30.00
o-Xylene, ug/l	<5.0	---	---	---	3.30.00
m-Xylene, ug/l	<5.0	---	---	---	3.30.00
p-Xylene, ug/l	<5.0	---	---	---	3.30.00
Acetone, ug/l	<50	---	---	---	3.30.00
2-Butanone (MEK), ug/l	<25	---	---	---	3.30.00
4-methyl-2-pentanone (MIBK), ug/l	<25	---	---	---	3.30.00
Carbon Disulfide, ug/l	<5.0	---	---	---	3.30.00

Method: EPA SW-846  
DOH Certification #'s: E84282

ARW

Andre Rachmaninoff, Project Manager



**ORIGINAL**

**APPENDIX D**

**WELL SAMPLING  
FIELD DATA SHEETS**



# WELL SAMPLING FIELD DATA SHEET

DATE: 2-23-00	USER'S NAME: EP	CITY: TAMPA
COMPANY NAME: GNB FAIK.	RCI PROJECT NO. 32040.015	STATE: FL

## INITIAL FIELD CALIBRATION

pH Meter No.: _____ Serial No.: _____	Purge Cal. Buffers	4	7	10	Temp °C
	Sample	4	7	10	Temp °C
Conductivity Meter No.: _____ Serial No.: _____	Purge	Temp <sup>1</sup> °C	Table	Meter	Cf
	Sample	Temp °C	Table	Meter	Cf
Turbidity Meter No.: _____ Serial No.: _____	Purge Cal. Solution <sup>2</sup>	0.00	20.0	100	800
	Sample	0.00	20.0	100	800

DATE: _____ WELL INFORMATION								CALIBRATION FOR WELL VOLUME $\pi r^2$ (Water Column x 7.481)		
Well No.	Top of Casing Elevation (Feet)	Well Depth (Bottom) (Feet)	Water Level (Feet)	Water Level Elevation (Feet)	Water Column (Feet)	Volume of Water in Casing (Gal.)	Min. Volume to be Purged (Gal.)	2" Well	4" Well	6" Well
MW-1		18.84	3.96					$r^2 = 0.0069$	$r^2 = 0.0278$	$r^2 = 0.0625$
								$\pi = x 3.14$	$\pi = x 3.14$	$\pi = x 3.14$
Well Casing Construction: PVC								0.220	0.087	0.196
Well Casing Diameter: 2"								Gal = x 7.48	Gal = x 7.48	Gal = x 7.48
								0.165	0.653	1.47
								Water Column x 2.46	Water Column x	Water Column x
								Well Volumes x 3 7.37	Well Volumes x 3	Well Volumes x 3
								Min. Volume to be Purged 7.37	Min. Volume to be Purged	Min. Volume to be Purged

- <sup>1</sup> Orion meters are temperature compensated to 25°C. Meter should be set to 1408 at 25°C ± 5°C. Cole Parmer meters are temperature compensated to 25°C. YSI meter must have a correction factor of 1.00 ± 0.5%. Also, the temperature must be corrected manually. Check calibration manual for further details.
- <sup>2</sup> Turbidity Meter must be set according to the lab assigned calibration NTU's values for each standard.
- <sup>3</sup> Field measurements must stabilize to within 5% before purging is complete or 3 volumes, whichever is greater.

DATE: _____ PURGE INFORMATION								DATE: _____ SAMPLING INFORMATION				
Purged Volume (Gal)	Time Purged (Min.)	Actual Time Purged Dg	Field Temp (°C)	Field pH <sup>3</sup>	Field Conductivity <sup>3</sup> (µmhos)	Field Turbidity <sup>3</sup> (NTU)		Time Sampled Dg	Field Temp (°C)	Field pH	Field Conductivity (µmhos)	Field Turbidity <sup>3</sup> (NTU)
5	45	12.8	73.0	4.85	43	.90		9.0	71.8	4.13	42	.60
6		8.7	72.1	4.19	42	.88		1:27P 9.5	71.3	4.07	42	.53
7		9.0	71.8	4.13	42	.60						
8		9.5	71.3	4.07	42	.53						
One Point Final Check								One Point Final Check				
Signature of Field Technician: [Signature]								Signature of Field Technician:				
Lab Manager Approval:								Lab Manager Approval:				

## WELL SAMPLING FIELD DATA SHEET

DATE: 2-23-00

USER'S NAME: FB.

CITY: TAMPA

COMPANY NAME: GNB FAIR.

RCI PROJECT NO. 32040.015

STATE: FL

## INITIAL FIELD CALIBRATION

pH Meter No.: _____	Serial No.: _____	Purge Cal. Buffers	4	7	10	Temp °C
		Sample	4	7	10	Temp °C
Conductivity Meter No.: _____	Serial No.: _____	Purge	Temp <sup>1</sup> °C	Table	Meter	Cf
		Sample	Temp °C	Table	Meter	Cf
Turbidity Meter No.: _____	Serial No.: _____	Purge Cal. Solution <sup>2</sup>	0.00	20.0	100	800
		Sample	0.00	20.0	100	800

## DATE: WELL INFORMATION

CALIBRATION FOR WELL VOLUME  
 $\pi r^2$  (Water Column x 7.481)

Well No.	Top of Casing Elevation (Feet)	Well Depth (Bottom) (Feet)	Water Level (Feet)	Water Level Elevation (Feet)	Water Column (Feet)	Volume of Water in Casing (Gal.)	Min. Volume to be Purged (Gal.)	2" Well	4" Well	6" Well
MW-2		10.27	4.29					$r^2 = 0.0069$	$r^2 = 0.0278$	$r^2 = 0.0625$
DUP								$\pi = x 3.14$	$\pi = x 3.14$	$\pi = x 3.14$
Well Casing Construction: PVC								0.220	0.087	0.196
Well Casing Diameter: 2" BROKEN CAP								Gal = x 7.48	Gal = x 7.48	Gal = x 7.48
								0.165	0.653	1.47
								Water Column x 1.0	Water Column x	Water Column x
								Well Volumes x 3 3.0	Well Volumes x 3	Well Volumes x 3
								Min. Volume to be Purged 3.0	Min. Volume to be Purged	Min. Volume to be Purged

- <sup>1</sup> Orion meters are temperature compensated to 25°C. Meter should be set to 1408 at 25°C ± 5°C. Cole Parmer meters are temperature compensated to 25°C. YSI meter must have a correction factor of 1.00 ± 0.5%. Also, the temperature must be corrected manually. Check calibration manual for further details.
- <sup>2</sup> Turbidity Meter must be set according to the lab assigned calibration NTU's values for each standard.
- <sup>3</sup> Field measurements must stabilize to within 5% before purging is complete or 3 volumes, whichever is greater.

## DATE: PURGE INFORMATION

## DATE: SAMPLING INFORMATION

Purged Volume (Gal)	Time Purged (Min.)	Actual Time Purged <sup>3</sup>	Field Temp (°C)	Field pH <sup>3</sup>	Field Conductivity <sup>3</sup> (µmhos)	Field Turbidity <sup>3</sup> (NTU)	Time Sampled <sup>3</sup>	Field Temp (°C)	Field pH	Field Conductivity (µmhos)	Field Turbidity <sup>3</sup> (NTU)
2	20	11.6	73.8	3.84	103	5.61	6.8	73.1	3.63	97	3.43
3		11.1	75.0	3.67	106	7.12	2:42P 4.3	72.2	3.59	99	2.51
4		6.8	73.1	3.63	97	3.43					
5		4.3	72.2	3.59	99	2.51					
		ALSO	DUP								
One Point Final Check							One Point Final Check				

Signature of Field Technician: *[Signature]*

Signature of Field Technician:

Lab Manager Approval:

Lab Manager Approval:

## WELL SAMPLING FIELD DATA SHEET

DATE: 2-22-00

USER'S NAME: FR

CITY: TAMPA

COMPANY NAME: GNB FAIK.

RCI PROJECT NO. 32040.015

STATE: FL

## INITIAL FIELD CALIBRATION

pH Meter No.: _____	Serial No.: _____	Purge Cal. Buffers	4	7	10	Temp °C
		Sample	4	7	10	Temp °C
Conductivity Meter No.: _____	Serial No.: _____	Purge	Temp <sup>1</sup> °C	Table	Meter	Cf
		Sample	Temp °C	Table	Meter	Cf
Turbidity Meter No.: _____	Serial No.: _____	Purge Cal. Solution <sup>2</sup>	0.00	20.0	100	800
		Sample	0.00	20.0	100	800

DATE:

## WELL INFORMATION

## CALIBRATION FOR WELL VOLUME

 $\pi r^2$  (Water Column x 7.481)

Well No.	Top of Casing Elevation (Feet)	Well Depth (Bottom) (Feet)	Water Level (Feet)	Water Level Elevation (Feet)	Water Column (Feet)	Volume of Water in Casing (Gal.)	Min. Volume to be Purged (Gal.)	2" Well	4" Well	6" Well
MW-3A		14.35	5.19					$r^2 = 0.0069$	$r^2 = 0.0278$	$r^2 = 0.0625$
DUP								$\pi = x 3.14$	$\pi = x 3.14$	$\pi = x 3.14$
Well Casing Construction: PVC								0.220	0.087	0.196
Well Casing Diameter: 2"								Gal = x 7.48	Gal = x 7.48	Gal = x 7.48
								0.165	0.653	1.47
								Water Column x 1.5	Water Column x	Water Column x
								Well Volumes x 3 4.5	Well Volumes x 3	Well Volumes x 3
								Min. Volume to be Purged 4.5	Min. Volume to be Purged	Min. Volume to be Purged

- <sup>1</sup> Orion meters are temperature compensated to 25°C. Meter should be set to 1408 at 25°C ± 5°C. Cole Parmer meters are temperature compensated to 25°C. YSI meter must have a correction factor of 1.00 ± 0.5%. Also, the temperature must be corrected manually. Check calibration manual for further details.
- <sup>2</sup> Turbidity Meter must be set according to the lab assigned calibration NTU's values for each standard.
- <sup>3</sup> Field measurements must stabilize to within 5% before purging is complete or 3 volumes, whichever is greater.

