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2007 Annual Groundwater Sampling Report Installation Restoration Sites 1, 3, 4, and Building 8 Corpus Christi Army Depot

NAS Corpus Christi
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Acronyms

AVGAS	Aviation gasoline
BTW	Base of the Well
°C	Degrees Celsius
CCAD	Corpus Christi Army Depot
Cis-1,2-dichloroethene	Cis-1,2-DCE
COC	Contaminant of Concern
DO	Dissolved Oxygen
DPDO	Defense Property Disposal Office
DTW	Depth to Water
Ft.	Feet
GAC	Granulated Activated Carbon
Gal	Gallon
GWE	Groundwater Elevation
IDW	Investigative Derived Waste
IR	Installation Restoration
µs/cm	Microsiemens per centimeter
mg/L	Milligram per liter
mV	millivolts
NA	Not Analyzed
NAS	Naval Air Station
NOR	Notice of Registration
NTU	Nephelometric Turbidity Units
O&M	Operation and Maintenance
ORP	Oxidation Reduction Potential
PCL	Protective Concentration Level
SODIV	Southern Division
TAC	Texas Administrative Code
TCE	Trichloroethene
TCEQ	Texas Commission on Environmental Quality
TERRAINE	Terraine, Inc.
TOC	Top of Casing
TRRP	Texas Risk Reduction Program
USEPA	United States Environmental Protection Agency
VOCs	Volatile Organic Compounds

Signature Page

We, the undersigned, do hereby affirm that the information contained in this report is accurate and correct to the best of our knowledge and belief.

James L. Young, PG, REM Project Manager	Date	Registration Nos.
Paul M. Shipp, PG, CHMM Program Manager	Date	Registration Nos.
Karen Baer Project Environmental Specialist	7/31/07 Date	

1.0 Introduction

TERRAINE, Inc. (TERRAINE) has prepared this report to summarize the results from the fourth annual groundwater sampling event conducted in February/June 2007 at Installation Restoration (IR) Sites 1, 3, and 4 and Building 8, Naval Air Station (NAS) Corpus Christi located in Corpus Christi, Texas. The efforts conducted at IR Sites 1, 3, and 4, also known as Notice of Registration (NOR) Unit No. 001 (Defense Property Disposal Office [DPDO] Landfill), NOR Unit No. 003 (Corpus Christi Army Depot [CCAD] Liquid Landfill), and NOR Unit No. 004 (Aircraft Fire Training Area), respectively; and Building 8, also known as CCAD, were described in the *Response Action Wells Installation Work Plan* prepared by EnSafe in October 2002. **Figure 1, Appendix A** shows the vicinity of NAS Corpus Christi and the approximate location of IR Sites 1, 3, and 4, and Building 8.

1.1 Site Description

NAS Corpus Christi is located in south Texas on the Gulf of Mexico near the city of Corpus Christi, on the Encinal Peninsula with Oso Bay to the west, Laguna Madre to the east, and Corpus Christi Bay to the north.

1.1.1 Site 1 – Defense Property Disposal Office Landfill (NOR Unit No. 001)

The DPDO landfill reportedly operated between 1949 and the early 1960s. Site 1 encompasses approximately 13 acres and is located 400 feet west-northwest of the CCAD landfill. The landfill was reportedly used for disposal of bulk chemicals generated by overhaul operations (helicopter maintenance) conducted at the CCAD. Materials disposed in the landfill reportedly included organic solvents, sulfuric and hydrochloric acids, paint remover and thinner, and plating waste. Estimated quantities of disposal range from 2,000 to 5,000 gallons per week. The site was also used to dispose of debris generated by the DPDO and the CCAD in open, shallow trenches. Exposed debris included wood, rubber, a small amount of asphalt material, brick fragments, tile, broken shingles, glass and melted aluminum. General solid waste generated by CCAD, NAS Corpus Christi and NAS Corpus Christi Housing was also disposed of in this area.

1.1.2 Site 3 – Corpus Christi Army Depot Landfill (NOR Unit No. 003)

The CCAD landfill was reportedly active between 1960 and 1972. The landfill was the primary disposal area for bulk chemical waste generated at the CCAD. Aerial photographs taken in 1967 show several pits (approximately 50 feet in diameter) located in the areas which were reportedly used as seepage pits for chemicals collected in bowsers at CCAD. Estimated quantities ranged between 2,000 and 5,000 gallons per week. These materials included organic solvents, sulfuric and hydrochloric acids, paint remover and thinner, and plating waste. The area was also used to dispose of general solid waste such as shingles, cans, concrete pipe, reinforcement rods, sheet metal, and scrap lumber. The area is characterized by a series of parallel mounds and low areas which show a two to three-foot elevation change between mounds and low areas.

1.1.3 Site 4 – Aircraft Fire Fighting Training Area (NOR Unit No. 004)

The Aircraft Fire Fighting Training Area operated from the 1960s until 1991. This site is located adjacent to the southern portion of the CCAD landfill (Site 3) over a once active non-hazardous waste landfill. The site was used to conduct training for five to six months each year. The training activities used approximately 3,000 gallons per month of waste fuel. The waste fuel, a mixture of jet fuel (JP-4) and aviation gasoline (AVGAS), was discharged to the ground and ignited for practice in extinguishing the blaze. Prior to 1973, the area was unlined; however, in 1973 a clay liner and berm were reportedly added. Since the fuel mixture was ignited after being discharged to the ground, the site was not recommended for a confirmation investigation. However, due to the close proximity to Site 3, the site was investigated for possible remedial action. The major environmental threat at this site is from hazardous materials spilled or deposited before being burned.

1.1.4 Building 8

Building 8 is leased by the CCAD which serves under the U.S. Army Material and Readiness Command. CCAD's operations include depot-level maintenance of Army aircraft and aeronautical equipment, training military personnel in depot-level maintenance, and preparing aircraft for overseas shipment. Various industrial activities are conducted within the Building 8 complex, including plating operations, parts cleaning and degreasing, bulk fuel storage, and painting.

2.0 Field Work Overview

A brief overview of the field work conducted by TERRAINE in February and June 2007 is presented in the following sections. Field activities at the site included groundwater sampling at 27 shallow monitoring wells and obtaining Global Positioning System (GPS) readings at each of these wells. Monitoring well R-2 could not be located during the February 2007 sampling event, but was located and sampled in June 2007. **Figures 2 and 3 (Appendix A)** show all monitoring wells located at the site which were sampled during these field sampling events.

2.1 Micropurge Sampling

During the February and June 2007 groundwater sampling events, the monitoring wells were sampled using micropurge sampling techniques. Groundwater samples from each well were analyzed for Volatile Organic Compounds (VOCs) using U.S. Environmental Protection Agency (USEPA) Method 8260B.

Micropurge groundwater sampling relies on a low pumping rate while purging the well to minimize disturbances within the well from water currents. This allows the inclusion of colloidal-sized particles that can be expected to naturally flow within the aquifer, while minimizing the inclusion of clay and silt particles that can artificially elevate the levels of inorganic constituents in groundwater samples. During micropurging, the drawdown in the well was carefully monitored and kept to less than three tenths of a foot and the parameters of pH, conductivity, turbidity, Dissolved Oxygen (DO), Oxidation-Reduction Potential (ORP) and temperature were monitored. When the measured parameters stabilized, the sample was collected. **Table 1, Appendix B** presents a summary of field parameter data for all wells sampled.

2.2 Groundwater Flow

Water level measurements were collected prior to groundwater sampling during the February and June 2007 sampling events. Depth to water measurements and corresponding water surface elevations are summarized in **Table 2**, **Appendix B** as well as top of casing elevations for all wells sampled. **Figures 4**, **5, 6, 7, and 8 (Appendix A)** depict groundwater elevations for the shallow aquifer at Building 8 for February 2007, January 2006, January/February 2005, January 2004, and February 2003, respectively. A review of these contour maps indicated that groundwater flow in the shallow aquifer at Building 8 was toward the northeast, with similar gradient and flow patterns for all dates. **Figures 9, 10, 11, 12, and 13 (Appendix A)** depict groundwater elevations for the shallow aquifer at IR sites 1, 3, and 4 for February 2007, January 2006, January/February 2005, January 2004, and February 2003, respectively. A review of these contour maps indicated that groundwater in the shallow aquifer at the IR Sites appeared to flow radially away from the area

near well MCC-5 for all dates. GPS readings were obtained at the wells that were sampled with the exception of monitoring wells R-2, R-13, and ES-23. R-2 could not be located during the February 2007 sampling event. Monitoring wells R-13 and ES-23 were located on the flight line; obtaining new coordinates was not permitted.

2.3 Problems Encountered

Monitoring well R-2 could not be locating during the February 2007 sampling event, but was located and sampled in June 2007. Final DO readings were not collected due to technician error for monitoring wells MCC-12 and REI-27. A final turbidity reading was not recorded for monitoring well ES-29. Chlorobenzene was detected in the equipment blank sample collected on February 21, 2007. Cis-1,2-dichloroethene and trichloroethene were detected in the equipment blank sample collected on February 22, 2007. These detections resulted in the rejection of sample data from multiple wells.

3.0 Groundwater Analytical Results

This section summarizes chemical analysis results for groundwater samples collected in February and June 2007. The full analytical results are presented in **Appendix E**, along with the accompanying chain of custody forms. In addition, all previous VOC groundwater sampling results for chlorobenzene, TCE, cis-1, 2-dichloroethene (cis-1, 2-DCE), and vinyl chloride were compiled and graphed. Natural attenuation has eliminated most of the contaminants at the site. Through reductive dechlorination, the majority of the areas affected by TCE at the site have been degraded to TCE's daughter products (cis-1, 2-DCE and vinyl chloride) by the use of natural subsurface processes such as dilution, volatilization, biodegradation, adsorption, and chemical reactions with subsurface materials. By reviewing the detected TCE, cis-1, 2-DCE, and vinyl chloride concentrations over time, one is able to observe the degradation sequence in the majority of the wells. During the reductive dechlorination process, TCE is degraded to cis-1, 2-DCE resulting in a lower TCE concentration and a higher cis-1, 2-DCE concentration. Then cis-1, 2-DCE will degrade to vinyl chloride in the same manner, and finally vinyl chloride will degrade to ethane and ethene. The Contaminant of Concern (COC) concentrations versus time graphs for wells that have had COC detections above Protective Concentration Levels (PCLs) are shown in **Appendix C**.

The following sections summarize the distribution in shallow aquifer constituents which have been identified above established background values for inorganics and Texas Commission on Environmental Quality (TCEQ) Texas Risk Reduction Program (TRRP) Tier 1 PCLs for organic compounds. Background values are taken from a letter written by Halff Associates dated June 24, 1998 in response to TNRCC comments to the *RCRA Background Investigation*, dated November 1996, and *Addendum to the RCRA Background Investigation for Naval Air Station Corpus Christi, Texas*, dated January 1998. The organic compounds are being compared to the TCEQ TRRP Tier 1 PCLs for Class 3 groundwater for commercial/industrial sites found in Table 3 of the 30 Texas Administrative Code (TAC) §350.72. **Table 3, Appendix B** presents numerical results for COCs in shallow groundwater. **Figure 14, Appendix A** illustrates the distribution of trichloroethene in the shallow aquifer at Building 8 for the February 2007 sampling event. **Figure 15, Appendix A** illustrates the distribution of chlorobenzene in the shallow aquifer at IR Sites 1, 3, and 4 based on 2007 data. **Figures 16** and **17, Appendix A** illustrate – as tag maps – the analytical results obtained for the shallow aquifer wells at Building 8 and IR Sites 1, 3, and 4, respectively. **Figures 18** and **19, Appendix A** illustrate, respectively, the current and historical distribution of cis-1, 2-dichloroethene and vinyl chloride in the shallow aquifer at IR Sites 1, 3, and 4.

3.1 Shallow Wells

In February and June, groundwater samples were collected from 27 shallow monitoring wells (ES-7, ES-13, ES-14, ES-23, ES-28, ES-29, ES-33, ES-36, ES-37, ES-46, ES-47, MCC-4, MCC-5, MCC-12, MCC-15, REI-26, REI-27, R-1, R-2, R-3, R-4, R-5, R-6, R-7, R-8, R-9, and R-13) and analyzed for VOCs. Monitoring well REI-24 was not sampled due to the presence of free product within the well.

The shallow monitor wells are divided into five areas and discussed in the following sections. Building 8 includes the wells surrounding and to the north of Building 8 (CCAD). Trenches 1, 2, and 3 each include wells associated with the trenches proposed in the *Response Action Plan Installation Restoration Sites 1, 3, and 4* (EnSafe, April 2003). The remaining area includes the monitoring wells not otherwise grouped.

3.1.1 Building 8

Monitoring wells located in the area of Building 8 include ES-7, ES-13, ES-14, ES-23, ES-28, ES-29, and R-13. Analytical results from February 2007 indicated that all COC were below the laboratory detection limit and/or TCEQ TRRP Tier I PCLs for Class 3 groundwater at a commercial/industrial site with the exception of trichloroethene in groundwater sampled from monitoring well ES-28 (4810 μg/L) and duplicate (4850 μg/L) (**Table 5, Appendix B**). Cis-1,2-dichloroethene data were rejected for monitoring wells ES-7, ES-13, ES-14, ES-23, ES-29, and R-13 due to cis-1,2-dichloroethene contamination in the associated equipment blank. Trichloroethene data were rejected for monitoring wells ES-13, ES-23, ES-29, and R-13 due to trichloroethene contamination in the associated equipment blank.

3.1.2 Trench 1

Trench 1 is located in the northwest portion of the drainage ditch. The monitoring wells located in this area are R-1, R-2, R-9, REI-26, REI-27, and ES-33. Chlorobenzene was detected above the Surface Water PCL of 64 µg/l in February 2007 in groundwater collected from wells R-9 (125 µg/l), REI-26 (264 μg/L), and REI-27 (281 µg/l) Chlorobenzene was detected above the Surface Water PCL in groundwater sampled from monitoring well R-2 (169 μg/L) in June 2007 (**Table 6, Appendix B**).

3.1.3 Trench 2

Trench 2 is located in the southwest corner of the drainage ditch. The monitoring wells located in this area are R-3, R-4, and ES-36. Chlorobenzene was detected above the Surface Water PCL of 64 µg/l in February 2007 in groundwater collected from wells R-3 (114 μg/L), R-4 (76.0 μg/L), ES-36 (190 μg/L) (**Table 6, Appendix B**).

3.1.4 Trench 3

Trench 3 is located on the south portion of the drainage ditch. The monitoring wells located in this area are R-5, R-6, MCC-15, ES-46, and ES-47. Chlorobenzene was detected above the Surface Water PCL of 64 µg/l in February 2007 in groundwater collected from wells R-5 (121 µg/L), MCC-15 (136 µg/L), ES-46 (377 µg/L), and ES-47 (72.3 µg/L). The reported chlorobenzene value for monitoring well R-6 was rejected as a result of chlorobenzene contamination in the associated equipment blank (**Table 8, Appendix B**).

3.1.5 Other Wells

The other monitoring wells located in IR Sites 1, 3, and 4 are shallow wells R-7, R-8, MCC-4, MCC-5, MCC-12 and ES-37. Chlorobenzene concentrations in groundwater sampled from monitoring well R-8 (107 µg/L) and ES-37 (82.7 µg/L) were greater than the Surface Water PCL of 64 µg/L during the February 2007 sampling event (**Table 7, Appendix B**). Ten gallons of free product were removed from monitoring well REI-27.

4.0 Conclusions

The objectives of annual sampling events conducted at IR Sites 1, 3, and 4 and Building 8 were to monitor COC in the groundwater and the natural attenuation process in conjunction with the RAP.

4.1 Shallow Groundwater

During the February 2007 annual sampling event, TCE (ES-28, 4810 μg/L; and duplicate, 4850 μg/L) was the only constituent above TCEQ TRRP Tier 1 PCLs for Class 3 groundwater at commercial/industrial sites. During the previous seven sampling events from November 2002 to January 2006, groundwater sampled from monitoring well ES-28 also exhibited detections of TCE above TCEQ TRRP Tier 1 PCLs for Class 3 groundwater at commercial/industrial sites.

Chlorobenzene was detected above the surface water PCLs in groundwater sampled from wells R-2, R-3, R-4, R-5, R-8, R-9, REI-26, REI-27, ES-36, ES-37, ES-46, ES-47, and MCC-15 during the February and June 2007 sampling events. Chlorobenzene concentrations decreased in groundwater sampled from ES-37, ES-47, R-8, R-9, and REI-27 and chlorobenzene concentrations increased in groundwater sampled from monitoring wells ES-36, ES-46, R-2, R-3, R-4, R-5, MCC-15, and REI-26 in comparison to the previous sampling event.

4.2 French Drain and Groundwater System (Trenches 1 – 3)

Currently, TERRAINE provides O&M services of the french drain and Granulated Activated Carbon (GAC) groundwater treatment system at Installation Restoration Sites 1, 3, and 4. O&M and sampling activities conducted at the site are as follows:

Weekly

- Clean out basket strainer of any debris, rinse and replace
- Replace sock filter if necessary and place used filter in Investigative Derived Waste (IDW) drum
- Document conditions on each site visit

Monthly

- Provide monthly O&M summary report including weekly conditions
- Post data, including flow meter and pressure gauge graphs, on navfac.net website

Quarterly

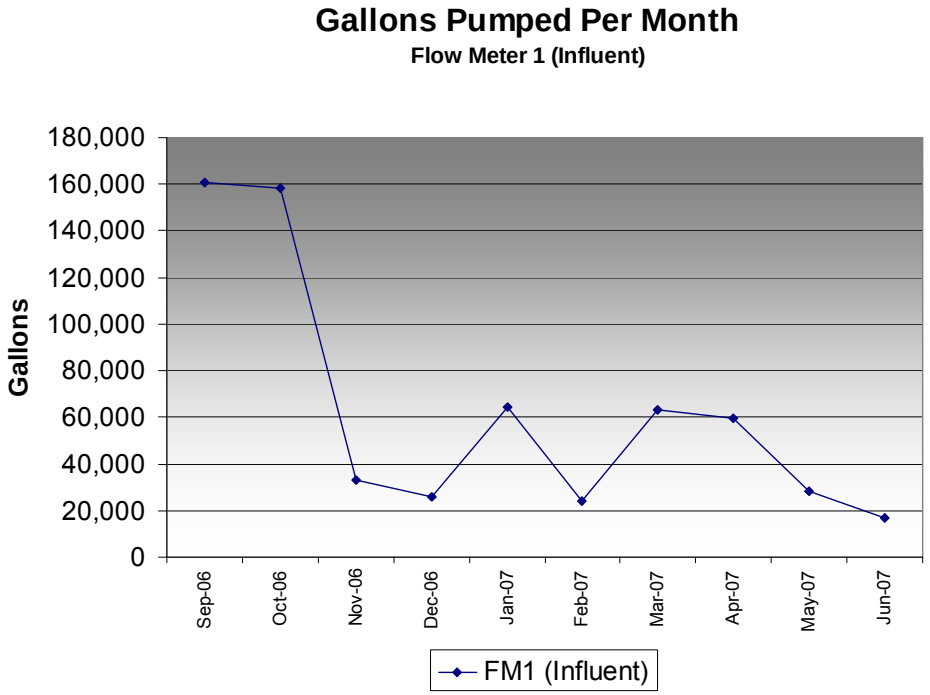
- Sample influent, effluent, and mid-point of GAC system

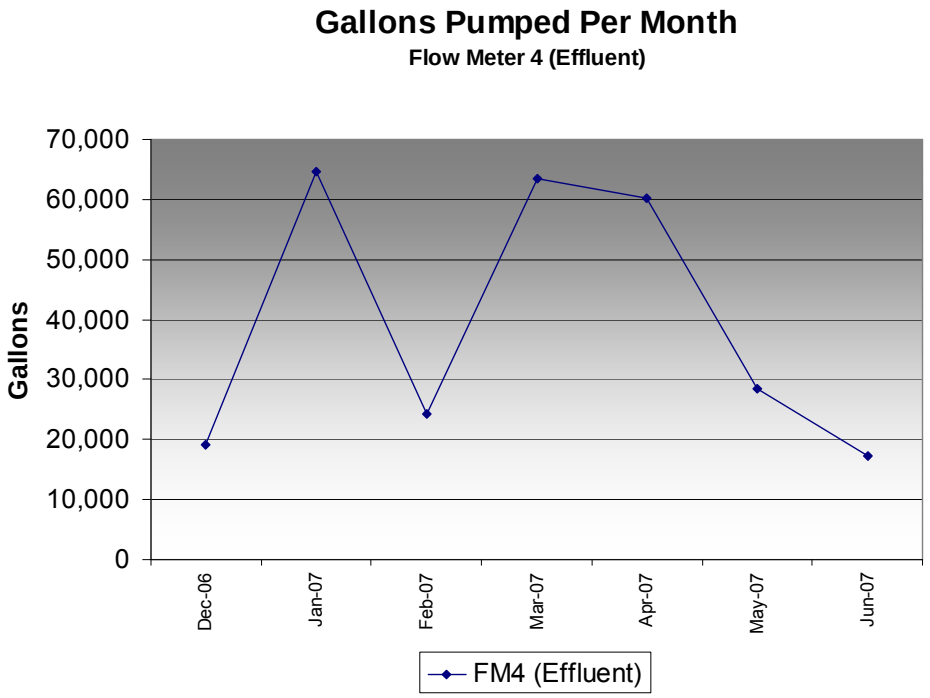
- Change out GAC if breakthrough
- Remove sediment from manholes as necessary
- Measure water levels in monitoring wells adjacent to trench
- Pressure wash system components within treatment system
- Prepare and label IDW for removal

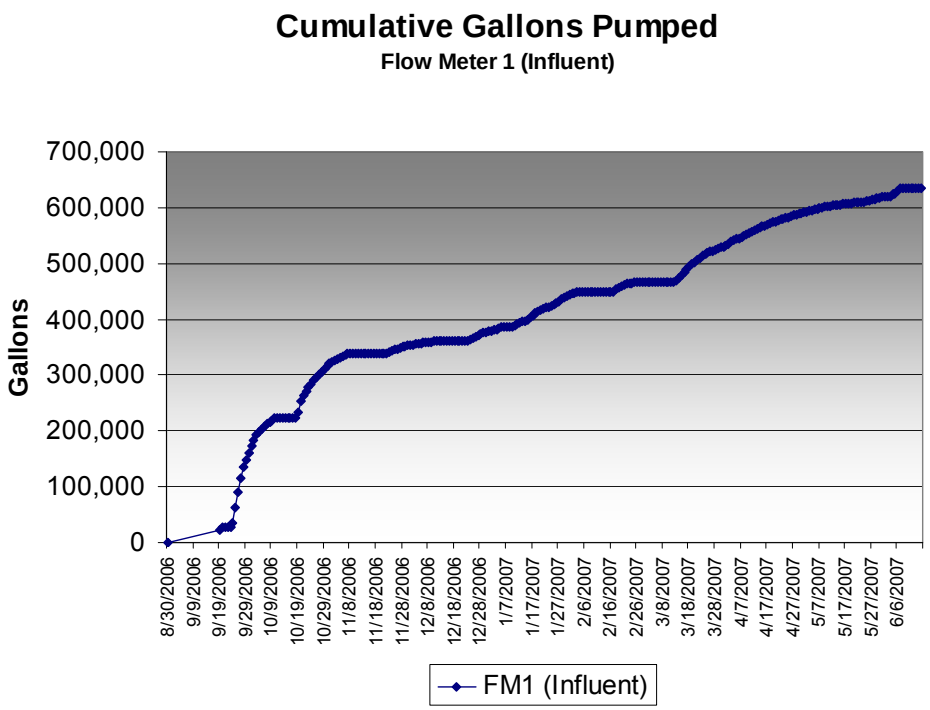
Emergency Response

- Respond to emergencies within 24 hours or less, including weekends and holidays

Currently, only Trench 1 is operating at this time per SODIV requirements. Although the system was operational prior to August 30, 2006, the analog meters which record flow volumes were installed incorrectly. The influent meter was reinstalled in August 2006. The effluent meter was reinstalled in December 2006. A total of approximately 635,672 gallons of water have passed through flow meter 1 from August 30, 2006 through June 30, 2007. A total of approximately 276,370 gallons of water have passed through flow meter 4 from December 9, 2006 to June 30, 2007. The total gallons pumped per month and cumulative gallons pumped through June 2007 are displayed in the following charts.




Gallons Pumped Per Month
Flow Meter 4 (Effluent)
Gallons
70,000
60,000
50,000
40,000
30,000
20,000
10,000
0
Dec-06
Jan-07
Feb-07
Mar-07
Apr-07
May-07
Jun-07
FM4 (Effluent)


Cumulative Gallons Pumped
Flow Meter 1 (Influent)
Gallons
700,000
600,000
500,000
400,000
300,000
200,000
100,000
0
8/30/2006
9/9/2006
9/19/2006
9/29/2006
10/9/2006
10/19/2006
10/29/2006
11/8/2006
11/18/2006
11/28/2006
12/8/2006
12/18/2006
12/28/2006
1/7/2007
1/17/2007
1/27/2007
2/6/2007
2/16/2007
2/26/2007
3/8/2007
3/18/2007
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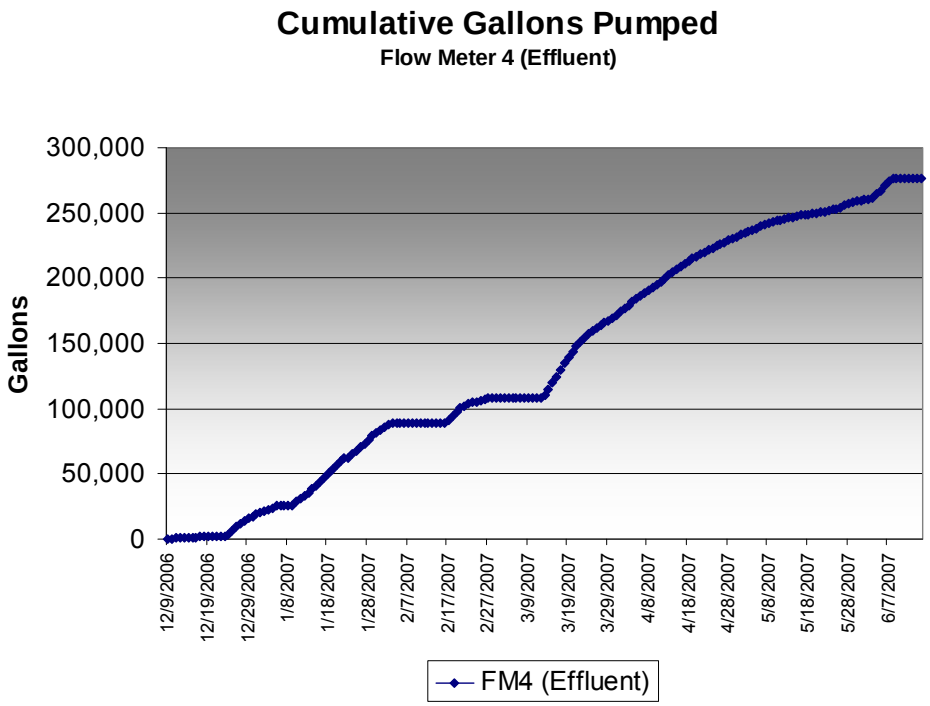
6/6/2007
FM1 (Influent)



The GAC filters were replaced in January 2006 as a result of suspected breakthrough first noted in November 2005. In February 2006, influent, effluent, and GAC-midpoint water samples were collected and submitted to Test America, Inc. for analysis. Contaminants present above method detection limits in the GAC-influent sample collected February 6, 2006 were chlorobenzene (3.65 μg/L), cis-1,2-dichloroethene (6.53 μg/L) and vinyl chloride (0.470 μg/L). Contaminants present above method detection limits in the GAC-midpoint sample were cis-1, 2-dichloroethene (3.16 μg/L) and vinyl chloride (12.0 μg/L). No contaminants were present above method detection limits in the GAC-effluent sample collected February 6, 2006 (**Appendix E**).

The GAC filters were replaced/swapped out in October 2006 as a result of suspected breakthrough. GAC filter #1 was replaced on October 10, and GAC filter #2 was swapped with GAC filter #1. In December 2006, influent, effluent, and GAC-midpoint water samples were collected and submitted to Test America, Inc. for analysis. The following parameters were detected in the pre-GAC influent sample: chlorobenzene (15.0 μg/L), 1,2-dichlorobenzene (1.79 μg/L), 1,1-dichloroethane (2.63 μg/L), 1,1-dichloroethene (1.68 μg/L), cis-1,2-dichloroethene (432 μg/L), toluene (2.46 μg/L), trichloroethene (1.19 μg/L), and vinyl choride (37.6 μg/L). Vinyl chloride (90.6 μg/L) was detected in the GAC mid-point sample. Vinyl chloride (2.65 μg/L) and cis-1,2-dichloroethene (8.89 μg/L) were detected in the GAC effluent sample. Samples were obtained in February 2007 to confirm these results. The following contaminants were detected in the GAC mid-point and effluent

samples: 1,1-dichlorethane (3.44 μg/L and 3.59 μg/L, respectively), cis-1,2-dichloroethene (205 μg/L and 536 μg/L, respectively), 1,1-dichloroethene (0.960 μg/L and 1.71 mg/L, respectively), and vinyl chloride (484 mg/L and 342 mg/L, respectively). Both GAC filters were replaced on March 12, 2007.

In May 2007, influent, effluent, and GAC-midpoint water samples were collected and submitted to Test America, Inc. for analysis. The following parameters were detected in the pre-GAC influent sample: acetone (7.64 μg/L), benzene (0.880 μg/L), chlorobenzene (20.2 μg/L), 1,2-dichlorobenzene (4.69 μg/L), 1,1-dichloroethane (1.41 μg/L), 1,1-dichloroethene (1.31 μg/L), cis-1,2-dichloroethene (74.5 μg/L), naphthalene (1.61 μg/L), toluene (12.2 μg/L), trichloroethene (0.820 μg/L), and vinyl chloride (43.4 μg/L). 1,1-Dichloroethane (1.42 μg/L), cis-1,2-dichloroethene (67.2 μg/L), and vinyl chloride (192 μg/L) were detected in the GAC mid-point sample. Cis-1,2-dichloroethene (2.87 μg/L) and vinyl chloride (137 μg/L) were detected in the GAC effluent sample.

Additional mid-point and effluent samples were obtained in June 2007 to confirm the May 2007 results. 2-Butanone (4.12 μg/L), 1,1-dichloroethane (0.650 μg/L), cis-1,2-dichloroethene (34.1 μg/L), naphthalene (0.830 μg/L), 1,2,4-trimethylbenzene (0.760 μg/L), and vinyl chloride (56.6 μg/L) were detected in the GAC mid-point sample. 2-Butanone (4.37 μg/L), cis-1,2-dichloroethene (2.80 μg/L), 1,2,4-trimethylbenzene (0.500 μg/L), and vinyl chloride (17.7 μg/L) were detected in the GAC effluent sample collected on June 22, 2007.

Based on the May and June 2007 results, it is believed that the bypass valves may be leaking. These valves will be replaced in August 2007 and GAC influent, mid-point, and effluent samples will be obtained to determine if contamination is a result of leaking bypass valves or if GAC change out is necessary.

5.0 Recommendations

Based on laboratory data obtained to date, TERRAINE recommends the following:

- Continue bailing free product from monitoring well REI-24 on a monthly basis.
- Collect free product from monitoring well REI-24 using an absorbent sock. Change the sock on a monthly basis at time of bailing events.
- Continue sampling wells on an annual basis for VOCs.

Appendix A

Figures

Figure 1 Site Vicinity Map
Figure 2 Monitor Well Location Map – Building 8
Figure 3 Monitor Well Location Map – IR Sites 1, 3, & 4
Figure 4 February 2007 Groundwater Elevations, Building 8, Shallow Aquifer
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Figure 7 Jan. 2004 Groundwater Elevations, Building 8, Shallow Aquifer
Figure 8 Feb. 2003 Groundwater Elevations, Building 8, Shallow Aquifer
Figure 9 February 2007 Groundwater Elevations, IR Sites 1, 3, & 4, Shallow Aquifer
Figure 10 January 2006 Groundwater Elevations, IR Sites 1, 3, & 4, Shallow Aquifer
Figure 11 Jan./Feb. 2005 Groundwater Elevations, IR Sites 1, 3, & 4, Shallow Aquifer
Figure 12 Jan 2004 Groundwater Elevations, IR Sites 1, 3, & 4, Shallow Aquifer
Figure 13 Feb. 2003 Groundwater Elevations, IR Sites 1, 3, & 4, Shallow Aquifer
Figure 14 Groundwater Tag Map, Trichloroethene Detections, Building 8, Shallow Aquifer
Figure 15 Groundwater Plume Map, Chlorobenzene, IR Sites 1, 3, & 4, Shallow Aquifer
Figure 16 Groundwater Contaminant Tag Map, Building 8, Shallow Aquifer
Figure 17 Groundwater Contaminant Tag Map, IR Sites 1, 3, & 4, Shallow Aquifer
Figure 18 Historical Groundwater Tag Map, Cis-1, 2-Dichloroethene, IR Sites 1, 3, & 4, Shallow Aquifer
Figure 19 Historical Groundwater Tag Map, Vinyl Chloride, IR Sites 1, 3, & 4, Shallow Aquifer

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NOTES

IR SIte 1 = NOR Unit No. 001 (DPDO Landfill)
IR Site 3 = NOR Unit No. 003 (CCAD Liquid Landfill)
IR Site 4 = NOR Unit No. 004 (Aircraft Fire Training Area)

LEGEND

Building 8 Location

IR SIte 1, 3, and 4 Locations

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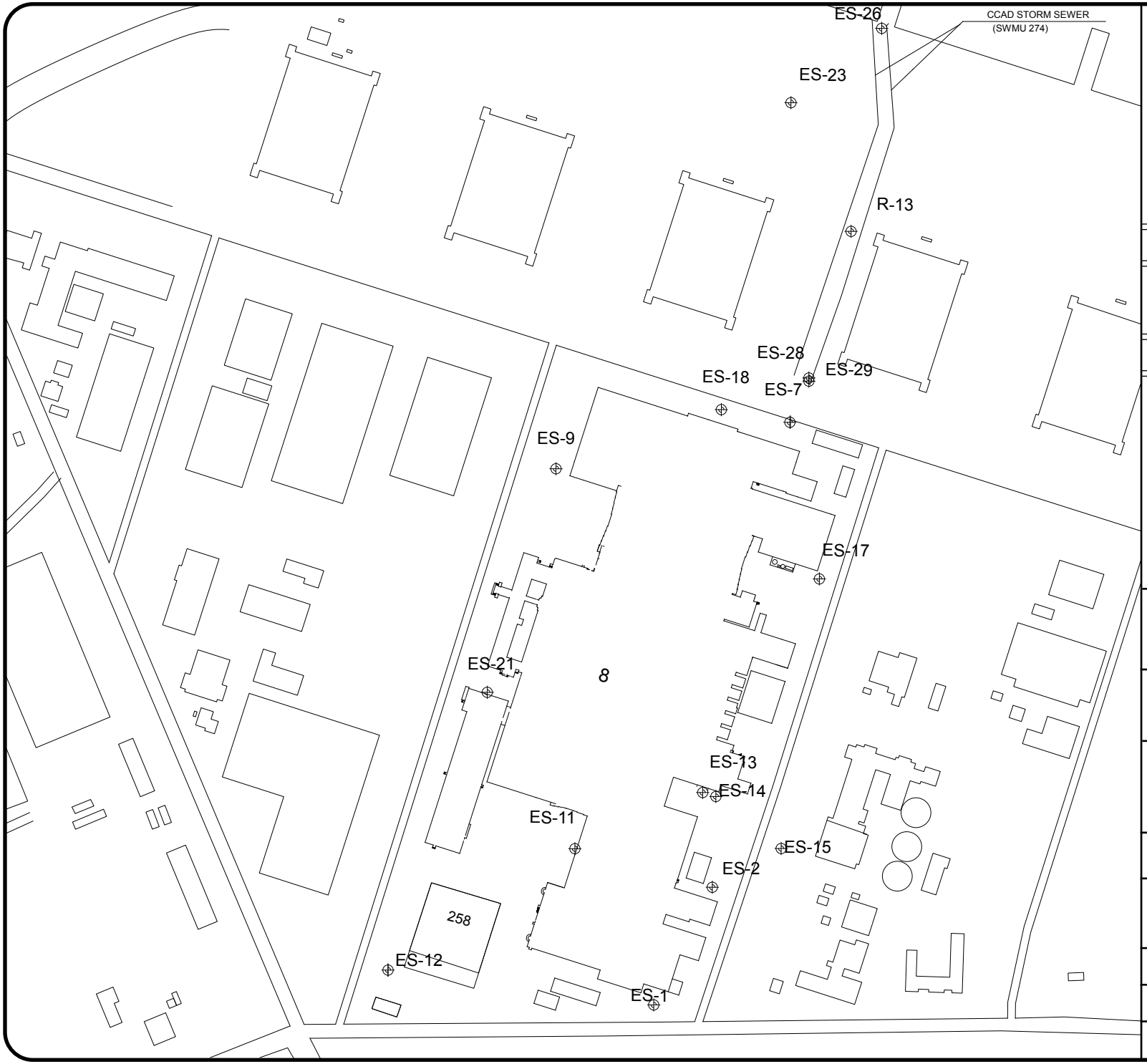
Naval Air Station Corpus Christi (NAS CC)

FIGURE 1
SITE VICINITY MAP

Contract Number: N62467-02-G-0352
Contract Task Order: 0007

Prepared For
Naval Facilities Engineering Command Southeast

DWN BY: KLB	CHK BY: JLY
SCALE:	APR BY: JLY
DATE: 02-2007	FILE: 21003



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LEGEND

SHALLOW WELL

TERRAINE
Environmental Consulting

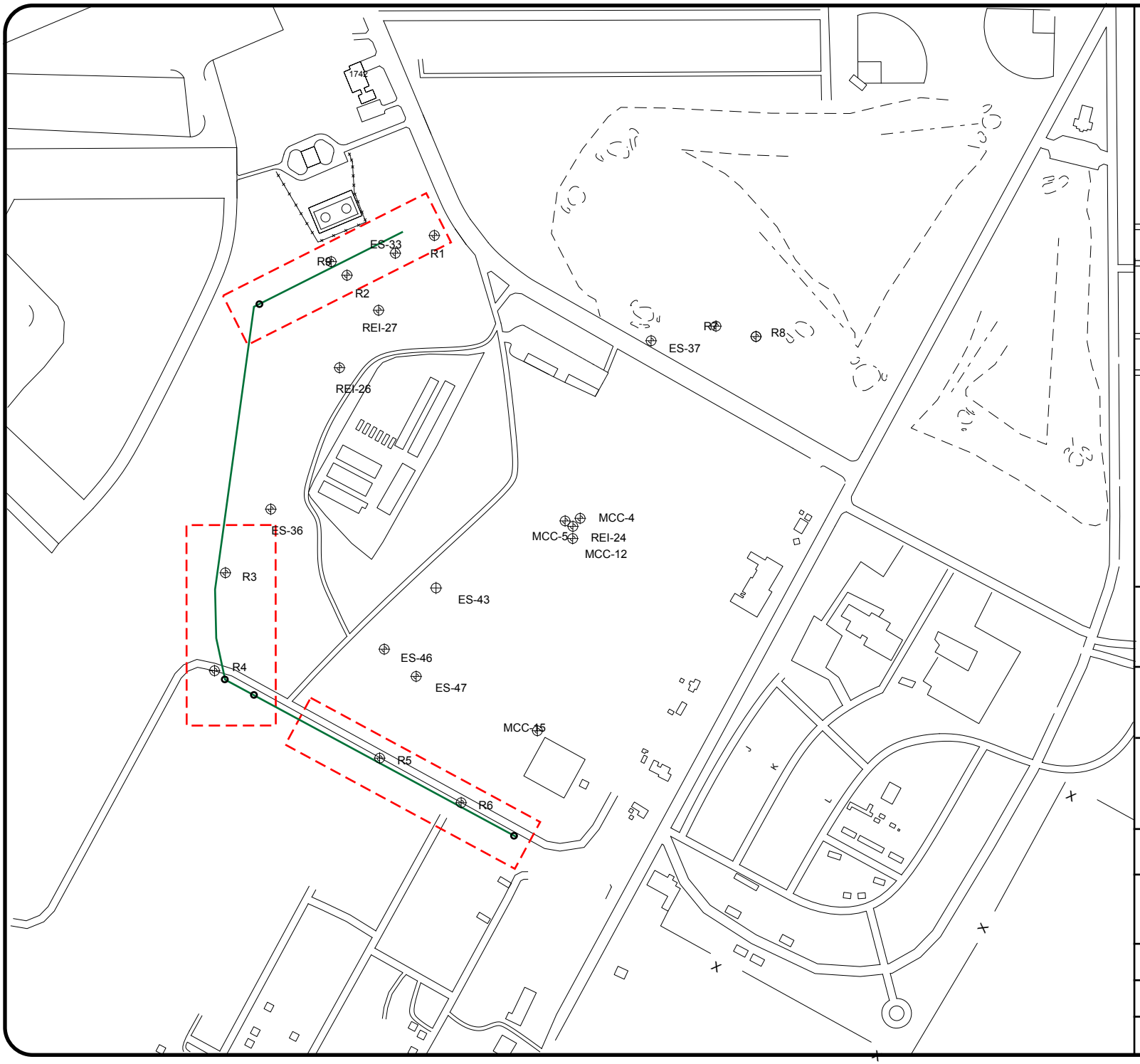
Naval Air Station Corpus Christi (NAS CC)

FIGURE 2
MONITOR WELL LOCATION MAP
BUILDING 8

Contract Number: N62467-02-G-0352
Contract Task Order: 0007

Prepared For
Naval Facilities Engineering Command Southeast

DWN BY: KLB	CHK BY: JLY
SCALE:	APR BY: JLY
DATE: 02-2007	FILE: 21003



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NOTES

IR SIte 1 = NOR Unit No. 001 (DPDO Landfill)
IR Site 3 = NOR Unit No. 003 (CCAD Liquid Landfill)
IR Site 4 = NOR Unit No. 004 (Aircraft Fire Training Area)

LEGEND

- SURFACE WATER TRENCH
- FRENCH DRAIN
- CONDUIT LINE
- DEEP WELL
- SHALLOW WELL

TERRAINE
Environmental Consulting

Naval Air Station Corpus Christi (NAS CC)

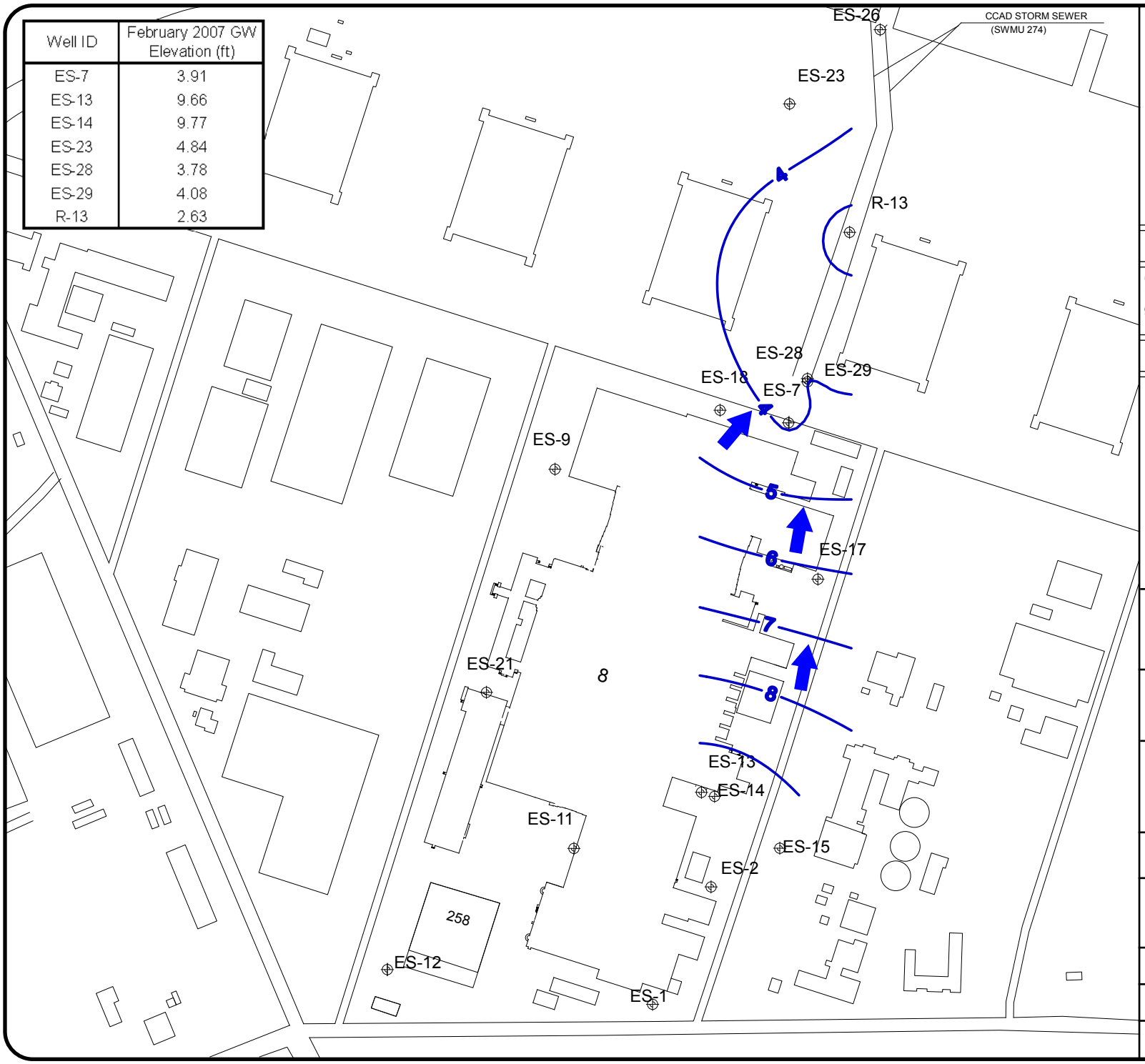
FIGURE 3
MONITOR WELL LOCATION MAP
IR SITES 1, 3, & 4

Contract Number: N62467-02-G-0352
Contract Task Order: 0007

Prepared For
Naval Facilities Engineering Command Southeast

DWN BY: KLB	CHK BY: JLY
SCALE:	APR BY: JLY
DATE: 02-2007	FILE: 21003

Well ID	February 2007 GW Elevation (ft)
ES-7	3.91
ES-13	9.66
ES-14	9.77
ES-23	4.84
ES-28	3.78
ES-29	4.08
R-13	2.63



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NOTES

Only monitoring wells ES-7, ES-13, ES-14, ES-23, ES-28, ES-29, and R-13 used in contour map generation.