DATE:

## PURGE INFORMATION

DATE:

## SAMPLING INFORMATION

Purged Volume (Gal)	Time Purged (Min.)	Actual Time Purged <sup>3</sup>	Field Temp (°C)	Field pH <sup>3</sup>	Field Conductivity <sup>3</sup> (µmhos)	Field Turbidity <sup>3</sup> (NTU)	Time Sampled <sup>3</sup>	Field Temp (°C)	Field pH	Field Conductivity (µmhos)	Field Turbidity <sup>3</sup> (NTU)
2	20		11.6	73.0	517	114		12.9	73.1	518	26.0
3			12.9	72.4	531	33.4	12:12P	9.1	72.3	513	24.9
4			12.9	73.1	555	26.0					
5		12:12P	9.1	72.3	513	24.9					
One Point Final Check							One Point Final Check				

Signature of Field Technician:

Lab Manager Approval:

Signature of Field Technician:

Lab Manager Approval:

## WELL SAMPLING FIELD DATA SHEET

DATE: 2-22-00

USER'S NAME: FR

CITY: TAMPA

COMPANY NAME: GNB

RCI PROJECT NO. 32040.015

STATE: FL

## INITIAL FIELD CALIBRATION

pH Meter No.:	Serial No.:	Purge Cal. Buffers	4	7	10	Temp	°C
		Sample	4	7	10	Temp	°C
Conductivity Meter No.:	Serial No.:	Purge	Temp <sup>1</sup>	°C	Table	Meter	Cf
		Sample	Temp	°C	Table	Meter	Cf
Turbidity Meter No.:	Serial No.:	Purge Cal. Solution <sup>2</sup>	0.00	20.0	100	800	
		Sample	0.00	20.0	100	800	

## DATE: WELL INFORMATION

CALIBRATION FOR WELL VOLUME  
 $\pi r^2$  (Water Column x 7.481)

Well No.	Top of Casing Elevation (Feet)	Well Depth (Bottom) (Feet)	Water Level (Feet)	Water Level Elevation (Feet)	Water Column (Feet)	Volume of Water in Casing (Gal.)	Min. Volume to be Purged (Gal.)	2" Well	4" Well	6" Well
MW-4		11-42	7.29					$r^2 = 0.0069$	$r^2 = 0.0278$	$r^2 = 0.0625$
								$\pi = x 3.14$	$\pi = x 3.14$	$\pi = x 3.14$
								0.220	0.087	0.196
								Gal = x 7.48	Gal = x 7.48	Gal = x 7.48
								0.165	0.653	1.47
								Water Column x .67	Water Column x	Water Column x
								Well Volumes x 3 2.0	Well Volumes x 3	Well Volumes x 3
								Min. Volume to be Purged 2.0	Min. Volume to be Purged	Min. Volume to be Purged

Well Casing Construction:

Well Casing Diameter:

- <sup>1</sup> Orion meters are temperature compensated to 25°C. Meter should be set to 1408 at 25°C ± 5°C. Cole Parmer meters are temperature compensated to 25°C. YSI meter must have a correction factor of 1.00 ± 0.5%. Also, the temperature must be corrected manually. Check calibration manual for further details.
- <sup>2</sup> Turbidity Meter must be set according to the lab assigned calibration NTU's values for each standard.
- <sup>3</sup> Field measurements must stabilize to within 5% before purging is complete or 3 volumes, whichever is greater.

## DATE: PURGE INFORMATION

## DATE: SAMPLING INFORMATION

Purged Volume (Gal)	Time Purged (Min.)	Actual Time Purged Do	Field Temp (°C)	Field pH <sup>3</sup>	Field Conductivity <sup>3</sup> (µmhos)	Field Turbidity <sup>3</sup> (NTU)	Time Sampled Do	Field Temp (°C)	Field pH	Field Conductivity (µmhos)	Field Turbidity <sup>3</sup> (NTU)
2.0		13.0	72.0	5.71	200	87.8	18.4	74.0	5.55	181	2.26
3.0		11.8	73.5	5.59	192	1.73	9:40A 17.6	73.4	5.58	190	2.31
4.0		18.4	74.0	5.55	181	2.26					
5.0		17.6	73.4	5.58	190	2.31					
One Point Final Check							One Point Final Check				

Signature of Field Technician:

Lab Manager Approval:

Signature of Field Technician:

Lab Manager Approval:



## WELL SAMPLING FIELD DATA SHEET

DATE: 2-21-00 USER'S NAME: FB CITY: TAMPA  
 COMPANY NAME: GNB RCI PROJECT NO. 32040015 STATE: FL

## INITIAL FIELD CALIBRATION

pH Meter No.: _____	Serial No.: _____	Purge Cal. Buffers	4	7	10	Temp °C
		Sample	4	7	10	Temp °C
Conductivity Meter No.: _____	Serial No.: _____	Purge	Temp <sup>1</sup> °C	Table	Meter	Cf
		Sample	Temp °C	Table	Meter	Cf
Turbidity Meter No.: _____	Serial No.: _____	Purge Cal. Solution <sup>2</sup>	0.00	20.0	100	800
		Sample	0.00	20.0	100	800

## DATE: WELL INFORMATION

## CALIBRATION FOR WELL VOLUME

 $\pi r^2$  (Water Column x 7.481)

Well No.	Top of Casing Elevation (Feet)	Well Depth (Bottom) (Feet)	Water Level (Feet)	Water Level Elevation (Feet)	Water Column (Feet)	Volume of Water in Casing (Gal.)	Min. Volume to be Purged (Gal.)	2" Well	4" Well	6" Well
<u>MW-6</u>		<u>11.31</u>	<u>4.02</u>					$r^2 = 0.0069$	$r^2 = 0.0278$	$r^2 = 0.0625$
								$\pi = x 3.14$	$\pi = x 3.14$	$\pi = x 3.14$
								<u>0.220</u>	<u>0.087</u>	<u>0.196</u>
								Gal = $x 7.48$	Gal = $x 7.48$	Gal = $x 7.48$
								<u>0.165</u>	<u>0.653</u>	<u>1.47</u>
								Water Column x <u>1.16</u>	Water Column x	Water Column x
								Well Volumes x 3 <u>3.5</u>	Well Volumes x 3	Well Volumes x 3
								Min. Volume to be Purged <u>3.5</u>	Min. Volume to be Purged	Min. Volume to be Purged

Well Casing Construction:

Well Casing Diameter:

- <sup>1</sup> Orion meters are temperature compensated to 25°C. Meter should be set to 1408 at 25°C ± 5°C. Cole Parmer meters are temperature compensated to 25°C. YSI meter must have a correction factor of 1.00 ± 0.5%. Also, the temperature must be corrected manually. Check calibration manual for further details.
- <sup>2</sup> Turbidity Meter must be set according to the lab assigned calibration NTU's values for each standard.
- <sup>3</sup> Field measurements must stabilize to within 5% before purging is complete or 3 volumes, whichever is greater.

## DATE: PURGE INFORMATION

## DATE: SAMPLING INFORMATION

Purged Volume (Gal)	Time Purged (Min.)	Actual Time Purged	Field Temp (°C)	Field pH <sup>3</sup>	Field Conductivity <sup>3</sup> (µmhos)	Field Turbidity <sup>3</sup> (NTU)	Time Sampled	Field Temp (°C)	Field pH	Field Conductivity (µmhos)	Field Turbidity <sup>3</sup> (NTU)
<u>2</u>	<u>20</u>	<u>8.0</u>	<u>75.7</u>	<u>6.60</u>	<u>199</u>	<u>1.48</u>	<u>5.9</u>	<u>72.6</u>	<u>5.62</u>	<u>195</u>	<u>1.28</u>
<u>4</u>	<u>6.3</u>		<u>71.8</u>	<u>5.90</u>	<u>197</u>	<u>2.17</u>	<u>3:50P/9.7</u>	<u>70.7</u>	<u>5.60</u>	<u>196</u>	<u>.85</u>
<u>5</u>	<u>5.9</u>		<u>72.6</u>	<u>5.62</u>	<u>195</u>	<u>1.28</u>					
<u>6</u>			<u>70.7</u>	<u>5.60</u>	<u>196</u>	<u>.85</u>					
One Point Final Check							One Point Final Check				

Signature of Field Technician:

Lab Manager Approval:

Signature of Field Technician:

Lab Manager Approval:

## WELL SAMPLING FIELD DATA SHEET

DATE: 2-21-00	USER'S NAME: FB	CITY: TAMPA
COMPANY NAME: GNB	RCI PROJECT NO. 32040.015	STATE: FL

## INITIAL FIELD CALIBRATION

pH Meter No.: _____ Serial No.: _____	Purge Cal. Buffers	4	7	10	Temp °C
	Sample	4	7	10	Temp °C
Conductivity Meter No.: _____ Serial No.: _____	Purge	Temp °C	Table	Meter	Cf
	Sample	Temp °C	Table	Meter	Cf
Turbidity Meter No.: _____ Serial No.: _____	Purge Cal. Solution <sup>2</sup>	0.00	20.0	100	800
	Sample	0.00	20.0	100	800

## DATE: 2-21-00 WELL INFORMATION

Well No.	Top of Casing Elevation (Feet)	Well Depth (Bottom) (Feet)	Water Level (Feet)	Water Level Elevation (Feet)	Water Column (Feet)	Volume of Water in Casing (Gal.)	Min. Volume to be Purged (Gal.)
MW-7		14.58'	3.82				

Well Casing Construction: PVC

Well Casing Diameter: 2"

## CALIBRATION FOR WELL VOLUME

 $\pi r^2$  (Water Column x 7.481)

2" Well	4" Well	6" Well
$r^2 =$ 0.0069	$r^2 =$ 0.0278	$r^2 =$ 0.0625
$\pi =$ x 3.14	$\pi =$ x 3.14	$\pi =$ x 3.14
0.220	0.087	0.196
Gal = x 7.48	Gal = x 7.48	Gal = x 7.48
0.165	0.653	1.47
Water Column x 1.77	Water Column x	Water Column x
Well Volumes x 3 5.33	Well Volumes x 3	Well Volumes x 3
Min. Volume to be Purged 5.33	Min. Volume to be Purged	Min. Volume to be Purged

- <sup>1</sup> Orion meters are temperature compensated to 25°C. Meter should be set to 1408 at 25°C ± 5°C. Cole Parmer meters are temperature compensated to 25°C. YSI meter must have a correction factor of 1.00 ± 0.5%. Also, the temperature must be corrected manually. Check calibration manual for further details.
- <sup>2</sup> Turbidity Meter must be set according to the lab assigned calibration NTU's values for each standard.
- <sup>3</sup> Field measurements must stabilize to within 5% before purging is complete or 3 volumes, whichever is greater.

## DATE: PURGE INFORMATION

Purged Volume (Gal)	Time Purged (Min.)	Actual Time Purged DO	Field Temp (°C)	Field pH <sup>3</sup>	Field Conductivity <sup>3</sup> (µmhos)	Field Turbidity <sup>3</sup> (NTU)
2	20		7.1	77.0	5.62	320
4			5.9	76.7	5.33	313
5			4.0	76.5	5.21	309
6			7.2	75.6	5.15	316

One Point Final Check

Signature of Field Technician:

Lab Manager Approval:

## DATE: SAMPLING INFORMATION

Time Sampled DO	Field Temp (°C)	Field pH	Field Conductivity (µmhos)	Field Turbidity <sup>3</sup> (NTU)
4.0	76.5	5.21	309	2.06
4:43P/7.2	75.6	5.15	316	1.44

One Point Final Check

Signature of Field Technician:

Lab Manager Approval:

## WELL SAMPLING FIELD DATA SHEET

DATE: 2-21-00	USER'S NAME: FB	CITY: TAMPA
COMPANY NAME: GNB	RCI PROJECT NO. 32040-015	STATE: FL

## INITIAL FIELD CALIBRATION

pH Meter No.: _____ Serial No.: _____	Purge Cal. Buffers	4	7	10	Temp °C
	Sample	4	7	10	Temp °C
Conductivity Meter No.: _____ Serial No.: _____	Purge	Temp °C	Table	Meter	Cf
	Sample	Temp °C	Table	Meter	Cf
Turbidity Meter No.: _____ Serial No.: _____	Purge Cal. Solution <sup>2</sup>	0.00	20.0	100	800
	Sample	0.00	20.0	100	800

## DATE: WELL INFORMATION

## CALIBRATION FOR WELL VOLUME

 $\pi r^2$  (Water Column x 7.481)

Well No.	Top of Casing Elevation (Feet)	Well Depth (Bottom) (Feet)	Water Level (Feet)	Water Level Elevation (Feet)	Water Column (Feet)	Volume of Water in Casing (Gal.)	Min. Volume to be Purged (Gal.)	2" Well	4" Well	6" Well
mw-8		14.38	5.57					$r^2 = 0.0069$	$r^2 = 0.0278$	$r^2 = 0.0625$
								$\pi = x 3.14$	$\pi = x 3.14$	$\pi = x 3.14$
Well Casing Construction:								0.220	0.087	0.196
Well Casing Diameter:								Gal = x 7.48	Gal = x 7.48	Gal = x 7.48
								0.165	0.653	1.47
								Water Column x 1.41	Water Column x	Water Column x
								Well Volumes x 3 4.22	Well Volumes x 3	Well Volumes x 3
								Min. Volume to be Purged 4.22	Min. Volume to be Purged	Min. Volume to be Purged

- <sup>1</sup> Orion meters are temperature compensated to 25°C. Meter should be set to 1408 at 25°C ± 5°C. Cole Palmer meters are temperature compensated to 25°C. YSI meter must have a correction factor of 1.00 ± 0.5%. Also, the temperature must be corrected manually. Check calibration manual for further details.
- <sup>2</sup> Turbidity Meter must be set according to the lab assigned calibration NTU's values for each standard.
- <sup>3</sup> Field measurements must stabilize to within 5% before purging is complete or 3 volumes, whichever is greater.

## DATE: PURGE INFORMATION

## DATE: SAMPLING INFORMATION

Purged Volume (Gal)	Time Purged (Min.)	Actual Time Purged	Field Temp (°C)	Field pH <sup>3</sup>	Field Conductivity <sup>3</sup> (µmhos)	Field Turbidity <sup>3</sup> (NTU)	Time Sampled	Field Temp (°C)	Field pH	Field Conductivity (µmhos)	Field Turbidity <sup>3</sup> (NTU)
2	20		13.4	68.7	5.73	268	15.5	69.6	5.79	269	88.2
3			9.3	66.9	5.72	275	6:17	67.1	5.67	262	87.8
4			15.5	69.6	5.79	269					
5			9.0	67.1	5.67	262					
One Point Final Check							One Point Final Check				

Signature of Field Technician: *[Signature]*

Signature of Field Technician:

Lab Manager Approval:

Lab Manager Approval:



## WELL SAMPLING FIELD DATA SHEET

DATE: 2-23-00	USER'S NAME: FB.	CITY: TAMPA
COMPANY NAME: GNB FALK.	RCI PROJECT NO. 32040.015	STATE: FL

## INITIAL FIELD CALIBRATION

pH Meter No.: _____ Serial No.: _____	Purge Cal. Buffers	4	7	10	Temp °C
	Sample	4	7	10	Temp °C
Conductivity Meter No.: _____ Serial No.: _____	Purge	Temp <sup>1</sup> °C	Table	Meter	Cf
	Sample	Temp °C	Table	Meter	Cf
Turbidity Meter No.: _____ Serial No.: _____	Purge Cal. Solution <sup>2</sup>	0.00	20.0	100	800
	Sample	0.00	20.0	100	800

## DATE: WELL INFORMATION

Well No.	Top of Casing Elevation (Feet)	Well Depth (Bottom) (Feet)	Water Level (Feet)	Water Level Elevation (Feet)	Water Column (Feet)	Volume of Water in Casing (Gal.)	Min. Volume to be Purged (Gal.)
MW-9		14.58	4.93				

Well Casing Construction: PVC

Well Casing Diameter: 2"

## CALIBRATION FOR WELL VOLUME

 $\pi r^2$  (Water Column x 7.481)

2" Well	4" Well	6" Well
$r^2 =$ 0.0069	$r^2 =$ 0.0278	$r^2 =$ 0.0625
$\pi =$ x 3.14	$\pi =$ x 3.14	$\pi =$ x 3.14
0.220	0.087	0.196
Gal = x 7.48	Gal = x 7.48	Gal = x 7.48
0.165	0.653	1.47
Water Column x 1.59	Water Column x	Water Column x
Well Volumes x 3 4.78	Well Volumes x 3	Well Volumes x 3
Min. Volume to be Purged 4.78	Min. Volume to be Purged	Min. Volume to be Purged

- <sup>1</sup> Orion meters are temperature compensated to 25°C. Meter should be set to 1408 at 25°C ± 5°C. Cole Parmer meters are temperature compensated to 25°C. YSI meter must have a correction factor of 1.00 ± 0.5%. Also, the temperature must be corrected manually. Check calibration manual for further details.
- <sup>2</sup> Turbidity Meter must be set according to the lab assigned calibration NTU's values for each standard.
- <sup>3</sup> Field measurements must stabilize to within 5% before purging is complete or 3 volumes, whichever is greater.

## DATE: PURGE INFORMATION

Purged Volume (Gal)	Time Purged (Min.)	Actual Time Purged	Field Temp <sup>3</sup> (°C)	Field pH <sup>3</sup>	Field Conductivity <sup>3</sup> (µmhos)	Field Turbidity <sup>3</sup> (NTU)
2	20	9.7	73.0	5.93	104	5.36
3		6.0	72.1	6.36	101	5.40
4		6.3	71.9	6.33	100	18.02
5		6.1	72.1	5.61	122	103
7		5.9	71.7	5.08	132	137

One Point Final Check

Signature of Field Technician:

Lab Manager Approval:

## DATE: SAMPLING INFORMATION

Time Sampled	Field Temp (°C)	Field pH	Field Conductivity (µmhos)	Field Turbidity <sup>3</sup> (NTU)
6.1	72.1	5.61	122	103
5:40P 5.9	71.7	5.08	132	137

One Point Final Check

Signature of Field Technician:

Lab Manager Approval:



## WELL SAMPLING FIELD DATA SHEET

DATE: 2-23-00	USER'S NAME: FB	CITY: TAMPA
COMPANY NAME: GNB FAIR	RCI PROJECT NO. 32040.015	STATE: FL

## INITIAL FIELD CALIBRATION

pH Meter No.: _____ Serial No.: _____	Purge Cal. Buffers	4	7	10	Temp °C
	Sample	4	7	10	Temp °C
Conductivity Meter No.: _____ Serial No.: _____	Purge	Temp °C	Table	Meter	Cf
	Sample	Temp °C	Table	Meter	Cf
Turbidity Meter No.: _____ Serial No.: _____	Purge Cal. Solution <sup>2</sup>	0.00	20.0	100	800
	Sample	0.00	20.0	100	800

## DATE: WELL INFORMATION

CALIBRATION FOR WELL VOLUME  
 $\pi r^2$  (Water Column x 7.481)

Well No.	Top of Casing Elevation (Feet)	Well Depth (Bottom) (Feet)	Water Level (Feet)	Water Level Elevation (Feet)	Water Column (Feet)	Volume of Water in Casing (Gal.)	Min. Volume to be Purged (Gal.)	2" Well	4" Well	6" Well
MW-11		14.39	4.04					$r^2 = 0.0069$	$r^2 = 0.0278$	$r^2 = 0.0625$
								$\pi = x 3.14$	$\pi = x 3.14$	$\pi = x 3.14$
								0.220	0.087	0.196
								Gal = x 7.48	Gal = x 7.48	Gal = x 7.48
								0.165	0.653	1.47
								Water Column x 1.7	Water Column x	Water Column x
								Well Volumes x 3 5.12	Well Volumes x 3	Well Volumes x 3
								Min. Volume to be Purged 5.12	Min. Volume to be Purged	Min. Volume to be Purged

Well Casing Construction: PVC

Well Casing Diameter: 2"

<sup>1</sup> Orion meters are temperature compensated to 25°C. Meter should be set to 1408 at 25°C ± 5°C. Cole Parmer meters are temperature compensated to 25°C. YSI meter must have a correction factor of 1.00 ± 0.5%. Also, the temperature must be corrected manually. Check calibration manual for further details.