LEGEND

APPROXIMATE DIRECTION OF GROUNDWATER FLOW

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Naval Air Station Corpus Christi (NAS CC)

FIGURE 4
FEBRUARY 2007
GROUNDWATER ELEVATIONS
BUILDING 8, SHALLOW AQUIFER

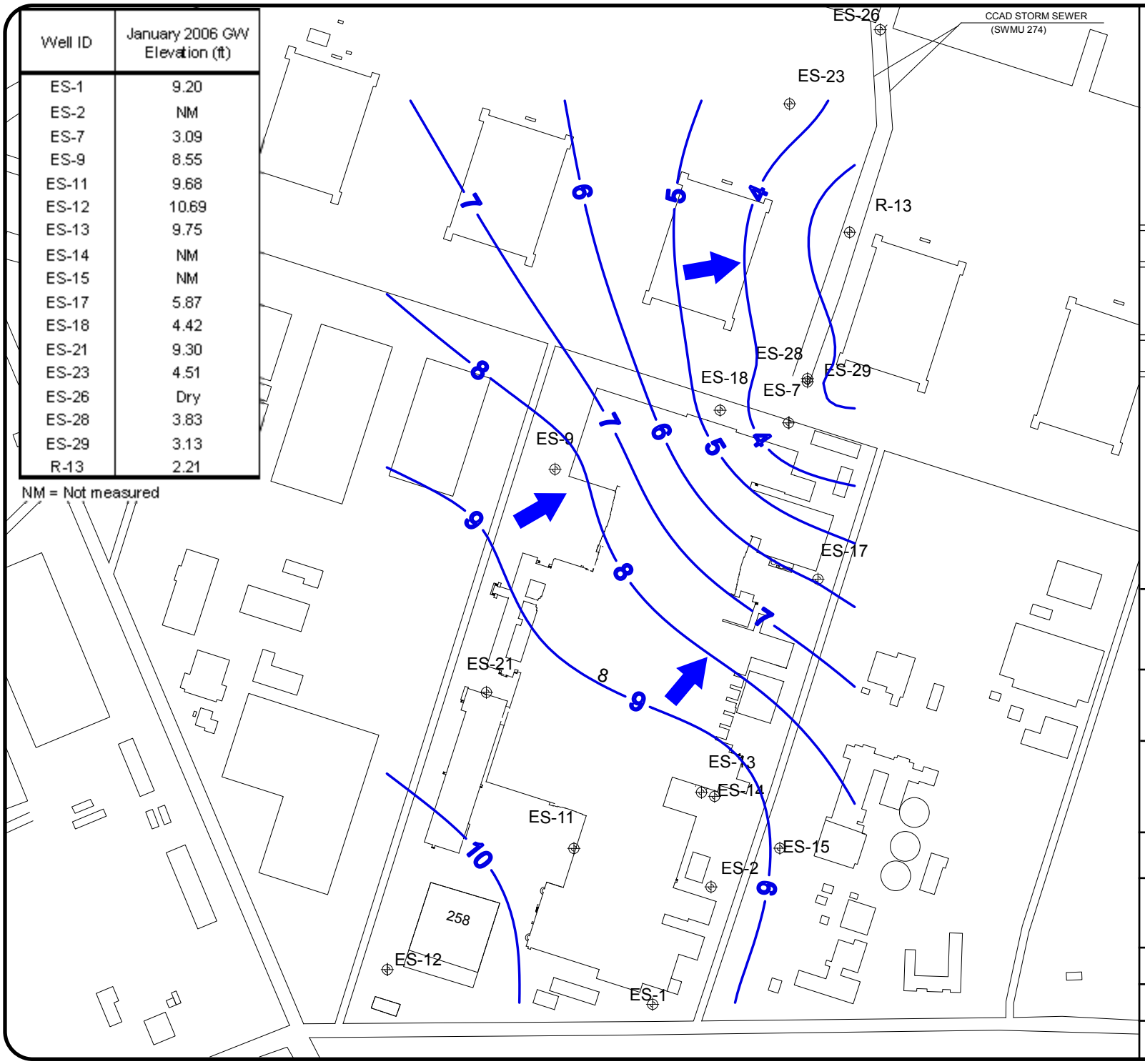
Contract Number: N62467-02-G-0352
Contract Task Order: 0007

Prepared For
Naval Facilities Engineering Command Southeast

DWN BY: KLB	CHK BY: JLY
SCALE:	APR BY: JLY
DATE: 02-2007	FILE: 21003

Well ID	January 2006 GW Elevation (ft)
ES-1	9.20
ES-2	NM
ES-7	3.09
ES-9	8.55
ES-11	9.68
ES-12	10.69
ES-13	9.75
ES-14	NM
ES-15	NM
ES-17	5.87
ES-18	4.42
ES-21	9.30
ES-23	4.51
ES-26	Dry
ES-28	3.83
ES-29	3.13
R-13	2.21

NM = Not measured



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NOTES

CONTOUR PLOT GENERATED USING KRIGING ALGORITHM WITH LINEAR VARIOGRAM MODEL

LEGEND

APPROXIMATE DIRECTION OF GROUNDWATER FLOW

TERRAINE
Environmental Consulting

Naval Air Station Corpus Christi (NAS CC)

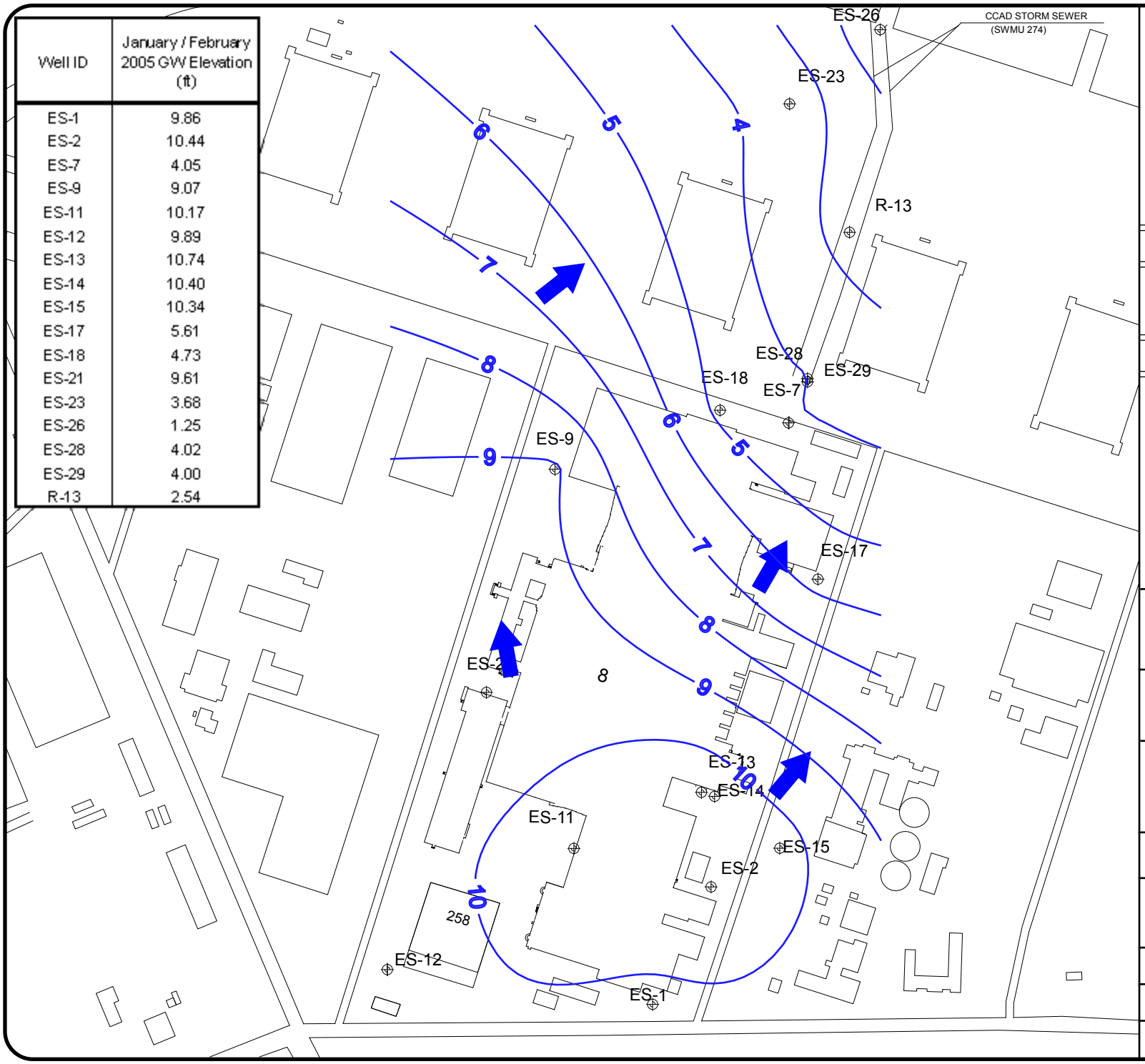
FIGURE 5
JANUARY 2006
GROUNDWATER ELEVATIONS
BUILDING 8, SHALLOW AQUIFER

Contract Number: N62467-02-G-0352
Contract Task Order: 0007

Prepared For
Naval Facilities Engineering Command Southeast

DWN BY: KLB	CHK BY: JLY
SCALE:	APR BY: JLY
DATE: 02-2007	FILE: 21003

Well ID	January / February 2005 GW Elevation (ft)
ES-1	9.86
ES-2	10.44
ES-7	4.05
ES-9	9.07
ES-11	10.17
ES-12	9.89
ES-13	10.74
ES-14	10.40
ES-15	10.34
ES-17	5.61
ES-18	4.73
ES-21	9.61
ES-23	3.68
ES-26	1.25
ES-28	4.02
ES-29	4.00
R-13	2.54



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NOTES

CONTOUR PLOT GENERATED USING KRIGING ALGORITHM WITH LINEAR VARIOGRAM MODEL

LEGEND

APPROXIMATE DIRECTION OF GROUNDWATER FLOW

TERRAINE
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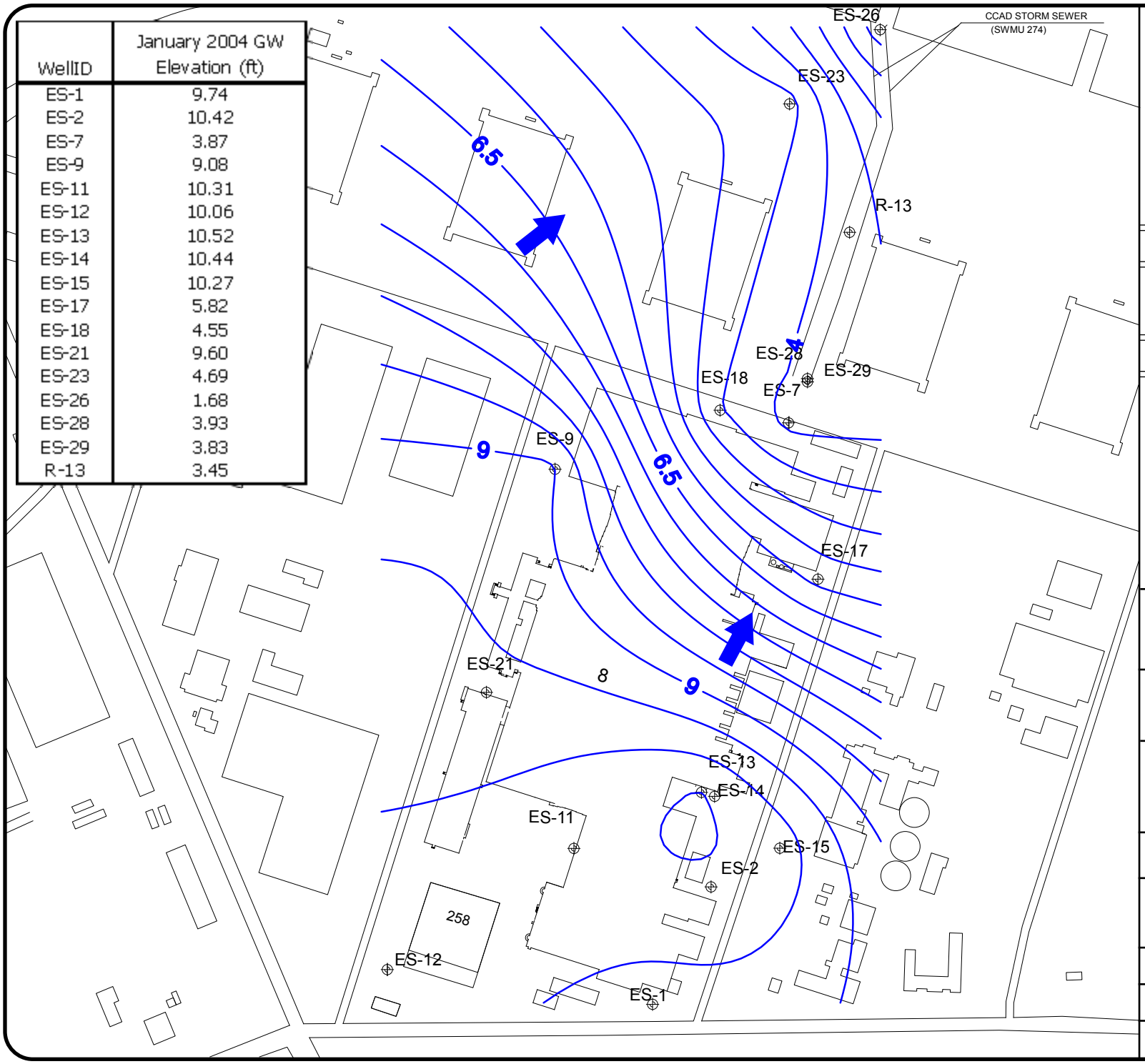
FIGURE 6
JAN/FEB 2005
GROUNDWATER ELEVATIONS
BUILDING 8, SHALLOW AQUIFER

Contract Number: N62467-02-G-0352
Contract Task Order: 0007

Prepared For
Naval Facilities Engineering Command Southeast

DWN BY: KLB	CHK BY: JLY
SCALE:	APR BY: JLY
DATE: 02-2007	FILE: 21003

WellID	January 2004 GW Elevation (ft)
ES-1	9.74
ES-2	10.42
ES-7	3.87
ES-9	9.08
ES-11	10.31
ES-12	10.06
ES-13	10.52
ES-14	10.44
ES-15	10.27
ES-17	5.82
ES-18	4.55
ES-21	9.60
ES-23	4.69
ES-26	1.68
ES-28	3.93
ES-29	3.83
R-13	3.45



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NOTES

CONTOUR PLOT GENERATED USING KRIGING ALGORITHM WITH LINEAR VARIOGRAM MODEL

LEGEND

APPROXIMATE DIRECTION OF GROUNDWATER FLOW

TERRAINE
Environmental Consulting

Naval Air Station Corpus Christi (NAS CC)

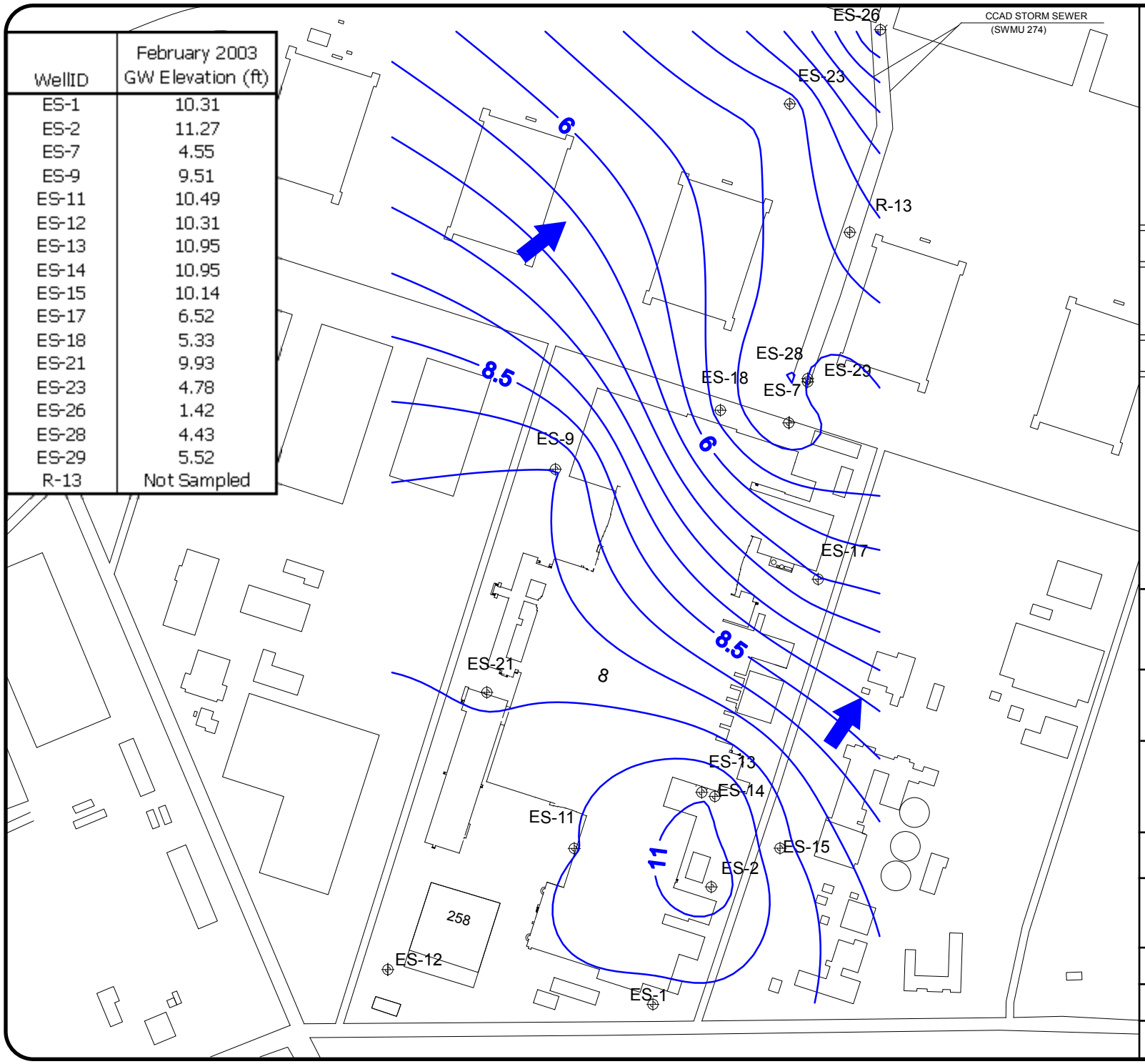
FIGURE 7
JAN. 2004 GROUNDWATER ELEVATIONS
BUILDING 8, SHALLOW AQUIFER

Contract Number: N62467-02-G-0352
Contract Task Order: 0007

Prepared For
Naval Facilities Engineering Command Southeast

DWN BY: KLB	CHK BY: JLY
SCALE:	APR BY: JLY
DATE: 02-2007	FILE: 21003

WellID	February 2003 GW Elevation (ft)
ES-1	10.31
ES-2	11.27
ES-7	4.55
ES-9	9.51
ES-11	10.49
ES-12	10.31
ES-13	10.95
ES-14	10.95
ES-15	10.14
ES-17	6.52
ES-18	5.33
ES-21	9.93
ES-23	4.78
ES-26	1.42
ES-28	4.43
ES-29	5.52
R-13	Not Sampled



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NOTES

CONTOUR PLOT GENERATED USING KRIGING ALGORITHM WITH LINEAR VARIOGRAM MODEL

LEGEND

APPROXIMATE DIRECTION OF GROUNDWATER FLOW

TERRAINE
Environmental Consulting

Naval Air Station Corpus Christi (NAS CC)

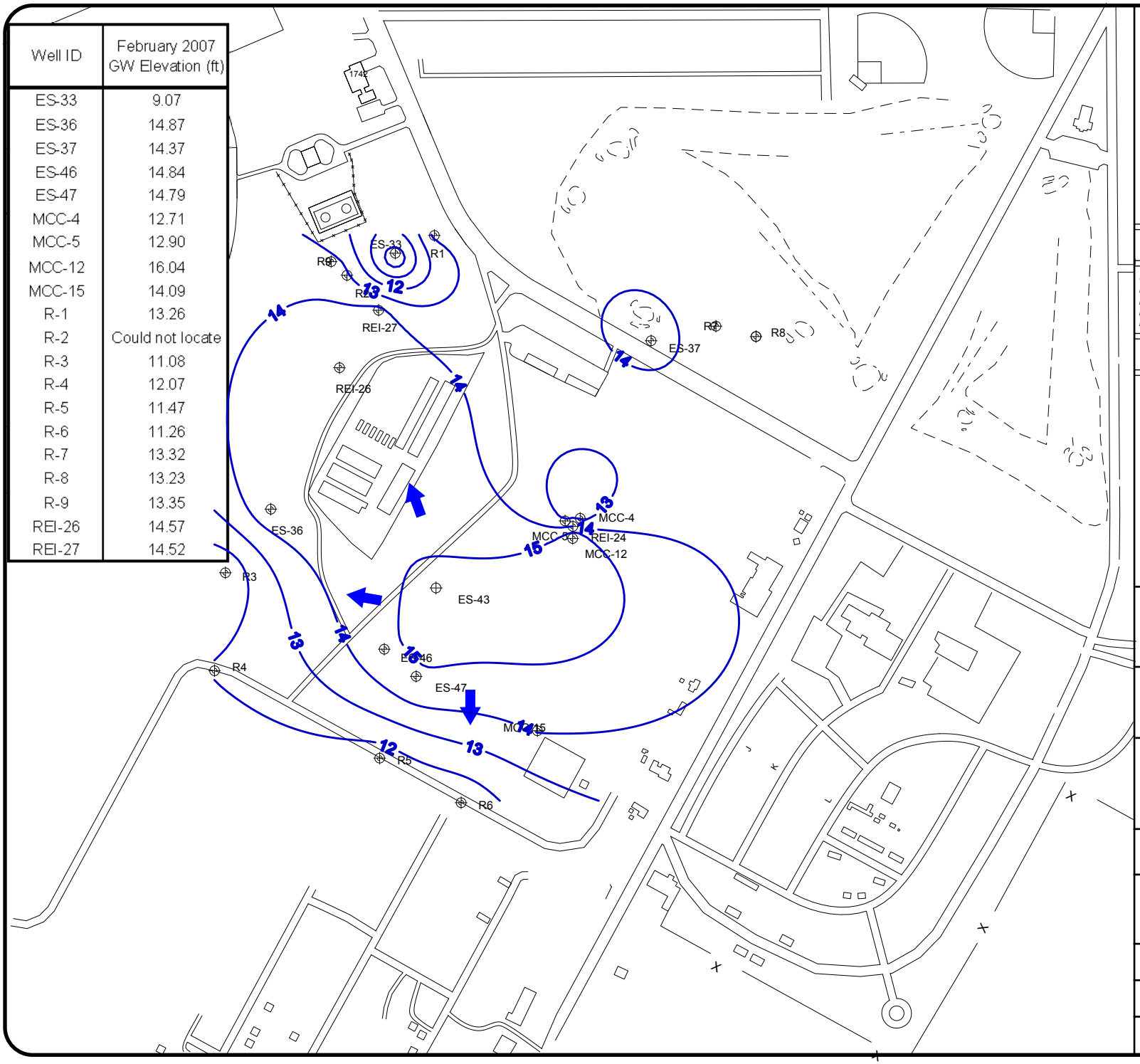
FIGURE 8
FEB. 2003 GROUNDWATER ELEVATIONS
BUILDING 8, SHALLOW AQUIFER

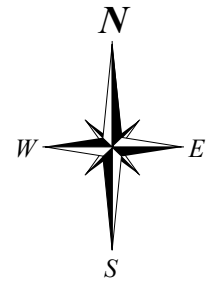
Contract Number: N62467-02-G-0352
Contract Task Order: 0007

Prepared For
Naval Facilities Engineering Command Southeast

DWN BY: KLB	CHK BY: JLY
SCALE:	APR BY: JLY
DATE: 02-2007	FILE: 21003

Well ID	February 2007 GW Elevation (ft)
ES-33	9.07
ES-36	14.87
ES-37	14.37
ES-46	14.84
ES-47	14.79
MCC-4	12.71
MCC-5	12.90
MCC-12	16.04
MCC-15	14.09
R-1	13.26
R-2	Could not locate
R-3	11.08
R-4	12.07
R-5	11.47
R-6	11.26
R-7	13.32
R-8	13.23
R-9	13.35
REI-26	14.57
REI-27	14.52





NOTES

CONTOUR PLOT GENERATED USING KRIGING ALGORITHM WITH LINEAR VARIOGRAM MODEL
IR SIte 1 = NOR Unit No. 001 (DPDO Landfill)
IR Site 3 = NOR Unit No. 003 (CCAD Liquid Landfill)
IR Site 4 = NOR Unit No. 004 (Aircraft Fire Training Area)

LEGEND

APPROXIMATE DIRECTION OF GROUNDWATER FLOW

TERRAINE
Environmental Consulting

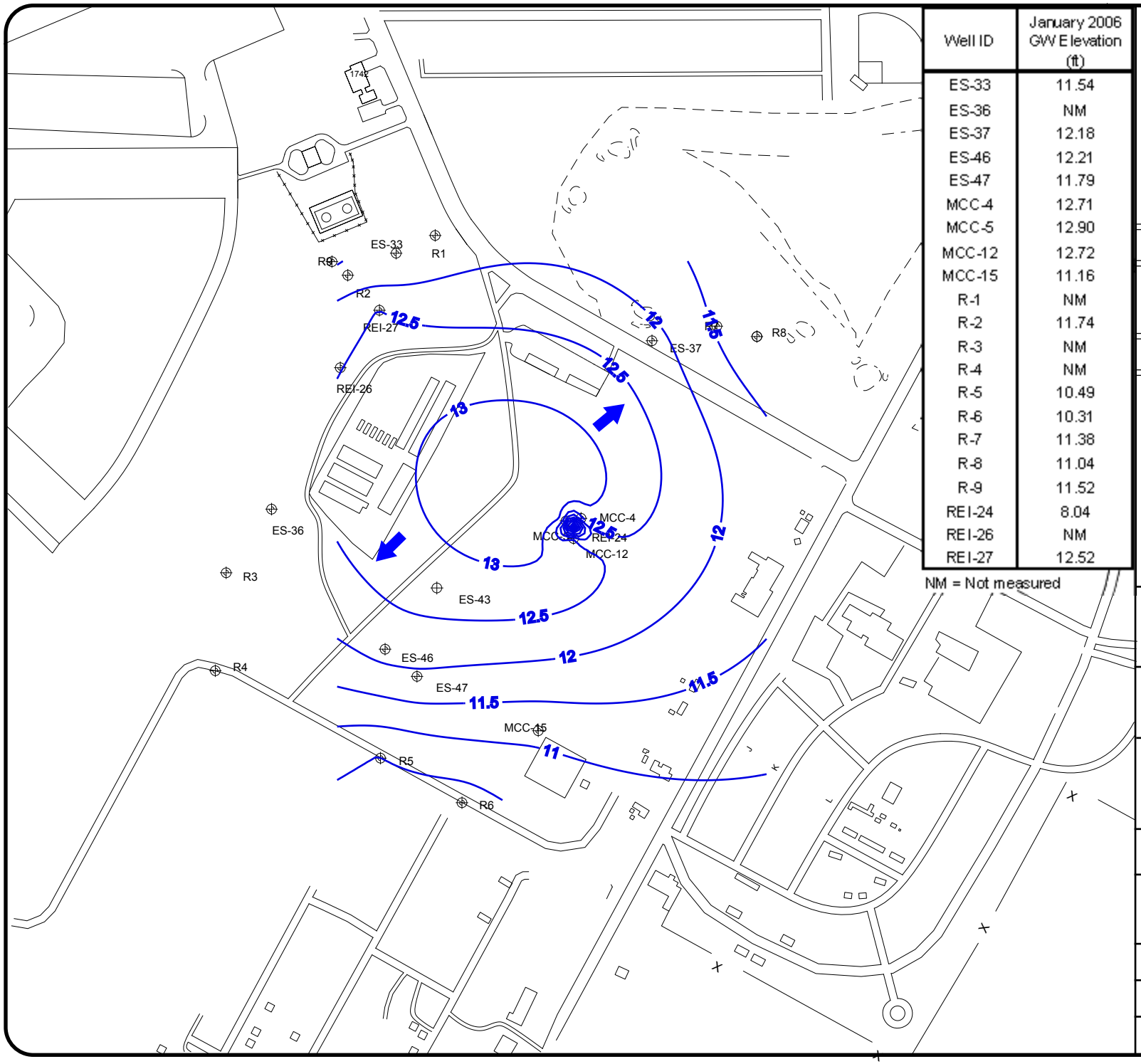
Naval Air Station Corpus Christi (NAS CC)

FIGURE 9
FEBRUARY 2007
GROUNDWATER ELEVATIONS
IR SITES 1, 3, & 4, SHALLOW AQUIFER

Contract Number: N62467-02-G-0352
Contract Task Order: 0007

Prepared For
Naval Facilities Engineering Command Southeast

DWN BY: KLB	CHK BY: JLY
SCALE:	APR BY: JLY
DATE: 02-2007	FILE: 21003



Well ID	January 2006 GW Elevation (ft)
ES-33	11.54
ES-36	NM
ES-37	12.18
ES-46	12.21
ES-47	11.79
MCC-4	12.71
MCC-5	12.90
MCC-12	12.72
MCC-15	11.16
R-1	NM
R-2	11.74
R-3	NM
R-4	NM
R-5	10.49
R-6	10.31
R-7	11.38
R-8	11.04
R-9	11.52
REI-24	8.04
REI-26	NM
REI-27	12.52

NM = Not measured

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NOTES

CONTOUR PLOT GENERATED USING KRIGING ALGORITHM WITH LINEAR VARIOGRAM MODEL
IR Site 1 = NOR Unit No. 001 (DPDO Landfill)
IR Site 3 = NOR Unit No. 003 (CCAD Liquid Landfill)
IR Site 4 = NOR Unit No. 004 (Aircraft Fire Training Area)

LEGEND

APPROXIMATE DIRECTION OF GROUNDWATER FLOW

TERRAINE
Environmental Consulting

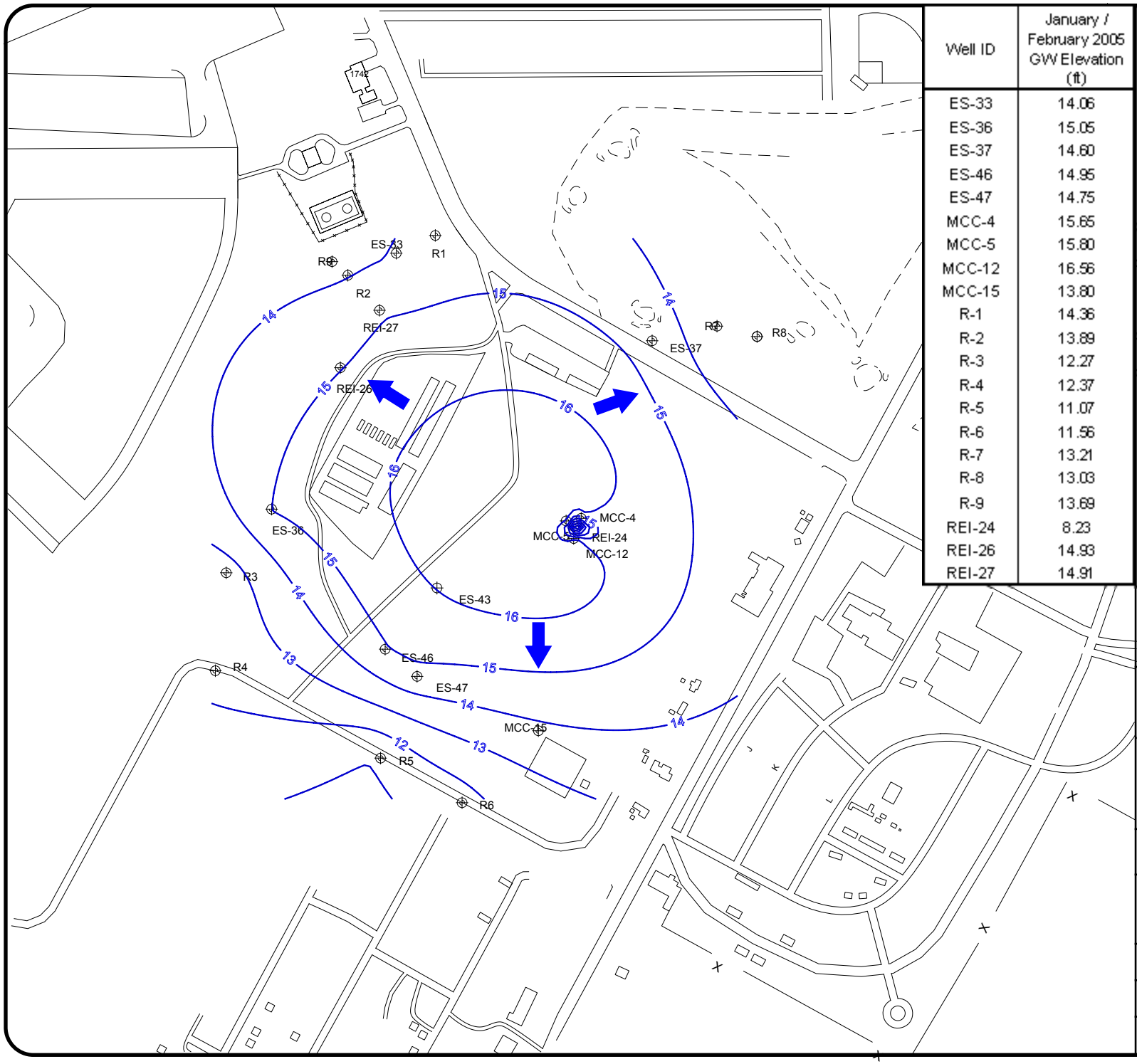
Naval Air Station Corpus Christi (NAS CC)

FIGURE 10
JANUARY 2006
GROUNDWATER ELEVATIONS
IR SITES 1, 3, & 4, SHALLOW AQUIFER

Contract Number: N62467-02-G-0352
Contract Task Order: 0007

Prepared For
Naval Facilities Engineering Command Southeast

DWN BY: KLB	CHK BY: JLY
SCALE:	APR BY: JLY
DATE: 02-2007	FILE: 21003



Well ID	January / February 2005 GW Elevation (ft)
ES-33	14.06
ES-36	15.05
ES-37	14.60
ES-46	14.95
ES-47	14.75
MCC-4	15.65
MCC-5	15.80
MCC-12	16.56
MCC-15	13.80
R-1	14.36
R-2	13.89
R-3	12.27
R-4	12.37
R-5	11.07
R-6	11.56
R-7	13.21
R-8	13.03
R-9	13.69
REI-24	8.23
REI-26	14.93
REI-27	14.91

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NOTES

CONTOUR PLOT GENERATED USING KRIGING ALGORITHM WITH LINEAR VARIOGRAM MODEL
IR SIte 1 = NOR Unit No. 001 (DPDO Landfill)
IR Site 3 = NOR Unit No. 003 (CCAD Liquid Landfill)
IR Site 4 = NOR Unit No. 004 (Aircraft Fire Training Area)