<sup>2</sup> Turbidity Meter must be set according to the lab assigned calibration NTU's values for each standard.

<sup>3</sup> Field measurements must stabilize to within 5% before purging is complete or 3 volumes, whichever is greater.

## DATE: PURGE INFORMATION

## DATE: SAMPLING INFORMATION

Purged Volume (Gal)	Time Purged (Min.)	Actual Time Purged <sup>pc</sup>	Field Temp (°C)	Field pH <sup>1</sup>	Field Conductivity <sup>2</sup> (µmhos)	Field Turbidity <sup>3</sup> (NTU)	Time Sampled <sup>pc</sup>	Field Temp (°C)	Field pH	Field Conductivity (µmhos)	Field Turbidity <sup>3</sup> (NTU)
3.5	30.50	5.0	75.3	3.56	182	>1000	7.2	74.1	3.51	143	254
4.7		5.4	74.7	3.58	150	438	4:20P 7.0	74.7	3.54	136	130
5.9		3.9	72.9	3.53	151	371					
6.10		7.2	74.1	3.51	143	254					
12		7.0	74.7	3.54	136	130					
One Point Final Check							One Point Final Check				
Signature of Field Technician: <i>Francis J. Blarney</i>							Signature of Field Technician:				
Lab Manager Approval:							Lab Manager Approval:				



WELL SAMPLING FIELD DATA SHEET

DATE: 2-22-00	USER'S NAME: FR	CITY: TAMPA
COMPANY NAME: GNR	RCI PROJECT NO. 32040.015	STATE: FL

INITIAL FIELD CALIBRATION

pH Meter No.: _____ Serial No.: _____	Purge Cal. Buffers	4 4.07	7 6.99	10 9.92	Temp °C
	Sample	4	7	10	Temp °C
Conductivity Meter No.: _____ Serial No.: _____	Purge	Temp °C	Table	Meter	Cf
	Sample	Temp °C	Table	Meter	Cf
Turbidity Meter No.: _____ Serial No.: _____	Purge Cal. Solution <sup>2</sup>	0.00	20.0	100	800
	Sample	0.00	20.0	100	800

WELL INFORMATION								CALIBRATION FOR WELL VOLUME $\pi r^2$ (Water Column x 7.481)		
Well No.	Top of Casing Elevation (Feet)	Well Depth (Bottom) (Feet)	Water Level (Feet)	Water Level Elevation (Feet)	Water Column (Feet)	Volume of Water in Casing (Gal.)	Min. Volume to be Purged (Gal.)	2" Well	4" Well	6" Well
1112-13		37.21	17.63					$r^2 = 0.0069$	$r^2 = 0.0278$	$r^2 = 0.0625$
Well Casing Construction: PVC								$\pi = x 3.14$	$\pi = x 3.14$	$\pi = x 3.14$
Well Casing Diameter: 2"								0.220	0.087	0.196
								Gal = x 7.48	Gal = x 7.48	Gal = x 7.48
								0.165	0.653	1.47
<sup>1</sup> Orion meters are temperature compensated to 25°C. Meter should be set to 1408 at 25°C ± 5°C. Cole Parmer meters are temperature compensated to 25°C. YSI meter must have a correction factor of 1.00 ± 0.5%. Also, the temperature must be corrected manually. Check calibration manual for further details. <sup>2</sup> Turbidity Meter must be set according to the lab assigned calibration NTU's values for each standard. <sup>3</sup> Field measurements must stabilize to within 5% before purging is complete or 3 volumes, whichever is greater.								Water Column x 3.23	Water Column x	Water Column x
								Well Volumes x 3 9.7	Well Volumes x 3	Well Volumes x 3
								Min. Volume to be Purged 9.7	Min. Volume to be Purged	Min. Volume to be Purged

PURGE INFORMATION								SAMPLING INFORMATION					
Purged Volume (Gal)	Time Purged (Min.)	Actual Time Purged	Field Temp (°C)	Field pH <sup>3</sup>	Field Conductivity <sup>3</sup> (µmhos)	Field Turbidity <sup>3</sup> (NTU)		Time Sampled	Field Temp (°C)	Field pH	Field Conductivity (µmhos)	Field Turbidity <sup>3</sup> (NTU)	
5	40		10.0	72.9	7.50	312		10.6	77.8	7.50	345	1.11	
7			12.8	76.2	7.51	337		11:12	79	78.0	7.54	342	0.66
9			10.6	77.8	7.50	345							
10			7.9	78.0	7.54	342							
One Point Final Check								One Point Final Check					
Signature of Field Technician: [Signature]								Signature of Field Technician:					
Lab Manager Approval:								Lab Manager Approval:					

WELL SAMPLING FIELD DATA SHEET

DATE: <b>2-21-00</b>	USER'S NAME: <b>F.B.</b>	CITY: <b>TAMPA</b>
COMPANY NAME: <b>GNB</b>	RCI PROJECT NO. <b>32040.015</b>	STATE: <b>FL</b>

INITIAL FIELD CALIBRATION

pH Meter No.: _____ Serial No.: _____	Purge Cal. Buffers	4	7	10	Temp °C
	Sample	4	7	10	Temp °C
Conductivity Meter No.: _____ Serial No.: _____	Purge	Temp <sup>1</sup> °C	Table	Meter	Cf
	Sample	Temp °C	Table	Meter	Cf
Turbidity Meter No.: _____ Serial No.: _____	Purge Cal. Solution <sup>2</sup>	0.00	20.0	100	800
	Sample	0.00	20.0	100	800

DATE: <b>2-21-00</b> WELL INFORMATION								CALIBRATION FOR WELL VOLUME <small>π r<sup>2</sup> (Water Column x 7.481)</small>		
Well No.	Top of Casing Elevation (Feet)	Well Depth (Bottom) (Feet)	Water Level (Feet)	Water Level Elevation (Feet)	Water Column (Feet)	Volume of Water in Casing (Gal.)	Min. Volume to be Purged (Gal.)	2" Well	4" Well	6" Well
<b>mw-14</b>		<b>41.34</b>	<b>14.57</b>					r <sup>2</sup> = 0.0069 π = x 3.14 0.220 Gal = x 7.48 0.165	r <sup>2</sup> = 0.0278 π = x 3.14 0.087 Gal = x 7.48 0.653	r <sup>2</sup> = 0.0625 π = x 3.14 0.196 Gal = x 7.48 1.47
Well Casing Construction: Well Casing Diameter: <sup>1</sup> Orion meters are temperature compensated to 25°C. Meter should be set to 1408 at 25°C ± 5°C. Cole Parmer meters are temperature compensated to 25°C. YSI meter must have a correction factor of 1.00 ± 0.5%. Also, the temperature must be corrected manually. Check calibration manual for further details. <sup>2</sup> Turbidity Meter must be set according to the lab assigned calibration NTU's values for each standard. <sup>3</sup> Field measurements must stabilize to within 5% before purging is complete or 3 volumes, whichever is greater.								Water Column x <b>4.28</b>	Water Column x	Water Column x
								Well Volumes x 3 <b>12.85</b>	Well Volumes x 3	Well Volumes x 3
								Min. Volume to be Purged <b>12.85</b>	Min. Volume to be Purged	Min. Volume to be Purged

DATE: _____ PURGE INFORMATION							DATE: _____ SAMPLING INFORMATION				
Purged Volume (Gal)	Time Purged (Min.)	Actual Time Purged	Field Temp (°C)	Field pH <sup>3</sup>	Field Conductivity <sup>1</sup> (µmhos)	Field Turbidity <sup>3</sup> (NTU)	Time Sampled	Field Temp (°C)	Field pH	Field Conductivity (µmhos)	Field Turbidity <sup>3</sup> (NTU)
<b>6</b>	<b>30</b>	<b>18.6</b>	<b>85.0</b>	<b>11.67</b>	<b>2390</b>	<b>71.3</b>		<b>78.9</b>	<b>10.82</b>	<b>472</b>	<b>32.9</b>
<b>8</b>	<b>45</b>	<b>14.8</b>	<b>82.1</b>	<b>11.34</b>	<b>1392</b>	<b>50.9</b>	<b>3:08P</b>	<b>77.6</b>	<b>10.65</b>	<b>417</b>	<b>30.2</b>
<b>10</b>	<b>60</b>	<b>12.4</b>	<b>82.3</b>	<b>11.12</b>	<b>833</b>	<b>39.5</b>					
<b>12</b>	<b>75</b>	<b>11.5</b>	<b>78.9</b>	<b>10.82</b>	<b>472</b>	<b>32.9</b>					
<b>13</b>		<b>10.3</b>									
One Point Final Check							One Point Final Check				
Signature of Field Technician: <i>[Signature]</i>							Signature of Field Technician:				
Lab Manager Approval:							Lab Manager Approval:				

## WELL SAMPLING FIELD DATA SHEET

DATE: 2-22-00	USER'S NAME: FB	CITY: TAMPA
COMPANY NAME: GNB FAIR	RCI PROJECT NO. 32040.015	STATE: FL

## INITIAL FIELD CALIBRATION

pH Meter No.: _____ Serial No.: _____	Purge Cal. Buffers	4	7	10	Temp °C
	Sample	4	7	10	Temp °C
Conductivity Meter No.: _____ Serial No.: _____	Purge	Temp °C	Table	Meter	Cf
	Sample	Temp °C	Table	Meter	Cf
Turbidity Meter No.: _____ Serial No.: _____	Purge Cal. Solution <sup>2</sup>	0.00	20.0	100	800
	Sample	0.00	20.0	100	800

## DATE: WELL INFORMATION

CALIBRATION FOR WELL VOLUME  
 $\pi r^2$  (Water Column x 7.481)

Well No.	Top of Casing Elevation (Feet)	Well Depth (Bottom) (Feet)	Water Level (Feet)	Water Level Elevation (Feet)	Water Column (Feet)	Volume of Water in Casing (Gal.)	Min. Volume to be Purged (Gal.)	2" Well	4" Well	6" Well
mw-15		42.41	17.43					$r^2 = 0.0069$	$r^2 = 0.0278$	$r^2 = 0.0625$
								$\pi = x 3.14$	$\pi = x 3.14$	$\pi = x 3.14$
								0.220	0.087	0.196
								Gal = x 7.48	Gal = x 7.48	Gal = x 7.48
								0.165	0.653	1.47
								Water Column x 4.12	Water Column x	Water Column x
								Well Volumes x 3 12.37	Well Volumes x 3	Well Volumes x 3
								Min. Volume to be Purged 12.37	Min. Volume to be Purged	Min. Volume to be Purged

Well Casing Construction: PVC

Well Casing Diameter: 2"

- <sup>1</sup> Orion meters are temperature compensated to 25°C. Meter should be set to 1408 at 25°C ± 5°C. Cole Parmer meters are temperature compensated to 25°C. YSI meter must have a correction factor of 1.00 ± 0.5%. Also, the temperature must be corrected manually. Check calibration manual for further details.
- <sup>2</sup> Turbidity Meter must be set according to the lab assigned calibration NTU's values for each standard.
- <sup>3</sup> Field measurements must stabilize to within 5% before purging is complete or 3 volumes, whichever is greater.

## DATE: PURGE INFORMATION

## DATE: SAMPLING INFORMATION

Purged Volume (Gal)	Time Purged (Min.)	Actual Time Purged	Field Temp (°C)	Field pH <sup>3</sup>	Field Conductivity <sup>3</sup> (µmhos)	Field Turbidity <sup>3</sup> (NTU)	Time Sampled	Field Temp (°C)	Field pH	Field Conductivity (µmhos)	Field Turbidity <sup>3</sup> (NTU)	
7	55		11.4	81.5	11.60	277	6.93	10.8	77.1	11.40	184	4.57
9			8.7	79.3	11.50	231	5.18	5:55 11.9	76.0	11.33	165	4.06
11			10.8	77.1	11.40	184	4.57					
13			11.9	76.0	11.33	165	4.06					
One Point Final Check							One Point Final Check					
Signature of Field Technician: [Signature]							Signature of Field Technician:					
Lab Manager Approval:							Lab Manager Approval:					

## WELL SAMPLING FIELD DATA SHEET

DATE: 2-22-00

USER'S NAME: FB

CITY: TAMPA FL

COMPANY NAME: GNB FALK

RCI PROJECT NO. 32040.015

STATE: FL

## INITIAL FIELD CALIBRATION

pH Meter No.: _____	Serial No.: _____	Purge Cal. Buffers	4	7	10	Temp °C
		Sample	4	7	10	Temp °C
Conductivity Meter No.: _____	Serial No.: _____	Purge	Temp <sup>1</sup> °C	Table	Meter	Cf
		Sample	Temp °C	Table	Meter	Cf
Turbidity Meter No.: _____	Serial No.: _____	Purge Cal. Solution <sup>2</sup>	0.00	20.0	100	800
		Sample	0.00	20.0	100	800

## DATE: WELL INFORMATION

CALIBRATION FOR WELL VOLUME  
 $\pi r^2$  (Water Column x 7.481)

Well No.	Top of Casing Elevation (Feet)	Well Depth (Bottom) (Feet)	Water Level (Feet)	Water Level Elevation (Feet)	Water Column (Feet)	Volume of Water in Casing (Gal.)	Min. Volume to be Purged (Gal.)	2" Well	4" Well	6" Well
MW-16		14.46	3.98					r <sup>2</sup> = 0.0069	r <sup>2</sup> = 0.0278	r <sup>2</sup> = 0.0625
								π = x 3.14	π = x 3.14	π = x 3.14
Well Casing Construction: P/C								0.220	0.087	0.196
Well Casing Diameter: 2"								Gal = x 7.48	Gal = x 7.48	Gal = x 7.48
<sup>1</sup> Orion meters are temperature compensated to 25°C. Meter should be set to 1408 at 25°C ± 5°C. Cole Parmer meters are temperature compensated to 25°C. YSI meter must have a correction factor of 1.00 ± 0.5%. Also, the temperature must be corrected manually. Check calibration manual for further details. <sup>2</sup> Turbidity Meter must be set according to the lab assigned calibration NTU's values for each standard. <sup>3</sup> Field measurements must stabilize to within 5% before purging is complete or 3 volumes, whichever is greater.								0.165	0.653	1.47
								Water Column x 1.73	Water Column x	Water Column x
								Well Volumes x 3 5.19	Well Volumes x 3	Well Volumes x 3
								Min. Volume to be Purged	Min. Volume to be Purged	Min. Volume to be Purged

## DATE: PURGE INFORMATION

## DATE: SAMPLING INFORMATION

Purged Volume (Gal)	Time Purged (Min.)	Actual Time Purged DO	Field Temp (°C)	Field pH <sup>3</sup>	Field Conductivity <sup>3</sup> (µmhos)	Field Turbidity <sup>3</sup> (NTU)	Time Sampled	Field Temp (°C)	Field pH	Field Conductivity (µmhos)	Field Turbidity <sup>3</sup> (NTU)
3	30		7.7	72.9	7.15	51	DO				
4			7.1	72.3	6.25	48	6.3	72.4	5.90	46	4.56
5			6.3	72.4	5.90	46	6:50 PM 5.9	72.0	5.86	46	4.60
6			5.9	72.0	5.86	46					
One Point Final Check							One Point Final Check				
Signature of Field Technician: [Signature]							Signature of Field Technician:				
Lab Manager Approval:							Lab Manager Approval:				





### WELL SAMPLING FIELD DATA SHEET

DATE: <u>2-24-00</u>	USER'S NAME: <u>FB</u>	CITY: <u>AMPA</u>
COMPANY NAME: <u>CND FAIRFORD</u>	RCI PROJECT NO. <u>32040-015</u>	STATE: <u>FL</u>

### INITIAL FIELD CALIBRATION

pH Meter No.: _____	Serial No.: _____	Purge Cal. Buffers	4	7	10	Temp °C
		Sample	4	7	10	Temp °C
Conductivity Meter No.: _____	Serial No.: _____	Purge	Temp °C	Table	Meter	Cf
		Sample	Temp °C	Table	Meter	Cf
Turbidity Meter No.: _____	Serial No.: _____	Purge Cal. Solution <sup>2</sup>	0.00	20.0	100	800
		Sample	0.00	20.0	100	800

WELL INFORMATION								CALIBRATION FOR WELL VOLUME <small>π r<sup>2</sup> (Water Column x 7.481)</small>		
Well No.	Top of Casing Elevation (Feet)	Well Depth (Bottom) (Feet)	Water Level (Feet)	Water Level Elevation (Feet)	Water Column (Feet)	Volume of Water in Casing (Gal.)	Min. Volume to be Purged (Gal.)	2" Well	4" Well	6" Well
<u>18</u>		<u>42.31</u>	<u>19.10</u>					$r^2 = 0.0069$ $\pi = \times 3.14$ 0.220 Gal = $\times 7.48$ <u>23.21</u> $\times$ 0.165	$r^2 = 0.0278$ $\pi = \times 3.14$ 0.087 Gal = $\times 7.48$ 0.653	$r^2 = 0.0625$ $\pi = \times 3.14$ 0.196 Gal = $\times 7.48$ 1.47
Well Casing Construction: <u>PVC</u>								Water Column x <u>3.83</u>	Water Column x	Water Column x
Well Casing Diameter: <u>2"</u>								Well Volumes x 3 <u>11.5</u>	Well Volumes x 3	Well Volumes x 3
<sup>1</sup> Orion meters are temperature compensated to 25°C. Meter should be set to 1408 at 25°C ± 5°C. Cole Parmer meters are temperature compensated to 25°C. YSI meter must have a correction factor of 1.00 ± 0.5%. Also, the temperature must be corrected manually. Check calibration manual for further details. <sup>2</sup> Turbidity Meter must be set according to the lab assigned calibration NTU's values for each standard. <sup>3</sup> Field measurements must stabilize to within 5% before purging is complete or 3 volumes, whichever is greater.								Min. Volume to be Purged <u>11.5</u>	Min. Volume to be Purged	Min. Volume to be Purged

PURGE INFORMATION							SAMPLING INFORMATION				
Purged Volume (Gal)	Time Purged (Min.)	Actual Time Purged <small>DO</small>	Field Temp (°C)	Field pH <sup>3</sup>	Field Conductivity <sup>3</sup> (µmhos)	Field Turbidity <sup>3</sup> (NTU)	Time Sampled <small>DO</small>	Field Temp (°C)	Field pH	Field Conductivity (µmhos)	Field Turbidity <sup>3</sup> (NTU)
<u>9</u>			<u>14.9</u>	<u>79.9</u>	<u>6.62</u>	<u>51</u>		<u>12.8</u>	<u>77.7</u>	<u>7.10</u>	<u>50</u>
<u>10</u>			<u>14.1</u>	<u>77.1</u>	<u>7.05</u>	<u>50</u>	<u>3:40P</u>	<u>12.6</u>	<u>78.1</u>	<u>7.15</u>	<u>51</u>
<u>11</u>			<u>12.8</u>	<u>77.7</u>	<u>7.10</u>	<u>50</u>					
<u>12</u>			<u>12.6</u>	<u>78.1</u>	<u>7.15</u>	<u>51</u>					
One Point Final Check							One Point Final Check				
Signature of Field Technician: <u>[Signature]</u>							Signature of Field Technician:				
Lab Manager Approval:							Lab Manager Approval:				