LEGEND

APPROXIMATE DIRECTION OF GROUNDWATER FLOW

TERRAINE
Environmental Consulting

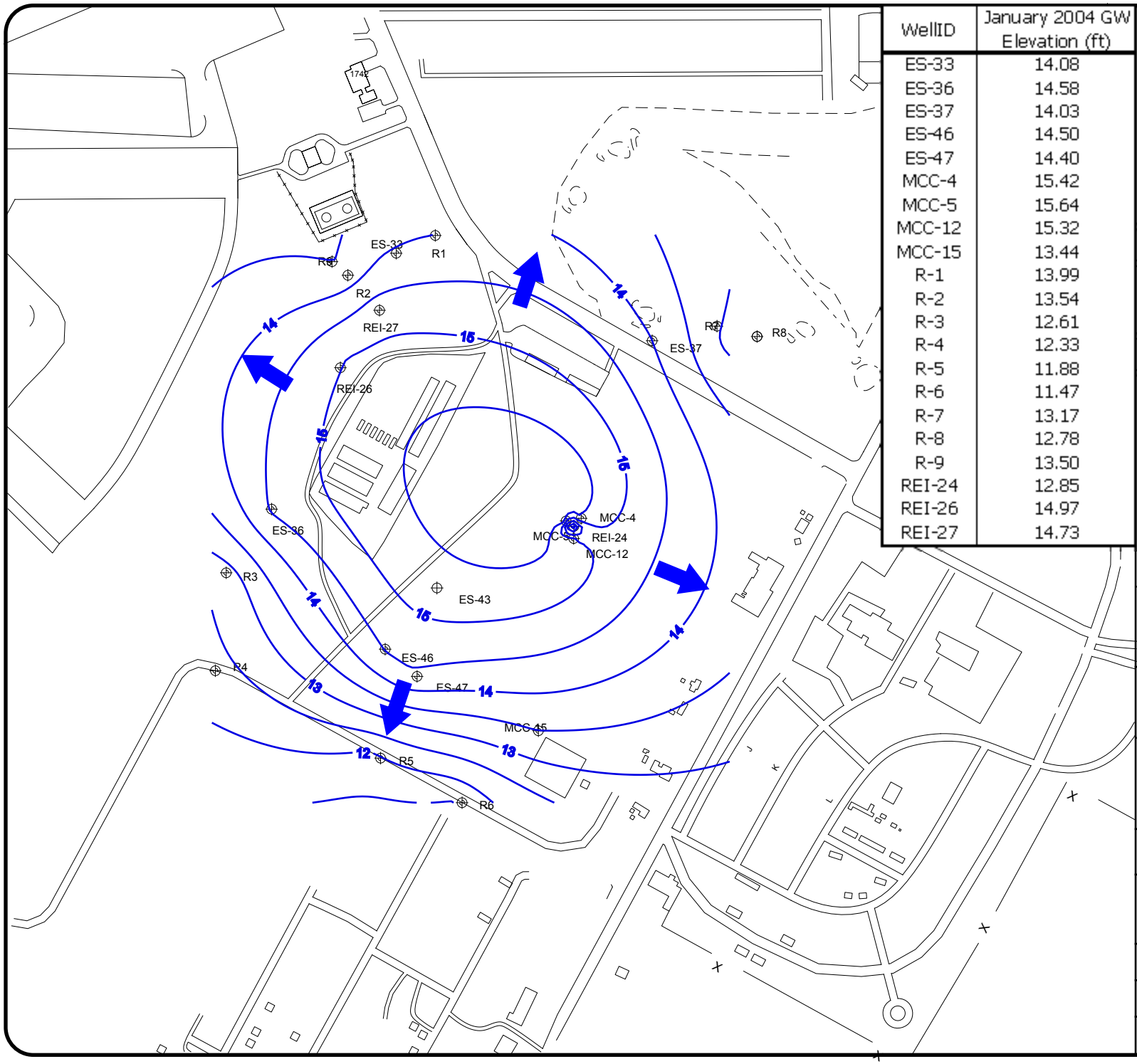
Naval Air Station Corpus Christi (NAS CC)

FIGURE 11
JAN/FEB 2005
GROUNDWATER ELEVATIONS
IR SITES 1, 3, & 4, SHALLOW AQUIFER

Contract Number: N62467-02-G-0352
Contract Task Order: 0007

Prepared For
Naval Facilities Engineering Command Southeast

DWN BY: KLB	CHK BY: JLY
SCALE:	APR BY: JLY
DATE: 02-2007	FILE: 21003



WellID	January 2004 GW Elevation (ft)
ES-33	14.08
ES-36	14.58
ES-37	14.03
ES-46	14.50
ES-47	14.40
MCC-4	15.42
MCC-5	15.64
MCC-12	15.32
MCC-15	13.44
R-1	13.99
R-2	13.54
R-3	12.61
R-4	12.33
R-5	11.88
R-6	11.47
R-7	13.17
R-8	12.78
R-9	13.50
REI-24	12.85
REI-26	14.97
REI-27	14.73

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NOTES

CONTOUR PLOT GENERATED USING KRIGING ALGORITHM WITH LINEAR VARIOGRAM MODEL
IR SIte 1 = NOR Unit No. 001 (DPDO Landfill)
IR Site 3 = NOR Unit No. 003 (CCAD Liquid Landfill)
IR Site 4 = NOR Unit No. 004 (Aircraft Fire Training Area)

LEGEND

APPROXIMATE DIRECTION OF GROUNDWATER FLOW

TERRAINE
Environmental Consulting

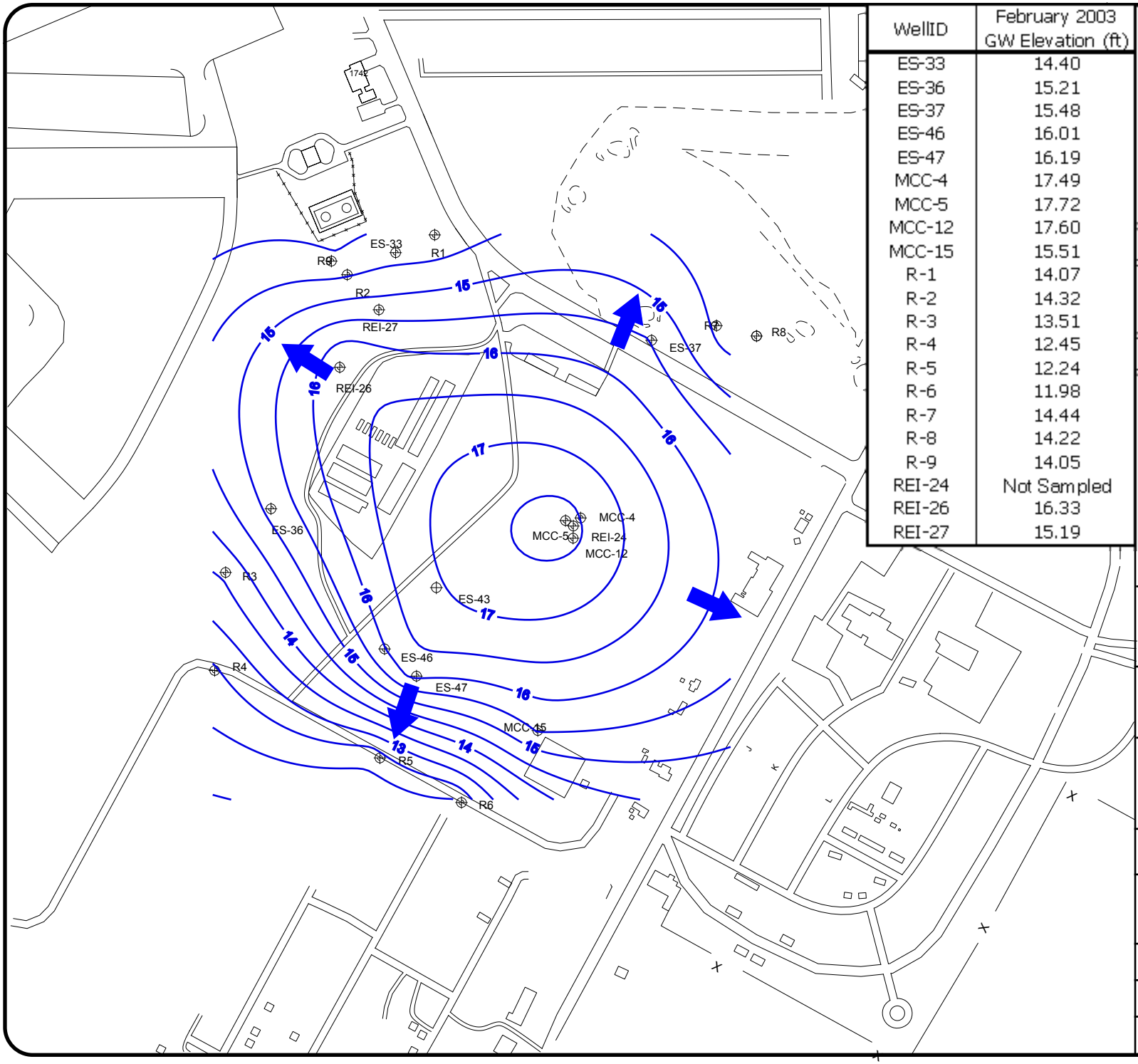
Naval Air Station Corpus Christi (NAS CC)

FIGURE 12
JAN. 2004 GROUNDWATER ELEVATIONS
IR SITES 1, 3, & 4, SHALLOW AQUIFER

Contract Number: N62467-02-G-0352
Contract Task Order: 0007

Prepared For
Naval Facilities Engineering Command Southeast

DWN BY: KLB	CHK BY: JLY
SCALE:	APR BY: JLY
DATE: 02-2007	FILE: 21003



WellID	February 2003 GW Elevation (ft)
ES-33	14.40
ES-36	15.21
ES-37	15.48
ES-46	16.01
ES-47	16.19
MCC-4	17.49
MCC-5	17.72
MCC-12	17.60
MCC-15	15.51
R-1	14.07
R-2	14.32
R-3	13.51
R-4	12.45
R-5	12.24
R-6	11.98
R-7	14.44
R-8	14.22
R-9	14.05
REI-24	Not Sampled
REI-26	16.33
REI-27	15.19

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NOTES

CONTOUR PLOT GENERATED USING KRIGING ALGORITHM WITH LINEAR VARIOGRAM MODEL
IR SIte 1 = NOR Unit No. 001 (DPDO Landfill)
IR Site 3 = NOR Unit No. 003 (CCAD Liquid Landfill)
IR Site 4 = NOR Unit No. 004 (Aircraft Fire Training Area)

LEGEND

APPROXIMATE DIRECTION OF GROUNDWATER FLOW

TERRAINE
Environmental Consulting

Naval Air Station Corpus Christi (NAS CC)

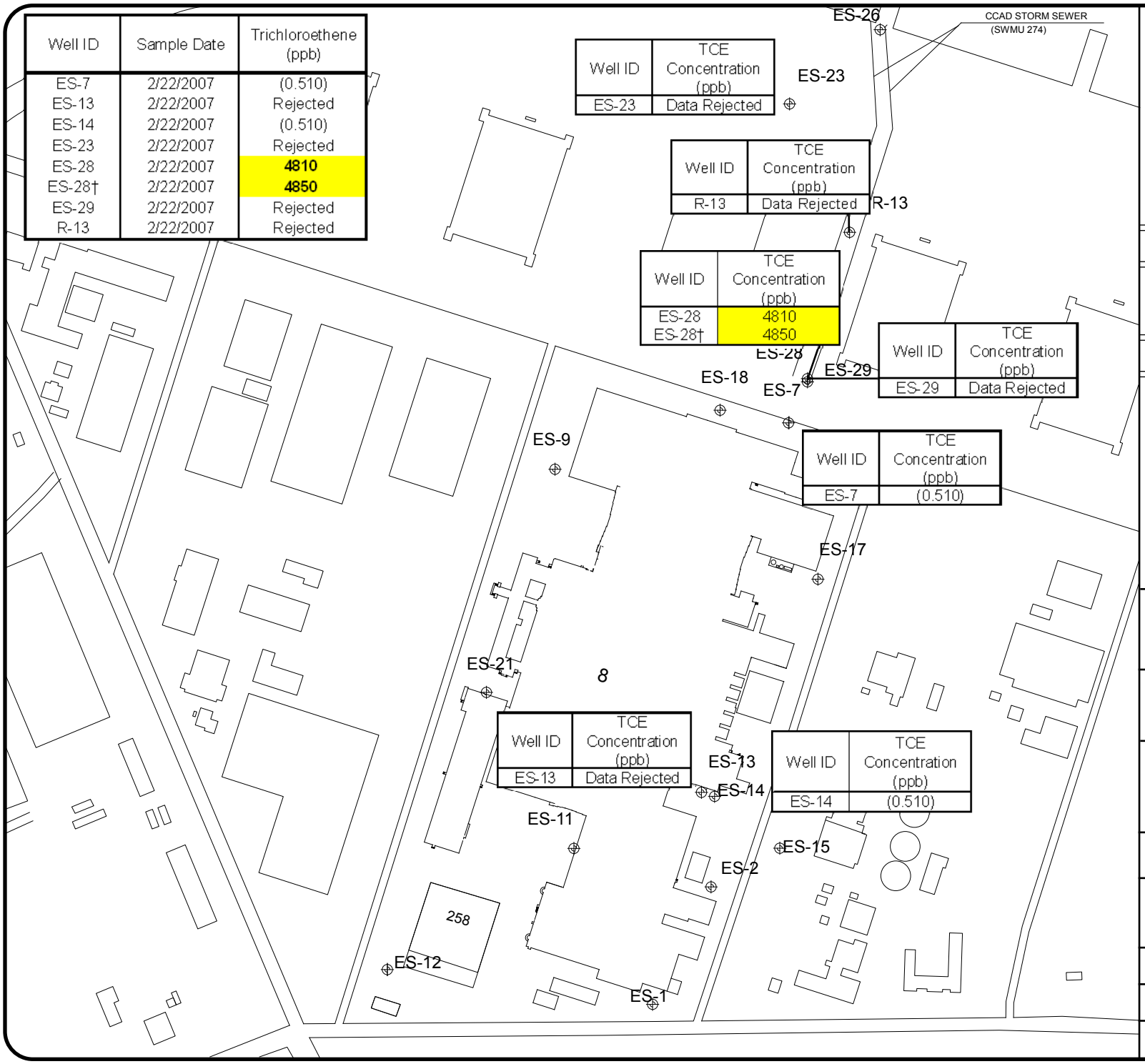
FIGURE 13
FEB. 2003 GROUNDWATER ELEVATIONS
IR SITES 1, 3, & 4, SHALLOW AQUIFER

Contract Number: N62467-02-G-0352
Contract Task Order: 0007

Prepared For
Naval Facilities Engineering Command Southeast

DWN BY: KLB	CHK BY: JLY
SCALE:	APR BY: JLY
DATE: 02-2007	FILE: 21003

Well ID	Sample Date	Trichloroethene (ppb)
ES-7	2/22/2007	(0.510)
ES-13	2/22/2007	Rejected
ES-14	2/22/2007	(0.510)
ES-23	2/22/2007	Rejected
ES-28	2/22/2007	**4810**
ES-28†	2/22/2007	**4850**
ES-29	2/22/2007	Rejected
R-13	2/22/2007	Rejected



Well ID	TCE Concentration (ppb)
ES-23	Data Rejected

Well ID	TCE Concentration (ppb)
R-13	Data Rejected

Well ID	TCE Concentration (ppb)
ES-28 ES-28†	4810 4850

Well ID	TCE Concentration (ppb)
ES-29	Data Rejected

Well ID	TCE Concentration (ppb)
ES-7	(0.510)

Well ID	TCE Concentration (ppb)
ES-13	Data Rejected

Well ID	TCE Concentration (ppb)
ES-14	(0.510)

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NOTES

LEGEND

- *SHADED CELLS INDICATE DETECTIONS ABOVE THE PCL (500 PPB)*
- *BOLDED CELLS INDICATE DETECTIONS BELOW THE PCL*
- *NUMBERS IN PARENTHESES INDICATE THE REPORTING LIMITS & THAT THE ANALYTE WAS NOT DETECTED IN THE SAMPLE.*
- *'DATA REJECTED' = DATA REJECTED DUE TO DETECTIONS IN EQUIPMENT BLANK*
- *† = DUPLICATE SAMPLE*
- *ONLY MONITORING WELLS ES-7, ES-13, ES-14, ES-23, ES-28, ES-29, AND R-13 SAMPLED.*

TERRAINE
Environmental Consulting

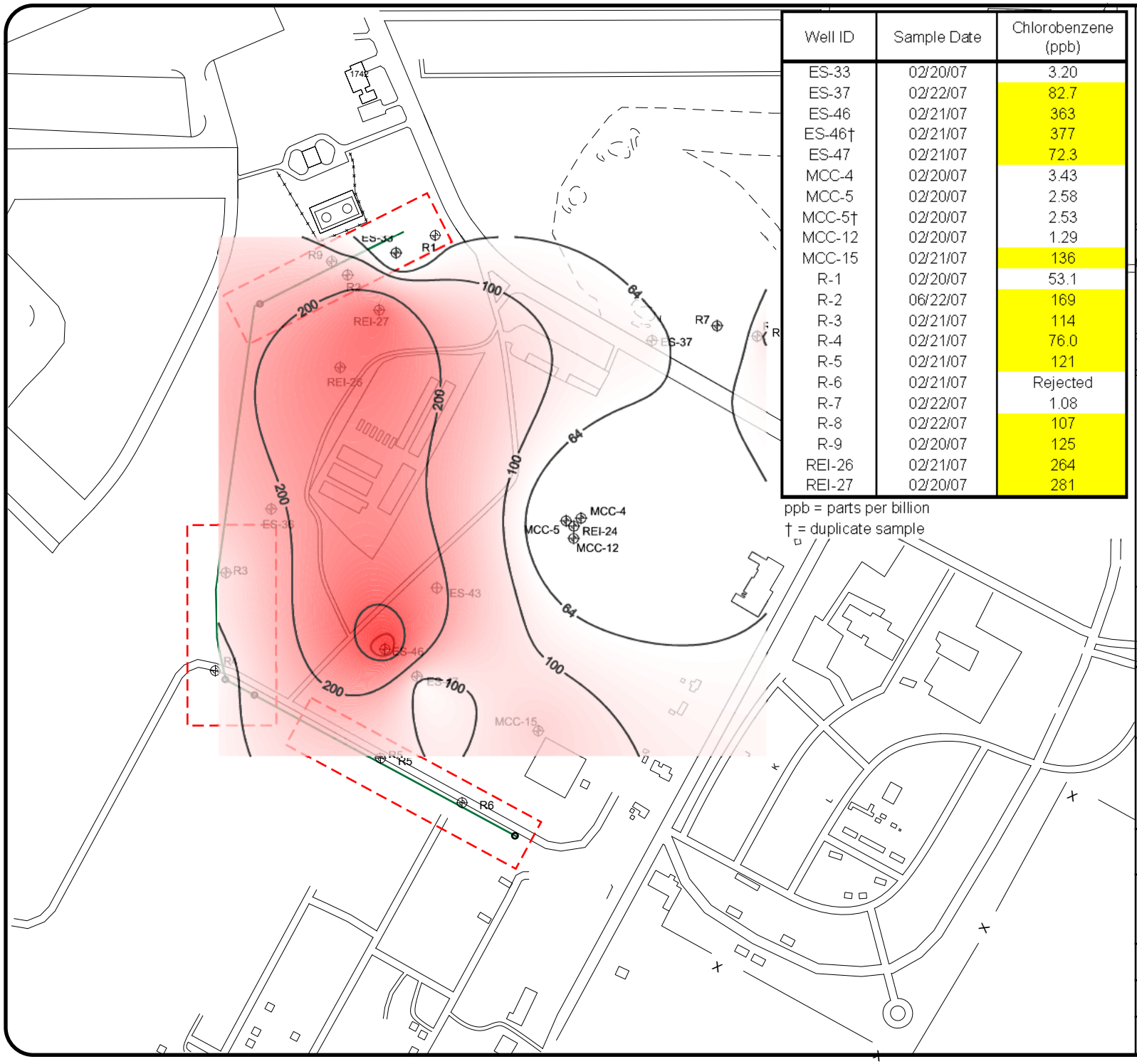
Naval Air Station Corpus Christi (NAS CC)

FIGURE 14
GROUNDWATER TAG MAP
TRICHLOROETHENE DETECTIONS
BUILDING 8, SHALLOW AQUIFER

Contract Number: N62467-02-G-0352
Contract Task Order: 0007

Prepared For
Naval Facilities Engineering Command Southeast

DWN BY: KLB	CHK BY: JLY
SCALE:	APR BY: JLY
DATE: 02-2007	FILE: 21003



Well ID	Sample Date	Chlorobenzene (ppb)
ES-33	02/20/07	3.20
ES-37	02/22/07	82.7
ES-46	02/21/07	363
ES-46†	02/21/07	377
ES-47	02/21/07	72.3
MCC-4	02/20/07	3.43
MCC-5	02/20/07	2.58
MCC-5†	02/20/07	2.53
MCC-12	02/20/07	1.29
MCC-15	02/21/07	136
R-1	02/20/07	53.1
R-2	06/22/07	169
R-3	02/21/07	114
R-4	02/21/07	76.0
R-5	02/21/07	121
R-6	02/21/07	Rejected
R-7	02/22/07	1.08
R-8	02/22/07	107
R-9	02/20/07	125
REI-26	02/21/07	264
REI-27	02/20/07	281

ppb = parts per billion
† = duplicate sample

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NOTES

CONTOUR PLOT GENERATED USING KRIGING ALGORITHM WITH LINEAR VARIOGRAM MODEL
IR SIte 1 = NOR Unit No. 001 (DPDO Landfill)
IR Site 3 = NOR Unit No. 003 (CCAD Liquid Landfill)
IR Site 4 = NOR Unit No. 004 (Aircraft Fire Training Area)

LEGEND

- SHADED CELLS INDICATE DETECTIONS ABOVE THE PCL (64 PPB)

- NUMBERS IN PARENTHESES INDICATE THE REPORTING LIMITS & THAT THE ANALYTE WAS NOT DETECTED IN THE SAMPLE.

-CONTOUR LINES ARE PLOTTED IN INCREMENTS OF 100 PPB

SURFACE WATER TRENCH

FRENCH DRAIN

CONDUIT LINE

TERRAINE
Environmental Consulting

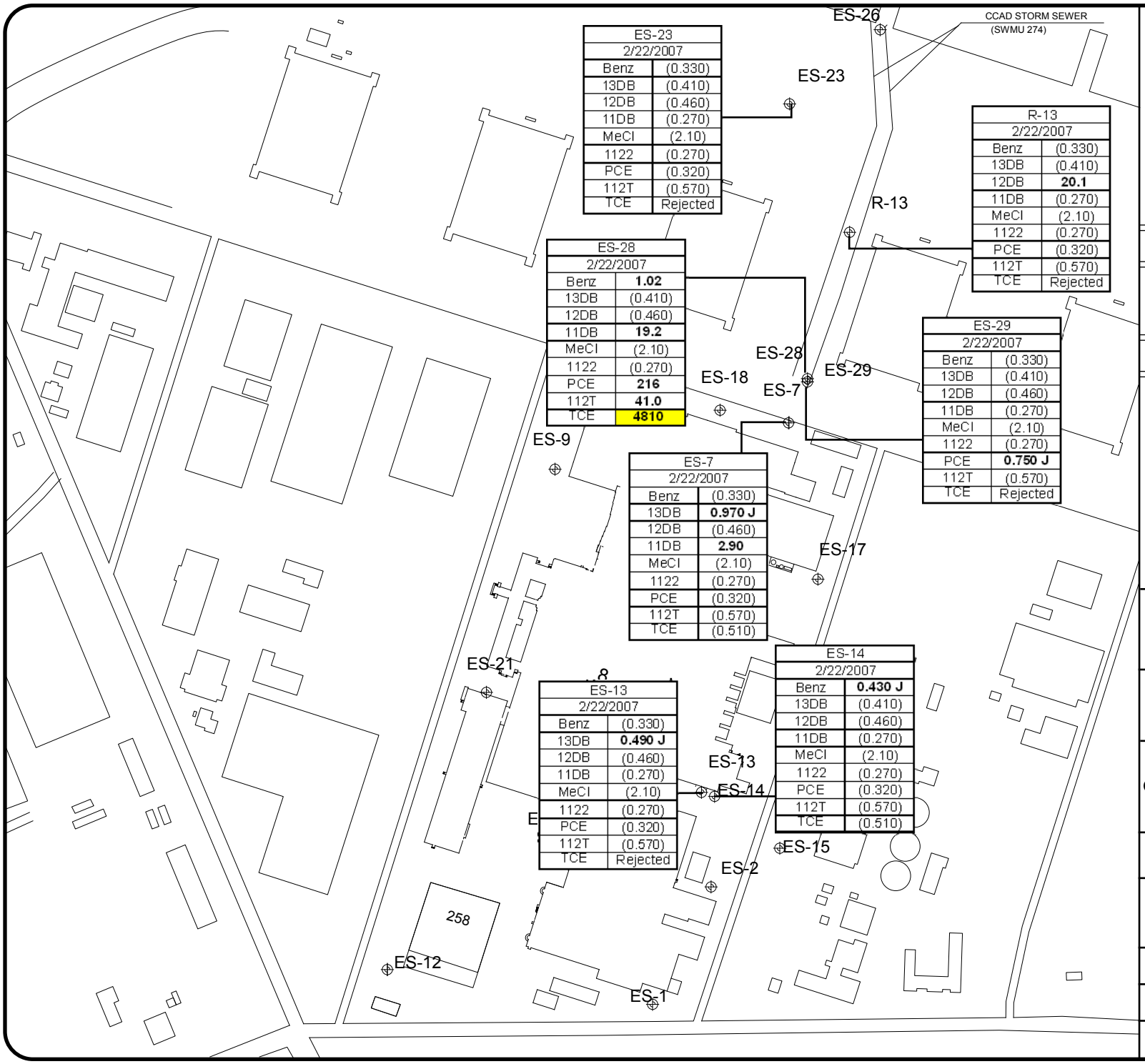
Naval Air Station Corpus Christi (NAS CC)

FIGURE 15
GROUNDWATER PLUME MAP
CHLOROBENZENE
IR SITES 1, 3, & 4, SHALLOW AQUIFER
2007 DATA

Contract Number: N62467-02-G-0352
Contract Task Order: 0007

Prepared For
Naval Facilities Engineering Command Southeast

DWN BY: KLB	CHK BY: JLY
SCALE:	APR BY: JLY
DATE: 02-2007	FILE: 21003



ES-23	
2/22/2007	
Benz	(0.330)
13DB	(0.410)
12DB	(0.460)
11DB	(0.270)
MeCl	(2.10)
1122	(0.270)
PCE	(0.320)
112T	(0.570)
TCE	Rejected

R-13	
2/22/2007	
Benz	(0.330)
13DB	(0.410)
12DB	**20.1**
11DB	(0.270)
MeCl	(2.10)
1122	(0.270)
PCE	(0.320)
112T	(0.570)
TCE	Rejected

ES-28	
2/22/2007	
Benz	**1.02**
13DB	(0.410)
12DB	(0.460)
11DB	**19.2**
MeCl	(2.10)
1122	(0.270)
PCE	**216**
112T	**41.0**
TCE	**4810**

ES-29	
2/22/2007	
Benz	(0.330)
13DB	(0.410)
12DB	(0.460)
11DB	(0.270)
MeCl	(2.10)
1122	(0.270)
PCE	**0.750 J**
112T	(0.570)
TCE	Rejected

ES-7	
2/22/2007	
Benz	(0.330)
13DB	**0.970 J**
12DB	(0.460)
11DB	**2.90**
MeCl	(2.10)
1122	(0.270)
PCE	(0.320)
112T	(0.570)
TCE	(0.510)

ES-13	
2/22/2007	
Benz	(0.330)
13DB	**0.490 J**
12DB	(0.460)
11DB	(0.270)
MeCl	(2.10)
1122	(0.270)
PCE	(0.320)
112T	(0.570)
TCE	Rejected

ES-14	
2/22/2007	
Benz	**0.430 J**
13DB	(0.410)
12DB	(0.460)
11DB	(0.270)
MeCl	(2.10)
1122	(0.270)
PCE	(0.320)
112T	(0.570)
TCE	(0.510)

NOTES

- *SHADED CELLS INDICATE DETECTIONS ABOVE THE PCL*
- *BOLDED CELLS INDICATE DETECTIONS BELOW THE PCL*
- *NUMBERS IN PARENTHESES INDICATE REPORTING LIMIT & THAT THE ANALYTE WAS NOT DETECTED IN THE SAMPLE.*

LEGEND

Well ID	
Sample Date	
Contaminant of Concern	GW PCL
Benzene (Benz)	300
1,3-Dichlorobenzene (13DB)	1,000
1,2-Dichloroethane (12DB)	300
1,1-Dichloroethene (11DB)	100
Methylene chloride (MeCl)	100
1,1,2,2-Tetrachloroethane (1122)	100
Tetrachloroethene (PCE)	500
1,1,2-Trichloroethane (112T)	100
Trichloroethene (TCE)	500

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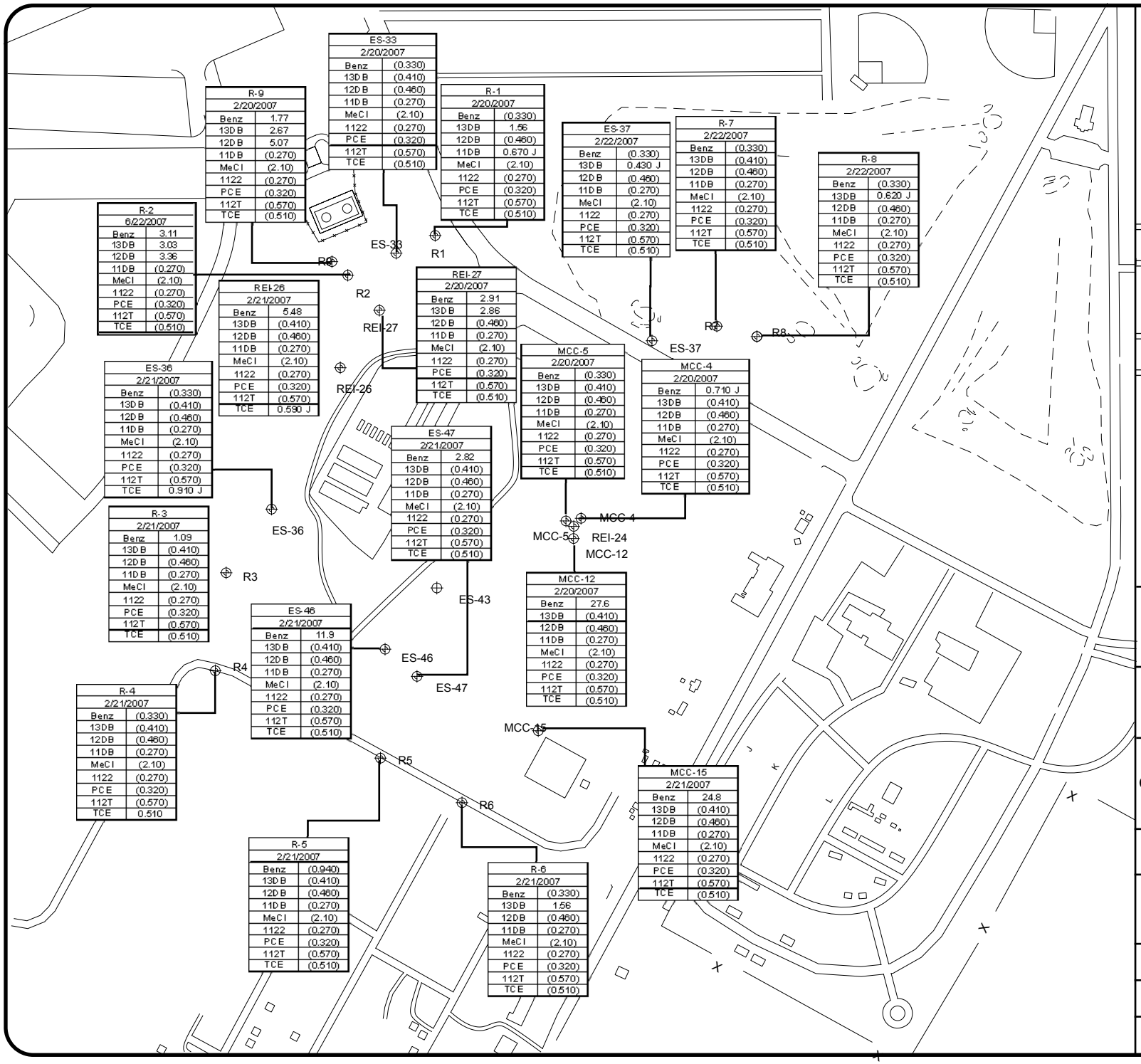
FIGURE 16
GROUNDWATER CONTAMINANT TAG MAP
BUILDING 8, SHALLOW AQUIFER

Contract Number: N62467-02-G-0352
Contract Task Order: 0007

Prepared For
Naval Facilities Engineering Command Southeast

DWN BY: KLB	CHK BY: JLY
SCALE:	APR BY: JLY
DATE: 02-2007	FILE: 21003



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NOTES

- SHADED CELLS INDICATE DETECTIONS ABOVE THE PCL
- BOLDED CELLS INDICATE DETECTIONS BELOW THE PCL
- NUMBERS IN PARENTHESES INDICATE THE REPORTING LIMITS & THAT THE ANALYTE WAS NOT DETECTED IN THE SAMPLE.

LEGEND

Well ID	
Sample Date	
Contaminant of Concern	GW PCL
Benzene (Benz)	300
1,3-Dichlorobenzene (13DB)	1,000
1,2-Dichloroethane (12DB)	300
1,1-Dichloroethene (11DB)	100
Methylene chloride (MeCl)	100
1,1,2,2-Tetrachloroethane (1122)	100
Tetrachloroethene (PCE)	500
1,1,2-Trichloroethane (112T)	100
Trichloroethene (TCE)	500

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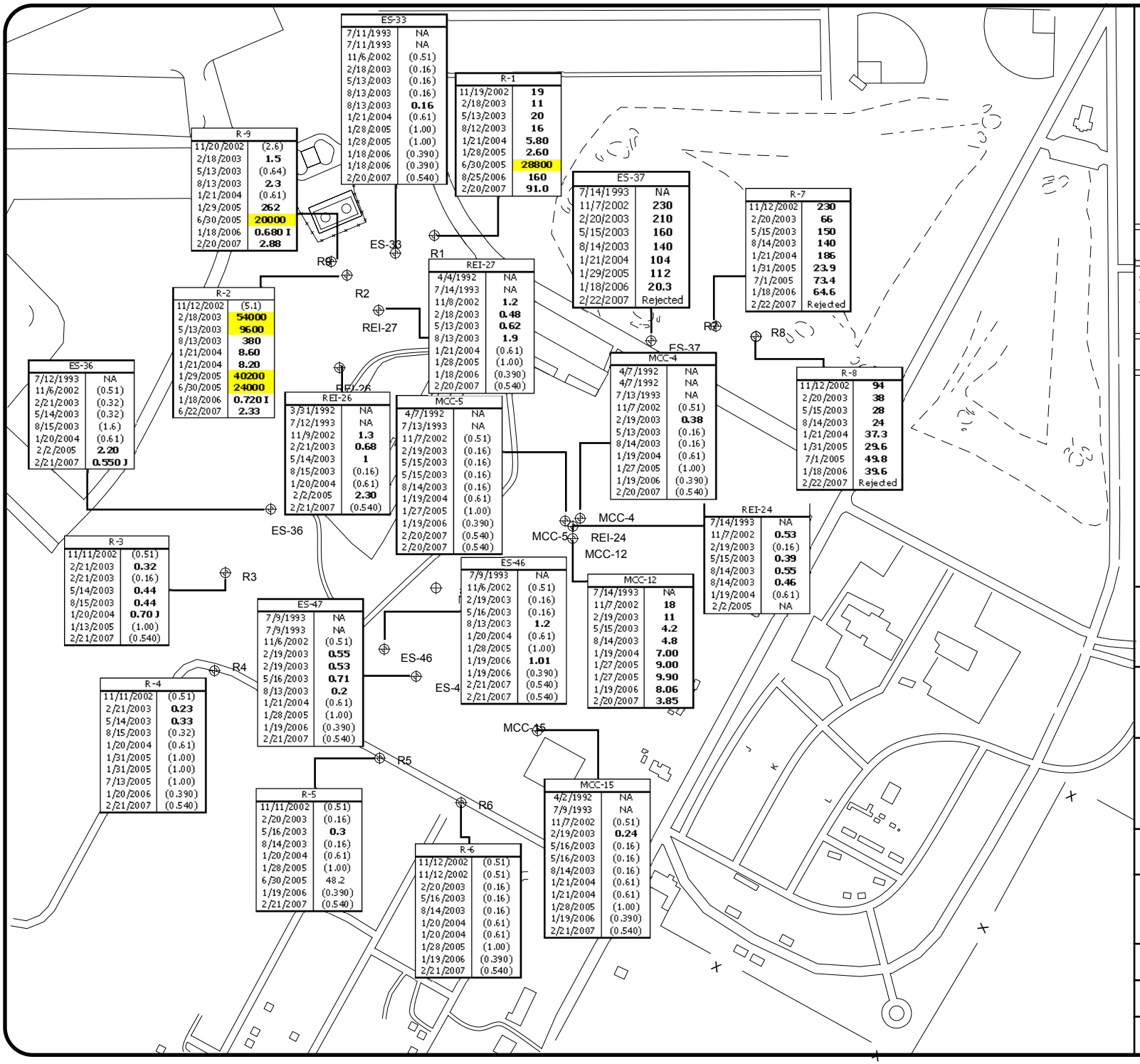
FIGURE 17
GROUNDWATER CONTAMINANT TAG MAP
IR SITES 1, 3 & 4, SHALLOW AQUIFER

Contract Number: N62467-02-G-0352
Contract Task Order: 0007

Prepared For
Naval Facilities Engineering Command Southeast

DWN BY: KLB	CHK BY: JLY
SCALE:	APR BY: JLY
DATE: 02-2007	FILE: 21003



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NOTES

- SHADED CELLS INDICATE DETECTIONS ABOVE THE PCL (7000 PPB)
- BOLDED CELLS INDICATE DETECTIONS BELOW THE PCL
- NUMBERS IN PARENTHESES INDICATE THE REPORTING LIMIT & THAT THE ANALYTE WAS NOT DETECTED IN THE SAMPLE.

LEGEND

Well ID	
Sampling Dates	Result (ppb)

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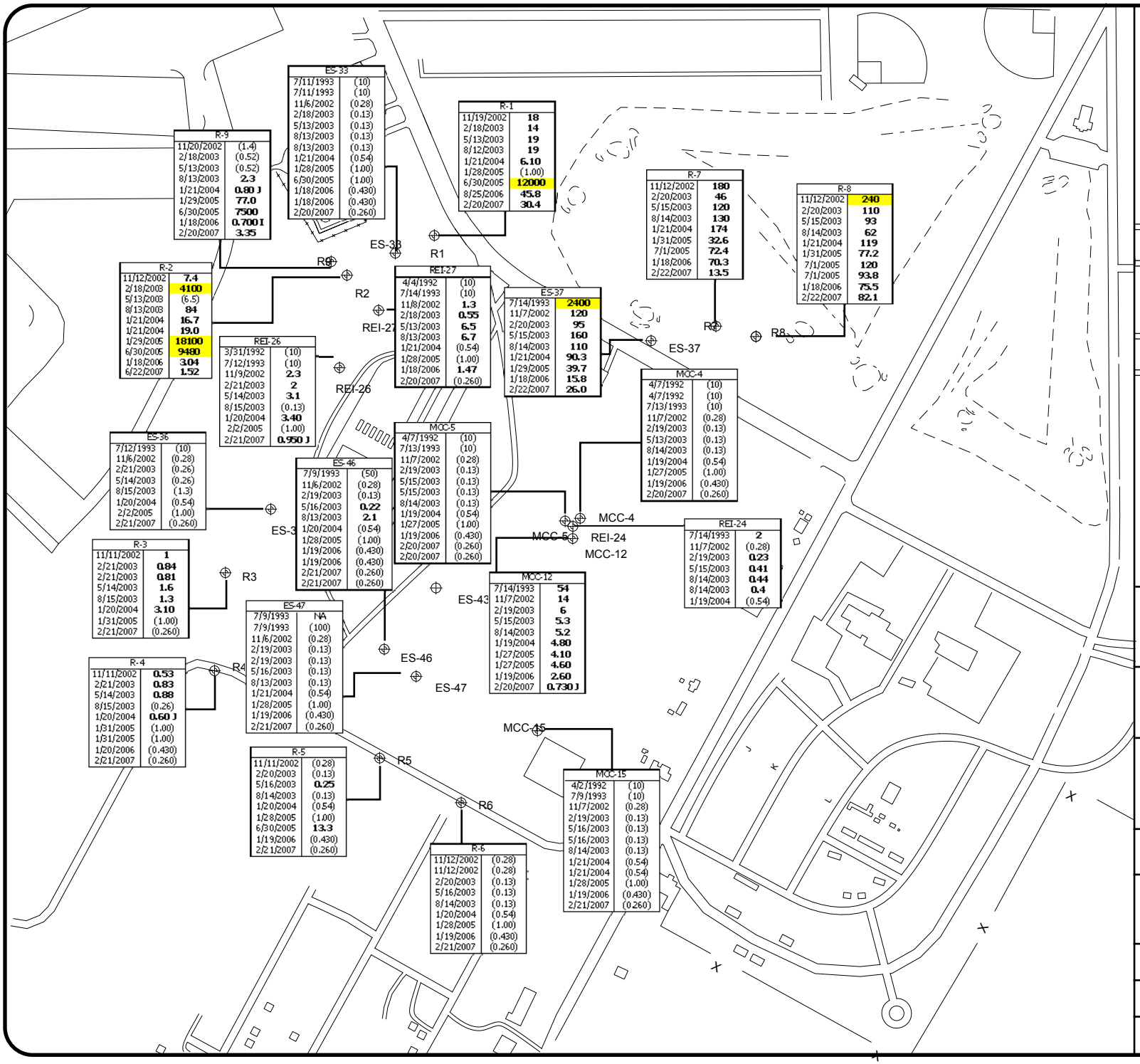
FIGURE 18
HISTORICAL GROUNDWATER TAG MAP
CIS-1, 2-DICHLOROETHENE
IR SITES 1, 3, & 4, SHALLOW AQUIFER

Contract Number: N62467-02-G-0352
Contract Task Order: 0007

Prepared For
Naval Facilities Engineering Command Southeast

DWN BY: KLB	CHK BY: JLY
SCALE:	APR BY: JLY
DATE: 02-2007	FILE: 21003



R-9	
11/20/2002	(1.4)
2/18/2003	(0.52)
5/13/2003	(0.52)
8/13/2003	**2.3**
1/21/2004	**0.80 J**
1/29/2005	**77.0**
6/30/2005	**7500**
1/18/2006	**0.700 I**
2/20/2007	**3.35**

ES-33	
7/11/1993	(10)
7/11/1993	(10)
11/6/2002	(0.28)
2/18/2003	(0.13)
5/13/2003	(0.13)
8/13/2003	(0.13)
8/13/2003	(0.13)
1/21/2004	(0.54)
1/28/2005	(1.00)
6/30/2005	(1.00)
1/18/2006	(0.430)
1/18/2006	(0.430)
2/20/2007	(0.260)

R-1	
11/19/2002	**18**
2/18/2003	**14**
5/13/2003	**19**
8/12/2003	**19**
1/21/2004	**6.10**
1/28/2005	(1.00)
6/30/2005	**12000**
8/25/2006	**45.8**
2/20/2007	**30.4**

R-7	
11/12/2002	**180**
2/20/2003	**46**
5/15/2003	**120**
8/14/2003	**130**
1/21/2004	**174**
1/31/2005	**32.6**
7/1/2005	**72.4**
1/18/2006	**70.3**
2/22/2007	**13.5**

R-8	
11/12/2002	**240**
2/20/2003	**110**
5/15/2003	**93**
8/14/2003	**62**
1/21/2004	**119**
1/31/2005	**77.2**
7/1/2005	**120**
7/1/2005	**93.8**
1/18/2006	**75.5**
2/22/2007	**82.1**

R-2	
11/12/2002	**7.4**
2/18/2003	**4100**
5/13/2003	(6.5)
8/13/2003	**84**
1/21/2004	**16.7**
1/21/2004	**19.0**
1/29/2005	**18100**
6/30/2005	**9480**
1/18/2006	**3.04**
6/22/2007	**1.52**

REI-27	
4/4/1992	(10)
7/14/1993	(10)
11/8/2002	**1.3**
2/18/2003	**0.55**
5/13/2003	**6.5**
8/13/2003	**6.7**
1/21/2004	(0.54)
1/28/2005	(1.00)
1/18/2006	**1.47**
2/20/2007	(0.260)

ES-37	
7/14/1993	**2400**
11/7/2002	**120**
2/20/2003	**95**
5/15/2003	**160**
8/14/2003	**110**
1/21/2004	**90.3**
1/29/2005	**39.7**
1/18/2006	**15.8**
2/22/2007	**26.0**

REI-26	
3/31/1992	(10)
7/12/1993	(10)
11/9/2002	**2.3**
2/21/2003	**2**
5/14/2003	**3.1**
8/15/2003	(0.13)
1/20/2004	**3.40**
2/2/2005	(1.00)
2/21/2007	**0.950 J**

MCC-4	
4/7/1992	(10)
4/7/1992	(10)
7/13/1993	(10)
11/7/2002	(0.28)
2/19/2003	(0.13)
5/13/2003	(0.13)
8/14/2003	(0.13)
1/19/2004	(0.54)
1/27/2005	(1.00)
1/19/2006	(0.430)
2/20/2007	(0.260)

ES-36	
7/12/1993	(10)
11/6/2002	(0.28)
2/21/2003	(0.26)
5/14/2003	(0.26)
8/15/2003	(1.3)
1/20/2004	(0.54)
2/2/2005	(1.00)
2/21/2007	(0.260)

ES-46	
7/9/1993	(50)
11/6/2002	(0.28)
2/19/2003	(0.13)
5/16/2003	**0.22**
8/13/2003	**2.1**
1/20/2004	(0.54)
1/28/2005	(1.00)
1/19/2006	(0.430)
1/19/2006	(0.430)
2/21/2007	(0.260)
2/21/2007	(0.260)

MCC-5	
4/7/1992	(10)
7/13/1993	(10)
11/7/2002	(0.28)
2/19/2003	(0.13)
5/15/2003	(0.13)
5/15/2003	(0.13)
8/14/2003	(0.13)
1/19/2004	(0.54)
1/27/2005	(1.00)
1/19/2006	(0.430)
2/20/2007	(0.260)
2/20/2007	(0.260)

R-3	
11/11/2002	**1**
2/21/2003	**0.84**
2/21/2003	**0.81**
5/14/2003	**1.6**
8/15/2003	**1.3**
1/20/2004	**3.10**
1/31/2005	(1.00)
2/21/2007	(0.260)

REI-24	
7/14/1993	**2**
11/7/2002	(0.28)
2/19/2003	**0.23**
5/15/2003	**0.41**
8/14/2003	**0.44**
8/14/2003	**0.4**
1/19/2004	(0.54)

MCC-12	
7/14/1993	**54**
11/7/2002	**14**
2/19/2003	**6**
5/15/2003	**5.3**
8/14/2003	**5.2**
1/19/2004	**4.80**
1/27/2005	**4.10**
1/27/2005	**4.60**
1/19/2006	**2.60**
2/20/2007	**0.730 J**

ES-47	
7/9/1993	NA
7/9/1993	(100)
11/6/2002	(0.28)
2/19/2003	(0.13)
2/19/2003	(0.13)
5/16/2003	(0.13)
8/13/2003	(0.13)
1/21/2004	(0.54)
1/28/2005	(1.00)
1/19/2006	(0.430)
2/21/2007	(0.260)

R-4	
11/11/2002	**0.53**
2/21/2003	**0.83**
5/14/2003	**0.88**
8/15/2003	(0.26)
1/20/2004	**0.60 J**
1/31/2005	(1.00)
1/31/2005	(1.00)
1/20/2006	(0.430)
2/21/2007	(0.260)

R-5	
11/11/2002	(0.28)
2/20/2003	(0.13)
5/16/2003	**0.25**
8/14/2003	(0.13)
1/20/2004	(0.54)
1/28/2005	(1.00)
6/30/2005	**13.3**
1/19/2006	(0.430)
2/21/2007	(0.260)

R-6	
11/12/2002	(0.28)
11/12/2002	(0.28)
2/20/2003	(0.13)
5/16/2003	(0.13)
8/14/2003	(0.13)
1/20/2004	(0.54)
1/28/2005	(1.00)
1/19/2006	(0.430)
2/21/2007	(0.260)

MCC-15	
4/2/1992	(10)
7/9/1993	(10)
11/7/2002	(0.28)
2/19/2003	(0.13)
5/16/2003	(0.13)
5/16/2003	(0.13)
8/14/2003	(0.13)
1/21/2004	(0.54)
1/21/2004	(0.54)
1/28/2005	(1.00)
1/19/2006	(0.430)
2/21/2007	(0.260)

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NOTES

- *SHADED CELLS INDICATE DETECTIONS ABOVE THE PCL (200 PPB)*
- *BOLDED CELLS INDICATE DETECTIONS BELOW THE PCL*
- *NUMBERS IN PARENTHESES INDICATE THE REPORTING LIMIT & THAT THE ANALYTE WAS NOT DETECTED IN THE SAMPLE.*

LEGEND

Well ID	
Sampling Dates	Result (ppb)

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FIGURE 19
HISTORICAL GROUNDWATER TAG MAP
VINYL CHLORIDE
IR SITES 1, 3, & 4, SHALLOW AQUIFER

Contract Number: N62467-02-G-0352
Contract Task Order: 0007

Prepared For
Naval Facilities Engineering Command Southeast

DWN BY: KLB	CHK BY: JLY
SCALE:	APR BY: JLY
DATE: 02-2007	FILE: 21003

Appendix B

Tables

Table 1	Summary of Field Parameter Data
Table 2	Depth to Water and Groundwater Elevations
Table 3	Historical Shallow Groundwater Analytical Data (ppb)
Table 4	Monitoring Well Information
Table 5	Building 8 Shallow Groundwater COC Analytical Data (ug/L)
Table 6	IR Site 1 Shallow Groundwater COC Analytical Data (ug/L)
Table 7	IR Site 3 Shallow Groundwater COC Analytical Data (ug/L)
Table 8	IR Site 4 Shallow Groundwater COC Analytical Data (ug/L)

Table 1
Summary of Field Parameter Data
Installation Restoration Sites 1, 3, and 4 (NOR Unit Numbers 001, 003, and 004) and Building 8

Well ID No.	Sample Date	Depth to Water (ft)	Purge Start Time	Purge End Time	Total Volume Purged (gal)	Sample Start Time	Sample End Time	Final DO (mg/L)	Final Temp (°C)	Final pH	Final Conductivity (us/cm)	Final ORP (mV)	Final Turbidity (NTU)
ES-7	2/22/2007	9.27	11:03:46	11:20:09	0.75	11:20:09	11:21:56	1.47	24.00	7.46	234	-39	37
ES-13	2/22/2007	3.51	12:07:20	12:22:39	0.75	12:22:39	12:24:16	0.53	24.60	12.53	453	-323	9
ES-14	2/22/2007	3.42	11:35:47	11:59:23	1.00	11:59:23	12:03:48	0.67	24.00	13.96	629	-361	45
ES-23	2/22/2007	4.85	18:10:09	18:24:49	0.75	18:24:49	18:25:10	1.14	23.40	6.97	96	-61	3
ES-28	2/22/2007	8.55	16:59:22	17:19:18	0.75	17:19:18	17:20:13	2.43	25.00	7.36	257	21	5
ES-29	2/22/2007	8.25	16:40:09	16:54:09	0.75	16:54:09	16:57:25	6.97	22.40	8.05	63	66	Not recorded
ES-33	2/20/2007	7.35	10:52:08	11:19:33	0.75	11:19:33	11:21:24	6.68	25.10	8.72	1799	-200	150
ES-36	2/21/2007	4.56	15:44:49	16:02:14	1.00	16:02:14	16:05:51	1.38	23.00	7.32	181	-137	220
ES-37	2/22/2007	1.41	15:21:35	15:34:27	0.75	15:34:27	15:36:19	1.03	19.30	7.01	65	-75	40
ES-46	2/21/2007	3.92	9:48:17	10:04:22	1.00	10:04:22	10:06:25	0.98	23.50	7.24	176	-119	14
ES-47	2/21/2007	4.70	10:18:37	10:36:03	1.00	10:36:03	10:37:25	1.23	23.60	7.37	156	-97	10
MCC-4	2/20/2007	4.72	14:44:11	15:09:49	0.75	15:09:49	15:12:09	1.14	24.40	7.68	708	-132	14
MCC-5	2/20/2007	4.91	15:52:04	16:23:55	0.75	16:23:55	16:25:15	1.04	25.10	6.20	946	-98	103
MCC-12	2/20/2007	5.78	15:13:23	15:39:22	0.75	15:39:22	15:41:52	Not recorded	26.60	7.13	114	-129	8
MCC-15	2/21/2007	6.25	10:49:29	11:06:36	1.00	11:06:36	11:10:54	1.15	23.00	7.29	139	-111	35
R-1	2/20/2007	2.91	12:16:37	12:43:50	0.75	12:43:50	12:46:33	8.00	22.80	8.02	3133	207	171
R-2	6/22/2007	2.76	8:00:00	9:25:00	1.60	9:30:00	Not recorded	0.37	22.17	6.71	714	-205.5	708.20
R-3	2/21/2007	3.54	15:08:38	15:29:27	0.75	15:29:27	15:32:50	2.98	21.80	6.87	188	-72	44
R-4	2/21/2007	4.81	14:37:20	14:54:48	0.75	14:54:48	14:58:21	2.97	22.34	6.46	140	-23	97
R-5	2/21/2007	4.62	11:48:49	12:10:13	1.00	12:10:13	12:13:36	2.10	23.20	7.07	125	-78	49
R-6	2/21/2007	5.05	11:17:25	11:35:33	1.00	11:35:33	11:38:58	1.14	23.40	7.60	134	-24	18
R-7	2/22/2007	1.25	15:42:38	15:55:32	0.75	15:55:32	15:57:00	1.39	20.00	7.29	182	-28	79
R-8	2/22/2007	1.67	16:02:23	16:13:56	0.75	16:13:56	16:15:14	2.52	20.00	6.71	316	-29	70
R-9	2/20/2007	1.55	14:04:13	14:21:34	0.75	14:21:34	14:23:12	2.12	20.30	6.92	3710	-206	51
R-13	2/22/2007	8.00	18:29:18	18:42:23	0.75	18:42:23	18:43:25	1.78	25.10	7.63	240	23	2
REI-26	2/21/2007	3.00	16:15:13	16:41:24	1.00	16:41:24	16:44:18	1.01	23.30	7.68	756	-115	227
REI-27	2/20/2007	3.10	9:38:52	10:09:10	0.75	10:09:10	10:12:02	Not recorded	26.20	6.10	2432	-218	120

Notes:
ORP: Oxidation Reduction Potential
DO: Dissolved Oxygen
mg/L: milligrams per liter
NTU: Nephelometric Turbidity Units
mV: millivolts
ft: feet
gal: gallons
°C: degrees Celcius
µS/cm: microsiemens per centimeter
Depth to water readings obtained just prior to sample collection
NA = Data not available

Table 2
Depth to Water and Groundwater Elevations
Installation Restoration Sites 1,3, and 4 (NOR Unit No. 001, 003, and 004) and Building 8

				November-02		February-03		May-03		August-03		January-04		January/February-05		January-06		February-07	
SHORT ID	EASTING	NORTHING	TOC, ft	DTW, ft	GWE, ft	DTW, ft	GWE, ft	DTW, ft	GWE, ft	DTW, ft	GWE, ft	DTW, ft	GWE, ft	DTW, ft	GWE, ft	DTW, ft	GWE, ft	DTW, ft	GWE, ft
ES-1	1380414.37	17143229.76	13.11	2.29	10.82	2.8	10.31	3.65	9.46	3.65	9.46	3.37	9.74	3.25	9.86	3.91	9.20	Not gauged	
ES-2	1380584.25	17143568.53	13.02	2.45	10.57	1.75	11.27	1.43	11.59	2.65	10.37	2.60	10.42	2.58	10.44	Not gauged/Not sampled[b]		Not gauged	
ES-7	1380870.42	17145045.85	13.18	10.31	2.87	8.63	4.55	9.17	4.01	9.46	3.72	9.31	3.87	9.13	4.05	10.09	3.09	9.27	3.91
ES-9	1380132.13	17144776.94	12.71	2.89	9.82	3.2	9.51	4.05	8.66	4.05	8.66	3.63	9.08	3.64	9.07	4.16	8.55	Not gauged	
ES-11	1380192.43	17143677.14	13.79	3.12	10.67	3.3	10.49	4.15	9.64	3.56	10.23	3.48	10.31	3.62	10.17	4.11	9.68	Not gauged	
ES-12	1379647.15	17143330.33	13.01	2.26	10.75	2.7	10.31	3.42	9.59	3.25	9.76	2.95	10.06	3.12	9.89	2.32	10.69	Not gauged	
ES-13	1380484.45	17144024.71	13.17	2.82	10.35	2.22	10.95	2.48	10.69	2.52	10.65	2.65	10.52	2.43	10.74	3.42	9.75	3.51	9.66
ES-14	1380540.71	17143951.33	13.19	2.67	10.52	2.24	10.95	2.80	10.39	2.75	10.44	2.75	10.44	2.79	10.40	Not gauged/sampled on 1/20/06		3.42	9.77
ES-15	1380780.88	17143681.61	13.34	2.24	11.10	3.2	10.14	4.61	8.73	3.30	10.04	3.07	10.27	3	10.34	Not gauged/sampled on 1/20/06		Not gauged	
ES-17	1380892.71	17144459.83	12.79	6.70	6.09	6.27	6.52	7.17	5.62	7.10	5.69	6.97	5.82	7.18	5.61	6.92	5.87	Not gauged	
ES-18	1380607.67	17144945.05	12.68	6.48	6.20	7.35	5.33	7.78	4.90	8.42	4.26	8.13	4.55	7.95	4.73	8.26	4.42	Not gauged	
ES-21	1379935.83	17144124.13	13.11	2.73	10.38	3.18	9.93	3.53	9.58	3.73	9.38	3.51	9.60	3.5	9.61	3.81	9.30	Not gauged	
ES-23	1380811.38	17145831.42	9.69	4.91	4.78	4.91	4.78	4.89	4.80	5.12	4.57	5.00	4.69	6.01	3.68	5.18	4.51	4.85	4.84
ES-26	1381072.61	17146049.51	8.40	6.35	2.05	6.98	1.42	6.70	1.70	6.75	1.65	6.72	1.68	7.15	1.25	Dry		Not gauged	
ES-28	1380800.69	17145061.53	12.33	7.90	4.43	7.9	4.43	8.37	3.96	8.25	4.08	8.40	3.93	8.31	4.02	8.50	3.83	8.55	3.78
ES-29	1380800.69	17145061.53	12.33	6.74	5.59	6.81	5.52	8.41	3.92	8.29	4.04	8.50	3.83	8.33	4.00	9.20	3.13	8.25	4.08
ES-32	NOT AVAILABLE		15.54	9.40	6.14	7.45	8.09	7.78	7.76	8.68	6.86	Not Sampled		Not Sampled		Not Sampled		Not gauged	
ES-33	1379930.98	17141027.77	16.42	5.19	11.23	2.02	14.40	3.51	12.91	4.55	11.87	2.34	14.08	2.36	14.06	4.88	11.54	7.35	9.07
ES-34	NOT AVAILABLE		15.99	9.55	6.44	7.67	8.32	8.72	7.27	8.80	7.19	Not Sampled		Not Sampled		Not Sampled		Not gauged	
ES-35	NOT AVAILABLE		17.93	13.40	4.53	10.98	6.95	11.50	6.43	11.86	6.07	Not Sampled		Not Sampled		Not Sampled		Not gauged	
ES-36	1379453.88	17139997.28	19.43	4.66	14.77	4.22	15.21	5.26	14.17	5.72	13.71	4.85	14.58	4.38	15.05	Not gauged/Not sampled[b]		4.56	14.87
ES-37	1380974.99	17140721.59	15.78	3.03	12.75	0.3	15.48	2.24	13.54	2.45	13.33	1.75	14.03	1.18	14.60	3.60	12.18	1.41	14.37
ES-39	NOT AVAILABLE		15.84	11.70	4.14	9.6	6.24	10.31	5.53	10.90	4.94	Not Sampled		Not Sampled		Not Sampled		Not gauged	
ES-41	NOT AVAILABLE		19.74	14.84	4.90	Not Sampled		Not Sampled		Not Sampled		Not Sampled		Not Sampled		Not Sampled		Not gauged	
ES-43	1380123.44	17139703.22	19.99	14.68	5.31	12.34	7.65	13.31	6.68	13.90	6.09	13.35	6.64	12.93	7.06	21.32[a]	-1.33[a]	13.01	6.98
ES-46	1379896.64	17139449.55	18.76	3.07	15.69	2.75	16.01	4.63	14.13	5.36	13.40	4.26	14.50	3.81	14.95	6.55	12.21	3.92	14.84
ES-47	1382794.47	17139386.23	19.49	4.02	15.47	3.3	16.19	5.28	14.21	6.46	13.03	5.09	14.40	4.74	14.75	7.70	11.79	4.70	14.79
ES-49	NOT AVAILABLE		14.41	7.75	6.66	8.59	5.82	9.05	5.36	9.52	4.89	Not Sampled		Not Sampled		Not Sampled		Not gauged	
ES-52	NOT AVAILABLE		12.24	6.59	5.65	4.96	7.28	5.85	6.39	6.49	5.75	Not Sampled		Not Sampled		Not Sampled		Not gauged	
MCC-4	1380690.16	17140001.39	20.66	4.41	16.25	3.17	17.49	5.40	15.26	6.06	14.60	5.24	15.42	5.01	15.65	7.95	12.71	7.95	12.71
MCC-5	1380648.82	17139981.59	21.01	5.09	15.92	3.29	17.72	5.60	15.41	5.26	15.75	5.37	15.64	5.21	15.80	8.11	12.90	8.11	12.90
MCC-12	1380669.89	17139923.02	21.82	6.22	15.60	4.22	17.60	6.29	15.53	7.00	14.82	6.50	15.32	5.26	16.56	9.10	12.72	5.78	16.04
MCC-15	1380545.73	17139154.69	20.34	6.88	13.46	4.83	15.51	6.74	13.60	7.67	12.67	6.90	13.44	6.54	13.80	9.18	11.16	6.25	14.09
R-1	1380096.15	17141126.93	16.17	3.46	12.71	2.1	14.07	3.41	12.76	4.05	12.12	2.18	13.99	1.81	14.36	Not gauged/Not sampled[b]		2.91	13.26
R-2	1379727.36	17140956.39	15.13	1.01	14.12	0.81	14.32	1.80	13.33	2.49	12.64	1.59	13.54	1.24	13.89	3.39	11.74	2.76[c]	12.37[c]
R-3	1379290.35	17139671.52	14.62	0.80	13.82	1.11	13.51	1.45	13.17	1.70	12.92	2.01	12.61	2.35	12.27	Not gauged/Not sampled[b]		3.54	11.08
R-4	1380543.69	17139364.32	16.88	4.12	12.76	4.43	12.45	4.91	11.97	5.07	11.81	4.55	12.33	4.51	12.37	Not gauged/ well sampled on 1/20/06		4.81	12.07
R-5	1379858.98	17139050.47	16.09	3.51	12.58	3.85	12.24	4.85	11.24	5.11	10.98	4.21	11.88	5.02	11.07	5.60	10.49	4.62	11.47
R-6	1380193.33	17139004.02	16.31	4.01	12.30	4.33	11.98	5.23	11.08	5.56	10.75	4.84	11.47	4.75	11.56	6.00	10.31	5.05	11.26
R-7	1381293.75	17140779.23	14.57	0.30	14.27	0.13	14.44	2.25	12.32	2.66	11.91	1.40	13.17	1.36	13.21	3.19	11.38	1.25	13.32
R-8	1381335.85	17140721.47	14.90	1.03	13.87	0.68	14.22	2.75	12.15	3.28	11.62	2.12	12.78	1.87	13.03	3.86	11.04	1.67	13.23
R-9	1379721.64	17141033.62	14.90	1.41	13.49	0.85	14.05	1.73	13.17	2.51	12.39	1.40	13.50	1.21	13.69	3.38	11.52	1.55	13.35
R-10	1380805.03	17145830.33	9.96	6.52	3.44	5.52	4.44	5.92	4.04	6.18	3.78	5.90	4.06	Not Sampled		8.17	1.79	Not gauged	
R-11	1379941.76	17144833.96	12.98	6.61	6.37	6.67	6.31	7.67	5.31	8.75	4.23	7.52	5.46	Not Sampled		Not Sampled		Not gauged	
R-12	1381090.47	17144695.98	13.01	8.28	4.73	9.81	3.20	9.81	3.20	8.87	4.14	8.20	4.81	Not Sampled		Not Sampled		Not gauged	
R-13	1380989.79	17145478.57	10.63	Not Sampled		Not Sampled		Not Sampled		7.58	3.05	7.18	3.45	8.09	2.54	8.42	2.21	8.00	2.63
REI-24	1380678.47	17139929.83	21.45	5.31	16.14	Free Product		Free Product		Free Product		8.60	12.85	13.22	8.23	13.41	8.04	Free product	
REI-26	1379739.94	17140647.20	17.57	4.84	12.73	1.24	16.33	3.81	13.76	4.20	13.37	2.60	14.97	2.64	14.93	Not gauged/ Not sampled		3.00	14.57
REI-27	1380849.26	17145058.37	17.62	6.22	11.40	2.43	15.19	3.93	13.69	4.35	13.27	2.89	14.73	2.71	14.91	5.10	12.52	3.10	14.52

Notes:
TOC - Top of Casing
DTW - Depth to Water
GWE - Groundwater Elevation
ft - feet
[a]Depth to water suspected inaccurate, groundwater elevation negative based on depth to water measurement. Groundwater elevation inaccurate
[b]Well could not be located
[c]Well could not be located during February 2007 sampling event. Waterlevel measured June 22, 2007.
Easting and Northing are in State Plane Coordinates, Texas South, NAD 83

Table 3: Historical Shallow Groundwater Analytical Data (ppb)

Well ID	Sample ID	Sample Date	Cadmium	Lead	Benzene	Chlorobenzene	1,3-Dichlorobenzene	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	Methylene chloride	1,1,2,2-Tetrachloroethane	Tetrachloroethene	1,1,2-Trichloroethane	Trichloroethene	Vinyl chloride
		SW PCL				64										
		GW PCL	300	1,500	300	10,000	1,000	300	100	7,000	100	100	500	100	500	200
ES-1	063G08ES01	6/21/1993	(3)	**24.7**	(10)	(10)	NA	(10)	(10)	NA	(10)	(10)	(10)	(10)	(10)	(10)
	063H08ES01	6/21/1993	(3)	(10.6)	(10)	(10)	NA	(10)	(10)	NA	(10)	(10)	(10)	(10)	(10)	(10)
	CRPGES0106	11/8/2002	NA	NA	(0.1)	(0.09)	NA	(0.46)	**0.28**	(0.51)	(0.25)	(0.13)	(0.38)	(0.15)	**0.18**	(0.28)
	CRPGES0107	2/24/2003	NA	NA	(0.096)	(0.1)	NA	(0.18)	(0.31)	(0.16)	(0.61)	(0.17)	(0.43)	(0.11)	(0.13)	(0.13)
	CRPGES0108	5/17/2003	NA	NA	(0.12)	(0.1)	NA	(0.18)	(0.31)	(0.16)	(0.61)	(0.17)	(0.43)	(0.11)	(0.13)	**0.31**
	CRPGES0109	8/18/2003	NA	NA	(0.096)	(0.1)	NA	(0.18)	(0.31)	(0.16)	(0.61)	(0.17)	(0.43)	(0.11)	(0.13)	**0.13**
	04-A10198	1/18/2004	NA	NA	(0.50)	(0.22)	(0.30)	(0.65)	(0.61)	(0.61)	(2.45)	(0.42)	(0.43)	(0.45)	**0.7 J**	(0.54)
	05-A15764	1/30/2005	NA	NA	(1.00)	**1.30**	(1.00)	(1.00)	(1.00)	(1.00)	(2.50)	(1.00)	(1.00)	(1.00)	(1.00)	(1.00)
	NPA2485	1/24/2006	NA	NA	(0.290)	(0.320)	(0.360)	(0.280)	(0.450)	(0.390)	(1.26)	(0.490)	(0.390)	(0.420)	(0.450)	(0.430)
DUPLICATE	NPA2485-07	1/24/2006	NA	NA	(0.290)	(0.320)	(0.360)	(0.280)	(0.450)	(0.390)	(1.26)	(0.490)	(0.390)	(0.420)	(0.450)	(0.430)
ES-2	063G08ES02	6/21/1993	(3)	(4.7)	(10)	(10)	NA	(10)	(10)	NA	(10)	(10)	(10)	(10)	(10)	(10)
	CRPGES0206	11/10/2002	NA	NA	(0.1)	(0.09)	NA	(0.46)	(0.19)	(0.51)	(0.25)	(0.13)	(0.38)	(0.15)	(0.17)	(0.28)
	CRPHES0206	11/10/2002	NA	NA	(0.1)	(0.09)	NA	(0.46)	(0.19)	(0.51)	(0.25)	(0.13)	(0.38)	(0.15)	**0.28**	(0.28)
	CRPGES0207	2/22/2003	NA	NA	(0.096)	(0.1)	NA	(0.18)	(0.31)	(0.16)	(0.61)	(0.17)	(0.43)	(0.11)	**0.23**	(0.13)
	CRPGES0208	5/17/2003	NA	NA	(0.096)	(0.1)	NA	(0.18)	(0.31)	(0.16)	(0.61)	(0.17)	(0.43)	(0.11)	(0.13)	(0.13)
	CRPHES0208	5/17/2003	NA	NA	(0.096)	(0.1)	NA	(0.18)	(0.31)	(0.16)	(0.61)	(0.17)	(0.43)	(0.11)	(0.13)	(0.13)
	CRPGES0209	8/16/2003	NA	NA	(0.096)	(0.1)	NA	(0.18)	(0.31)	(0.16)	(0.61)	(0.17)	(0.43)	(0.11)	(0.13)	(0.13)
	CRPHES0209	8/16/2003	NA	NA	(0.096)	(0.1)	NA	(0.18)	(0.31)	(0.16)	(0.61)	(0.17)	(0.43)	(0.11)	(0.13)	(0.13)
	04-A10203	1/18/2004	NA	NA	(0.50)	(0.22)	(0.30)	(0.65)	(0.61)	(0.61)	(2.45)	(0.42)	(0.43)	(0.45)	(0.36)	(0.54)
	05-A17521	2/4/2005	NA	NA	(0.30)	(0.21)	(0.33)	(0.43)	(0.31)	(0.61)	(1.88)	(0.38)	(0.50)	(0.49)	(0.33)	**0.90 I**
ES-7	063G08ES07	6/22/1993	(3)	(2)	(10)	(10)	NA	(10)	(10)	NA	(10)	(10)	(10)	(10)	**2**	(10)
	CRPGES0706	11/9/2002	NA	NA	(0.1)	(0.09)	NA	(0.46)	(0.19)	**1.6**	(0.25)	(0.13)	(0.38)	(0.15)	**0.21**	(0.28)
	CRPGES0707	2/20/2003	NA	NA	(0.096)	(0.1)	NA	(0.18)	(0.31)	**1.4**	(0.61)	(0.17)	(0.43)	(0.11)	**0.15**	**0.28**
	CRPGES0708	5/16/2003	NA	NA	(0.096)	(0.1)	NA	(0.18)	**0.31**	**1.6**	(0.61)	(0.17)	(0.43)	(0.11)	**0.19**	**0.63**
	CRPGES0709	8/16/2003	NA	NA	(0.096)	(0.1)	NA	(0.18)	**0.91**	**1.7**	(0.61)	(0.17)	(0.43)	(0.11)	**0.27**	**1.2**
	04-A10197	1/17/2004	NA	NA	(0.50)	(0.22)	**0.90 J**	(0.65)	(0.61)	**4.3**	(2.45)	(0.42)	(0.43)	(0.45)	**11.30**	(0.54)
	05-A15805	1/29/2005	NA	NA	(1.00)	**6.40**	**1.00**	(1.00)	**1.10**	**16.1**	(2.50)	(1.00)	(1.00)	(1.00)	(1.00)	**1.60**
ES-7A [DUPLICATE]	05-A15806	1/29/2005	NA	NA	(1.00)	**5.40**	**1.00**	(1.00)	**1.40**	**14.6**	(2.50)	(1.00)	(1.00)	(1.00)	(1.00)	**1.60**
	NPA2611-01	1/20/2006	NA	NA	(0.290)	(0.320)	**0.490 I**	(0.280)	**1.48**	**1.90**	(1.26)	(0.490)	(0.390)	(0.420)	(0.450)	(0.430)
[DUPLICATE]	NPA2611-07	1/20/2006	NA	NA	(0.290)	(0.320)	**0.600 I**	(0.280)	**1.57**	**1.94**	(1.26)	(0.490)	(0.390)	(0.420)	(0.450)	**0.630 I**
	NQB3195-07	2/22/2007	NA	NA	(0.330)	**1.41**	**0.970 J**	(0.460)	**2.90**	Rejected	(2.10)	(0.270)	(0.320)	(0.570)	(0.510)	**0.810 J**
ES-9	063G08ES09	6/22/1993	(3)	(14.6)	(10)	(10)	NA	(10)	(10)	NA	(10)	(10)	(10)	(10)	(10)	(10)
	CRPGES0906	11/10/2002	NA	NA	(0.1)	(0.09)	NA	(0.46)	(0.19)	(0.51)	(0.25)	(0.13)	(0.38)	(0.15)	**0.22**	(0.28)
	CRPGES0907	2/22/2003	NA	NA	(0.096)	(0.1)	NA	(0.18)	(0.31)	(0.16)	(0.61)	(0.17)	(0.43)	(0.11)	(0.13)	(0.13)
	CRPGES0908	5/17/2003	NA	NA	(0.096)	(0.1)	NA	(0.18)	(0.31)	(0.16)	(0.61)	(0.17)	(0.43)	(0.11)	(0.13)	(0.13)
	CRPGES0909	8/16/2003	NA	NA	(0.096)	(0.1)	NA	(0.18)	(0.31)	(0.16)	(0.61)	(0.17)	(0.43)	(0.11)	(0.13)	(0.13)
	04-A10205	1/18/2004	NA	NA	(0.50)	(0.22)	(0.30)	(0.65)	(0.61)	(0.61)	(2.45)	(0.42)	(0.43)	(0.45)	(0.36)	(0.54)
	05-A15765	1/29/2005	NA	NA	(1.00)	**7.30**	(1.00)	(1.00)	(1.00)	**33.9**	(2.50)	(1.00)	(1.00)	(1.00)	(1.00)	**4.70**
	NPA2485-05	1/24/2006	NA	NA	(0.290)	(0.320)	(0.360)	(0.280)	(0.450)	(0.390)	(1.26)	(0.490)	(0.390)	(0.420)	(0.450)	(0.430)
ES-11	063G08ES11	6/22/1993	**9.1**	**31.2**	(10)	(10)	NA	(10)	**4**	NA	(10)	(10)	(10)	(10)	(10)	(10)
	CRPGES1106	11/11/2002	NA	NA	(0.1)	(0.09)	NA	(0.46)	**1.6**	**1.4**	(0.25)	(0.13)	(0.38)	(0.15)	(0.17)	(0.28)
	CRPGES1107	2/22/2003	NA	NA	(0.096)	(0.1)	NA	(0.18)	(0.31)	**0.82**	(0.61)	(0.17)	(0.43)	(0.11)	**0.55**	(0.13)
	CRPGES1108	5/19/2003	NA	NA	(0.098)	(0.1)	NA	(0.18)	**8.2**	**6.2**	(0.61)	(0.17)	(0.43)	(0.11)	(0.18)	**0.21**
	CRPGES1109	8/17/2003	NA	NA	(0.096)	(0.1)	NA	(0.18)	**4.1**	**1.4**	(0.61)	(0.17)	(0.43)	(0.11)	(0.13)	(0.13)
	04-A10199	1/18/2004	NA	NA	(0.50)	(0.22)	(0.30)	(0.65)	**3.80**	**6.00**	(2.45)	(0.42)	(0.43)	(0.45)	**0.60 J**	(0.54)
	05-A15766	1/30/2005	NA	NA	(1.00)	**2.10**	(1.00)	(1.00)	**5.30**	**7.80**	(2.50)	(1.00)	(1.00)	(1.00)	**1.10**	(1.00)
	NPA2485-02	1/24/2006	NA	NA	(0.290)	(0.320)	(0.360)	(0.280)	**6.29**	**8.97**	(1.26)	(0.490)	(0.390)	(0.420)	(0.450)	(0.430)
ES-12	063G08ES12	6/22/1993	**10.6**	**52**	(10)	(10)	NA	(10)	(10)	NA	(10)	(10)	(10)	(10)	(10)	(10)
	063H08ES12	6/22/1993	**16.6**	**44.5**	(10)	(10)	NA	(10)	(10)	NA	(10)	(10)	(10)	(10)	(10)	(10)
	CRPGES1206	11/8/2002	NA	NA	(0.1)	(0.09)	NA	(0.46)	(0.19)	(0.51)	(0.25)	(0.13)	(0.38)	(0.15)	(0.17)	(0.28)
	CRPGES1207	2/24/2003	NA	NA	(0.096)	(0.1)	NA	(0.18)	(0.31)	(0.16)	(0.61)	(0.17)	(0.43)	(0.11)	(0.13)	(0.13)
	CRPGES1208	5/17/2003	NA	NA	(0.26)	(0.1)	NA	(0.18)	(0.31)	(0.16)	(0.61)	(0.17)	(0.43)	(0.11)	(0.13)	(0.13)
	CRPGES1209	8/17/2003	NA	NA	(0.096)	(0.1)	NA	(0.18)	(0.31)	(0.16)	(0.61)	(0.17)	(0.43)	(0.11)	(0.13)	(0.13)
	04-A10200	1/18/2004	NA	NA	(0.50)	(0.22)	(0.30)	(0.65)	(0.61)	(0.61)	(2.45)	(0.42)	(0.43)	(0.45)	**0.50 J**	(0.54)
	05-A15797	1/30/2005	NA	NA	(1.00)	**1.80**	(1.00)	(1.00)	(1.00)	(1.00)	(2.50)	(1.00)	(1.00)	(1.00)	**1.10**	(1.00)
ES-12A [DUPLICATE]	05-A15798	1/30/2005	NA	NA	(1.00)	**1.70**	(1.00)	(1.00)	(1.00)	(1.00)	(2.50)	(1.00)	(1.00)	(1.00)	**1.10**	(1.00)
	NPA2485-03	1/24/2006	NA	NA	(0.290)	(0.320)	(0.360)	(0.280)	(0.450)	(0.390)	(1.26)	(0.490)	(0.390)	(0.420)	(0.450)	(0.430)
ES-13	CRPGES1306	11/21/2002	**6.8**	**110**	**0.74**	**15**	Rejected	(0.46)	**0.72**	**140**	(0.25)	(0.13)	(0.38)	(0.15)	**6.8**	**190**
	CRPGES1307	2/22/2003	NA	NA	**0.62**	**11**	NA	(0.36)	(0.62)	**140**	(1.2)	(0.34)	(0.86)	(0.22)	**4.7**	**170**
	CRPGES1308	5/17/2003	NA	NA	**0.29**	**8.3**	NA	(0.18)	(0.31)	**44**	(0.61)	(0.17)	(0.43)	(0.11)	**1.8**	**72**
	CRPGES1309	8/17/2003	NA	NA	(0.96)	**9.5**	NA	(1.8)	(3.1)	**97**	(6.1)	(1.7)	(4.3)	(1.1)	**4.8**	**150**
	04-A10208	1/19/2004	NA	NA	(0.50)	**8.60**	**1.00**	(0.65)	(0.61)	**73.3**	(2.45)	(0.42)	(0.43)	(0.45)	**3.50**	**133**
	05-A17518	2/4/2005	NA	NA	(0.30)	**5.40**	**0.60 I**	(0.43)	(0.31)	**51.5**	(1.88)	(0.38)	(0.50)	(0.49)	**2.50**	**100**
ES-13A [DUPLICATE]	05-A17519	2/4/2005	NA	NA	(0.30)	**6.80**	**0.70I**	(0.43)	(0.31)	**51.9**	(1.88)	(0.38)	(0.50)	(0.49)	**2.80**	**108**
	NPA2611-06	1/20/2006	NA	NA	(0.290)	**5.12**	(0.360)	(0.280)	(0.450)	**59.0**	(1.26)	(0.490)	(0.390)	(0.420)	**1.71**	**85.6**
	NQB3195-09	2/22/2007	NA	NA	(0.330)	**4.92**	**0.490 J**	(0.460)	(0.270)	Rejected	(2.10)	(0.270)	(0.320)	(0.570)	Rejected	**68.5**

Table 3: Historical Shallow Groundwater Analytical Data (ppb)