## WELL SAMPLING FIELD DATA SHEET

DATE: 2-22-00

USER'S NAME: FB

CITY: TAMPA

COMPANY NAME: GNB FAIK

RCI PROJECT NO. 32040.015

STATE: FL

## INITIAL FIELD CALIBRATION

pH Meter No.:	Serial No.:	Purge Cal. Buffers	4	7	10	Temp	°C
		Sample	4	7	10	Temp	°C
Conductivity Meter No.:	Serial No.:	Purge	Temp <sup>1</sup>	°C	Table	Meter	Cf
		Sample	Temp	°C	Table	Meter	Cf
Turbidity Meter No.:	Serial No.:	Purge Cal. Solution <sup>2</sup>	0.00	20.0	100	800	
		Sample	0.00	20.0	100	800	

## DATE: WELL INFORMATION

## CALIBRATION FOR WELL VOLUME

 $\pi r^2$  (Water Column x 7.481)

Well No.	Top of Casing Elevation (Feet)	Well Depth (Bottom) (Feet)	Water Level (Feet)	Water Level Elevation (Feet)	Water Column (Feet)	Volume of Water in Casing (Gal.)	Min. Volume to be Purged (Gal.)	2" Well	4" Well	6" Well
mw-19		49.41	19.36					$r^2 = 0.0069$	$r^2 = 0.0278$	$r^2 = 0.0625$
								$\pi = x 3.14$	$\pi = x 3.14$	$\pi = x 3.14$
								0.220	0.087	0.196
Well Casing Construction: PVC								Gal = x 7.48	Gal = x 7.48	Gal = x 7.48
Well Casing Diameter: 2"								0.165	0.653	1.47
<sup>1</sup> Orion meters are temperature compensated to 25°C. Meter should be set to 1408 at 25°C ± 5°C. Cole Parmer meters are temperature compensated to 25°C. YSI meter must have a correction factor of 1.00 ± 0.5%. Also, the temperature must be corrected manually. Check calibration manual for further details. <sup>2</sup> Turbidity Meter must be set according to the lab assigned calibration NTU's values for each standard. <sup>3</sup> Field measurements must stabilize to within 5% before purging is complete or 3 volumes, whichever is greater.								Water Column x	Water Column x	Water Column x
								Well Volumes x 3 = 15.0	Well Volumes x 3	Well Volumes x 3
								Min. Volume to be Purged 15.0	Min. Volume to be Purged	Min. Volume to be Purged

## DATE: PURGE INFORMATION

## DATE: SAMPLING INFORMATION

Purged Volume (Gal)	Time Purged (Min.)	Actual Time Purged	DO	Field Temp (°C)	Field pH <sup>3</sup>	Field Conductivity <sup>3</sup> (µmhos)	Field Turbidity <sup>3</sup> (NTU)	Time Sampled	DO	Field Temp (°C)	Field pH	Field Conductivity (µmhos)	Field Turbidity (NTU)
9	60		13.4	84.7	7.56	506	2.70		12.0	81.2	7.24	47	1.63
11			15.3	84.0	7.38	49	1.86	3:50P	13.4	82.0	7.30	47	1.19
13			12.0	81.2	7.24	47	1.63						
15		3:50P	13.4	82.0	7.30	47	1.19						
One Point Final Check								One Point Final Check					

Signature of Field Technician:

Lab Manager Approval:

Signature of Field Technician:

Lab Manager Approval:

## WELL SAMPLING FIELD DATA SHEET

DATE: 2-21-00

USER'S NAME: FB

CITY: TAMPA

COMPANY NAME: GNB

RCI PROJECT NO. 32040.015

STATE: FL

## INITIAL FIELD CALIBRATION

pH Meter No.:	Serial No.:	Purge Cal. Buffers	4	7	10	Temp °C
		Sample	4	7	10	Temp °C
Conductivity Meter No.:	Serial No.:	Purge	Temp <sup>1</sup> °C	Table	Meter	Cf
		Sample	Temp °C	Table	Meter	Cf
Turbidity Meter No.:	Serial No.:	Purge Cal. Solution <sup>2</sup>	0.00	20.0	100	800
		Sample	0.00	20.0	100	800

DATE: 2-21-00

## WELL INFORMATION

CALIBRATION FOR WELL VOLUME  
 $\pi r^2$  (Water Column x 7.481)

Well No.	Top of Casing Elevation (Feet)	Well Depth (Bottom) (Feet)	Water Level (Feet)	Water Level Elevation (Feet)	Water Column (Feet)	Volume of Water in Casing (Gal.)	Min. Volume to be Purged (Gal.)	2" Well	4" Well	6" Well
MW-20		14.40	3.65					$r^2 = 0.0069$ $\pi = x 3.14$ 0.220 Gal = 1.77 x 7.48	$r^2 = 0.0278$ $\pi = x 3.14$ 0.087 Gal = x 7.48	$r^2 = 0.0625$ $\pi = x 3.14$ 0.196 Gal = x 7.48
Well Casing Construction: PVC								0.165	0.653	1.47
Well Casing Diameter: 2"								Water Column x 1.77	Water Column x	Water Column x
								Well Volumes x 3 5.32	Well Volumes x 3	Well Volumes x 3
								Min. Volume to be Purged 5.32	Min. Volume to be Purged	Min. Volume to be Purged

<sup>1</sup> Orion meters are temperature compensated to 25°C. Meter should be set to 1408 at 25°C ± 5°C. Cole Parmer meters are temperature compensated to 25°C. YSI meter must have a correction factor of 1.00 ± 0.5%. Also, the temperature must be corrected manually. Check calibration manual for further details.

<sup>2</sup> Turbidity Meter must be set according to the lab assigned calibration NTU's values for each standard.

<sup>3</sup> Field measurements must stabilize to within 5% before purging is complete or 3 volumes, whichever is greater.

## DATE: PURGE INFORMATION

## DATE: SAMPLING INFORMATION

Purged Volume (Gal)	Time Purged (Min.)	Actual Time Purged	Field Temp <sup>3</sup> (°C)	Field pH <sup>3</sup>	Field Conductivity <sup>3</sup> (µmhos)	Field Turbidity <sup>3</sup> (NTU)	Time Sampled	Field Temp <sup>3</sup> (°C)	Field pH	Field Conductivity (µmhos)	Field Turbidity <sup>3</sup> (NTU)
3	25	7.9	74.5	5.80	495	7.34	5.3	71.9	5.64	516	3.64
4		6.6	72.4	5.71	512	4.72	5:35 3.5	70.2	5.60	496	3.52
5		5.3	71.9	5.64	516	3.64					
6		3.5	70.2	5.60	496	3.52					
One Point Final Check											

Signature of Field Technician:

Lab Manager Approval:

Signature of Field Technician:

Lab Manager Approval:

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INITIAL FIELD CALIBRATION						
pH Meter No.: _____ Serial No.: _____	Purge Cal. Buffers	4 4.05	7 6.97	10 9.94	Temp	°C
	Sample	4	7	10	Temp	°C
Conductivity Meter No.: _____ Serial No.: _____	Purge	Temp <sup>1</sup> °C	Table	Meter	Cf	
	Sample	Temp °C	Table	Meter	Cf	
Turbidity Meter No.: _____ Serial No.: _____	Purge Cal. Solution <sup>2</sup>	0.00	20.0	100	800	
	Sample	0.00	20.0	100	800	

DATE:		PURGE INFORMATION					
Purged Volume (Gal)	Time Purged (Min.)	Actual Time Purged	Field Temp (°C)	Field pH	Field Conductivity (µmhos)	Field Turbidity (NTU)	
2.0	20	11:30 A	83.3	5.30	79x90.	18.9	
4.0	37	11:44	78.7	5.05	1997	9.63	
6.0	23.3	12:05	78.6	4.90	7650	1.82	
8.0	23.8	12:45	78.8	4.85	180	1.10	
One Point Final Check							
Signature of Field Technician: <i>[Signature]</i>							
Lab Manager Approval:							

DATE:		SAMPLING INFORMATION				
Time Sampled	Field Temp (°C)	Field pH	Field Conductivity (µmhos)	Field Turbidity (NTU)		
23.3	78.6	4.90	7650	1.82		
12:45 23.8	78.8	4.85	x180	1.10		
23.6						
One Point Final Check						
Signature of Field Technician: <i>[Signature]</i>						
Lab Manager Approval:						

## WELL SAMPLING FIELD DATA SHEET

DATE: 2-23-00 USER'S NAME: FB CITY: TAMPA  
 COMPANY NAME: GNB FAIRBURN RURL RCI PROJECT NO. 32040.015 STATE: FL

## INITIAL FIELD CALIBRATION

pH Meter No.: _____	Serial No.: _____	Purge Cal. Buffers	4	7	10	Temp °C
		Sample	4	7	10	Temp °C
Conductivity Meter No.: _____	Serial No.: _____	Purge	Temp <sup>1</sup> °C	Table	Meter	Cf
		Sample	Temp °C	Table	Meter	Cf
Turbidity Meter No.: _____	Serial No.: _____	Purge Cal. Solution <sup>2</sup>	0.00	20.0	100	800
		Sample	0.00	20.0	100	800

## DATE: WELL INFORMATION

CALIBRATION FOR WELL VOLUME  
 $\pi r^2$  (Water Column x 7.481)

Well No.	Top of Casing Elevation (Feet)	Well Depth (Bottom) (Feet)	Water Level (Feet)	Water Level Elevation (Feet)	Water Column (Feet)	Volume of Water in Casing (Gal.)	Min. Volume to be Purged (Gal.)	2" Well	4" Well	6" Well
MW-22		14.76	14.61					$r^2 = 0.0069$	$r^2 = 0.0278$	$r^2 = 0.0625$
(C.u.)		(DRY)						$\pi = x 3.14$	$\pi = x 3.14$	$\pi = x 3.14$
Well Casing Construction:								0.220	0.087	0.196
Well Casing Diameter:								Gal = x 7.48	Gal = x 7.48	Gal = x 7.48
								0.165	0.653	1.47
								Water Column x	Water Column x	Water Column x
								Well Volumes x 3	Well Volumes x 3	Well Volumes x 3
								Min. Volume to be Purged	Min. Volume to be Purged	Min. Volume to be Purged

- <sup>1</sup> Orion meters are temperature compensated to 25°C. Meter should be set to 1408 at 25°C ± 5°C. Cole Parmer meters are temperature compensated to 25°C. YSI meter must have a correction factor of 1.00 ± 0.5%. Also, the temperature must be corrected manually. Check calibration manual for further details.
- <sup>2</sup> Turbidity Meter must be set according to the lab assigned calibration NTU's values for each standard.
- <sup>3</sup> Field measurements must stabilize to within 5% before purging is complete or 3 volumes, whichever is greater.