Well ID	Sample ID	Sample Date	Cadmium	Lead	Benzene	Chlorobenzene	1,3-Dichlorobenzene	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	Methylene chloride	1,1,2,2-Tetrachloroethane	Tetrachloroethene	1,1,2-Trichloroethane	Trichloroethene	Vinyl chloride
		SW PCL				64										
		GW PCL	300	1,500	300	10,000	1,000	300	100	7,000	100	100	500	100	500	200
ES-14	CRPGES1406	11/21/2002	NA	NA	**0.36**	**0.87**	NA	(0.46)	(0.19)	(0.51)	(0.25)	(0.13)	(0.38)	(0.15)	(0.17)	**1.1**
	CRPGES1407	2/22/2003	NA	NA	**0.46**	(0.1)	NA	(0.18)	(0.31)	(0.16)	(0.61)	(0.17)	(0.43)	(0.11)	(0.13)	(0.13)
	CRPGES1408	5/17/2003	NA	NA	**0.57**	**1.1**	NA	(0.18)	(0.31)	**2.6**	(0.61)	(0.17)	(0.43)	(0.11)	(0.13)	**2.4**
	CRPGES1409	8/17/2003	NA	NA	(0.96)	(1)	NA	(1.8)	(3.1)	**5.3**	(6.1)	(1.7)	(4.3)	(1.1)	(1.3)	**5**
	04-A10209	1/19/2004	NA	NA	**0.5 J**	**0.60 J**	(0.30)	(0.65)	(0.61)	**0.80 J**	(2.45)	(0.42)	(0.43)	(0.45)	(0.36)	**2.70**
	05-A17520	2/4/2005	NA	NA	(0.30)	(0.21)	(0.33)	(0.43)	(0.31)	**1.4**	(1.88)	(0.38)	(0.50)	(0.49)	(0.33)	**2.6**
	NPA2611-05	1/20/2006	NA	NA	**14.6 I**	**17.0 I**	(7.20)	(5.60)	**13.0 I**	**24.8**	(25.2)	(9.80)	**13.4 I**	**20.2**	**13.8 I**	**15.2 I**
	NQB3195-08	2/22/2007	NA	NA	**0.430 J**	**1.78**	(0.410)	(0.460)	(0.270)	Rejected	(2.10)	(0.270)	(0.320)	(0.570)	(0.510)	**1.69**
ES-15	CRPGES1506	11/11/2002	NA	NA	(0.1)	(0.09)	NA	(0.46)	(0.19)	(0.51)	(0.25)	(0.13)	(0.38)	(0.15)	(0.17)	(0.28)
	CRPGES1507	2/24/2003	NA	NA	(0.096)	(0.1)	NA	(0.18)	(0.31)	(0.16)	(0.61)	(0.17)	(0.43)	(0.11)	(0.13)	(0.13)
	CRPGES1508	5/19/2003	NA	NA	(0.096)	(0.1)	NA	(0.18)	(0.31)	(0.16)	(0.61)	(0.17)	(0.43)	(0.11)	(0.13)	(0.13)
	CRPGES1509	8/17/2003	NA	NA	(0.096)	(0.1)	NA	(0.18)	(0.31)	(0.16)	(0.61)	(0.17)	(0.43)	(0.11)	(0.13)	(0.13)
	04-A10201	1/18/2004	NA	NA	(0.50)	(0.22)	(0.30)	(0.65)	(0.61)	(0.61)	(2.45)	(0.42)	(0.43)	(0.45)	(0.36)	(0.54)
duplicate	04-A10206	1/18/2004	NA	NA	(0.50)	(0.22)	(0.30)	(0.65)	(0.61)	(0.61)	(2.45)	(0.42)	(0.43)	(0.45)	(0.36)	(0.54)
	05-A15767	1/30/2005	NA	NA	(1.00)	**2.50**	(1.00)	(1.00)	(1.00)	(1.00)	(2.50)	(1.00)	(1.00)	(1.00)	**1.60**	(1.00)
	NPA2611-04	1/20/2006	NA	NA	(0.290)	(0.320)	(0.360)	(0.280)	(0.450)	(0.390)	(1.26)	(0.490)	(0.390)	(0.420)	(0.450)	(0.430)
ES-17	CRPGES1706	11/8/2002	NA	NA	(0.1)	(0.09)	NA	(0.46)	(0.19)	**6.9**	(0.25)	(0.13)	(0.38)	(0.15)	**0.76**	**0.53**
	CRPGES1707	2/22/2003	NA	NA	(0.096)	(0.1)	NA	(0.18)	(0.31)	**12**	(0.61)	(0.17)	(0.43)	(0.11)	**1.3**	(0.13)
	CRPGES1708	5/19/2003	NA	NA	**0.4**	(0.1)	NA	(0.18)	(0.31)	**28**	(0.61)	(0.17)	**0.62**	(0.11)	**3**	**5.8**
	CRPGES1709	8/18/2003	NA	NA	(0.096)	(0.1)	NA	(0.18)	(0.31)	**23**	(0.61)	(0.17)	(0.43)	(0.11)	**1.6**	**5**
	04-A10202	1/18/2004	NA	NA	(0.50)	(0.22)	(0.30)	(0.65)	(0.61)	**4.50**	(2.45)	(0.42)	(0.43)	(0.45)	**0.60 J**	(0.54)
	05-A15768	1/29/2005	NA	NA	(1.00)	**2.40**	(1.00)	(1.00)	(1.00)	**14.30**	(2.50)	(1.00)	(1.00)	(1.00)	**13.90**	(1.00)
	NPA2611-03	1/20/2006	NA	NA	(0.290)	(0.320)	(0.360)	(0.280)	(0.450)	**6.09**	(1.26)	(0.490)	(0.390)	(0.420)	(0.450)	(0.430)
ES-18	CRPGES1806	11/8/2002	NA	NA	**0.59**	(0.18)	NA	**68**	**2.9**	**360**	(0.5)	(0.26)	**4.1**	(0.3)	**75**	(0.56)
	CRPGES1807	2/20/2003	NA	NA	**0.18**	(0.1)	NA	**5.9**	**0.51**	**62**	(0.61)	(0.17)	(0.43)	(0.11)	**4.8**	**14**
	CRPGES1808	5/16/2003	NA	NA	**0.3**	(0.1)	NA	**8.4**	**1.2**	**140**	(0.61)	(0.17)	(0.43)	(0.11)	**7.2**	**51**
	CRPGES1809	8/16/2003	NA	NA	(0.096)	**4**	NA	**60**	**3.5**	**360**	(0.61)	(0.17)	**4.4**	(0.11)	**55**	**76**
	04-A10194	1/17/2004	NA	NA	(0.50)	**3.00**	**1.10**	**61.9**	**2.50**	**290**	(2.45)	(0.42)	**2.10**	(0.45)	**53.9**	**42.4**
	05-A15769	1/29/2005	NA	NA	(1.00)	**7.00**	(1.00)	**2.70**	(1.00)	**106**	(2.50)	(1.00)	(1.00)	(1.00)	**2.1**	**34.6**
	NPA2449-04	1/17/2006	NA	NA	**0.360 I**	**1.36**	**0.510 I**	**6.48**	**1.29**	**100**	(1.26)	(0.490)	**0.530 I**	(0.42)	**18.4**	**33.3**
ES-21	CRPGES2106	11/11/2002	NA	NA	(0.12)	(0.09)	NA	(0.46)	(0.19)	(0.51)	(0.25)	(0.13)	(0.38)	(0.15)	**0.27**	(0.28)
	CRPGES2107	2/22/2003	NA	NA	(0.096)	(0.1)	NA	(0.18)	(0.31)	(0.16)	(0.61)	(0.17)	(0.43)	(0.11)	**0.44**	(0.13)
	CRPGES2108	5/19/2003	NA	NA	(0.096)	(0.1)	NA	(0.18)	(0.31)	(0.16)	(0.61)	(0.17)	(0.43)	(0.11)	(0.13)	(0.13)
	CRPGES2109	8/18/2003	NA	NA	(0.096)	(0.1)	NA	(0.18)	(0.31)	(0.16)	(0.61)	(0.17)	(0.43)	(0.11)	(0.13)	(0.13)
	04-A10204	1/18/2004	NA	NA	(0.50)	(0.22)	(0.30)	(0.65)	(0.61)	(0.61)	(2.45)	(0.42)	(0.43)	(0.45)	(0.36)	(0.54)
	05-A15770	1/30/2005	NA	NA	(1.00)	**1.10**	(1.00)	(1.00)	(1.00)	(1.00)	(2.50)	(1.00)	(1.00)	(1.00)	(1.00)	(1.00)
	NPA2485-04	1/24/2006	NA	NA	(0.290)	(0.320)	(0.360)	(0.280)	(0.450)	(0.390)	(1.26)	(0.490)	(0.390)	(0.420)	(0.450)	(0.430)
ES-23	CRPGES2306	11/9/2002	NA	NA	(0.1)	(0.09)	NA	(0.46)	(0.19)	(0.51)	(0.25)	(0.13)	(0.38)	(0.15)	**0.23**	(0.28)
	CRPHES2306	11/9/2002	NA	NA	(0.1)	(0.09)	NA	(0.46)	(0.19)	(0.51)	(0.25)	(0.13)	(0.38)	(0.15)	**0.18**	(0.28)
	CRPGES2307	2/20/2003	NA	NA	(0.096)	(0.1)	NA	(0.18)	(0.31)	**0.21**	(0.61)	(0.17)	(0.43)	(0.11)	(0.13)	(0.13)
	CRPHES2307	2/20/2003	NA	NA	(0.096)	**0.44**	NA	**0.23**	**0.36**	**0.56**	(0.61)	**0.82**	**0.65**	**0.29**	**0.53**	**0.23**
	CRPGES2308	5/14/2003	NA	NA	(0.096)	(0.1)	NA	(0.18)	(0.31)	(0.16)	(0.61)	(0.17)	(0.43)	(0.11)	(0.13)	(0.13)
	CRPGES2309	8/15/2003	NA	NA	(0.096)	(0.1)	NA	(0.18)	(0.31)	(0.16)	(0.61)	(0.17)	(0.43)	(0.11)	(0.13)	(0.13)
	04-A10219	1/20/2004	NA	NA	(0.50)	(0.22)	(0.30)	(0.65)	(0.61)	(0.61)	(2.45)	(0.42)	(0.43)	(0.45)	(0.36)	(0.54)
	05-A15771	2/2/2005	NA	NA	(1.00)	(1.00)	(1.00)	(1.00)	(1.00)	(1.00)	(2.50)	(1.00)	(1.00)	(1.00)	(1.00)	(1.00)
	NPA2449-12	1/18/2006	NA	NA	(0.290)	**0.830 I**	(0.360)	(0.280)	(0.450)	(0.390)	(1.26)	(0.490)	(0.390)	(0.420)	(0.450)	(0.430)
	NQB3195-16	2/22/2007	NA	NA	(0.330)	(0.340)	(0.410)	(0.460)	(0.270)	Rejected	(2.10)	(0.270)	(0.320)	(0.570)	Rejected	(0.260)
ES-26	CRPGES2606	11/9/2002	(0.6)	(2.8)	(0.1)	(0.09)	(0.32)	(0.46)	(0.19)	(0.51)	(0.25)	(0.13)	(0.38)	(0.15)	(0.17)	(0.28)
	CRPGES2607	2/20/2003	NA	NA	(0.096)	(0.1)	NA	(0.18)	(0.31)	(0.16)	(0.61)	(0.17)	(0.43)	(0.11)	(0.13)	(0.13)
	CRPGES2608	5/14/2003	NA	NA	(0.096)	(0.1)	NA	(0.18)	(0.31)	(0.16)	(0.61)	(0.17)	(0.43)	(0.11)	(0.13)	(0.13)
	CRPGES2609	8/15/2003	NA	NA	(0.096)	(0.1)	NA	(0.18)	(0.31)	(0.16)	(0.61)	(0.17)	(0.43)	(0.11)	(0.13)	(0.13)
	04-A10220	1/20/2004	NA	NA	(0.50)	(0.22)	(0.30)	(0.65)	(0.61)	(0.61)	(2.45)	(0.42)	(0.43)	(0.45)	(0.36)	(0.54)
	05-A15772	2/2/2005	NA	NA	(1.0)	(1.00)	(1.00)	(1.00)	(1.00)	(1.00)	(2.50)	(1.00)	(1.00)	(1.00)	(1.00)	(1.00)
	NPA2449-11	1/18/2006	NA	NA	(0.290)	**1.65**	(0.360)	(0.280)	(0.450)	(0.390)	(1.26)	(0.490)	(0.390)	(0.420)	(0.450)	(0.430)

Table 3: Historical Shallow Groundwater Analytical Data (ppb)

Well ID	Sample ID	Sample Date	Cadmium	Lead	Benzene	Chlorobenzene	1,3-Dichlorobenzene	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	Methylene chloride	1,1,2,2-Tetrachloroethane	Tetrachloroethene	1,1,2-Trichloroethane	Trichloroethene	Vinyl chloride
		SW PCL				64										
		GW PCL	300	1,500	300	10,000	1,000	300	100	7,000	100	100	500	100	500	200
ES-28	CRPGES2806	11/9/2002	(0.6)	(2.8)	(2.5)	(2.2)	(0.32)	33	18	1900	(6.2)	(3.2)	200	41	3200	18
	CRPGES2807	2/22/2003	NA	NA	1.2	(0.1)	NA	46	16	1800	(0.61)	(0.17)	210	41	3300	15
	CRPGES2808	5/17/2003	NA	NA	2.9	(2)	NA	40	24	2000	(12)	(3.4)	240	39	3900	28
	CRPGES2809	8/17/2003	NA	NA	(4.8)	(5)	NA	40	30	2400	(30)	(8.5)	180	(5.5)	4400	24
	04-A10195	1/17/2004	NA	NA	1.0	0.40 J	(0.30)	39.2	15.5	1540	(2.45)	(0.42)	166	38.5	3750	15.0
	05-A15773	1/29/2005	NA	NA	(1.0)	6.90	(1.00)	32.5	15.5	1880	(2.50)	(1.00)	135	37.8	5200	13.7
	NPA2449-02	1/17/2006	NA	NA	1.07	0.530 I	(0.360)	38.0	17.1	1700 D	(1.26)	(0.490)	169	41.9	5340	15.4
	NQB3195-14	2/22/2007	NA	NA	1.02	1.04	(0.410)	(0.460)	19.2	1700	(2.10)	(0.270)	216	41.0	4810	23.2
ES-28 DUP [DUPLICATE]	NQB3195-15	2/22/2007	NA	NA	0.980 J	0.960 J	(0.410)	(0.460)	20.1	1630	(2.10)	(0.270)	218	42.8	4850	24.4
ES-29	CRPGES2906	11/9/2002	NA	NA	(0.1)	(0.09)	NA	(0.46)	(0.19)	(0.51)	(0.25)	(0.13)	(0.38)	(0.15)	(0.17)	(0.28)
	CRPGES2907	2/22/2003	NA	NA	(0.096)	(0.1)	NA	(0.18)	(0.31)	(0.16)	(0.61)	(0.17)	(0.43)	(0.11)	(0.13)	(0.13)
	CRPGES2908	5/17/2003	NA	NA	(0.096)	(0.1)	NA	(0.18)	(0.31)	0.76	(0.61)	(0.17)	(0.43)	(0.11)	1.4	(0.13)
	CRPGES2909	8/17/2003	NA	NA	(0.096)	(0.1)	NA	(0.18)	(0.31)	0.75	(0.61)	(0.17)	(0.43)	(0.11)	0.74	0.26
	04-A10196	1/17/2004	NA	NA	(0.50)	(0.22)	(0.30)	(0.65)	(0.61)	(0.61)	(2.45)	(0.42)	(0.43)	(0.45)	(0.36)	(0.54)
	05-A15774	1/29/2005	NA	NA	(1.0)	7.20	(1.00)	(1.00)	(1.00)	52.30	(2.50)	(1.00)	2.10	(1.00)	86.4	2.10
	NPA2449-03	1/17/2006	NA	NA	0.740 I	0.580 I	(0.360)	22.6	9.69	1660 D	(1.26)	(0.490)	15.0	11.0	1230 D	322 D
	NPH4008-06	8/25/2006	NA	NA	(1.00)	(1.00)	(1.00)	(1.00)	(1.00)	122	(5.00)	(1.00)	(1.00)	(1.00)	37.8	5.09
	NQB3195-13	2/22/2007	NA	NA	(0.330)	0.860 J	(0.410)	(0.460)	(0.270)	Rejected	(2.10)	(0.270)	0.750 J	(0.570)	Rejected	0.650 J
R-13	CRPGR01309	8/15/2003	NA	NA	(0.096)	(0.1)	NA	18	(0.31)	5.8	(0.61)	(0.17)	(0.43)	(0.11)	1	(0.13)
	CRPHR01309	8/15/2003	NA	NA	(0.096)	(0.1)	NA	19	(0.31)	6	(0.61)	(0.17)	(0.43)	(0.11)	0.99	(0.13)
	04-A10224	1/20/2004	NA	NA	(0.50)	(0.22)	(0.30)	18.6	(0.61)	5.00	(2.45)	(0.42)	(0.43)	(0.45)	1.10	(0.54)
	05-A15801	2/2/2005	NA	NA	(1.00)	(1.00)	(1.00)	15.2	(1.00)	5.00	(2.50)	(1.00)	(1.00)	(1.00)	1.50	(1.00)
R-13A [DUPLICATE]	05-A15802	2/2/2005	NA	NA	(1.00)	(1.00)	(1.00)	15.4	(1.00)	5.00	(2.50)	(1.00)	(1.00)	(1.00)	1.60	(1.00)
	NPA2449-10	1/18/2006	NA	NA	(0.290)	1.84	(0.360)	23.6	(0.450)	6.19	(1.26)	(0.490)	(0.390)	(0.420)	1.28	(0.430)
	NQB3195-17	2/22/2007	NA	NA	(0.330)	(0.340)	(0.410)	20.1	(0.270)	Rejected	(2.10)	(0.270)	(0.320)	(0.570)	Rejected	(0.260)
ES-33	073G01ES33	7/11/1993	(3)	(2)	(10)	12	(10)	(1)	(10)	NA	(10)	(10)	(10)	(10)	(10)	(10)
	073H01ES33	7/11/1993	(3)	(2)	(10)	14	(10)	(10)	(10)	NA	(10)	(10)	(10)	(10)	(10)	(10)
	CRPGES3306	11/6/2002	NA	NA	(0.1)	(0.09)	NA	(0.46)	(0.19)	(0.51)	(0.25)	(0.13)	(0.38)	(0.15)	(0.17)	(0.28)
	CRPGES3307	2/18/2003	NA	NA	(0.096)	0.14	NA	(0.18)	(0.31)	(0.16)	(0.61)	(0.17)	(0.43)	(0.11)	(0.13)	(0.13)
	CRPGES3308	5/13/2003	NA	NA	(0.096)	21	NA	(0.18)	(0.31)	(0.16)	(0.61)	(0.17)	(0.43)	(0.11)	(0.13)	(0.13)
	CRPGES3309	8/13/2003	NA	NA	(0.11)	29	NA	(0.18)	(0.31)	(0.16)	(0.61)	(0.17)	(0.43)	(0.11)	(0.13)	(0.13)
	CRPHES3309	8/13/2003	NA	NA	(0.17)	29	NA	(0.18)	(0.31)	0.16	(0.61)	(0.17)	(0.43)	(0.11)	0.14	(0.13)
	04-A10232	1/21/2004	NA	NA	(0.50)	Rejected	(0.30)	(0.65)	(0.61)	(0.61)	(2.45)	(0.42)	(0.43)	(0.45)	(0.36)	(0.54)
	05-A14795	1/28/2005	NA	NA	(1.00)	8.00	(1.00)	(1.00)	(1.00)	(1.00)	(2.50)	(1.00)	(1.00)	(1.00)	(1.00)	(1.00)
ES-33A [DUPLICATE]	05-A14796	1/28/2005	NA	NA	(1.00)	9.00	(1.00)	(1.00)	(1.00)	(1.00)	(2.50)	(1.00)	(1.00)	(1.00)	(1.00)	(1.00)
	05-A96974	6/30/2005	NA	NA	(1.0)	15.0	(1.00)	(1.00)	(1.00)	(1.00)	(2.50)	(1.00)	(1.00)	(1.00)	(1.00)	(1.00)
	NPA2449-07	1/18/2006	NA	NA	0.320 I	28.6	(0.360)	(0.280)	(0.450)	(0.390)	(1.26)	(0.490)	(0.390)	(0.420)	(0.450)	(0.430)
[DUPLICATE]	NPA2449-08	1/18/2006	NA	NA	0.370 I	36.0	(0.360)	(0.280)	(0.450)	(0.390)	(1.26)	(0.490)	(0.390)	(0.420)	0.450 I	(0.430)
	NQB3195-28	2/20/2007	NA	NA	(0.330)	3.20	(0.410)	(0.460)	(0.270)	(0.540)	(2.10)	(0.270)	(0.320)	(0.570)	(0.510)	(0.260)
ES-36	073G01ES36	7/12/1993	(3)	(2)	27	490	(10)	(10)	(10)	NA	(10)	(10)	(10)	(10)	30	(10)
	CRPGES3606	11/6/2002	NA	NA	20	300	NA	(0.46)	(0.19)	(0.51)	(0.25)	(0.13)	(0.38)	(0.15)	0.22	(0.28)
	CRPGES3607	2/21/2003	NA	NA	19	240	NA	(0.36)	(0.62)	(0.32)	(1.2)	(0.34)	(0.86)	(0.22)	(0.26)	(0.26)
	CRPGES3608	5/14/2003	NA	NA	27	310	NA	(0.36)	(0.62)	(0.32)	(1.2)	(0.34)	(0.86)	(0.22)	0.3	(0.26)
	CRPGES3609	8/15/2003	NA	NA	31	310	NA	(1.8)	(3.1)	(1.6)	(6.1)	(1.7)	(4.3)	(1.1)	(1.3)	(1.3)
	04-A10221	1/20/2004	NA	NA	6.4	312	(0.30)	(0.65)	(0.61)	(0.61)	(2.45)	(0.42)	(0.43)	(0.45)	(0.36)	(0.54)
	05-A15774	2/2/2005	NA	NA	(1.0)	(1.00)	(1.00)	7.00	(1.00)	2.20	(2.50)	(1.00)	(1.00)	(1.00)	(1.00)	(1.00)
	NQB3195-01	2/21/2007	NA	NA	(0.330)	190	(0.410)	(0.460)	(0.270)	0.550 J	(2.10)	(0.270)	(0.320)	(0.570)	0.910 J	(0.260)
ES-37	073G03ES37	7/14/1993	(3)	47.5	(10)	21	(10)	(10)	3	NA	(10)	(10)	(10)	(10)	(10)	2400
	CRPGES3706	11/7/2002	NA	NA	(0.17)	0.96	NA	(0.46)	1.1	230	(0.25)	(0.13)	(0.38)	(0.15)	(0.17)	120
	CRPGES3707	2/20/2003	NA	NA	(0.19)	2.1	NA	(0.36)	1	210	(1.2)	(0.34)	(0.86)	(0.22)	(0.26)	95
	CRPGES3708	5/15/2003	NA	NA	0.1	1.7	NA	(0.18)	0.61	160	(0.61)	(0.17)	(0.43)	(0.11)	(0.13)	160
	CRPGES3709	8/14/2003	NA	NA	(0.17)	3	NA	(0.18)	0.71	140	(0.61)	(0.17)	(0.43)	(0.11)	(0.13)	110
	04-A10233	1/21/2004	NA	NA	(0.50)	Rejected	(0.30)	(0.65)	(0.61)	104	(2.45)	(0.42)	(0.43)	(0.45)	(0.36)	90.3
	05-A15776	1/29/2005	NA	NA	(1.00)	47.4	(1.00)	(1.00)	(1.00)	112	(2.50)	(1.00)	(1.00)	(1.00)	(1.00)	39.7
	NPA2449-14	1/18/2006	NA	NA	(0.290)	175	(0.360)	(0.280)	(0.450)	20.3	(1.26)	(0.490)	(0.390)	(0.420)	(0.450)	15.8
	NQB3195-10	2/22/2007	NA	NA	(0.330)	82.7	0.430 J	(0.460)	(0.270)	Rejected	(2.10)	(0.270)	(0.320)	(0.570)	(0.510)	26.0
ES-46	073G04ES46	7/9/1993	(3)	(2)	120	320	(190)	(50)	(50)	NA	(50)	(50)	(50)	(50)	(50)	(50)
	CRPGES4606	11/6/2002	NA	NA	36	220	NA	(0.46)	(0.19)	(0.51)	(0.25)	(0.13)	(0.38)	(0.15)	(0.17)	(0.28)
	CRPGES4607	2/19/2003	NA	NA	17	210	NA	(0.18)	(0.31)	(0.16)	(0.61)	(0.17)	(0.43)	(0.11)	(0.13)	(0.13)
	CRPGES4608	5/16/2003	NA	NA	20	250	NA	(0.18)	(0.31)	(0.16)	(0.61)	(0.17)	(0.43)	(0.11)	(0.13)	0.22
	CRPGES4609	8/13/2003	NA	NA	13	180	NA	(0.9)	1.9	1.2	(3)	(0.85)	(2.2)	(0.55)	(1.2)	2.1
	04-A10222	1/20/2004	NA	NA	13.4	150	(0.30)	(0.65)	(0.61)	(0.61)	(2.45)	(0.42)	(0.43)	(0.45)	(0.36)	(0.54)
	05-A15807	1/28/2005	NA	NA	18.1	189	(1.00)	(1.00)	(1.00)	(1.00)	(2.50)	(1.00)	(1.00)	(1.00)	(1.00)	(1.00)
	NPA2224-01	1/19/2006	NA	NA	75.3	403	(0.360)	(0.280)	(0.450)	1.01	(1.26)	(0.490)	(0.390)	(0.420)	(0.450)	(0.430)
ES-46 [DUPLICATE]	NPA2224-10	1/19/2006	NA	NA	71.0	450	(0.360)	(0.320)	(0.450)	(0.390)	(1.26)	(0.490)	(0.390)	(0.420)	(0.450)	(0.430)
	NQB3195-19	2/21/2007	NA	NA	11.9	363	(0.410)	(0.460)	(0.270)	(0.540)	(2.10)	(0.270)	(0.320)	(0.570)	(0.510)	(0.260)
ES 46 DUP [DUPLICATE]	NQB3195-20	2/21/2007	NA	NA	10.7	377	(0.410)	(0.460)	(0.270)	(0.540)	(2.10)	(0.270)	(0.320)	(0.570)	(0.510)	(0.260)

Table 3: Historical Shallow Groundwater Analytical Data (ppb)

Well ID	Sample ID	Sample Date	Cadmium	Lead	Benzene	Chlorobenzene	1,3-Dichlorobenzene	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	Methylene chloride	1,1,2,2-Tetrachloroethane	Tetrachloroethene	1,1,2-Trichloroethane	Trichloroethene	Vinyl chloride
		SW PCL				64										
		GW PCL	300	1,500	300	10,000	1,000	300	100	7,000	100	100	500	100	500	200
ES-47	073G04ES47	7/9/1993	(3)	(2)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	074G04ES47	7/9/1993	**29.3**	**258**	**49**	**270**	**1**	(100)	(100)	NA	(100)	(100)	(100)	(100)	(100)	(100)
	CRPGES4706	11/6/2002	NA	NA	(0.1)	**0.45**	NA	(0.46)	(0.19)	(0.51)	(0.25)	(0.13)	(0.38)	(0.15)	(0.17)	(0.28)
	CRPGES4707	2/19/2003	NA	NA	**2.2**	**33**	NA	(0.18)	(0.31)	**0.55**	(0.61)	(0.17)	(0.43)	(0.11)	(0.13)	(0.13)
	CRPHES4707	2/19/2003	NA	NA	**2.2**	**31**	NA	(0.18)	(0.31)	**0.53**	(0.61)	(0.17)	(0.43)	(0.11)	(0.13)	(0.13)
	CRPGES4708	5/16/2003	NA	NA	**3.3**	**120**	NA	(0.18)	(0.31)	**0.71**	(0.61)	(0.17)	(0.43)	(0.11)	**0.29**	(0.13)
	CRPGES4709	8/13/2003	NA	NA	**3.5**	**100**	NA	(0.18)	(0.31)	**0.2**	(0.61)	(0.17)	(0.43)	(0.11)	(0.13)	(0.13)
	04-A10234	1/21/2004	NA	NA	(0.50)	Rejected	(0.30)	(0.65)	(0.61)	(0.61)	(2.45)	(0.42)	(0.43)	(0.45)	(0.36)	(0.54)
	05-A15808	1/28/2005	NA	NA	**2.3**	**56.1**	(1.00)	(1.00)	(1.00)	(1.00)	(2.50)	(1.00)	(1.00)	(1.00)	(1.00)	(1.00)
	NPA2224-02	1/19/2006	NA	NA	**1.33**	**174**	(0.360)	(0.280)	(0.450)	(0.390)	(1.26)	(0.490)	(0.390)	(0.420)	(0.450)	(0.430)
	NQB3195-21	2/21/2007	NA	NA	**2.82**	**72.3**	(0.410)	(0.460)	(0.270)	(0.540)	(2.10)	(0.270)	(0.320)	(0.570)	(0.510)	(0.260)
MCC-4	042G3MCC04	4/7/1992	**7.4**	**20.6**	(10)	**3**	(10)	(10)	(10)	NA	(10)	(10)	(10)	(10)	(10)	(10)
	042H3MCC04	4/7/1992	**8**	**20.8**	(10)	(10)	NA	(10)	(10)	NA	(10)	(10)	(10)	(10)	(10)	(10)
	073G3MCC04	7/13/1993	(3)	(2)	**1**	**6**	(10)	(10)	(10)	NA	(10)	(10)	(10)	(10)	(10)	(10)
	CRPGMC0406	11/7/2002	NA	NA	**1.3**	**6.9**	NA	(0.46)	(0.19)	(0.51)	(0.25)	(0.13)	(0.38)	(0.15)	(0.17)	(0.28)
	CRPGMC0407	2/19/2003	NA	NA	**1.3**	**5.8**	NA	(0.18)	(0.31)	**0.38**	(0.61)	(0.17)	(0.43)	(0.11)	(0.13)	(0.13)
	CRPGMC0408	5/13/2003	NA	NA	**2**	**9.3**	NA	(0.18)	(0.31)	(0.16)	(0.61)	(0.17)	(0.43)	(0.11)	(0.13)	(0.13)
	CRPGMC0409	8/14/2003	NA	NA	(0.99)	**4.6**	NA	(0.18)	(0.31)	(0.16)	(0.61)	(0.17)	(0.43)	(0.11)	(0.13)	(0.13)
	04-A10213	1/19/2004	NA	NA	**1.3**	**4.60**	(0.30)	(0.65)	(0.61)	(0.61)	(2.45)	(0.42)	(0.43)	(0.45)	(0.36)	(0.54)
	05-A15761	1/27/2005	NA	NA	**1.1**	**4.10**	(1.00)	(1.00)	(1.00)	(1.00)	(2.50)	(1.00)	(1.00)	(1.00)	(1.00)	(1.00)
	NPA2224-05	1/19/2006	NA	NA	**1.83**	**5.83**	(0.360)	(0.280)	(0.450)	(0.390)	(1.26)	(0.490)	(0.390)	(0.420)	(0.450)	(0.430)
	NQB3195-31	2/20/2007	NA	NA	**0.710 J**	**3.43**	(0.410)	(0.460)	(0.270)	(0.540)	(2.10)	(0.270)	(0.320)	(0.570)	(0.510)	(0.260)
MCC-5	042G3MCC05	4/7/1992	(2)	**59.2**	**13**	**24**	(10)	(10)	(10)	NA	(10)	(10)	(10)	(10)	(10)	(10)
	073G3MCC05	7/13/1993	(3)	**2.6**	**9**	**17**	(10)	(10)	(10)	NA	(10)	(10)	(10)	(10)	(10)	(10)
	CRPGMC0506	11/7/2002	NA	NA	**1**	**4.5**	NA	(0.46)	(0.19)	(0.51)	(0.25)	(0.13)	(0.38)	(0.15)	(0.17)	(0.28)
	CRPGMC0507	2/19/2003	NA	NA	**0.36**	**1.3**	NA	(0.18)	(0.31)	(0.16)	(0.61)	(0.17)	(0.43)	(0.11)	(0.13)	(0.13)
	CRPGMC0508	5/15/2003	NA	NA	**1.4**	**6.8**	NA	(0.18)	(0.31)	(0.16)	(0.61)	(0.17)	(0.43)	(0.11)	(0.13)	(0.13)
	CRPHMC0508	5/15/2003	NA	NA	**1.5**	**7**	NA	(0.18)	(0.31)	(0.16)	(0.61)	(0.17)	(0.43)	(0.11)	(0.13)	(0.13)
	CRPGMC0509	8/14/2003	NA	NA	**3**	**16**	NA	(0.18)	(0.31)	(0.16)	(0.61)	(0.17)	(0.43)	(0.11)	(0.13)	(0.13)
	04-A10214	1/19/2004	NA	NA	(0.50)	**5.10**	(0.30)	(0.65)	(0.61)	(0.61)	(2.45)	(0.42)	(0.43)	(0.45)	(0.36)	(0.54)
	05-A15762	1/27/2005	NA	NA	(1.00)	**3.90**	(1.00)	(1.00)	(1.00)	(1.00)	(2.50)	(1.00)	(1.00)	(1.00)	(1.00)	(1.00)
	NPA224-06	1/19/2006	NA	NA	**1.75**	**12.6**	(0.360)	(0.320)	(0.450)	(0.390)	(1.26)	(0.490)	(0.390)	(0.420)	(0.450)	(0.430)
	NQB3195-33	2/20/2007	NA	NA	(0.330)	**2.58**	(0.410)	(0.460)	(0.270)	(0.540)	(2.10)	(0.270)	(0.320)	(0.570)	(0.510)	(0.260)
MCC-5 DUP [DUPLICATE]	NQB3195-34	2/20/2007	NA	NA	(0.330)	**2.53**	**1.56**	(0.460)	(0.270)	(0.540)	(2.10)	(0.270)	(0.320)	(0.570)	(0.510)	(0.260)
MCC-12	073G3MCC12	7/14/1993	(3)	**42.2**	**160**	**4**	(100)	(20)	**5**	NA	(20)	(20)	(20)	(20)	**4**	**54**
	CRPGMC1206	11/7/2002	NA	NA	**65**	**0.77**	NA	(0.46)	(0.19)	**18**	(0.25)	(0.13)	(0.38)	(0.15)	**0.64**	**14**
	CRPGMC1207	2/19/2003	NA	NA	**39**	(0.1)	NA	(0.18)	(0.31)	**11**	(0.61)	(0.17)	(0.43)	(0.11)	**0.51**	**6**
	CRPGMC1208	5/15/2003	NA	NA	**43**	(0.1)	NA	(0.18)	(0.31)	**4.2**	(0.61)	(0.17)	(0.43)	(0.11)	**0.78**	**5.3**
	CRPGMC1209	8/14/2003	NA	NA	**56**	(0.1)	NA	(0.18)	(0.31)	**4.8**	(0.61)	(0.17)	(0.43)	(0.11)	**0.81**	**5.2**
	04-A10212	1/19/2004	NA	NA	**26.0**	(0.22)	**0.50 J**	(0.65)	(0.61)	**7.00**	(2.45)	(0.42)	(0.43)	(0.45)	**0.60 J**	**4.80**
	05-A15799	1/27/2005	NA	NA	**39.4**	(1.00)	(1.00)	(1.00)	(1.00)	**9.00**	(2.50)	(1.00)	(1.00)	(1.00)	(1.00)	**4.10**
MCC-12A [DUPLICATE]	04-A10212	1/27/2005	NA	NA	**41.0**	(1.00)	(1.00)	(1.00)	(1.00)	**9.90**	(2.50)	(1.00)	(1.00)	(1.00)	(1.00)	**4.60**
	NPA2224-03	1/19/2006	NA	NA	**44.7**	(0.320)	(0.360)	(0.280)	(0.450)	**8.06**	(1.26)	(0.490)	(0.390)	(0.420)	(0.450)	**2.60**
	NQB3195-32	2/20/2007	NA	NA	**27.6**	**1.29**	(0.410)	(0.460)	(0.270)	**3.85**	(2.10)	(0.270)	(0.320)	(0.570)	(0.510)	**0.730 J**
MCC-15	042G3MCC15	4/2/1992	(2)	**6.3**	**39**	**69**	(9)	(10)	(10)	NA	(10)	(10)	(10)	(10)	(10)	(10)
	073G3MCC15	7/9/1993	(3)	(5.2)	**39**	**70**	(10)	(10)	(10)	NA	(10)	(10)	(10)	(10)	(10)	(10)
	CRPGMC1506	11/7/2002	NA	NA	**17**	**100**	NA	(0.46)	(0.19)	(0.51)	(0.25)	(0.13)	(0.38)	(0.15)	**0.18**	(0.28)
	CRPGMC1507	2/19/2003	NA	NA	**3.8**	**140**	NA	(0.18)	(0.31)	**0.24**	(0.61)	(0.17)	(0.43)	**0.2**	**0.2**	(0.13)
	CRPGMC1508	5/16/2003	NA	NA	**0.76**	**29**	NA	(0.18)	(0.31)	(0.16)	(0.61)	(0.17)	(0.43)	(0.11)	**0.15**	(0.13)
	CRPHMC1508	5/16/2003	NA	NA	**0.74**	**30**	NA	(0.18)	(0.31)	(0.16)	(0.61)	(0.17)	(0.43)	(0.11)	(0.13)	(0.13)
	CRPGMC1509	8/14/2003	NA	NA	(0.17)	**32**	NA	(0.18)	(0.31)	(0.16)	(0.61)	(0.17)	(0.43)	(0.11)	(0.13)	(0.13)
	04-A10235	1/21/2004	NA	NA	**9.7**	**109**	(0.30)	(0.65)	(0.61)	(0.61)	(2.45)	(0.42)	(0.43)	(0.45)	(0.36)	(0.54)
duplicate	04-A10236	1/21/2004	NA	NA	**10.2**	**113**	(0.30)	(0.65)	(0.61)	(0.61)	(2.45)	(0.42)	(0.43)	(0.45)	(0.36)	(0.54)
	05-A15763	1/28/2005	NA	NA	(1.00)	**28.2**	(1.00)	(1.00)	(1.00)	(1.00)	(2.50)	(1.00)	(1.00)	(1.00)	(1.00)	(1.00)
	NPA2224-04	1/19/2006	NA	NA	**1.54**	**72.5**	(0.360)	(0.280)	(0.450)	(0.390)	(1.26)	(0.490)	(0.39)	(0.420)	(0.450)	(0.430)
	NQB3195-22	2/21/2007	NA	NA	**24.8**	**136**	(0.410)	(0.460)	(0.270)	(0.540)	(2.10)	(0.270)	(0.320)	(0.570)	(0.510)	(0.260)

Table 3: Historical Shallow Groundwater Analytical Data (ppb)

Well ID	Sample ID	Sample Date	Cadmium	Lead	Benzene	Chlorobenzene	1,3-Dichlorobenzene	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	Methylene chloride	1,1,2,2-Tetrachloroethane	Tetrachloroethene	1,1,2-Trichloroethane	Trichloroethene	Vinyl chloride
		SW PCL				64										
		GW PCL	300	1,500	300	10,000	1,000	300	100	7,000	100	100	500	100	500	200
R-1	CRPGR00106	11/19/2002	NA	NA	(0.37)	27	NA	(0.46)	(0.19)	19	0.33	(0.13)	(0.38)	(0.15)	0.17	18
	CRPGR00107	2/18/2003	NA	NA	0.14	5.7	NA	(0.18)	0.36	11	(0.61)	(0.17)	(0.43)	(0.11)	0.17	14
	CRPGR00108	5/13/2003	NA	NA	0.24	18	NA	(0.18)	(0.31)	20	(0.61)	(0.17)	(0.43)	(0.11)	(0.13)	19
	CRPGR00109	8/12/2003	NA	NA	(0.35)	23	NA	(0.18)	0.48	16	(0.61)	(0.17)	(0.43)	(0.11)	(0.24)	19
	04-A10237	1/21/2004	NA	NA	(0.50)	22.7	(0.30)	(0.65)	(0.61)	5.80	(2.45)	(0.42)	(0.43)	(0.45)	(0.36)	6.10
	05-A15781	1/28/2005	NA	NA	(1.00)	7.8	(1.00)	(1.00)	(1.00)	2.60	(2.50)	(1.00)	(1.00)	(1.00)	(1.00)	(1.00)
	05-A96976	6/30/2005	NA	NA	13.6	2160	20.2	(1.00)	52.8	28800	4.40	(1.00)	(1.00)	3.50	1.60	12000
	NPH4008-05	8/25/2006	NA	NA	1.63	174	(1.00)	(1.00)	1.29	160	(5.00)	(1.00)	(1.00)	(1.00)	(1.00)	45.8
	NQB3195-29	2/20/2007	NA	NA	(0.330)	53.1	1.56	(0.460)	0.670 J	91.0	(2.10)	(0.270)	(0.320)	(0.570)	(0.510)	30.4
R-2	CRPGR00206	11/12/2002	NA	NA	12	1600	NA	(4.6)	(1.9)	(5.1)	(2.5)	(1.3)	(3.8)	(1.5)	(2)	7.4
	CRPGR00207	2/18/2003	NA	NA	7.5	1700	NA	3.2	26	54000	66	(0.17)	(0.43)	2.5	(0.13)	4100
	CRPGR00208	5/13/2003	NA	NA	14	1100	NA	(9)	(16)	9600	(30)	(8.5)	(22)	(5.5)	(6.5)	(6.5)
	CRPGR00209	8/13/2003	NA	NA	(19)	720	NA	(36)	78	380	(120)	(34)	(86)	(22)	(26)	84
	04-A10238	1/21/2004	NA	NA	4.8	688	34.5	(0.65)	(0.61)	8.60	(2.45)	(0.42)	(0.43)	(0.45)	(0.36)	16.7
duplicate	04-A10239	1/21/2004	NA	NA	5.0	780	35.4	(0.65)	(0.61)	8.20	(2.45)	(0.42)	(0.43)	(0.45)	(0.36)	19.0
	05-A15782	1/29/2005	NA	NA	24.0	3260	39.2	3.30	104	40200	(2.50)	(1.00)	(1.00)	6.80	42.4	18100
	05-A96975	6/30/2005	NA	NA	11.2	1860	19.4	(1.00)	35.0	24000	(2.50)	(1.00)	(1.00)	2.70	1.2	9480
	NPA2449-06	1/18/2006	NA	NA	0.870 I	124 D	2.35	(0.280)	(0.450)	0.720 I	(1.26)	(0.490)	(0.390)	(0.420)	0.760 I	3.04
	NQF3099-03	6/22/2007	NA	NA	3.11	169	3.03	3.36	(0.270)	2.33	(2.10)	(0.270)	(0.320)	(0.570)	(0.510)	1.52
R-3	CRPGR00306	11/11/2002	NA	NA	(0.47)	29	NA	(0.46)	(0.19)	(0.51)	(0.25)	(0.13)	(0.38)	(0.15)	(0.17)	1
	CRPGR00307	2/21/2003	NA	NA	3.1	98	NA	(0.18)	(0.31)	0.32	(0.61)	(0.17)	(0.43)	(0.11)	(0.13)	0.84
	CRPHR00307	2/21/2003	NA	NA	2.8	89	NA	(0.18)	(0.31)	(0.16)	(0.61)	(0.17)	(0.43)	(0.11)	(0.13)	0.81
	CRPGR00308	5/14/2003	NA	NA	3.1	100	NA	(0.18)	(0.31)	0.44	(0.61)	(0.17)	(0.43)	(0.11)	(0.13)	1.6
	CRPGR00309	8/15/2003	NA	NA	0.91	64	NA	(0.36)	(0.62)	0.44	(1.2)	(0.34)	(0.86)	(0.22)	(0.26)	1.3
	04-A10225	1/20/2004	NA	NA	2.5	122	(0.30)	(0.65)	(0.61)	0.70 J	(2.45)	(0.42)	(0.43)	(0.45)	(0.36)	3.10
	05-A15783	1/31/2005	NA	NA	(1.0)	11.4	(1.00)	(1.00)	(1.00)	(1.00)	(2.50)	(1.00)	(1.00)	(1.00)	(1.00)	(1.00)
	NQB3195-26	2/21/2007	NA	NA	1.09	114	(0.410)	(0.460)	(0.270)	(0.540)	(2.10)	(0.270)	(0.320)	(0.570)	(0.510)	(0.260)
R-4	CRPGR00406	11/11/2002	NA	NA	0.67	110	NA	(0.46)	0.25	(0.51)	(0.25)	(0.13)	(0.38)	(0.15)	(0.17)	0.53
	CRPGR00407	2/21/2003	NA	NA	1.4	120	NA	(0.18)	(0.31)	0.23	(0.61)	(0.17)	(0.43)	(0.11)	(0.13)	0.83
	CRPGR00408	5/14/2003	NA	NA	1.1	110	NA	(0.18)	(0.31)	0.33	(0.61)	(0.17)	(0.43)	(0.11)	(0.13)	0.88
	CRPGR00409	8/15/2003	NA	NA	(0.19)	43	NA	(0.36)	(0.62)	(0.32)	(1.2)	(0.34)	(0.86)	(0.22)	(0.26)	(0.26)
	04-A10226	1/20/2004	NA	NA	(0.50)	99.8	(0.30)	(0.65)	(0.61)	(0.61)	(2.45)	(0.42)	(0.43)	(0.45)	(0.36)	0.60 J
	05-A15803	1/31/2005	NA	NA	(1.00)	106	(1.00)	(1.00)	(1.00)	(1.00)	(2.50)	(1.00)	(1.00)	(1.00)	(1.00)	(1.00)
R-4A [duplicate]	05-A15804	1/31/2005	NA	NA	(1.00)	109	(1.00)	(1.00)	(1.00)	(1.00)	(2.50)	(1.00)	(1.00)	(1.00)	(1.00)	(1.00)
	05-A101739	7/13/2005	NA	NA	(1.00)	18.8	(1.00)	(1.00)	(1.00)	(1.00)	(2.50)	(1.00)	(1.00)	(1.00)	(1.00)	(1.00)
	NPA2611-01	1/20/2006	NA	NA	(0.290)	0.980 I	(0.360)	(0.280)	(0.450)	(0.390)	(1.26)	(0.490)	(0.390)	(0.420)	(0.450)	(0.430)
	NQB3195-25	2/21/2007	NA	NA	(0.330)	76.0	(0.410)	(0.460)	(0.270)	(0.540)	(2.10)	(0.270)	(0.320)	(0.570)	0.510	(0.260)
R-5	CRPGR00506	11/11/2002	NA	NA	0.54	71	NA	(0.46)	(0.19)	(0.51)	(0.25)	(0.13)	(0.38)	(0.15)	(0.17)	(0.28)
	CRPGR00507	2/20/2003	NA	NA	0.66	170	NA	(0.18)	(0.31)	(0.16)	(0.61)	(0.17)	(0.43)	(0.11)	(0.13)	(0.13)
	CRPGR00508	5/16/2003	NA	NA	0.35	120	NA	(0.18)	(0.31)	0.3	(0.61)	(0.17)	(0.43)	(0.11)	(0.13)	0.25
	CRPGR00509	8/14/2003	NA	NA	(0.16)	110	NA	(0.18)	(0.31)	(0.16)	(0.61)	(0.17)	(0.43)	(0.11)	(0.13)	(0.13)
	04-A10227	1/20/2004	NA	NA	(0.50)	112	(0.30)	(0.65)	(0.61)	(0.61)	(2.45)	(0.42)	(0.43)	(0.45)	(0.36)	(0.54)
	05-A15784	1/28/2005	NA	NA	(1.00)	12.0	(1.00)	(1.00)	(1.00)	(1.00)	(1.00)	(1.00)	(1.00)	(1.00)	(1.00)	(1.00)
	05-A96978	6/30/2005	NA	NA	(1.00)	109	(1.00)	(1.00)	(1.00)	48.2	(1.00)	(1.00)	(1.00)	(1.00)	(1.00)	13.3
	NPA2224-07	1/19/2006	NA	NA	(0.290)	88.4	(0.360)	(0.280)	(0.450)	(0.390)	(1.26)	(0.490)	(0.390)	(0.420)	(0.450)	(0.430)
	NQB3195-24	2/21/2007	NA	NA	(0.940)	121	(0.410)	(0.460)	(0.270)	(0.540)	(2.10)	(0.270)	(0.320)	(0.570)	(0.510)	(0.260)
R-6	CRPGR00606	11/12/2002	NA	NA	(0.14)	59	NA	(0.46)	(0.19)	(0.51)	(0.25)	(0.13)	(0.38)	(0.15)	(0.17)	(0.28)
	CRPHR00606	11/12/2002	NA	NA	(0.31)	64	NA	(0.46)	(0.21)	(0.51)	(0.25)	(0.13)	(0.38)	(0.15)	(0.47)	(0.28)
	CRPGR00607	2/20/2003	NA	NA	0.21	39	NA	(0.18)	(0.31)	(0.16)	(0.61)	(0.17)	(0.43)	(0.11)	0.2	(0.13)
	CRPGR00608	5/16/2003	NA	NA	(0.096)	31	NA	(0.18)	(0.31)	(0.16)	(0.61)	(0.17)	(0.43)	(0.11)	(0.13)	(0.13)
	CRPGR00609	8/14/2003	NA	NA	(0.12)	26	NA	(0.18)	(0.31)	(0.16)	(0.61)	(0.17)	(0.43)	(0.11)	(0.13)	(0.13)
	04-A10228	1/20/2004	NA	NA	(0.50)	57.7	(0.30)	(0.65)	(0.61)	(0.61)	(2.45)	(0.42)	(0.43)	(0.45)	(0.36)	(0.54)
duplicate	04-A10229	1/20/2004	NA	NA	(0.50)	50.5	(0.30)	(0.65)	(0.61)	(0.61)	(2.45)	(0.42)	(0.43)	(0.45)	(0.36)	(0.54)
	05-A15785	1/28/2005	NA	NA	(1.00)	35.3	(1.00)	(1.00)	(1.00)	(1.00)	(2.50)	(1.00)	(1.00)	(1.00)	(1.00)	(1.00)
	NPA2224-08	1/19/2006	NA	NA	(0.290)	31.3	(0.360)	(0.320)	(0.450)	(0.390)	(1.26)	(0.490)	(0.390)	(0.420)	(0.450)	(0.430)
	NQB3195-23	2/21/2007	NA	NA	(0.330)	Rejected	1.56	(0.460)	(0.270)	(0.540)	(2.10)	(0.270)	(0.320)	(0.570)	(0.510)	(0.260)
R-7	CRPGR00706	11/12/2002	NA	NA	(0.2)	7.9	NA	(0.92)	(0.38)	230	(0.5)	(0.26)	(0.76)	(0.3)	(0.34)	180
	CRPGR00707	2/20/2003	NA	NA	(0.096)	3.9	NA	(0.18)	(0.31)	66	(0.61)	(0.17)	(0.43)	(0.11)	(0.13)	46
	CRPGR00708	5/15/2003	NA	NA	0.15	6.4	NA	(0.18)	0.62	150	(0.61)	(0.17)	(0.43)	(0.11)	(0.13)	120
	CRPGR00709	8/14/2003	NA	NA	(0.23)	32	NA	(0.18)	1	140	(0.61)	(0.17)	(0.43)	(0.11)	(0.13)	130
	04-A10240	1/21/2004	NA	NA	(0.50)	10.3	(0.30)	(0.65)	0.80 J	186	(2.45)	(0.42)	(0.43)	(0.45)	(0.36)	174
	05-A15786	1/31/2005	NA	NA	(1.00)	4.20	(1.00)	(1.00)	(1.00)	23.9	(2.50)	(1.00)	(1.00)	(1.00)	2.70	32.6
	05-A96980	7/1/2005	NA	NA	(1.00)	3.00	(1.00)	(1.00)	(1.00)	73.4	(2.50)	(1.00)	(1.00)	(1.00)	(1.00)	72.4
	NPA2449-16	1/18/2006	NA	NA	(0.290)	3.21	(0.360)	(0.280)	(0.450)	64.6	(1.26)	(0.490)	(0.390)	(0.420)	(0.450)	70.3
	NQB3195-11	2/22/2007	NA	NA	(0.330)	1.08	(0.410)	(0.460)	(0.270)	Rejected	(2.10)	(0.270)	(0.320)	(0.570)	(0.510)	13.5

Table 3: Historical Shallow Groundwater Analytical Data (ppb)

Well ID	Sample ID	Sample Date	Cadmium	Lead	Benzene	Chlorobenzene	1,3-Dichlorobenzene	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	Methylene chloride	1,1,2,2-Tetrachloroethane	Tetrachloroethene	1,1,2-Trichloroethane	Trichloroethene	Vinyl chloride
		SW PCL				64										
		GW PCL	300	1,500	300	10,000	1,000	300	100	7,000	100	100	500	100	500	200
R-8	CRPGR00806	11/12/2002	NA	NA	(1.6)	850	NA	(2.3)	(0.95)	94	(1.8)	(0.65)	(1.9)	(0.75)	(1.8)	240
	CRPGR00807	2/20/2003	NA	NA	0.71	750	NA	(0.9)	1.8	38	(3)	(0.85)	(2.2)	(0.55)	(0.65)	110
	CRPGR00808	5/15/2003	NA	NA	0.74	570	NA	(0.9)	(1.6)	28	(3)	(0.85)	(2.2)	(0.55)	0.85	93
	CRPGR00809	8/14/2003	NA	NA	(0.69)	530	NA	(0.9)	(1.6)	24	(3)	(0.85)	(2.2)	(0.55)	(0.65)	62
	04-A10241	1/21/2004	NA	NA	(0.50)	665	1.80	0.90 J	1.60	37.3	(2.45)	(0.42)	(0.43)	(0.45)	(0.36)	119
	05-A15787	1/31/2005	NA	NA	(1.00)	372	1.70	(1.00)	(1.00)	29.6	(2.50)	(1.00)	(1.00)	(1.00)	3.30	77.2
	05-A96979	7/1/2005	NA	NA	(1.00)	646	1.80	(1.00)	1.10	49.8	(2.50)	(1.00)	(1.00)	(1.00)	(1.00)	120
duplicate	05-A96981	7/1/2005	NA	NA	(1.00)	370	34.7	(1.00)	(1.00)	40.6	(2.50)	(1.00)	(1.00)	(1.00)	(1.00)	93.8
	NPA2449-15	1/18/2006	NA	NA	(0.290)	377 D	1.06	(0.280)	(0.450)	39.6	(1.26)	(0.490)	(0.390)	(0.420)	(0.450)	75.5
	NQB3195-12	2/22/2007	NA	NA	(0.330)	107	0.620 J	(0.460)	(0.270)	Rejected	(2.10)	(0.270)	(0.320)	(0.570)	(0.510)	82.1
R-9	CRPGR00906	11/20/2002	NA	NA	7.4	480	NA	15	(0.95)	(2.6)	(1.2)	(0.65)	(1.9)	(0.75)	(0.85)	(1.4)
	CRPGR00907	2/18/2003	NA	NA	7.2	460	NA	23	(1.2)	1.5	(2.4)	(0.68)	(1.7)	(0.44)	(0.52)	(0.52)
	CRPGR00908	5/13/2003	NA	NA	5.8	380	NA	5.8	(1.2)	(0.64)	(2.4)	(0.68)	(1.7)	(0.44)	(0.52)	(0.52)
	CRPGR00909	8/13/2003	NA	NA	10	450	NA	16	(3.1)	2.3	(6.1)	(1.7)	(4.3)	(1.1)	(1.3)	2.3
	04-A10242	1/21/2004	NA	NA	7.4	419	13.0	3.30	(0.61)	(0.61)	(2.45)	(0.42)	(0.43)	(0.45)	(0.36)	0.80 J
	05-A15788	1/29/2005	NA	NA	7.4	432	4.40	11.00	1.40	262	(2.50)	(1.00)	(1.00)	(1.00)	(1.00)	77.0
	05-A96977	6/30/2005	NA	NA	8.4	1380	12.6	(1.00)	30.8	20000	(2.50)	(1.00)	(1.00)	2.10	(1.00)	7500
	NPA2449-05	1/18/2006	NA	NA	7.65	372 D	3.67	8.59	(0.450)	0.680 I	(1.26)	(0.490)	(0.39)	(0.420)	1.84	0.700 I
	NQB3195-30	2/20/2007	NA	NA	1.77	125	2.67	5.07	(0.270)	2.88	(2.10)	(0.270)	(0.320)	(0.570)	(0.510)	3.35
REI-24	073G3REI24	7/14/1993	(3)	22.2	27	8	(100)	(10)	(10)	NA	(10)	(10)	(10)	(10)	(10)	2
	CRPGRE2406	11/7/2002	NA	NA	14	19	NA	(0.46)	(0.19)	0.53	(0.25)	(0.13)	(0.38)	(0.15)	(0.17)	(0.28)
	CRPGRE2407	2/19/2003	NA	NA	19	28	NA	(0.18)	(0.31)	(0.16)	(0.61)	(0.17)	(0.43)	(0.11)	(0.13)	0.23
	CRPGRE2408	5/15/2003	NA	NA	22	17	NA	(0.18)	(0.31)	0.39	(0.61)	(0.17)	(0.43)	(0.11)	(0.13)	0.41
	CRPGRE2409	8/14/2003	NA	NA	27	16	NA	(0.18)	(0.31)	0.55	(0.61)	(0.17)	(0.43)	(0.11)	0.24	0.44
	CRPHRE2409	8/14/2003	NA	NA	24	18	NA	(0.18)	(0.31)	0.46	(0.61)	(0.17)	(0.43)	(0.11)	(0.13)	0.4
	04-A10217	1/19/2004	NA	NA	13.3	7.00	(0.30)	(0.65)	(0.61)	(0.61)	(2.45)	(0.42)	(0.43)	(0.45)	(0.36)	(0.54)
	05-A15758	2/2/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
REI-26	042G1REI26	3/31/1992	(2)	1.2	14	410	(9)	(10)	(10)	NA	(10)	(10)	(10)	(10)	(10)	(10)
	073G1REI26	7/12/1993	(3)	(10)	17	330	(10)	(10)	(10)	NA	(10)	(10)	(10)	(10)	1	(10)
	CRPGRE2606	11/9/2002	NA	NA	7	290	NA	(0.92)	(0.38)	1.3	(0.5)	(0.26)	(0.76)	(0.3)	(0.34)	2.3
	CRPGRE2607	2/21/2003	NA	NA	16	430	NA	(0.36)	(0.62)	0.68	(1.2)	(0.34)	(0.86)	(0.22)	(0.26)	2
	CRPGRE2608	5/14/2003	NA	NA	11	350	NA	(0.72)	(1.2)	1	(2.4)	(0.68)	(1.7)	(0.44)	(0.52)	3.1
	CRPGRE2609	8/15/2003	NA	NA	(0.096)	(0.1)	NA	(0.18)	(0.31)	(0.16)	(0.61)	(0.17)	(0.43)	(0.11)	(0.13)	(0.13)
	04-A10230	1/20/2004	NA	NA	28.1	184	(0.30)	(0.65)	1.20	(0.61)	(2.45)	(0.42)	(0.43)	(0.45)	(0.36)	3.40
	05-A15759	2/2/2005	NA	NA	(1.0)	(1.00)	(1.00)	(1.00)	(1.00)	2.30	(2.50)	(1.00)	(1.00)	(1.00)	(1.00)	(1.00)
	NQB3195-02	2/21/2007	NA	NA	5.48	264	(0.410)	(0.460)	(0.270)	(0.540)	(2.10)	(0.270)	(0.320)	(0.570)	0.590 J	0.950 J
REI-27	042G1REI27	4/4/1992	(2)	2.9	12	360	(9)	(10)	(10)	NA	(10)	(10)	(10)	(10)	(10)	(10)
	073G1REI27	7/14/1993	(3)	(2)	39	620	5	(10)	(10)	NA	(10)	(10)	(10)	(10)	(10)	(10)
	CRPGRE2706	11/8/2002	NA	NA	5.2	390	NA	(0.92)	(0.38)	1.2	(0.5)	(0.26)	(0.76)	(0.3)	0.4	1.3
	CRPGRE2707	2/18/2003	NA	NA	11	190	NA	0.35	(0.31)	0.48	(0.61)	(0.17)	(0.43)	(0.11)	(0.13)	0.55
	CRPGRE2708	5/13/2003	NA	NA	36	660	NA	(0.18)	(0.31)	0.62	(0.61)	(0.17)	(0.43)	(0.11)	(0.13)	6.5
	CRPGRE2709	8/13/2003	NA	NA	15	380	NA	(1.8)	(3.1)	1.9	(6.1)	(1.7)	(4.3)	(1.1)	(2)	6.7
	04-A10243	1/21/2004	NA	NA	10.1	539	5.90	(0.65)	(0.61)	(0.61)	(2.45)	(0.42)	(0.43)	(0.45)	(0.36)	(0.54)
	05-A15760	1/28/2005	NA	NA	9.8	438	4.40	(1.00)	(1.00)	(1.00)	(2.50)	(1.00)	(1.00)	(1.00)	(1.00)	(1.00)
	NPA2449-09	1/18/2006	NA	NA	9.98	560 D	3.88	0.400 I	(0.450)	(0.390)	(1.26)	(0.490)	(0.390)	(0.420)	(0.450)	1.47
	NQB3195-27	2/20/2007	NA	NA	2.91	281	2.86	(0.460)	(0.270)	(0.540)	(2.10)	(0.270)	(0.320)	(0.570)	(0.510)	(0.260)

Notes:
1 - For sampling events earlier than 2002, numbers in parentheses indicate the quantification limits, not the detection limits.
For sampling events from 2002 to 2006, the numbers in parentheses indicate the reporting limit.
For the 2007 sampling event, the numbers in parentheses indicate the method detection limit.
If the analyte concentration is in parentheses, the analyte was not detected in the sample.
2 - "NA" means the sample was not analyzed for that analyte.
3 - "Rejected" indicates the data was rejected during the validation process.
4 - Shaded values indicate detections above the Industrial/Commercial Tier 1 PCLs,
except for chlorobenzene where the shading indicates a detection above the Surface Water PCL
5 - Bolded values indicate detections below the Industrial/Commercial Tier 1 PCLs, but above the background value, if any.
6 - "I" means the repoted value is between the method detection limit and the practical quantitation limit.
7 - "J" means the value is estimated
8 - "D" means that data is reported from a dilution

Table 4
Monitoring Well Information
NAS Corpus Christi, Texas
BOA Contract # N62467-02-G-0352/CTO 0007

Well ID	Easting	Northing	TOC Elevation	Depth to BTW	Screen Length	Well Diam
ES-1	1380414.37	17143229.76	13.11	11.60	10	2 in.
ES-2	1380584.25	17143568.53	13.02	12.61	10	2 in.
ES-7	1380870.42	17145045.85	13.18	7.30	10	2 in.
ES-9	1380132.13	17144776.94	12.71	11.71	10	2 in.
ES-11	1380192.43	17143677.14	13.79	11.72	10	2 in.
ES-12	1379647.15	17143330.33	13.01	11.70	10	2 in.
ES-13	1380484.45	17144024.71	13.17	23.38	20	4 in.
ES-14	1380540.71	17143951.33	13.19	13.52	10	2 in.
ES-15	1380780.88	17143681.61	13.34	13.59	10	2 in.
ES-17	1380892.71	17144459.83	12.79	14.04	10	2 in.
ES-18	1380607.67	17144945.05	12.68	15.19	10	2 in.
ES-21	1379935.83	17144124.13	13.11	11.20	10	2 in.
ES-23	1380811.38	17145831.42	9.69	14.41	10	2 in.
ES-26	1381072.61	17146049.51	8.40	26.65	10	2 in.
ES-28	1380800.69	17145061.53	12.33	28.70	10	2 in.
ES-29	1380800.69	17145061.53	12.33	11.05	10	2 in.
ES-33	1379930.98	17141027.77	16.42	11.49	10	2 in.
ES-36	1379453.88	17139997.28	19.43	12.02	10	2 in.
ES-37	1380974.99	17140721.59	15.78	13.03	10	2 in.
ES-43	1380123.44	17139703.22	19.99	40.02	5	2 in.
ES-46	1379896.64	17139449.55	18.76	11.65	10	2 in.
ES-47	1382794.47	17139386.23	19.49	12.77	10	2 in.
MCC-4	1380690.16	17140001.39	20.66	12.19	10	4 in.
MCC-5	1380648.82	17139981.59	21.01	12.53	10	4 in.
MCC-12	1380669.89	17139923.02	21.82	15.21	10	4 in.
MCC-15	1380545.73	17139154.69	20.34	15.60	10	4 in.
R-1	1380096.15	17141126.93	16.17	11.50	10	2 in.
R-2	1379727.36	17140956.39	15.13	11.24	10	2 in.
R-3	1379290.35	17139671.52	14.62	12.08	10	2 in.
R-4	1380543.69	17139364.32	16.88	11.86	10	2 in.
R-5	1379858.98	17139050.47	16.09	11.50	10	2 in.
R-6	1380193.33	17139004.02	16.31	11.50	10	2 in.
R-7	1381293.75	17140779.23	14.57	12.05	10	2 in.
R-8	1381335.85	17140721.47	14.90	11.60	10	2 in.
R-9	1379721.64	17141033.62	14.90	11.75	10	2 in.
R-10	1380805.03	17145830.33	9.96	55.46	10	2 in.
R-11	1379941.76	17144833.96	12.98	53.49	10	2 in.
R-12	1381090.47	17144695.98	13.01	59.96	10	2 in.
REI-24	1380678.47	17139929.83	21.45	25.03	20	4 in.
REI-26	1379739.94	17140647.20	17.57	19.12	15	4 in.
REI-27	1380849.26	17145058.37	17.62	19.70	15	4 in.
R-13	1380989.79	17145478.57	10.63	25.00	10	2 in.

Easting and Northing are in State Plane Coordinates, Texas South, NAD 83
Measurements in feet unless otherwise noted

BTW	Base of The Well, measured from Top of Casing (TOC)
in	inch
TOC	Top of Casing (measured in November 2002)

Table 5
Building 8 Shallow Groundwater COC Analytical Data (ug/L)
NAS Corpus Christi, Texas
BOA Contract # N62467-02-G-0352/CTO 0007

Sample ID	Date Collected	Benzene	Chloro-benzene	1,3-Dichloro-benzene	1,2-Dichloro-ethane	1,1-Dichloro-ethene	cis-1,2-Dichloro-ethene	Methylene chloride	1,1,2,2-Tetrachloro-ethane	Tetrachloro-ethene	1,1,2-Trichloro-ethane	Trichloro-ethene	Vinyl chloride
ES-7	02/22/07	U	1.41	0.970 J	U	2.90	Rejected	U	U	U	U	U	0.810 J
ES-13	02/22/07	U	4.92	0.490 J	U	U	Rejected	U	U	U	U	Rejected	68.5
ES-14	02/22/07	0.430 J	1.78	U	U	13.0 I	Rejected	U	U	U	U	U	1.69
ES-23	02/22/07	U	U	U	U	U	Rejected	U	U	U	U	Rejected	U
ES-28	02/22/07	1.02	1.04	U	U	19.2	1700	U	U	216	41.0	4810	23.2
ES-28†	02/22/07	0.980 J	0.960 J	U	U	20.1	1630	U	U	218	42.8	4850	24.4
ES-29	02/22/07	U	0.860 J	U	U	U	Rejected	U	U	0.750 J	U	Rejected	0.650 J
R-13	02/22/07	U	U	U	20.1	U	Rejected	U	U	U	U	Rejected	U
Adjusted Critical PCL (shallow)		300	10,000	1,000	300	100	7,000	100	100	500	100	500	200
Surface Water PCL		--	64	--	--	--	--	--	--	--	--	--	--

Notes: All data reported in ug/L (micrograms per liter)
Shaded results indicate detection made at concentration greater than applicable PCL

†	Duplicate sample
PCL	Protective Concentration Level, as per *Affected Property Assessment Report, Volume I,* August 2001, EnSafe, Inc.
U	Not Detected
Rejected	Data rejected due to detection in equipment blank.
J	Analyte detected at a level less than the reporting limit and greater than or equal to the method detection limit. Concentrations within this range are estimated.

Table 6

IR Site 1 (NOR Unit No. 001 - DPDO Landfill) Shallow Groundwater COC Analytical Data (ug/L)

NAS Corpus Christi, Texas

BOA Contract # N62467-02-G-0352/CTO 0007

Sample ID	Date Collected	Benzene	Chloro-benzene	1,3-Dichloro-benzene	1,2-Dichloro-ethane	1,1-Dichloro-ethene	cis-1,2-Dichloro-ethene	Methylene chloride	1,1,2,2-Tetrachloro-ethane	Tetrachloro-ethene	1,1,2-Trichloro-ethane	Trichloro-ethene	Vinyl chloride
ES-33	02/20/07	U	3.20	U	U	U	U	U	U	U	U	U	U
ES-36	02/21/07	U	190	U	U	U	0.550 J	U	U	U	U	0.910 J	U
R-1	02/20/07	U	53.1	1.56	U	0.670 J	91.0	U	U	U	U	U	30.4
R-2	06/22/07	3.11	169	3.03	3.36	U	2.33	U	U	U	U	U	1.52
R-3	02/21/07	1.09	114	U	U	U	U	U	U	U	U	U	U
R-4	02/21/07	U	76.0	U	U	U	U	U	U	U	U	U	U
R-9	02/20/07	1.77	125	2.67	5.07	U	2.88	U	U	U	U	U	3.35
REI-26	02/21/07	5.48	264	U	U	U	U	U	U	U	U	0.590 J	0.950 J
REI-27	02/20/07	2.91	281	2.86	U	U	U	U	U	U	U	U	U
Adjusted Critical PCL (shallow)		300	10,000	1,000	300	100	7,000	100	100	500	100	500	200
Surface Water PCL		--	64	--	--	--	--	--	--	--	--	--	--

Notes: All data reported in ug/L (micrograms per liter)

Shaded results indicate detection made at concentration greater than applicable PCL

†	Duplicate sample
PCL	Protective Concentration Level, as per *Affected Property Assessment Report, Volume I,* August 2001, EnSafe, Inc.
U	Not Detected
J	Analyte detected at a level less than the reporting limit and greater than or equal to the method detection limit. Concentrations within this range are estimated.

Table 7

IR Site 3 (NOR Unit No. 003 - CCAD Liquid Landfill) Shallow Groundwater COC Analytical Data (ug/L)

NAS Corpus Christi, Texas

BOA Contract # N62467-02-G-0352/CTO 0007

Sample ID	Date Collected	Benzene	Chloro-benzene	1,3-Dichloro-benzene	1,2-Dichloro-ethane	1,1-Dichloro-ethene	cis-1,2-Dichloro-ethene	Methylene chloride	1,1,2,2-Tetrachloro-ethane	Tetrachloro-ethene	1,1,2-Trichloro-ethane	Trichloro-ethene	Vinyl chloride
ES-37	02/22/07	U	82.7	0.430 J	U	U	27.9	U	U	U	U	U	26.0
MCC-4	02/20/07	0.710 J	3.43	U	U	U	U	U	U	U	U	U	U
MCC-5	02/20/07	U	2.58	U	U	U	U	U	U	U	U	U	U
MCC-5†	02/20/07	U	2.53	1.56	U	U	U	U	U	U	U	U	U
MCC-12	02/20/07	27.6	1.29	U	U	U	3.85	U	U	U	U	U	0.730 J
R-7	02/22/07	U	1.08	U	U	U	24.2	U	U	U	U	U	13.5
R-8	02/22/07	U	107	0.620 J	U	U	59.2	U	U	U	U	U	82.1
Adjusted Critical PCL (shallow)		300	10,000	1,000	300	100	7,000	100	100	500	100	500	200
Surface Water PCL		--	64	--	--	--	--	--	--	--	--	--	--

Notes: All data reported in ug/L (micrograms per liter)

Shaded results indicate detection made at concentration greater than applicable PCL

PCL Protective Concentration Level, as per *Affected Property Assessment Report, Volume I,* August 2001, EnSafe, Inc.

U Not Detected

J Analyte detected at a level less than the reporting limit and greater than or equal to the method detection limit. Concentrations within this range are estimated.

Table 8

IR Site 4 (NOR Unit No. 004 - Aircraft Fire Training Area) Shallow Groundwater COC Analytical Data (ug/L)

NAS Corpus Christi, Texas

BOA Contract # N62467-02-G-0352/CTO 0007

Sample ID	Date Collected	Benzene	Chloro-benzene	1,3-Dichloro-benzene	1,2-Dichloro-ethane	1,1-Dichloro-ethene	cis-1,2-Dichloro-ethene	Methylene chloride	1,1,2,2-Tetrachloro-ethane	Tetrachloro-ethene	1,1,2-Trichloro-ethane	Trichloro-ethene	Vinyl chloride
ES-46	02/21/07	11.9	363	U	U	U	U	U	U	U	U	U	U
ES-46†	02/21/07	10.7	377	U	U	U	U	U	U	U	U	U	U
ES-47	02/21/07	2.82	72.3	U	U	U	U	U	U	U	U	U	U
MCC-15	02/21/07	24.8	136	U	U	U	U	U	U	U	U	U	U
R-5	02/21/07	0.940 J	121	U	U	U	U	U	U	U	U	U	U
R-6	02/21/07	U	Rejected	1.56	U	U	U	U	U	U	U	U	U
Adjusted Critical PCL (shallow)		300	10,000	1,000	300	100	7,000	100	100	500	100	500	200
Surface Water PCL		--	64	--	--	--	--	--	--	--	--	--	--

Notes: All data reported in ug/L

Shaded results indicate detection made at concentration greater than applicable PCL

†	Duplicate sample
PCL	Protective Concentration Level, as per *Affected Property Assessment Report, Volume I,* August 2001, EnSafe, Inc.
U	Not Detected
Rejected	Data rejected due to detection in equipment blank.
J	Analyte detected at a level less than the reporting limit and greater than or equal to the method detection limit. Concentrations within this range are estimated.

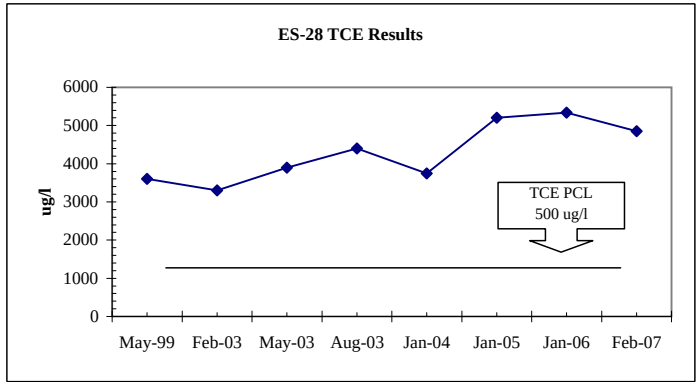
Appendix C

COC Concentrations versus Time Graphs

BUILDING 8 - ES-28
TCE, 1,2 DCE, AND Vinyl Chloride PLOTS

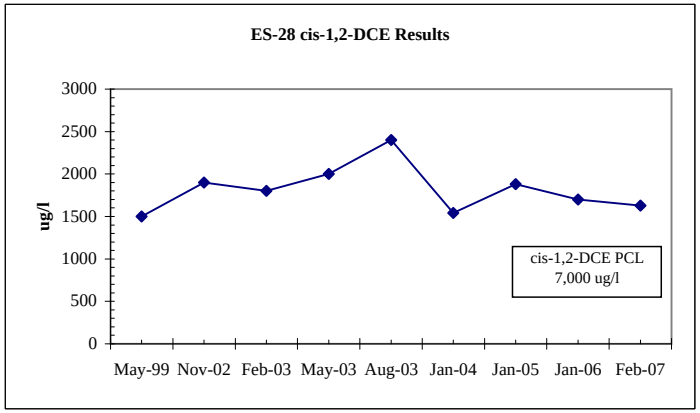
Trichloroethene

DATE		RESULT, ug/l		SAMPLE_ID
5/3/1999	May-99	3600	-1	049G08ES28
2/22/2003	Feb-03	3300	-1	CRPGES2807
5/17/2003	May-03	3900	-1	CRPGES2808
8/17/2003	Aug-03	4400		CRPGES2809
1/17/2004	Jan-04	3750		04-A10195
1/29/2005	Jan-05	5200		05-A15773
1/17/2006	Jan-06	5340		NPA2249-02
2/22/2007	Feb-07	4850		NQB3195-15



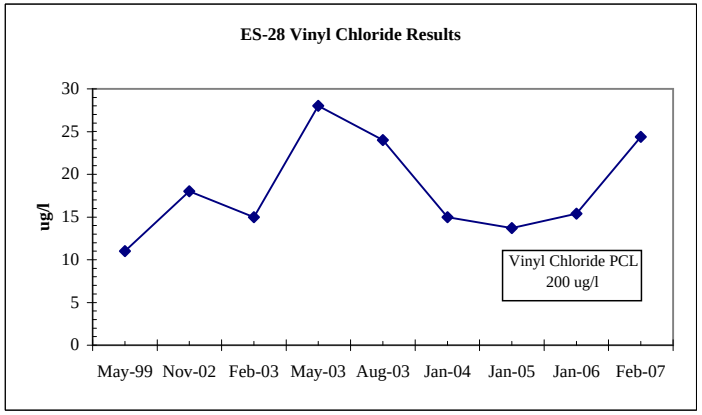
cis-1,2-Dichloroethene

DATE		RESULT, ug/l		SAMPLE_ID
5/3/1999	May-99	1500	-1	049G08ES28
11/9/2002	Nov-02	1900		CRPGES2806
2/22/2003	Feb-03	1800	-1	CRPGES2807
5/17/2003	May-03	2000	-1	CRPGES2808
8/17/2003	Aug-03	2400		CRPGES2809
1/17/2004	Jan-04	1540		04-A10195
1/29/2005	Jan-05	1880		05-A15773
1/17/2006	Jan-06	1700		NPA2249-02
2/22/2007	Feb-07	1630		NQB3195-15



Vinyl chloride

DATE		RESULT, ug/l		SAMPLE_ID
5/3/1999	May-99	11		049G08ES28
11/9/2002	Nov-02	18	-1	CRPGES2806
2/22/2003	Feb-03	15		CRPGES2807
5/17/2003	May-03	28	-1	CRPGES2808
8/17/2003	Aug-03	24		CRPGES2809
1/17/2004	Jan-04	15.0		04-A10195
1/29/2005	Jan-05	13.7		05-A15773
1/17/2006	Jan-06	15.4		NPA2249-02
2/22/2007	Feb-07	24.4		NQB3195-15

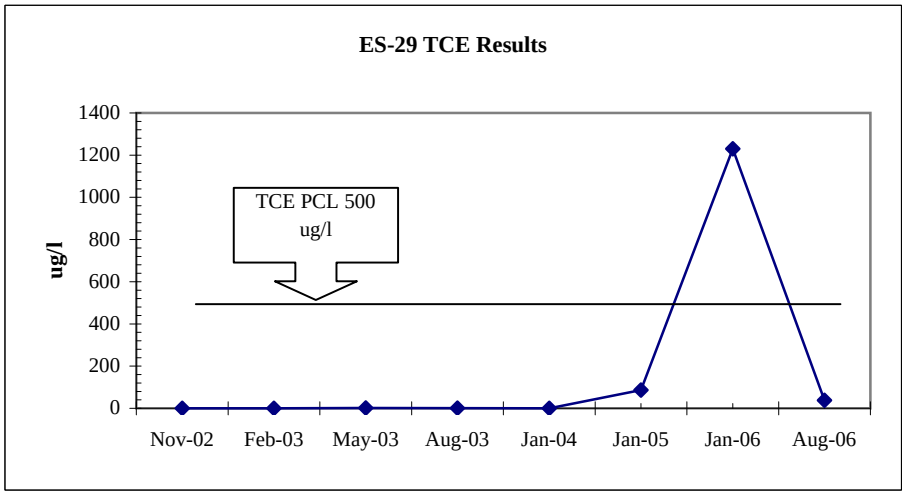


Note:
Cells with a -1 or are blank indicates the sample concentration was above the laboratory detection limit
Cells with a 0 indicate the sample conentration was below the laboratory detection limit

BUILDING 8 - ES-29
TCE and Vinyl Chloride PLOT

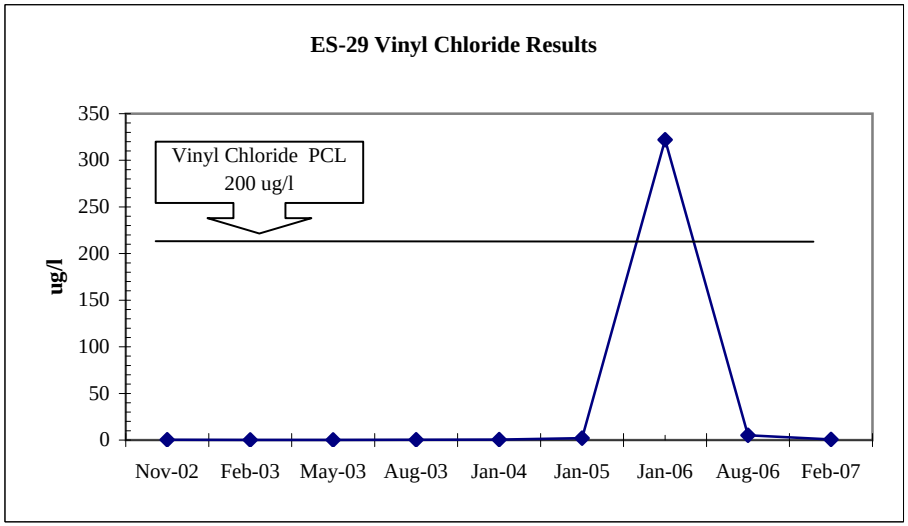
TCE

DATE		RESULT, ug/l		SAMPLE_ID
11/9/2002	Nov-02	0.17	0	CRPGES2906
2/22/2003	Feb-03	0.13	0	CRPGES2907
5/17/2003	May-03	1.4		CRPGES2908
8/17/2003	Aug-03	0.74		CRPGES2909
1/17/2004	Jan-04	0.36	0	04-A10196
1/29/2005	Jan-05	86.4		05-A15774
1/17/2006	Jan-06	1230		NPA2449-03
8/25/2006	Aug-06	37.8		NPH4008-06
2/22/2007	Feb-07	Rejected		NQB3195-13



Vinyl chloride

DATE		RESULT, ug/l		SAMPLE_ID
11/9/2002	Nov-02	0.28	0	CRPGES2906
2/22/2003	Feb-03	0.13	0	CRPGES2907
5/17/2003	May-03	0.13	0	CRPGES2908
8/17/2003	Aug-03	0.26		CRPGES2909
1/17/2004	Jan-04	0.54	0	04-A10196
1/29/2005	Jan-05	2.10		05-A15774
1/17/2006	Jan-06	322		NPA2449-03
8/25/2006	Aug-06	5.09		NPH4008-06
2/22/2007	Feb-07	0.650		NQB3195-13

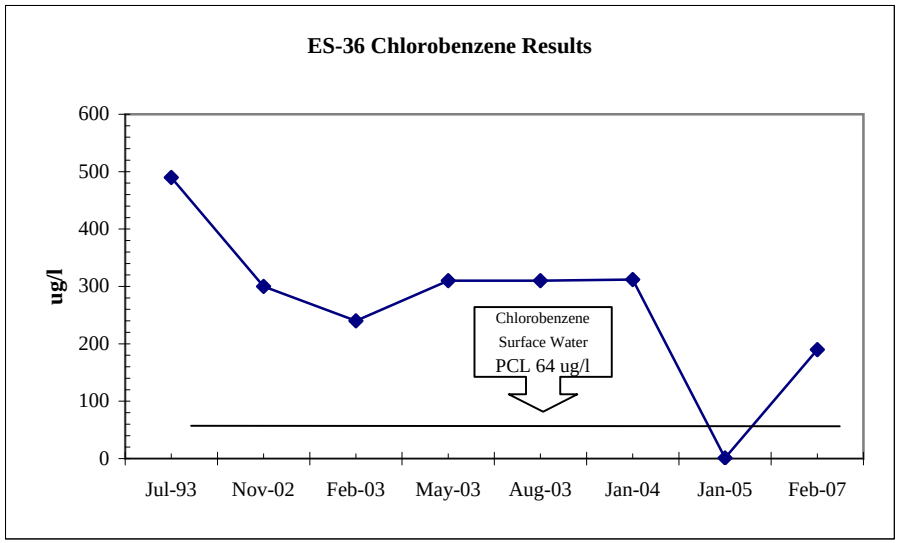


Note:
Cells with a -1 or are blank indicates the sample concentration was above the laboratory detection limit
Cells with a 0 indicate the sample conentration was below the laboratory detection limit

IR SITES 1,3, AND 4 - ES-36
Chlorobenzene PLOT

Chlorobenzene

DATE		RESULT, ug/l	SAMPLE_ID
7/12/1993	Jul-93	490	073G03ES36
11/6/2002	Nov-02	300	CRPGES3606
2/21/2003	Feb-03	240	CRPGES3607
5/14/2003	May-03	310	CRPGES3608
8/15/2003	Aug-03	310	CRPGES3609
1/20/2004	Jan-04	312	04-A10221
2/2/2005	Jan-05	1.00	05-A15774
2/21/2007	Feb-07	190	NQB3195-01