## DATE: PURGE INFORMATION

## DATE: SAMPLING INFORMATION

Purged Volume (Gal)	Time Purged (Min.)	Actual Time Purged	Field Temp (°C)	Field pH <sup>3</sup>	Field Conductivity <sup>3</sup> (µmhos)	Field Turbidity <sup>3</sup> (NTU)	Time Sampled	Field Temp (°C)	Field pH	Field Conductivity (µmhos)	Field Turbidity (NTU)
	DRY										
One Point Final Check							One Point Final Check				
Signature of Field Technician: <i>James R. Parker</i>						Signature of Field Technician:					
Lab Manager Approval:						Lab Manager Approval:					

## WELL SAMPLING FIELD DATA SHEET

DATE: 3-21-06 USER'S NAME: F.J. BOHORQUEZ CITY: TAMPA, FL  
 COMPANY NAME: D & M RCI PROJECT NO. STATE: FL

## INITIAL FIELD CALIBRATION

pH Meter No.: _____	Serial No.: _____	Purge Cal. Buffers	4 4.01	7 7.05	10 10.06	Temp °C
		Sample	4	7	10	Temp °C
Conductivity Meter No.: _____	Serial No.: _____	Purge	Temp <sup>1</sup> °C	Table	Meter	Cf
		Sample	Temp °C	Table	Meter	Cf
Turbidity Meter No.: _____	Serial No.: _____	Purge Cal. Solution <sup>2</sup>	0.00	20.0	100	800
		Sample	0.00	20.0	100	800

## DATE: WELL INFORMATION

CALIBRATION FOR WELL VOLUME  
 $\pi r^2$  (Water Column x 7.481)

Well No.	Top of Casing Elevation (Feet)	Well Depth (Bottom) (Feet)	Water Level (Feet)	Water Level Elevation (Feet)	Water Column (Feet)	Volume of Water in Casing (Gal.)	Min. Volume to be Purged (Gal.)	2" Well	4" Well	6" Well
23		51.26'	18.70					$r^2 = 0.0069$	$r^2 = 0.0278$	$r^2 = 0.0625$
								$\pi = x 3.14$	$\pi = x 3.14$	$\pi = x 3.14$
Well Casing Construction: PVC								0.220	0.087	0.196
Well Casing Diameter: 2"								Gal = x 7.48	Gal = x 7.48	Gal = x 7.48
								0.165	0.653	1.47
								Water Column x	Water Column x	Water Column x
								Well Volumes x 3 16.12	Well Volumes x 3	Well Volumes x 3
								Min. Volume to be Purged 16.12	Min. Volume to be Purged	Min. Volume to be Purged

- <sup>1</sup> Orion meters are temperature compensated to 25°C. Meter should be set to 1408 at 25°C ± 5°C. Cole Parmer meters are temperature compensated to 25°C. YSI meter must have a correction factor of 1.00 ± 0.5%. Also, the temperature must be corrected manually. Check calibration manual for further details.
- <sup>2</sup> Turbidity Meter must be set according to the lab assigned calibration NTU's values for each standard.
- <sup>3</sup> Field measurements must stabilize to within 5% before purging is complete or 3 volumes, whichever is greater.

## DATE: PURGE INFORMATION

## DATE: SAMPLING INFORMATION

Purged Volume (Gal)	Time Purged (Min.)	Actual Time Purged DO	Field Temp <sup>3</sup> (°C)	Field pH <sup>3</sup>	Field Conductivity <sup>3</sup> (µmhos)	Field Turbidity <sup>3</sup> (NTU)	Time Sampled	Field Temp (°C)	Field pH	Field Conductivity (µmhos)	Field Turbidity <sup>3</sup> (NTU)
11		9:40A	20.6	86.9	8.93						
13			19.4	86.7	8.96	1235					
15.0			18.5	86.3	8.85	11.95					
16.5	3.75 HRS	1:35P	17.8	85.7	8.46	1157					
One Point Final Check							One Point Final Check				

Signature of Field Technician:

Signature of Field Technician:

Lab Manager Approval:

Lab Manager Approval:

## WELL SAMPLING FIELD DATA SHEET

DATE: 2-27-00	USER'S NAME: FCS	CITY: TAMPA
COMPANY NAME: GNB TAMPA FAIR	RCI PROJECT NO. 32040.015	STATE: FL

## INITIAL FIELD CALIBRATION

pH Meter No.: _____	Serial No.: _____	Purge Cal. Buffers	4 4.04	7 7.04	10 10.01	Temp °C
		Sample	4	7	10	Temp °C
Conductivity Meter No.: _____	Serial No.: _____	Purge	Temp °C	Table	Meter	Cf
		Sample	Temp °C	Table	Meter	Cf
Turbidity Meter No.: _____	Serial No.: _____	Purge Cal. Solution <sup>2</sup>	0.00	20.0	100	800
		Sample	0.00	20.0	100	800

## DATE: WELL INFORMATION

CALIBRATION FOR WELL VOLUME  
 $\pi r^2$  (Water Column x 7.481)

Well No.	Top of Casing Elevation (Feet)	Well Depth (Bottom) (Feet)	Water Level (Feet)	Water Level Elevation (Feet)	Water Column (Feet)	Volume of Water in Casing (Gal.)	Min. Volume to be Purged (Gal.)	2" Well	4" Well	6" Well
PWS-24		78.49	20.38					$r^2 = 0.0069$	$r^2 = 0.0278$	$r^2 = 0.0625$
								$\pi = x 3.14$	$\pi = x 3.14$	$\pi = x 3.14$
								0.220	0.087	0.196
								Gal = x 7.48	Gal = x 7.48	Gal = x 7.48
								0.165	0.653	1.47
								Water Column x 9.6	Water Column x	Water Column x
								Well Volumes x 3 28.8	Well Volumes x 3	Well Volumes x 3
								Min. Volume to be Purged 28.8	Min. Volume to be Purged	Min. Volume to be Purged

Well Casing Construction: PVC

Well Casing Diameter: 2"

- <sup>1</sup> Orion meters are temperature compensated to 25°C. Meter should be set to 1408 at 25°C ± 5°C. Cole Panner meters are temperature compensated to 25°C. YSI meter must have a correction factor of 1.00 ± 0.5%. Also, the temperature must be corrected manually. Check calibration manual for further details.
- <sup>2</sup> Turbidity Meter must be set according to the lab assigned calibration NTU's values for each standard.
- <sup>3</sup> Field measurements must stabilize to within 5% before purging is complete or 3 volumes, whichever is greater.

## DATE: PURGE INFORMATION

## DATE: SAMPLING INFORMATION

Purged Volume (Gal)	Time Purged (Min.)	Actual Time Purged	Field Temp (°C)	Field pH <sup>3</sup>	Field Conductivity <sup>3</sup> (µmhos)	Field Turbidity <sup>3</sup> (NTU)	Time Sampled	Field Temp (°C)	Field pH	Field Conductivity (µmhos)	Field Turbidity <sup>3</sup> (NTU)
	140		21.0	8.2	8.49	118	5.31				
			16.2	84.6	6.66	101	4.12				
			11.8	78.6	7.75	96	3.54				
		3:10P	12.1	78.2	7.82	94	3.46				

One Point Final Check

One Point Final Check

Signature of Field Technician:

Signature of Field Technician:

Lab Manager Approval:

Lab Manager Approval:





## WELL SAMPLING FIELD DATA SHEET

DATE: 2-23-00	USER'S NAME: FB.	CITY: TAMPA
COMPANY NAME: GNB FAIR.	RCI PROJECT NO. 32040-015	STATE: FL

## INITIAL FIELD CALIBRATION

pH Meter No.: _____ Serial No.: _____	Purge Cal. Buffers	4 4.04	7 6.97	10 10.09	Temp 80.3 °C
	Sample	4	7	10	Temp °C
Conductivity Meter No.: _____ Serial No.: _____	Purge	Temp <sup>1</sup> °C	Table	Meter	Cf
	Sample	Temp °C	Table	Meter	Cf
Turbidity Meter No.: _____ Serial No.: _____	Purge Cal. Solution <sup>2</sup>	0.00	20.0	100	800
	Sample	0.00	20.0	100	800

## DATE: WELL INFORMATION

CALIBRATION FOR WELL VOLUME  
 $\pi r^2$  (Water Column x 7.481)

Well No.	Top of Casing Elevation (Feet)	Well Depth (Bottom) (Feet)	Water Level (Feet)	Water Level Elevation (Feet)	Water Column (Feet)	Volume of Water in Casing (Gal.)	Min. Volume to be Purged (Gal.)	2" Well	4" Well	6" Well
MW-4		12.66	4.95					$r^2 = 0.0069$	$r^2 = 0.0278$	$r^2 = 0.0625$
(C.U.)								$\pi = x 3.14$	$\pi = x 3.14$	$\pi = x 3.14$
Well Casing Construction: PVC								0.220	0.087	0.196
Well Casing Diameter: 2"								Gal = x 7.48	Gal = x 7.48	Gal = x 7.48
								0.165	0.653	1.47
								Water Column x 1.27	Water Column x	Water Column x
								Well Volumes x 3 3.81	Well Volumes x 3	Well Volumes x 3
								Min. Volume to be Purged 3.81	Min. Volume to be Purged	Min. Volume to be Purged

- <sup>1</sup> Orion meters are temperature compensated to 25°C. Meter should be set to 1408 at 25°C ± 5°C. Cole Parmer meters are temperature compensated to 25°C. YSI meter must have a correction factor of 1.00 ± 0.5%. Also, the temperature must be corrected manually. Check calibration manual for further details.
- <sup>2</sup> Turbidity Meter must be set according to the lab assigned calibration NTU's values for each standard.
- <sup>3</sup> Field measurements must stabilize to within 5% before purging is complete or 3 volumes, whichever is greater.