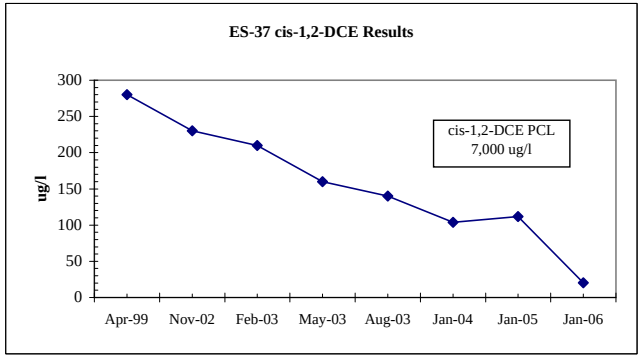


Note:
Cells with a -1 or are blank indicates the sample concentration was above the laboratory detection limit
Cells with a 0 indicate the sample conentration was below the laboratory detection limit

IR SITES 1,3, AND 4 - ES-37
1,2 DCE, Vinyl Chloride, and Chlorobenzene PLOT

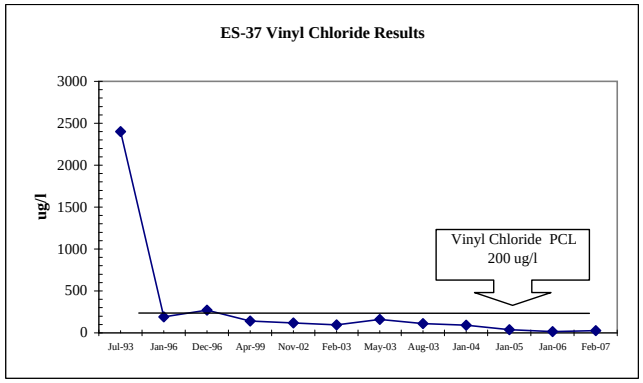
cis-1,2-Dichloroethene

DATE		RESULT, ug/l		SAMPLE_ID
4/15/1999	Apr-99	280		049G03ES37
11/7/2002	Nov-02	230	-1	CRPGES3706
2/20/2003	Feb-03	210		CRPGES3707
5/15/2003	May-03	160		CRPGES3708
8/14/2003	Aug-03	140		CRPGES3709
1/21/2004	Jan-04	104		04-A10233
1/29/2005	Jan-05	112		05-A15776
1/18/2006	Jan-06	20.3		NPA2449-14
2/22/2007	Feb-07	Rejected		NQB3195-10



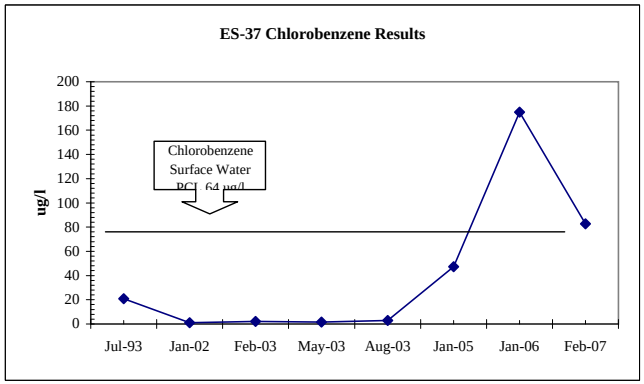
Vinyl chloride

DATE		RESULT, ug/l		SAMPLE_ID
7/14/1993	Jul-93	2400	-1	073G03ES37
1/12/1996	Jan-96	190	-1	016G03ES38
12/4/1996	Dec-96	270	-1	126G03ES39
4/15/1999	Apr-99	140	-1	049G03ES37
11/7/2002	Nov-02	120		CRPGES3706
2/20/2003	Feb-03	95		CRPGES3707
5/15/2003	May-03	160		CRPGES3708
8/14/2003	Aug-03	110		CRPGES3709
1/21/2004	Jan-04	90.3		04-A10233
1/29/2005	Jan-05	39.7		05-A15776
1/18/2006	Jan-06	15.8		NPA2449-14
2/22/2007	Feb-07	26.0		NQB3195-10



Chlorobenzene

DATE		RESULT, ug/l	SAMPLE_ID
7/14/1993	Jul-93	21	073G03ES37
11/7/2002	Jan-02	0.96	CRPGES3706
2/20/2003	Feb-03	2.1	CRPGES3707
5/15/2003	May-03	1.7	CRPGES3708
8/14/2003	Aug-03	3	CRPGES3709
1/29/2005	Jan-05	47.4	05-A15776
1/18/2006	Jan-06	175	NPA2449-14
2/22/2007	Feb-07	82.7	NQB3195-10

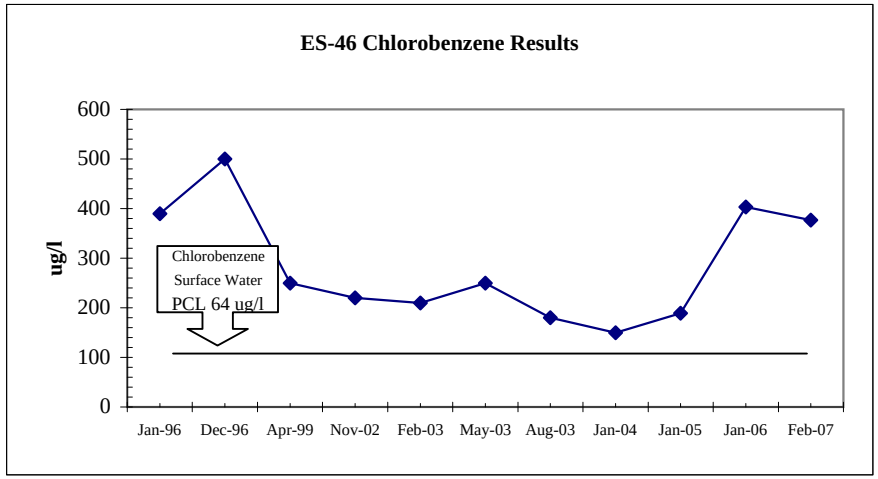


Note:
Cells with a -1 or are blank indicates the sample concentration was above the laboratory detection limit
Cells with a 0 indicate the sample conentration was below the laboratory detection limit

IR SITES 1,3, AND 4 - ES-46 (Trench 3)
Chlorobenzene PLOT

Chlorobenzene

DATE		RESULT, ug/l		SAMPLE_ID
1/9/1996	Jan-96	390	-1	016G04ES46
12/6/1996	Dec-96	500		126G04ES46
4/18/1999	Apr-99	250	-1	049G04ES46
11/6/2002	Nov-02	220	-1	CRPGES4606
2/19/2003	Feb-03	210	-1	CRPGES4607
5/16/2003	May-03	250	-1	CRPGES4608
8/13/2003	Aug-03	180		CRPGES4609
1/20/2004	Jan-04	150		04-A10222
1/28/2005	Jan-05	189		05-A15807
1/19/2006	Jan-06	403		NPA2224-01
2/21/2007	Feb-07	377		NQB3195-20

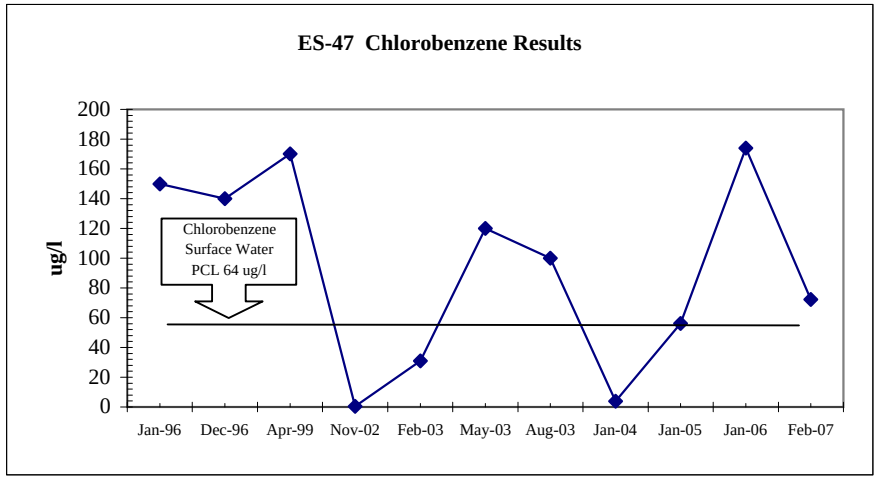


Note:
Cells with a -1 or are blank indicates the sample concentration was above the laboratory detection limit
Cells with a 0 indicate the sample conentration was below the laboratory detection limit

IR SITES 1,3, AND 4 - ES-47 (Trench 3)
Chlorobenzene PLOT

Chlorobenzene

DATE		RESULT, ug/l		SAMPLE_ID
1/9/1996	Jan-96	150		016G04ES47
12/5/1996	Dec-96	140		126G04ES47
4/18/1999	Apr-99	170	-1	049G04ES47
11/6/2002	Nov-02	0.45	-1	CRPGES4706
2/19/2003	Feb-03	31		CRPHES4707
5/16/2003	May-03	120		CRPGES4708
8/13/2003	Aug-03	100		CRPGES4709
1/21/2004	Jan-04	3.8	R	04-A10234
1/28/2005	Jan-05	56.1		05-A15808
1/19/2006	Jan-06	174		NPA2224-02
2/21/2007	Feb-07	72.3		NQB3195-21

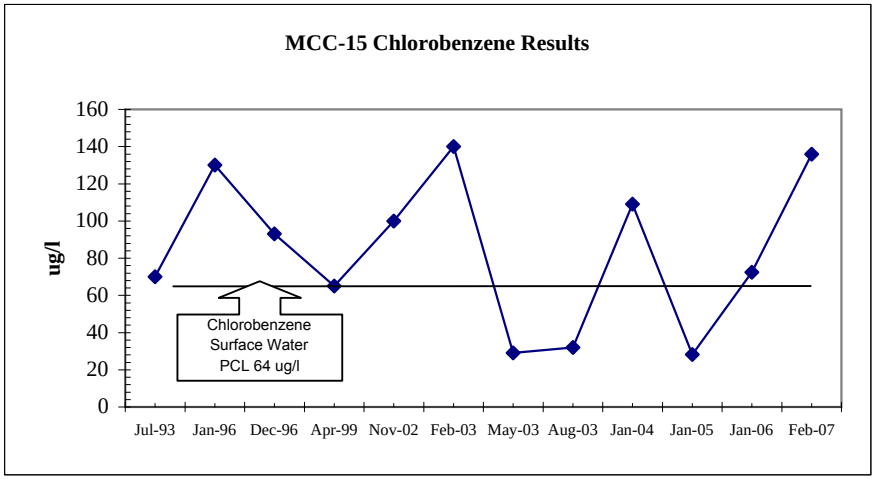


Note:
Cells with a -1 or are blank indicates the sample concentration was above the laboratory detection limit
Cells with a 0 indicate the sample conentration was below the laboratory detection limit

IR SITES 1,3, AND 4 - MCC-15 (Trench 3)
Chlorobenzene PLOT

Chlorobenzene

DATE		RESULT, ug/l		SAMPLE_ID
7/9/1993	Jul-93	70		073G3MCC15
1/9/1996	Jan-96	130		016G3MCC15
12/4/1996	Dec-96	93		126G3MCC15
4/13/1999	Apr-99	65	-1	049G3MCC15
11/7/2002	Nov-02	100		CRPGMC1506
2/19/2003	Feb-03	140		CRPGMC1507
5/16/2003	May-03	29		CRPGMC1508
8/14/2003	Aug-03	32		CRPGMC1509
1/21/2004	Jan-04	109		04-A10235
1/28/2005	Jan-05	28.2		05-A15763
1/19/2006	Jan-06	72.5		NPA2224-04
2/21/2007	Feb-07	136		NQB3195-22

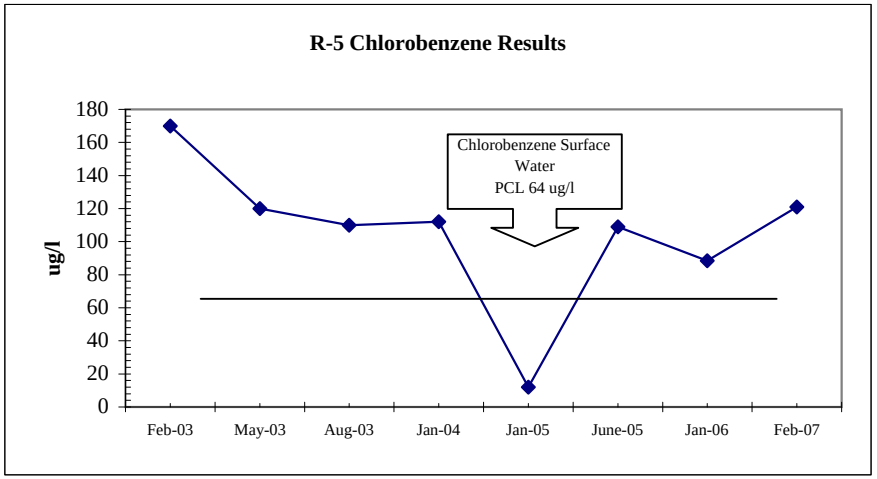


Note:
Cells with a -1 or are blank indicates the sample concentration was above the laboratory detection limit
Cells with a 0 indicate the sample conentration was below the laboratory detection limit

IR SITES 1,3, AND 4 - R-5 (Trench 3)
Chlorobenzene PLOT

Chlorobenzene

DATE		RESULT, ug/l	SAMPLE_ID
2/20/2003	Feb-03	170	CRPGR00507
5/14/2003	May-03	120	CRPGR00508
8/15/2003	Aug-03	110	CRPGR00509
1/20/2004	Jan-04	112	04-A10227
1/28/2005	Jan-05	12.0	05-A15784
6/30/2005	June-05	109	05-A996978
1/19/2006	Jan-06	88.4	NPA2224-07
2/21/2007	Feb-07	121	NQB3195-24

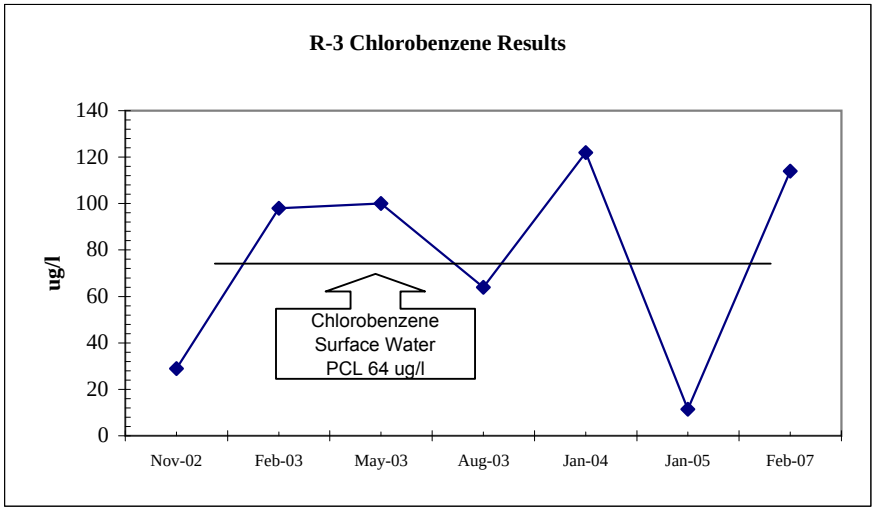


Note:
Cells with a -1 or are blank indicates the sample concentration was above the laboratory detection limit
Cells with a 0 indicate the sample conentration was below the laboratory detection limit

IR SITES 1,3, AND 4 - R-3 (Trench 2)
Chlorobenzene PLOT

Chlorobenzene

DATE		RESULT, ug/l	SAMPLE_ID
11/11/2002	Nov-02	29	CRPGR00306
2/21/2003	Feb-03	98	CRPGR00307
5/14/2003	May-03	100	CRPGR00308
8/15/2003	Aug-03	64	CRPGR00309
1/20/2004	Jan-04	122	04-A10225
1/31/2005	Jan-05	11.4	05-A15783
2/21/2007	Feb-07	114	NQB3195-26

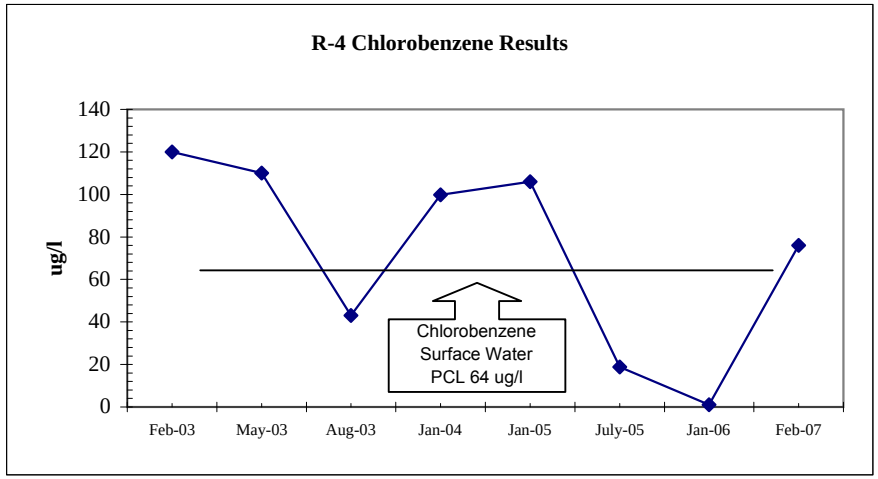


Note:
Cells with a -1 or are blank indicates the sample concentration was above the laboratory detection limit
Cells with a 0 indicate the sample conentration was below the laboratory detection limit

IR SITES 1,3, AND 4 - R-4 (Trench 2)
Chlorobenzene PLOT

Chlorobenzene

DATE		RESULT, ug/l	SAMPLE_ID
2/21/2003	Feb-03	120	CRPGR00407
5/14/2003	May-03	110	CRPGR00408
8/15/2003	Aug-03	43	CRPGR00409
1/20/2004	Jan-04	99.8	04-A10226
1/31/2005	Jan-05	106	05-A15803
7/13/2005	July-05	18.8	05-A101739
1/20/2006	Jan-06	0.980	NPA2611-01
2/21/2007	Feb-07	76.0	NQB3195-25

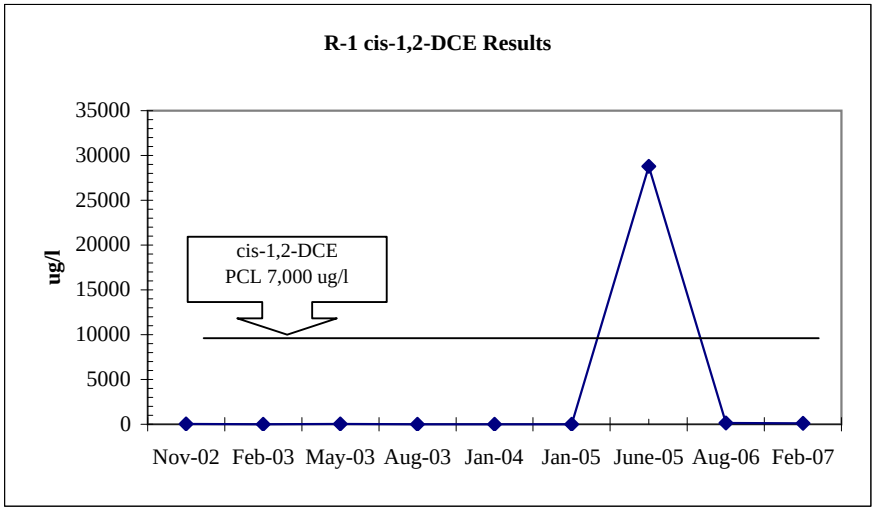


Note:
Cells with a -1 or are blank indicates the sample concentration was above the laboratory detection limit
Cells with a 0 indicate the sample conentration was below the laboratory detection limit

IR SITES 1,3, AND 4 - R-1 (Trench 1)
1,2 DCE, AND Vinyl Chloride PLOTS

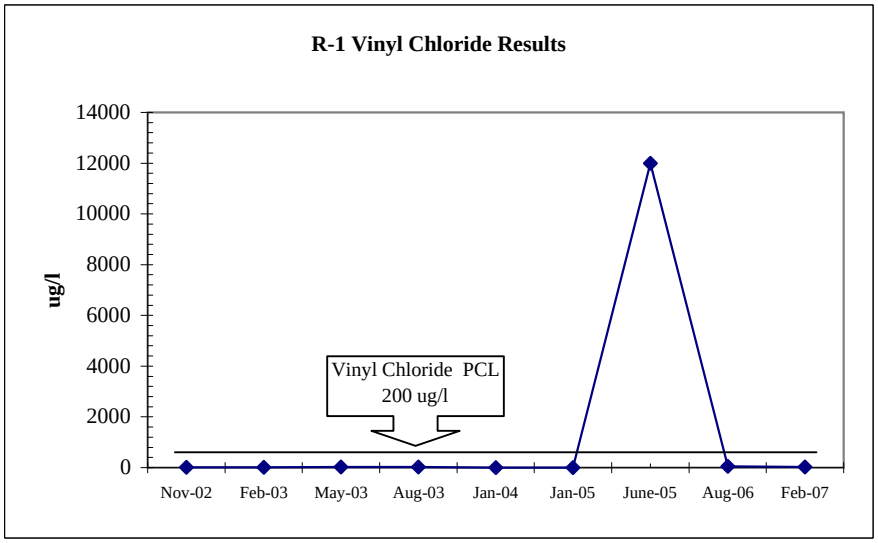
cis-1,2-Dichloroethene

DATE		RESULT, ug/l	SAMPLE_ID
11/19/2002	Nov-02	19	CRPGR00106
2/18/2003	Feb-03	11	CRPGR00107
5/13/2003	May-03	20	CRPGR00108
8/12/2003	Aug-03	16	CRPGR00109
1/21/2004	Jan-04	5.8	04-A10238
1/28/2005	Jan-05	2.6	05-A10237
6/30/2005	June-05	28800	05-A15781
8/25/2006	Aug-06	160	NPH4008-05
2/20/2007	Feb-07	91.0	NQB3195-29



Vinyl chloride

DATE		RESULT, ug/l	SAMPLE_ID
11/19/2002	Nov-02	18	CRPGR00106
2/18/2003	Feb-03	14	CRPGR00107
5/13/2003	May-03	19	CRPGR00108
8/12/2003	Aug-03	19	CRPGR00109
1/21/2004	Jan-04	6.1	04-A10238
1/28/2005	Jan-05	1	05-A10237
6/30/2005	June-05	12000	05-A15781
8/25/2006	Aug-06	45.8	NPH4008-05
2/20/2007	Feb-07	30.4	NQB3195-29

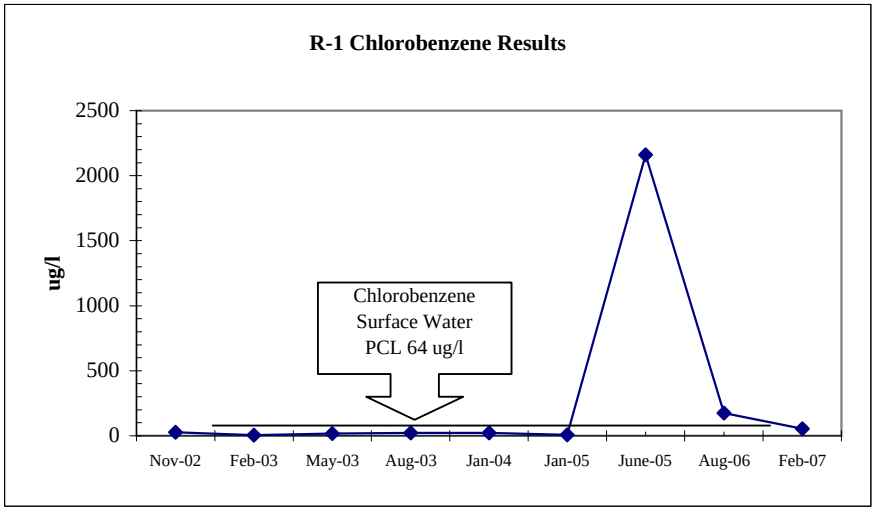


Note:
Cells with a -1 or are blank indicates the sample concentration was above the laboratory detection limit
Cells with a 0 indicate the sample conentration was below the laboratory detection limit

IR SITES 1,3, AND 4 - R-1 (Trench 1)
Chlorobenzene PLOT

Chlorobenzene

DATE		RESULT, ug/l	SAMPLE_ID
11/19/2002	Nov-02	27	CRPGR00106
2/18/2003	Feb-03	5.7	CRPGR00107
5/13/2003	May-03	18	CRPGR00108
8/12/2003	Aug-03	23	CRPGR00109
1/21/2004	Jan-04	22.7	04-A10238
1/28/2005	Jan-05	7.8	05-A10237
6/30/2005	June-05	2160	05-A15781
8/25/2006	Aug-06	174	NPH4008-05
2/20/2007	Feb-07	53.1	NQB3195-29

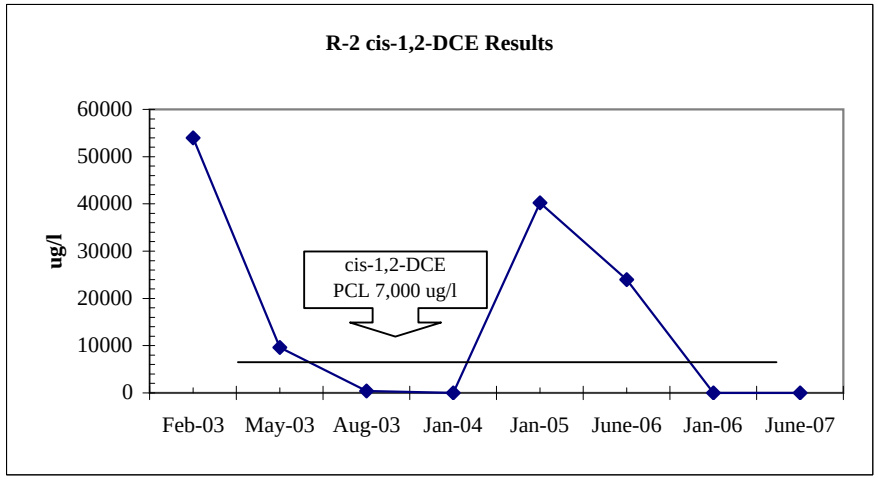


Note:
Cells with a -1 or are blank indicates the sample concentration was above the laboratory detection limit
Cells with a 0 indicate the sample conentration was below the laboratory detection limit

IR SITES 1,3, AND 4 - R-2 (Trench 1)
1,2 DCE, AND Vinyl Chloride PLOTS

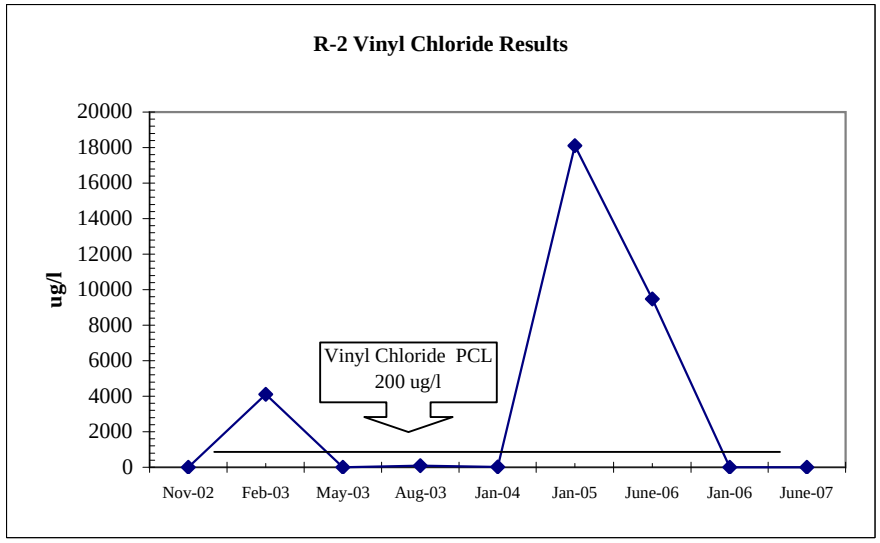
cis-1,2-Dichloroethene

DATE		RESULT, ug/l		SAMPLE_ID
2/18/2003	Feb-03	54000	-1	CRPGR00207
5/13/2003	May-03	9600		CRPGR00208
8/13/2003	Aug-03	380		CRPGR00209
1/21/2004	Jan-04	8.6		04-A10238
1/29/2005	Jan-05	40200		05-A15782
6/30/2005	June-06	24000		05-A96975
1/18/2006	Jan-06	0.720		NPA2449-06
6/22/2007	June-07	2.33		NQF3099-03



Vinyl chloride

DATE		RESULT, ug/l		SAMPLE_ID
11/12/2002	Nov-02	7.4	-1	CRPGR00206
2/18/2003	Feb-03	4100	-1	CRPGR00207
5/13/2003	May-03	6.5	0	CRPGR00208
8/13/2003	Aug-03	84		CRPGR00209
1/21/2004	Jan-04	16.7		04-A10238
1/29/2005	Jan-05	18100		05-A15782
6/30/2005	June-06	9480		05-A96975
1/18/2006	Jan-06	3.04		NPA2449-06
6/22/2007	June-07	1.52		NQF3099-03



Note:
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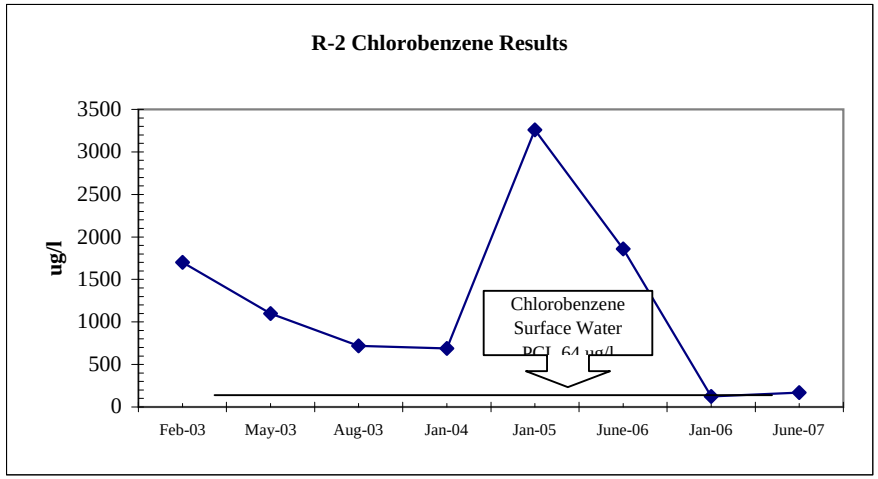
Cells with a 0 indicate the sample conentration was below the laboratory detection limit

IR SITES 1,3, AND 4 - R-2 (Trench 1)
Chlorobenzene PLOT

Chlorobenzene

DATE		RESULT, ug/l		SAMPLE_ID
2/18/2003	Feb-03	1700	-1	CRPGR00207
5/13/2003	May-03	1100		CRPGR00208
8/13/2003	Aug-03	720		CRPGR00209
1/21/2004	Jan-04	688		04-A10238
1/29/2005	Jan-05	3260		05-A15782
6/30/2005	June-06	1860		05-A96975
1/18/2006	Jan-06	124		NPA2449-06
6/22/2007	June-07	169		NQF3099-03



Note:
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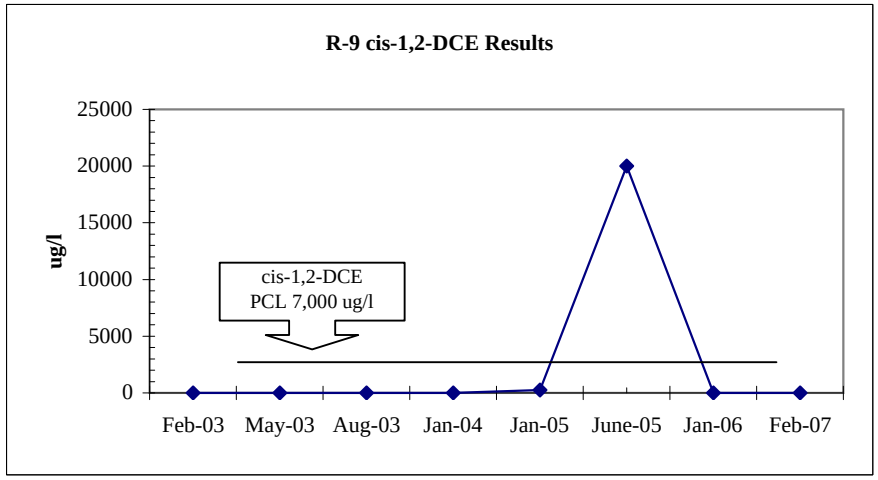
Cells with a 0 indicate the sample conentration was below the laboratory detection limit

IR SITES 1,3, AND 4 - R-9 (Trench 1)
1,2 DCE, AND Vinyl Chloride PLOTS

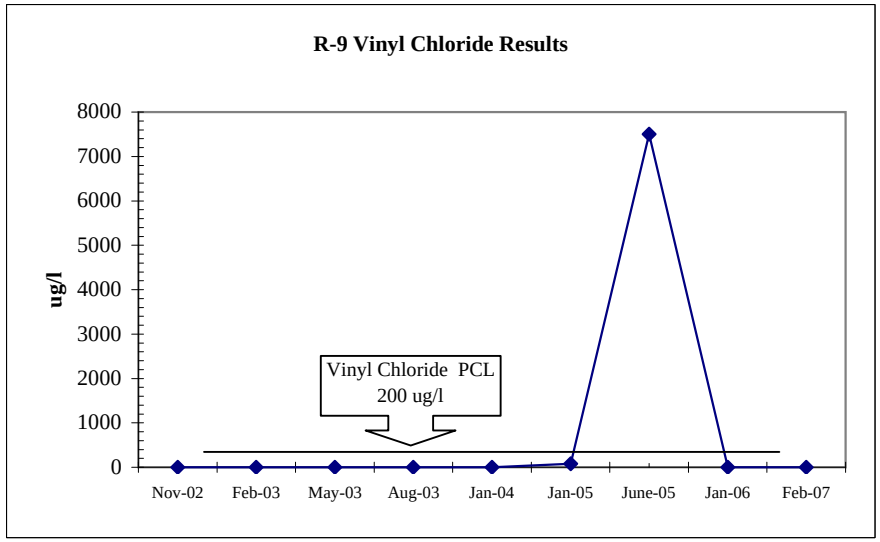
cis-1,2-Dichloroethene

DATE		RESULT, ug/l	SAMPLE_ID
2/18/2003	Feb-03	2	CRPGR00907
5/13/2003	May-03	0.64	CRPGR00908
8/13/2003	Aug-03	2.3	CRPGR00909
1/21/2004	Jan-04	0.61	04-A10242
1/29/2005	Jan-05	262	05-A15788
6/30/2005	June-05	20000	05-A96977
1/18/2006	Jan-06	0.680	NPA2449-05
2/20/2007	Feb-07	2.88	NQB3195-30



Vinyl chloride

DATE		RESULT, ug/l	SAMPLE_ID
11/20/2002	Nov-02	1.4	CRPGR00906
2/18/2003	Feb-03	0.52	CRPGR00907
5/13/2003	May-03	0.52	CRPGR00908
8/13/2003	Aug-03	2.3	CRPGR00909
1/21/2004	Jan-04	0.8	04-A10242
1/29/2005	Jan-05	77	05-A15788
6/30/2005	June-05	7500	05-A96977
1/18/2006	Jan-06	0.700	NPA2449-05
2/20/2007	Feb-07	3.35	NQB3195-30



Note:
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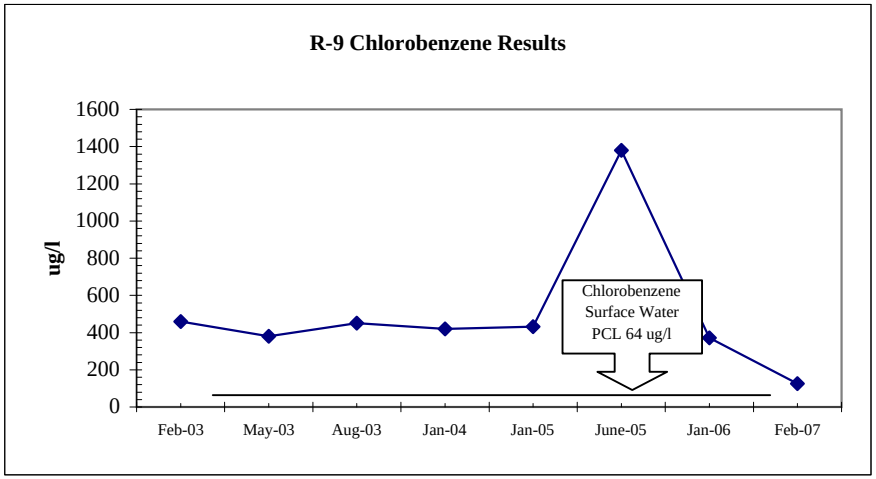
Cells with a 0 indicate the sample conentration was below the laboratory detection limit

IR SITES 1,3, AND 4 - R-9 (Trench 1)
Chlorobenzene PLOT

Chlorobenzene

DATE		RESULT, ug/l	SAMPLE_ID
2/18/2003	Feb-03	460	CRPGR00907
5/13/2003	May-03	380	CRPGR00908
8/13/2003	Aug-03	450	CRPGR00909
1/21/2004	Jan-04	419	04-A10242
1/29/2005	Jan-05	432	05-A15788
6/30/2005	June-05	1380	05-A96977
1/18/2006	Jan-06	372	NPA2449-05
2/20/2007	Feb-07	125	NQB3195-30

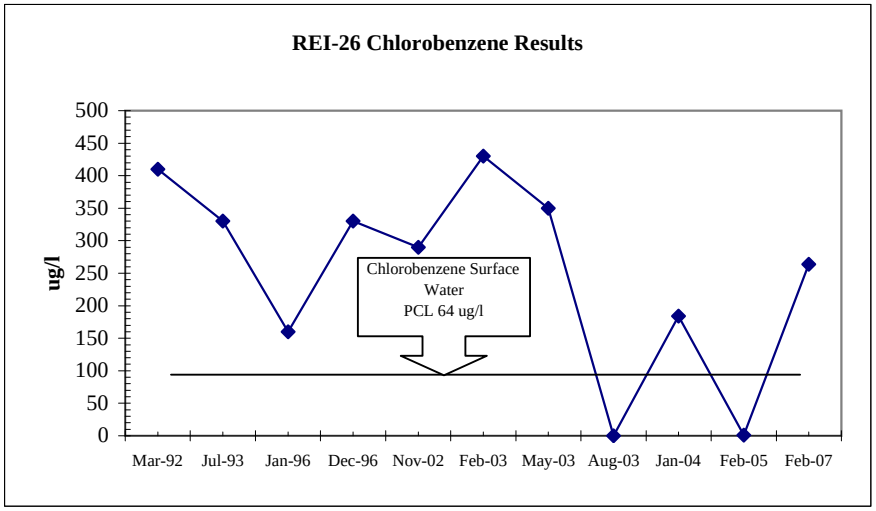


Note:
Cells with a -1 or are blank indicates the sample concentration was above the laboratory detection limit
Cells with a 0 indicate the sample conentration was below the laboratory detection limit

IR SITES 1,3, AND 4 - REI-26 (Trench 1)
Chlorobenzene PLOT

Chlorobenzene

DATE		RESULT, ug/l		SAMPLE_ID
3/31/1992	Mar-92	410	-1	042G1REI26
7/12/1993	Jul-93	330	-1	073G1REI26
1/12/1996	Jan-96	160		016G1REI26
12/6/1996	Dec-96	330		126G1REI26
11/9/2002	Nov-02	290		CRPGRE2606
2/21/2003	Feb-03	430	-1	CRPGRE2607
5/14/2003	May-03	350		CRPGRE2608
8/15/2003	Aug-03	0.1	0	CRPGRE2609
1/21/2004	Jan-04	184		04-A10230
2/2/2005	Feb-05	1	0	05-A15759
2/21/2007	Feb-07	264		NQB3195-02

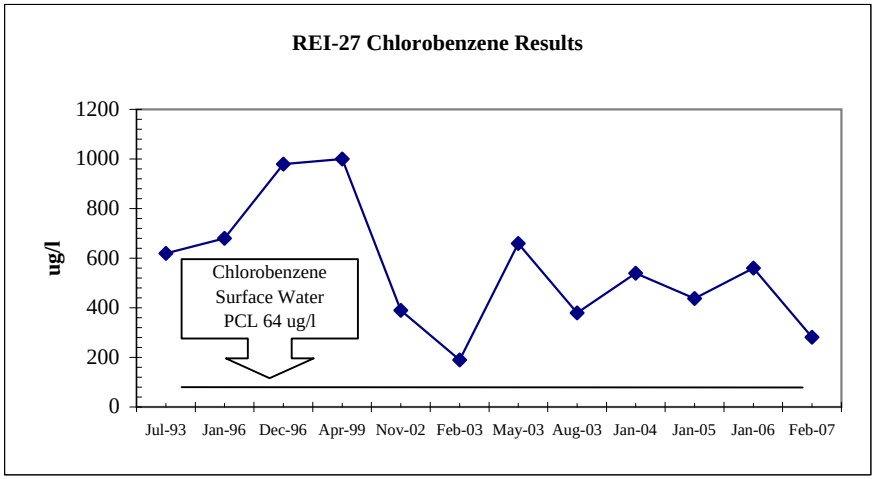


Note:
Cells with a -1 or are blank indicates the sample concentration was above the laboratory detection limit
Cells with a 0 indicate the sample conentration was below the laboratory detection limit