## DATE: PURGE INFORMATION

## DATE: SAMPLING INFORMATION

Purged Volume (Gal)	Time Purged (Min.)	Actual Time Purged	Field Temp <sup>3</sup> (°C)	Field pH <sup>3</sup>	Field Conductivity <sup>3</sup> (µmhos)	Field Turbidity <sup>3</sup> (NTU)	Time Sampled	Field Temp (°C)	Field pH	Field Conductivity (µmhos)	Field Turbidity <sup>3</sup> (NTU)
2	20	16.3	80.6	6.15	76	29.7	22.4	80.1	6.22	71	30.0
3		22.4	80.1	6.22	71	30.0	11:35 29.2	76.6	6.22	69	30.8
4		11:35 29.2	76.6	6.22	69	30.8		PURGED DRY TWICE			
5											
One Point Final Check							One Point Final Check				

Signature of Field Technician: *Robert J. Kelly*

Signature of Field Technician:

Lab Manager Approval:

Lab Manager Approval:

# WELL SAMPLING FIELD DATA SHEET

DATE: 2-28-00	USER'S NAME: FB	CITY: TAMPA
COMPANY NAME: GNB FAIRHURST	RCI PROJECT NO. 32040.015	STATE: FL

## INITIAL FIELD CALIBRATION

pH Meter No.: _____ Serial No.: _____	Purge Cal. Buffers	4	7	10	Temp °C
	Sample	4	7	10	Temp °C
Conductivity Meter No.: _____ Serial No.: _____	Purge	Temp <sup>1</sup> °C	Table	Meter	Cf
	Sample	Temp °C	Table	Meter	Cf
Turbidity Meter No.: _____ Serial No.: _____	Purge Cal. Solution <sup>2</sup>	0.00	20.0	100	800
	Sample	0.00	20.0	100	800

## DATE: WELL INFORMATION

## CALIBRATION FOR WELL VOLUME π r<sup>2</sup> (Water Column x 7.481)

Well No.	Top of Casing Elevation (Feet)	Well Depth (Bottom) (Feet)	Water Level (Feet)	Water Level Elevation (Feet)	Water Column (Feet)	Volume of Water In Casing (Gal.)	Min. Volume to be Purged (Gal.)	2" Well	4" Well	6" Well
FRID LAY								r <sup>2</sup> = 0.0069 π = x 3.14 0.220 Gal = x 7.48 0.165	r <sup>2</sup> = 0.0278 π = x 3.14 0.087 Gal = x 7.48 0.653	r <sup>2</sup> = 0.0625 π = x 3.14 0.196 Gal = x 7.48 1.47
Well Casing Construction:								Water Column x	Water Column x	Water Column x
Well Casing Diameter:								Well Volumes x 3	Well Volumes x 3	Well Volumes x 3
								Min. Volume to be Purged	Min. Volume to be Purged	Min. Volume to be Purged

- <sup>1</sup> Orion meters are temperature compensated to 25°C. Meter should be set to 1408 at 25°C ± 5°C. Cole Parmer meters are temperature compensated to 25°C. YSI meter must have a correction factor of 1.00 ± 0.5%. Also, the temperature must be corrected manually. Check calibration manual for further details.
- <sup>2</sup> Turbidity Meter must be set according to the lab assigned calibration NTU's values for each standard.
- <sup>3</sup> Field measurements must stabilize to within 5% before purging is complete or 3 volumes, whichever is greater.

## DATE: PURGE INFORMATION

## DATE: SAMPLING INFORMATION

Purged Volume (Gal)	Time Purged (Min.)	Actual Time Purged <sub>DO</sub>	Field Temp <sup>3</sup> (°C)	Field pH <sup>3</sup>	Field Conductivity <sup>3</sup> (µmhos)	Field Turbidity <sup>3</sup> (NTU)	Time Sampled <sub>DO</sub>	Field Temp (°C)	Field pH	Field Conductivity (µmhos)	Field Turbidity <sup>3</sup> (NTU)
	15	24.3	78.2	7.48	55	4.85	22.9	76.4	7.36	54	3.54
		23.2	76.7	7.41	56	4.01	10:10A 23.0	76.2	7.39	54	3.49
		22.9	76.4	7.36	54	3.54					
		23.0	76.2	7.39	54	3.49					
One Point Final Check							One Point Final Check				
Signature of Field Technician: <i>James J. Belcher</i>							Signature of Field Technician:				
Lab Manager Approval:							Lab Manager Approval:				

## WELL SAMPLING FIELD DATA SHEET

DATE: 2-28-00

USER'S NAME: EB

CITY: TAMPA

COMPANY NAME: GNB TAMPA FARMERS

RCI PROJECT NO. 32040.015

STATE: FL

## INITIAL FIELD CALIBRATION

pH Meter No.:	Serial No.:	Purge Cal. Buffers	4	7	10	Temp °C
		Sample	4	7	10	Temp °C
Conductivity Meter No.:	Serial No.:	Purge	Temp °C	Table	Meter	Cf
		Sample	Temp °C	Table	Meter	Cf
Turbidity Meter No.:	Serial No.:	Purge Cal. Solution <sup>2</sup>	0.00	20.0	100	800
		Sample	0.00	20.0	100	800

## DATE: WELL INFORMATION

## CALIBRATION FOR WELL VOLUME

 $\pi r^2$  (Water Column x 7.481)

Well No.	Top of Casing Elevation (Feet)	Well Depth (Bottom) (Feet)	Water Level (Feet)	Water Level Elevation (Feet)	Water Column (Feet)	Volume of Water in Casing (Gal.)	Min. Volume to be Purged (Gal.)	2" Well	4" Well	6" Well
McK Ferry		>100	23.12					$r^2 = 0.0069$	$r^2 = 0.0278$	$r^2 = 0.0625$
								$\pi = x 3.14$	$\pi = x 3.14$	$\pi = x 3.14$
Well Casing Construction:								0.220	0.087	0.196
Well Casing Diameter:								Gal = x 7.48	Gal = x 7.48	Gal = x 7.48
								0.165	0.653	1.47
								Water Column x	Water Column x	Water Column x
								Well Volumes x 3	Well Volumes x 3	Well Volumes x 3
								Min. Volume to be Purged	Min. Volume to be Purged	Min. Volume to be Purged

<sup>1</sup> Orion meters are temperature compensated to 25°C. Meter should be set to 1408 at 25°C ± 5°C. Cole Parmer meters are temperature compensated to 25°C. YSI meter must have a correction factor of 1.00 ± 0.5%. Also, the temperature must be corrected manually. Check calibration manual for further details.

<sup>2</sup> Turbidity Meter must be set according to the lab assigned calibration NTU's values for each standard.

<sup>3</sup> Field measurements must stabilize to within 5% before purging is complete or 3 volumes, whichever is greater.

## DATE: PURGE INFORMATION

## DATE: SAMPLING INFORMATION

Purged Volume (Gal)	Time Purged (Min.)	Actual Time Purged DO	Field Temp (°C)	Field pH <sup>3</sup>	Field Conductivity <sup>4</sup> (µmhos)	Field Turbidity <sup>5</sup> (NTU)	Time Sampled DO	Field Temp (°C)	Field pH	Field Conductivity (µmhos)	Field Turbidity <sup>5</sup> (NTU)
10	60		88.9	7.32	404	4.21	11.1	86.7	78.65	412	3.08
			87.1	7.70	399	4.12	12:15P/18	86.1	78.54	408	3.02
		11.1	86.7	78.65	412	3.08					
		11.8	86.1	78.54	408	3.02					
One Point Final Check											

Signature of Field Technician: *Ramon S. Lopez*

Signature of Field Technician:

Lab Manager Approval:

Lab Manager Approval:

**APPENDIX E**

**WASTE DISPOSAL MANIFEST**

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

**NON-HAZARDOUS  
WASTE MANIFEST**

1. Generator's US EPA ID No.

FLD000608083

Manifest  
Document No.

2. Page 1  
of 1

3. Generator's Name and Mailing Address  
Former GNB Battery Site-c/o D & M  
One North Dale Mabry Hwy  
Tampa, FL 33609

4. Generator's Phone ( 813 ) 387-7857

5. Transporter 1 Company Name  
FREEHOLD CARTAGE, INC.

6. US EPA ID Number  
N J D 0 5 4 1 2 6 1 6 4

A. Transporter's Phone (941) 533-4599

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

Jamson Environmental, Inc.  
11817 Elyssa Road  
Thonotosassa, FL 33592

10. US EPA ID Number

S 0 2 9 2 4 . 9 7 1 2 .

C. Facility's Phone

(813) 891-0440

11. Waste Shipping Name and Description

12. Containers

No. Type

13. Total  
Quantity

14. Unit  
Wt/Vol

a. Non-RCRA Regulated Material

003 D.M 00.165 G

b. Non-RCRA Regulated Material

025 D.M 1.7500 P

c.

d.

D. Additional Descriptions for Materials Listed Above

11a. IDW Water #E1135IW02

11b. IDW Soil and Drilling Mud #E1135SO04

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Emergency Contact: Will Horn

(813) 891-0440 SITE: Former GNB, 200 S. Falkenburg Rd., Tampa, FL

WO#002910

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

J. Bruce Carter, III Acting as agent for GNB

Signature

[Signature]

Month Day Year

03 31 00

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

JAMES A SMITH

Signature

[Signature]

Month Day Year

03 31 00

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

.

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Jay S. Haas

Signature

[Signature]

Month Day Year

04 03 00