IR SITES 1,3, AND 4 - REI-27 (Trench 1)
Chlorobenzene PLOT

Chlorobenzene

DATE		RESULT, ug/l		SAMPLE_ID
7/14/1993	Jul-93	620	-1	073G1REI26
1/12/1996	Jan-96	680		016G1REI26
12/4/1996	Dec-96	980		126G1REI26
4/18/1999	Apr-99	1000		
11/8/2002	Nov-02	390		CRPGRE2606
2/18/2003	Feb-03	190	-1	CRPGRE2607
5/13/2003	May-03	660		CRPGRE2608
8/13/2003	Aug-03	380	0	CRPGRE2609
1/21/2004	Jan-04	539		04-A10243
1/28/2005	Jan-05	438	0	05-A15760
1/18/2006	Jan-06	560		NPA2449-09
2/20/2007	Feb-07	281		NQB3195-27

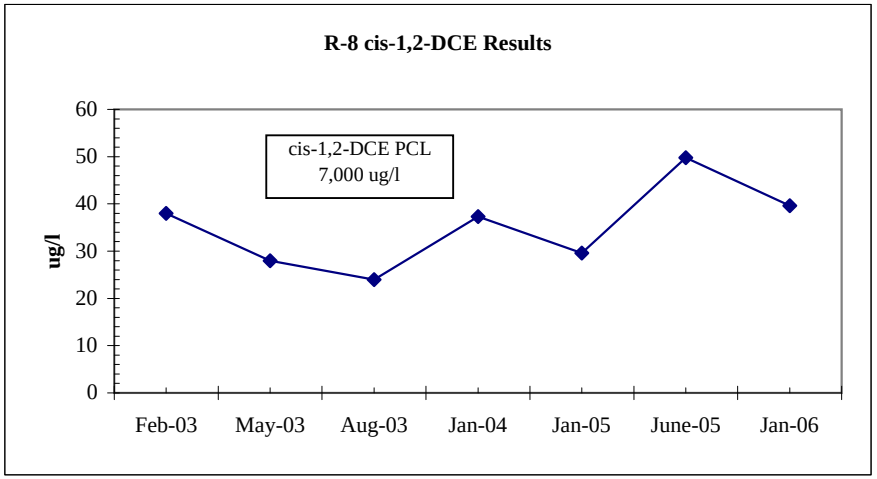


Note:
Cells with a -1 or are blank indicates the sample concentration was above the laboratory detection limit
Cells with a 0 indicate the sample conentration was below the laboratory detection limit

IR SITES 1,3, AND 4 - R-8
1,2 DCE, AND Vinyl Chloride PLOTS

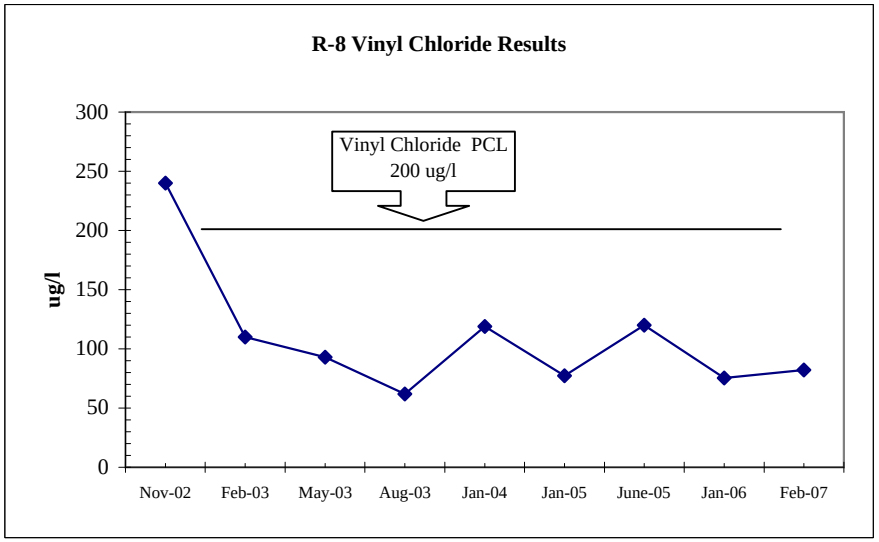
cis-1,2-Dichloroethene

DATE		RESULT, ug/l	SAMPLE_ID
2/20/2003	Feb-03	38	CRPGR00807
5/15/2003	May-03	28	CRPGR00808
8/14/2003	Aug-03	24	CRPGR00809
1/21/2004	Jan-04	37.3	04-A10241
1/31/2005	Jan-05	29.6	05-A15787
6/30/2005	June-05	49.8	05-A96979
1/18/2006	Jan-06	39.6	NPA2449-15
2/22/2007	Feb-07	Rejected	NQB3195-12



Vinyl chloride

DATE		RESULT, ug/l	SAMPLE_ID
11/12/2002	Nov-02	240	CRPGR00806
2/20/2003	Feb-03	110	CRPGR00807
5/15/2003	May-03	93	CRPGR00808
8/14/2003	Aug-03	62	CRPGR00809
1/21/2004	Jan-04	119	04-A10241
1/31/2005	Jan-05	77.2	05-A15787
6/30/2005	June-05	120	05-A96979
1/18/2006	Jan-06	75.5	NPA2449-15
2/22/2007	Feb-07	82.1	NQB3195-12

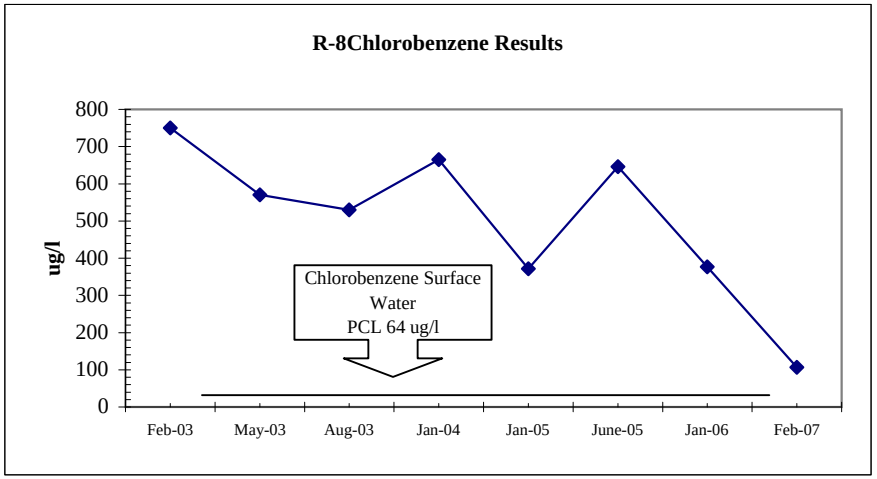


Note:
Cells with a -1 or are blank indicates the sample concentration was above the laboratory detection limit
Cells with a 0 indicate the sample conentration was below the laboratory detection limit

IR SITES 1,3, AND 4 - R-8
Chlorobenzene PLOT

Chlorobenzene

DATE		RESULT, ug/l	SAMPLE_ID
2/20/2003	Feb-03	750	CRPGR00807
5/15/2003	May-03	570	CRPGR00808
8/14/2003	Aug-03	530	CRPGR00809
1/21/2004	Jan-04	665	04-A10241
1/31/2005	Jan-05	372	05-A15787
6/30/2005	June-05	646	05-A96979
1/18/2006	Jan-06	377	NPA2449-15
2/22/2007	Feb-07	107	NQB3195-12



Note:
Cells with a -1 or are blank indicates the sample concentration was above the laboratory detection limit
Cells with a 0 indicate the sample conentration was below the laboratory detection limit

Appendix D

2007 Groundwater Sampling Logs

GROUNDWATER PURGING & SAMPLING LOG

TERRAINE
Environmental Consulting

Project Information

Project No: 02-21003	Project Name: Corpus Christi	
Technician 1: Dewey Dodson	Technician 2: David Dodson	Weather: Sunshine
Sampling ID: :2/22/07		
Notes:		

Well Information

Well ID: **ES-13**	Sampling Date: **2/22/2007**	
Well Diam (in): 4.0	Total Well Depth (ft): 23.38	Well Screen Interval (ft): 3.38-23.38
TOC Elevation (ft amsl): 13.17	Northing: 17143842.94	Easting: 1380554.81
Static Depth to Water (ft): 3.51	Well Capacity (gal): 0.00	

Purge Setup

Purge Method: Peristaltic	Tubing Material: Teflon		Pump Set at (ft): 7.00
pH Meter: Horiba U-22	Cond. Meter: Horiba U-22	DO Meter: Horiba U-22	Turb. Meter: Horiba U-22
Purge Start: 12:07:20	Purge End: 12:22:39	Total Volume Purged (gal): 0.75	

Purging Data

Time	Water Level (ft)	Vol Purged (gal)	Pump Rate (gal/min)	DO (mg/L)	Temp (°C)	SEC (µS/cm)	pH	ORP (mV)	Turbidity (NTU)	Salinity	Color	Odor
12:11:14	3.91	0.25	0.062	0.77	24.80	450.0	12.52	-314.0	18.00		Clean	None
12:15:29	4.12	0.50	0.062	0.70	24.70	450.0	12.52	-317.0	10.00		clean	none
12:20:38	4.17	0.75	0.050	0.75	24.60	450.0	12.52	-320.0	10.00		clean	none

Sampling Data

Sample Information

Sample Date: 2/22/2007
Sample Start Time: 12:22:39
Sample End Time: 12:24:16
Field Filtered: ☐
Duplicate: ☐

Final Purge Readings

DO (mg/L): 0.53
Temp (°C): 24.60
SEC (uS/cm): 453
pH: 12.53
ORP (mV): -323
Turb (NTU): 9.00
Salinity:

Hach Field Data (mg/L)

DO:
CO2:
Alkalinity:
Ferrous Iron:
H2S:
Manganese:
Sulfate:
Sulfide:
Nitrate:

CHEMetrics Field Data (mg/L)

DO High Range:
DO High Range:

CO2 High Range:
CO2 Low Range:

Alkalinity High Range:
Alkalinity Low Range:

Lab Analyses/Methods:

Voc

Technician Initials

GROUNDWATER PURGING & SAMPLING LOG

TERRAINE Environmental Consulting

Project Information

Project No: 02-21003	Project Name: Corpus Christi	
Technician 1: Dewey Dodson	Technician 2: David Dodson	Weather: Partly clouds
Sampling ID: 02-21003:ES-14:2/22/07		
Notes:		

Well Information

Well ID: **ES-14**	Sampling Date: **2/22/2007**	
Well Diam (in): 2.0	Total Well Depth (ft): 13.52	Well Screen Interval (ft): 3.52-13.52
TOC Elevation (ft amsl): 13.19	Northing: 17143831.38	Easting: 1380592.46
Static Depth to Water (ft): 3.42	Well Capacity (gal): 1.64	

Purge Setup

Purge Method: Peristaltic	Tubing Material: Teflon		Pump Set at (ft): 7.00
pH Meter: Horiba U-22	Cond. Meter: Horiba U-22	DO Meter: Horiba U-22	Turb. Meter: Horiba U-22
Purge Start: 11:35:47	Purge End: 11:59:23	Total Volume Purged (gal): 1.00	

Purging Data

Time	Water Level (ft)	Vol Purged (gal)	Pump Rate (gal/min)	DO (mg/L)	Temp (°C)	SEC (µS/cm)	pH	ORP (mV)	Turbidity (NTU)	Salinity	Color	Odor
11:37:29	4.00	0.25	0.147	2.70	24.10	846.0	14.20	-375.0	200.00		milky	none
11:48:35	4.11	0.50	0.022	0.70	24.00	881.0	14.30	-375.0	130.00		clear	none
11:52:39	4.15	0.75	0.061	0.65	24.10	850.0	14.23	-375.0	60.00		clear	none
11:56:24	4.15	1.00	0.066	0.72	24.00	861.0	14.20	-351.0	60.00		clear	none

Sampling Data

Sample Information

Sample Date: 2/22/2007
Sample Start Time: 11:59:23
Sample End Time: 12:03:48
Field Filtered: ☐
Duplicate: ☐

Final Purge Readings

DO (mg/L): 0.67
Temp (°C): 24.00
SEC (uS/cm): 629
pH: 13.96
ORP (mV): -361
Turb (NTU): 45.0
Salinity:

Hach Field Data (mg/L)

DO:
CO2:
Alkalinity:
Ferrous Iron:
H2S:
Manganese:
Sulfate:
Sulfide:
Nitrate:

CHEMetrics Field Data (mg/L)

DO High Range:
DO High Range:

CO2 High Range:
CO2 Low Range:

Alkalinity High Range:
Alkalinity Low Range:

Lab Analyses/Methods:

Voc

Technician Initials

GROUNDWATER PURGING & SAMPLING LOG

TERRAINE Environmental Consulting

Project Information

Project No: 02-21003	Project Name: Corpus Christi	
Technician 1: Dewey Dodson	Technician 2: David Dodson	Weather: Cloudy
Sampling ID: 02-21003:ES-23:2/22/07		
Notes:		

Well Information

Well ID: **ES-23**	Sampling Date: **2/22/2007**	
Well Diam (in): 2.0	Total Well Depth (ft): 14.41	Well Screen Interval (ft): 4.41-14.41
TOC Elevation (ft amsl): 9.69	Northing: 17145831.42	Easting: 1380811.38
Static Depth to Water (ft): 4.85	Well Capacity (gal): 1.56	

Purge Setup

Purge Method: Peristaltic	Tubing Material: Teflon		Pump Set at (ft): 8.00
pH Meter: Horiba U-22	Cond. Meter: Horiba U-22	DO Meter: Horiba U-22	Turb. Meter: Horiba U-22
Purge Start: 18:10:09	Purge End: 18:24:49	Total Volume Purged (gal): 0.75	

Purging Data

Time	Water Level (ft)	Vol Purged (gal)	Pump Rate (gal/min)	DO (mg/L)	Temp (°C)	SEC (µS/cm)	pH	ORP (mV)	Turbidity (NTU)	Salinity	Color	Odor
18:15:23	4.86	0.25	0.047	3.15	23.70	94.0	7.30	-64.0	5.00		clear	none
18:18:27	5.10	0.50	0.060	1.42	23.70	95.0	7.08	-67.0	3.00		clear	none
18:22:08	5.28	0.75	0.067	1.13	23.50	96.0	6.91	-59.0	3.00		clear	none

Sampling Data

Sample Information

Sample Date: 2/22/2007
Sample Start Time: 18:24:49
Sample End Time: 18:25:10
Field Filtered: ☐
Duplicate: ☐

Final Purge Readings

DO (mg/L): 1.14
Temp (°C): 23.40
SEC (uS/cm): 96
pH: 6.97
ORP (mV): -61
Turb (NTU): 3.00
Salinity:

Hach Field Data (mg/L)

DO:
CO2:
Alkalinity:
Ferrous Iron:
H2S:
Manganese:
Sulfate:
Sulfide:
Nitrate:

CHEMetrics Field Data (mg/L)

DO High Range:
DO High Range:

CO2 High Range:
CO2 Low Range:

Alkalinity High Range:
Alkalinity Low Range:

Lab Analyses/Methods:

Voc

Technician Initials

GROUNDWATER PURGING & SAMPLING LOG

TERRAINE
Environmental Consulting

Project Information

Project No: 02-21003	Project Name: Corpus Christi	
Technician 1: Dewey Dodson	Technician 2: David Dodson	Weather: Clouds
Sampling ID: 02-21003:ES-28:2/22/07		
Notes:		

Well Information

Well ID: **ES-28**	Sampling Date: **2/22/2007**	
Well Diam (in): 2.0	Total Well Depth (ft): 28.70	Well Screen Interval (ft): 18.7-28.7
TOC Elevation (ft amsl): 12.33	Northing: 17145036.1	Easting: 1380854.67
Static Depth to Water (ft): 8.55	Well Capacity (gal): 3.28	

Purge Setup

Purge Method: Peristaltic	Tubing Material: Teflon		Pump Set at (ft): 23.00
pH Meter: Horiba U-22	Cond. Meter: Horiba U-22	DO Meter: Horiba U-22	Turb. Meter: Horiba U-22
Purge Start: 16:59:22	Purge End: 17:19:18	Total Volume Purged (gal): 0.75	

Purging Data

Time	Water Level (ft)	Vol Purged (gal)	Pump Rate (gal/min)	DO (mg/L)	Temp (°C)	SEC (µS/cm)	pH	ORP (mV)	Turbidity (NTU)	Salinity	Color	Odor
17:09:36	8.65	0.25	0.024	2.90	23.80	267.0	7.46	45.0	14.00		clear	none
17:13:52	8.80	0.50	0.058	2.42	24.20	268.0	7.36	29.0	34.00		clear	none
17:17:47	8.80	0.75	0.063	2.47	24.40	260.0	7.35	20.0	13.00		clear	none

Sampling Data

Sample Information

Sample Date: 2/22/2007
Sample Start Time: 17:19:18
Sample End Time: 17:20:13
Field Filtered: ☐
Duplicate: ☐

Final Purge Readings

DO (mg/L): 2.43
Temp (°C): 25.00
SEC (uS/cm): 257
pH: 7.36
ORP (mV): 21
Turb (NTU): 5.00
Salinity:

Hach Field Data (mg/L)

DO:
CO2:
Alkalinity:
Ferrous Iron:
H2S:
Manganese:
Sulfate:
Sulfide:
Nitrate:

CHEMetrics Field Data (mg/L)

DO High Range:
DO High Range:

CO2 High Range:
CO2 Low Range:

Alkalinity High Range:
Alkalinity Low Range:

Lab Analyses/Methods:

Voc

Technician Initials

GROUNDWATER PURGING & SAMPLING LOG

TERRAINE
Environmental Consulting

Project Information

Project No: 02-21003	Project Name: Corpus Christi	
Technician 1: Dewey Dodson	Technician 2: David Dodson	Weather: Clouds
Sampling ID: 02-21003:ES-29:2/22/07		
Notes: 3rd turbidity reading not obtained, final turbidity reading not obtained		

Well Information

Well ID: **ES-29**	Sampling Date: **2/22/2007**	
Well Diam (in): 2.0	Total Well Depth (ft): 11.05	Well Screen Interval (ft): 1.05-11.05
TOC Elevation (ft amsl): 12.33	Northing: 17145034.88	Easting: 1380858.78
Static Depth to Water (ft): 8.25	Well Capacity (gal): 0.45	

Purge Setup

Purge Method: Peristaltic	Tubing Material: Teflon		Pump Set at (ft): 10.00
pH Meter: Horiba U-22	Cond. Meter: Horiba U-22	DO Meter: Horiba U-22	Turb. Meter: Horiba U-22
Purge Start: 16:40:09	Purge End: 16:54:09	Total Volume Purged (gal): 0.75	

Purging Data

Time	Water Level (ft)	Vol Purged (gal)	Pump Rate (gal/min)	DO (mg/L)	Temp (°C)	SEC (µS/cm)	pH	ORP (mV)	Turbidity (NTU)	Salinity	Color	Odor
16:44:42	8.71	0.25	0.054	5.60	22.60	63.0	8.08	57.0	87.00		clear	none
16:48:36	8.84	0.50	0.059	6.29	22.40	62.9	8.05	60.0	30.00		clear	none
16:52:04	8.91	0.75	0.072	6.15	22.40	62.9	8.03	65.0	0.00		clear	none

Sampling Data

Sample Information

Sample Date: 2/22/2007
Sample Start Time: 16:54:09
Sample End Time: 16:57:25
Field Filtered: ☐
Duplicate: ☐

Final Purge Readings

DO (mg/L): 6.97
Temp (°C): 22.40
SEC (uS/cm): 63
pH: 8.05
ORP (mV): 66
Turb (NTU): 0.00
Salinity:

Hach Field Data (mg/L)

DO:
CO2:
Alkalinity:
Ferrous Iron:
H2S:
Manganese:
Sulfate:
Sulfide:
Nitrate:

CHEMetrics Field Data (mg/L)

DO High Range:
DO High Range:

CO2 High Range:
CO2 Low Range:

Alkalinity High Range:
Alkalinity Low Range:

Lab Analyses/Methods:

Voc

Technician Initials

GROUNDWATER PURGING & SAMPLING LOG

TERRAINE Environmental Consulting

Project Information

Project No: 02-21003	Project Name: Corpus Christi	
Technician 1: Dewey Dodson	Technician 2: David Dodson	Weather: Clear
Sampling ID: 02-21003:ES-33:2/20/07		
Notes:		

Well Information

Well ID: **ES-33**	Sampling Date: **2/20/2007**	
Well Diam (in): 2.0	Total Well Depth (ft): 11.49	Well Screen Interval (ft): 1.49-11.49
TOC Elevation (ft amsl): 16.42	Northing: 17140993.25	Easting: 1379907.49
Static Depth to Water (ft): 7.35	Well Capacity (gal): 0.67	

Purge Setup

Purge Method: Peristaltic	Tubing Material: Teflon		Pump Set at (ft): 12.00
pH Meter: Horiba U-22	Cond. Meter: Horiba U-22	DO Meter: Horiba U-22	Turb. Meter: Horiba U-22
Purge Start: 10:52:08	Purge End: 11:19:33	Total Volume Purged (gal): 0.75	

Purging Data

Time	Water Level (ft)	Vol Purged (gal)	Pump Rate (gal/min)	DO (mg/L)	Temp (°C)	SEC (µS/cm)	pH	ORP (mV)	Turbidity (NTU)	Salinity	Color	Odor
10:52:27	9.08	0.25	0.789	6.58	27.20	2,539.0	8.67	-213.0	224.00		milky	organic
11:00:46	9.85	0.50	0.030	6.70	26.70	2,569.0	8.61	-208.0	222.00		milky	organic
11:04:44	10.11	0.75	0.063	6.77	26.50	2,554.0	8.66	-204.0	206.00		clear	none

Sampling Data

Sample Information

Sample Date: 2/20/2007
Sample Start Time: 11:19:33
Sample End Time: 11:21:24
Field Filtered: ☐
Duplicate: ☐

Final Purge Readings

DO (mg/L): 6.68
Temp (°C): 25.10
SEC (uS/cm): 1799
pH: 8.72
ORP (mV): -200
Turb (NTU): 150
Salinity:

Hach Field Data (mg/L)

DO:
CO2:
Alkalinity:
Ferrous Iron:
H2S:
Manganese:
Sulfate:
Sulfide:
Nitrate:

CHEMetrics Field Data (mg/L)

DO High Range:
DO High Range:

CO2 High Range:
CO2 Low Range:

Alkalinity High Range:
Alkalinity Low Range:

Lab Analyses/Methods:

Voc

Technician Initials

GROUNDWATER PURGING & SAMPLING LOG

TERRAINE Environmental Consulting

Project Information

Project No: 02-21003	Project Name: Corpus Christi	
Technician 1: Dewey Dodson	Technician 2: David Dodson	Weather: Sunny
Sampling ID: 02-21003:ES-36:2/21/07		
Notes:		

Well Information

Well ID: **ES-36**	Sampling Date: **2/21/2007**	
Well Diam (in): 2.0	Total Well Depth (ft): 12.02	Well Screen Interval (ft): 2.02-12.02
TOC Elevation (ft amsl): 19.43	Northing: 17139999.76	Easting: 1379450.65
Static Depth to Water (ft): 4.56	Well Capacity (gal): 1.21	

Purge Setup

Purge Method: Peristaltic	Tubing Material: Teflon		Pump Set at (ft): 9.00
pH Meter: Horiba U-22	Cond. Meter: Horiba U-22	DO Meter: Horiba U-22	Turb. Meter: Horiba U-22
Purge Start: 15:44:49	Purge End: 16:02:14	Total Volume Purged (gal): 1.00	

Purging Data

Time	Water Level (ft)	Vol Purged (gal)	Pump Rate (gal/min)	DO (mg/L)	Temp (°C)	SEC (µS/cm)	pH	ORP (mV)	Turbidity (NTU)	Salinity	Color	Odor
15:48:38	4.72	0.25	0.065	3.29	23.90	183.0	7.29	-130.0	330.00		brown	none
15:52:04	4.75	0.50	0.072	2.10	23.00	180.0	7.30	-130.0	244.00		milky	none
15:55:32	4.75	0.75	0.072	1.74	22.60	183.0	7.32	-135.0	240.00		turbid	none
15:59:11	4.75	1.00	0.068	1.52	22.50	182.0	7.32	-135.0	237.00		clear	none

Sampling Data

Sample Information

Sample Date: 2/21/2007
Sample Start Time: 16:02:14
Sample End Time: 16:05:51
Field Filtered: ☐
Duplicate: ☐

Final Purge Readings

DO (mg/L): 1.38
Temp (°C): 23.00
SEC (uS/cm): 181
pH: 7.32
ORP (mV): -137
Turb (NTU): 220
Salinity:

Hach Field Data (mg/L)

DO:
CO2:
Alkalinity:
Ferrous Iron:
H2S:
Manganese:
Sulfate:
Sulfide:
Nitrate:

CHEMetrics Field Data (mg/L)

DO High Range:
DO High Range:

CO2 High Range:
CO2 Low Range:

Alkalinity High Range:
Alkalinity Low Range:

Lab Analyses/Methods:

Voc

Technician Initials

GROUNDWATER PURGING & SAMPLING LOG

TERRAINE
Environmental Consulting

Project Information

Project No: 02-21003	Project Name: Corpus Christi	
Technician 1: Dewey Dodson	Technician 2: David Dodson	Weather: Clouds
Sampling ID: 02-21003:ES-37:2/22/07		
Notes:		

Well Information

Well ID: **ES-37**	Sampling Date: **2/22/2007**	
Well Diam (in): 2.0	Total Well Depth (ft): 13.03	Well Screen Interval (ft): 3.03-13.03
TOC Elevation (ft amsl): 15.78	Northing: 17140684.18	Easting: 1380996.46
Static Depth to Water (ft): 1.41	Well Capacity (gal): 1.89	

Purge Setup

Purge Method: Peristaltic	Tubing Material: Teflon		Pump Set at (ft): 5.00
pH Meter: Horiba U-22	Cond. Meter: Horiba U-22	DO Meter: Horiba U-22	Turb. Meter: Horiba U-22
Purge Start: 15:21:35	Purge End: 15:34:27	Total Volume Purged (gal): 0.75	

Purging Data

Time	Water Level (ft)	Vol Purged (gal)	Pump Rate (gal/min)	DO (mg/L)	Temp (°C)	SEC (µS/cm)	pH	ORP (mV)	Turbidity (NTU)	Salinity	Color	Odor
15:24:06	1.50	0.25	0.099	1.58	19.50	65.8	7.70	-80.0	39.00		clear	none
15:28:23	1.50	0.50	0.073	1.11	19.40	65.8	7.21	-75.0	37.00		clear	none
15:32:07	1.50	0.75	0.067	1.01	19.20	65.2	7.04	-76.0	38.00		clear	none

Sampling Data

Sample Information

Sample Date: 2/22/2007
Sample Start Time: 15:34:27
Sample End Time: 15:36:19
Field Filtered: ☐
Duplicate: ☐

Final Purge Readings

DO (mg/L): 1.03
Temp (°C): 19.30
SEC (uS/cm): 65
pH: 7.01
ORP (mV): -75
Turb (NTU): 40.0
Salinity:

Hach Field Data (mg/L)

DO:
CO2:
Alkalinity:
Ferrous Iron:
H2S:
Manganese:
Sulfate:
Sulfide:
Nitrate:

CHEMetrics Field Data (mg/L)

DO High Range:
DO High Range:

CO2 High Range:
CO2 Low Range:

Alkalinity High Range:
Alkalinity Low Range:

Lab Analyses/Methods:

Voc

Technician Initials

GROUNDWATER PURGING & SAMPLING LOG

TERRAINE
Environmental Consulting

Project Information

Project No: 02-21003	Project Name: Corpus Christi	
Technician 1: Dewey Dodson	Technician 2: David Dodson	Weather: "Clouds foggy"
Sampling ID: 02-21003:ES-43:2/21/07		
Notes:		

Well Information

Well ID: **ES-43**	Sampling Date: **2/21/2007**	
Well Diam (in): 2.0	Total Well Depth (ft): 40.02	Well Screen Interval (ft): 35.02-40.02
TOC Elevation (ft amsl): 19.99	Northing: 17139679.63	Easting: 1380122.29
Static Depth to Water (ft): 13.01	Well Capacity (gal): 4.40	

Purge Setup

Purge Method: Peristaltic	Tubing Material: 17		Pump Set at (ft): 0.00
pH Meter: Horiba U-22	Cond. Meter: Horiba U-22	DO Meter: Horiba U-22	Turb. Meter: Horiba U-22
Purge Start: 09:10:10	Purge End: 09:30:10	Total Volume Purged (gal): 1.00	

Purging Data

Time	Water Level (ft)	Vol Purged (gal)	Pump Rate (gal/min)	DO (mg/L)	Temp (°C)	SEC (µS/cm)	pH	ORP (mV)	Turbidity (NTU)	Salinity	Color	Odor
09:11:01	13.28	0.25	0.294	1.09	24.00	267.0	7.31	20.0	55.00		clear	none
09:17:58	13.30	0.50	0.036	1.08	24.30	260.0	7.55	22.0	53.00		clear	none
09:22:44	13.32	0.75	0.052	1.07	24.40	272.0	7.66	22.0	52.00		clear	none

Sampling Data

Sample Information

Sample Date: 2/21/2007
Sample Start Time: 09:30:10
Sample End Time: 09:32:41
Field Filtered: ☐
Duplicate: ☐

Final Purge Readings

DO (mg/L): 0.98
Temp (°C): 24.40
SEC (uS/cm): 272
pH: 7.69
ORP (mV): 22
Turb (NTU): 51.0
Salinity:

Hach Field Data (mg/L)

DO:
CO2:
Alkalinity:
Ferrous Iron:
H2S:
Manganese:
Sulfate:
Sulfide:
Nitrate:

CHEMetrics Field Data (mg/L)

DO High Range:
DO High Range:

CO2 High Range:
CO2 Low Range:

Alkalinity High Range:
Alkalinity Low Range:

Lab Analyses/Methods:

Voc

Technician Initials

GROUNDWATER PURGING & SAMPLING LOG

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Project Information

Project No: 02-21003	Project Name: Corpus Christi	
Technician 1: Dewey Dodson	Technician 2: David Dodson	Weather: Clouds
Sampling ID: 02-21003:ES-46:2/21/07		
Notes:		

Well Information

Well ID: **ES-46**	Sampling Date: **2/21/2007**	
Well Diam (in): 2.0	Total Well Depth (ft): 11.65	Well Screen Interval (ft): 1.65-11.65
TOC Elevation (ft amsl): 18.76	Northing: 17139430.91	Easting: 1379911.36
Static Depth to Water (ft): 3.92	Well Capacity (gal): 1.26	

Purge Setup

Purge Method: Peristaltic	Tubing Material: Teflon		Pump Set at (ft): 7.00
pH Meter: Horiba U-22	Cond. Meter: Horiba U-22	DO Meter: Horiba U-22	Turb. Meter: Horiba U-22
Purge Start: 09:48:17	Purge End: 10:04:22	Total Volume Purged (gal): 1.00	

Purging Data

Time	Water Level (ft)	Vol Purged (gal)	Pump Rate (gal/min)	DO (mg/L)	Temp (°C)	SEC (µS/cm)	pH	ORP (mV)	Turbidity (NTU)	Salinity	Color	Odor
09:48:53	4.71	0.25	0.416	1.97	23.00	179.0	7.24	-129.0	16.00		clear	none
09:55:19	4.65	0.50	0.071	1.33	23.30	174.0	7.24	-126.0	11.00		clear	none
10:01:08	4.57	0.75	0.043	1.12	23.50	176.0	7.20	-122.0	13.00		clear	none

Sampling Data

Sample Information

Sample Date: 2/21/2007
Sample Start Time: 10:04:22
Sample End Time: 10:06:25
Field Filtered: ☐
Duplicate: ☐

Final Purge Readings

DO (mg/L): 0.98
Temp (°C): 23.50
SEC (uS/cm): 176
pH: 7.24
ORP (mV): -119
Turb (NTU): 14.0
Salinity:

Hach Field Data (mg/L)

DO:
CO2:
Alkalinity:
Ferrous Iron:
H2S:
Manganese:
Sulfate:
Sulfide:
Nitrate:

CHEMetrics Field Data (mg/L)

DO High Range:
DO High Range:

CO2 High Range:
CO2 Low Range:

Alkalinity High Range:
Alkalinity Low Range:

Lab Analyses/Methods:

Voc

Technician Initials

GROUNDWATER PURGING & SAMPLING LOG

TERRAINE
Environmental Consulting

Project Information

Project No: 02-21003	Project Name: Corpus Christi	
Technician 1: Dewey Dodson	Technician 2: David Dodson	Weather: Partly cloudy
Sampling ID: 02-21003:ES-47:2/21/07		
Notes:		

Well Information

Well ID: **ES-47**	Sampling Date: **2/21/2007**	
Well Diam (in): 2.0	Total Well Depth (ft): 12.77	Well Screen Interval (ft): 2.77-12.77
TOC Elevation (ft amsl): 19.49	Northing: 17139335	Easting: 1380012.32
Static Depth to Water (ft): 4.70	Well Capacity (gal): 1.31	

Purge Setup

Purge Method: Peristaltic	Tubing Material: Teflon		Pump Set at (ft): 8.00
pH Meter: Horiba U-22	Cond. Meter: Horiba U-22	DO Meter: Horiba U-22	Turb. Meter: Horiba U-22
Purge Start: 10:18:37	Purge End: 10:36:03	Total Volume Purged (gal): 1.00	

Purging Data

Time	Water Level (ft)	Vol Purged (gal)	Pump Rate (gal/min)	DO (mg/L)	Temp (°C)	SEC (µS/cm)	pH	ORP (mV)	Turbidity (NTU)	Salinity	Color	Odor
10:18:54	5.20	0.25	0.882	1.37	24.00	182.0	7.33	-101.0	33.00		clear	none
10:27:46	5.20	0.50	0.054	1.25	23.70	172.0	7.37	-100.0	11.00		clear	none
10:32:17	5.22	0.75	0.055	1.24	23.50	171.0	7.37	-98.0	10.00		clear	none

Sampling Data

Sample Information

Sample Date: 2/21/2007
Sample Start Time: 10:36:03
Sample End Time: 10:37:25
Field Filtered: ☐
Duplicate: ☐

Final Purge Readings

DO (mg/L): 1.23
Temp (°C): 23.60
SEC (uS/cm): 156
pH: 7.37
ORP (mV): -97
Turb (NTU): 10.0
Salinity:

Hach Field Data (mg/L)

DO:
CO2:
Alkalinity:
Ferrous Iron:
H2S:
Manganese:
Sulfate:
Sulfide:
Nitrate:

CHEMetrics Field Data (mg/L)

DO High Range:
DO High Range:

CO2 High Range:
CO2 Low Range:

Alkalinity High Range:
Alkalinity Low Range:

Lab Analyses/Methods:

Voc

Technician Initials

GROUNDWATER PURGING & SAMPLING LOG

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Project Information

Project No: 02-21003	Project Name: Corpus Christi	
Technician 1: Dewey Dodson	Technician 2: David Dodson	Weather: Cloudy
Sampling ID: 02-21003:ES-7:2/22/07		
Notes:		

Well Information

Well ID: **ES-7**	Sampling Date: **2/22/2007**	
Well Diam (in): 2.0	Total Well Depth (ft): 17.63	Well Screen Interval (ft): 7.63-17.63
TOC Elevation (ft amsl): 13.18	Northing: 17144911.92	Easting: 1380809.65
Static Depth to Water (ft): 9.27	Well Capacity (gal): 1.36	

Purge Setup

Purge Method: Peristaltic	Tubing Material: Teflon		Pump Set at (ft): 12.00
pH Meter: Horiba U-22	Cond. Meter: Horiba U-22	DO Meter: Horiba U-22	Turb. Meter: Horiba U-22
Purge Start: 11:03:46	Purge End: 11:20:09	Total Volume Purged (gal): 0.75	

Purging Data

Time	Water Level (ft)	Vol Purged (gal)	Pump Rate (gal/min)	DO (mg/L)	Temp (°C)	SEC (µS/cm)	pH	ORP (mV)	Turbidity (NTU)	Salinity	Color	Odor
11:08:50	9.75	0.25	0.049	1.33	23.70	234.0	7.37	-41.0	45.00		clear	none
11:14:01	9.85	0.50	0.048	1.58	23.80	235.0	7.39	-36.0	43.00		clear	none
11:18:42	9.92	0.75	0.053	1.48	24.00	234.0	7.43	-38.0	42.00		clear	none

Sampling Data

Sample Information

Sample Date: 2/22/2007
Sample Start Time: 11:20:09
Sample End Time: 11:21:56
Field Filtered: ☐
Duplicate: ☐

Final Purge Readings

DO (mg/L): 1.47
Temp (°C): 24.00
SEC (uS/cm): 234
pH: 7.46
ORP (mV): -39
Turb (NTU): 37.0
Salinity:

Hach Field Data (mg/L)

DO:
CO2:
Alkalinity:
Ferrous Iron:
H2S:
Manganese:
Sulfate:
Sulfide:
Nitrate:

CHEMetrics Field Data (mg/L)

DO High Range:
DO High Range:

CO2 High Range:
CO2 Low Range:

Alkalinity High Range:
Alkalinity Low Range:

Lab Analyses/Methods:

Voc

Technician Initials

GROUNDWATER PURGING & SAMPLING LOG

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Project Information

Project No: 02-21003	Project Name: Corpus Christi	
Technician 1: Dewey Dodson	Technician 2: David Dodson	Weather: Clear
Sampling ID: 02-21003:MCC-12:2/20/07		
Notes: Final DO reading not recorded		

Well Information

Well ID: **MCC-12**	Sampling Date: **2/20/2007**	
Well Diam (in): 4.0	Total Well Depth (ft): 15.21	Well Screen Interval (ft): 5.21-15.21
TOC Elevation (ft amsl): 21.82	Northing: 17139880.65	Easting: 1380677.86
Static Depth to Water (ft): 5.78	Well Capacity (gal): 6.15	

Purge Setup

Purge Method: Peristaltic	Tubing Material: Teflon		Pump Set at (ft): 10.00
pH Meter: Horiba U-22	Cond. Meter: Horiba U-22	DO Meter: Horiba U-22	Turb. Meter: Horiba U-22
Purge Start: 15:13:23	Purge End: 15:39:22	Total Volume Purged (gal): 0.75	

Purging Data

Time	Water Level (ft)	Vol Purged (gal)	Pump Rate (gal/min)	DO (mg/L)	Temp (°C)	SEC (µS/cm)	pH	ORP (mV)	Turbidity (NTU)	Salinity	Color	Odor
15:20:39	5.95	0.25	0.034	2.83	26.60	1,114.0	7.11	-135.0	23.00		clear	none
15:31:49	5.98	0.50	-0.048	2.46	26.50	1,140.0	7.11	-133.0	12.00		clear	none
15:39:37	6.00	0.75	0.032	1.59	26.50	1,133.0	7.11	-131.0	18.00		clear	none

Sampling Data

Sample Information

Sample Date: 2/20/2007
Sample Start Time: 15:39:22
Sample End Time: 15:41:52
Field Filtered: ☐
Duplicate: ☐

Final Purge Readings

DO (mg/L): 0.00
Temp (°C): 26.60
SEC (uS/cm): <<<
pH: 7.13
ORP (mV): -129
Turb (NTU): 8.00
Salinity:

Hach Field Data (mg/L)

DO:
CO2:
Alkalinity:
Ferrous Iron:
H2S:
Manganese:
Sulfate:
Sulfide:
Nitrate:

CHEMetrics Field Data (mg/L)

DO High Range:
DO High Range:

CO2 High Range:
CO2 Low Range:

Alkalinity High Range:
Alkalinity Low Range:

Lab Analyses/Methods:

Voc

Technician Initials

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Environmental Consulting

Project Information

Project No: 02-21003	Project Name: Corpus Christi	
Technician 1: Dewey Dodson	Technician 2: David Dodson	Weather: Sunshine
Sampling ID: 02-21003:MCC-15:2/21/07		
Notes:		

Well Information

Well ID: **MCC-15**	Sampling Date: **2/21/2007**	
Well Diam (in): 4.0	Total Well Depth (ft): 15.60	Well Screen Interval (ft): 5.6-15.6
TOC Elevation (ft amsl): 20.34	Northing: 17139099.28	Easting: 1380534.12
Static Depth to Water (ft): 6.25	Well Capacity (gal): 6.10	

Purge Setup

Purge Method: Peristaltic	Tubing Material: Teflon		Pump Set at (ft): 9.00
pH Meter: Horiba U-22	Cond. Meter: Horiba U-22	DO Meter: Horiba U-22	Turb. Meter: Horiba U-22
Purge Start: 10:49:29	Purge End: 11:06:36	Total Volume Purged (gal): 1.00	

Purging Data

Time	Water Level (ft)	Vol Purged (gal)	Pump Rate (gal/min)	DO (mg/L)	Temp (°C)	SEC (µS/cm)	pH	ORP (mV)	Turbidity (NTU)	Salinity	Color	Odor
10:49:45	6.32	0.25	0.937	1.20	22.80	139.0	7.28	-107.0	49.00		clear	none
10:57:04	6.30	0.50	0.065	1.15	23.00	136.0	7.26	-109.0	44.00		clear	none
11:02:36	6.31	0.75	0.045	1.07	23.00	139.0	7.29	-111.0	46.00		clear	none

Sampling Data

Sample Information

Sample Date: 2/21/2007
Sample Start Time: 11:06:36
Sample End Time: 11:10:54
Field Filtered: ☐
Duplicate: ☐

Final Purge Readings

DO (mg/L): 1.15
Temp (°C): 23.00
SEC (uS/cm): 139
pH: 7.29
ORP (mV): -111
Turb (NTU): 35.0
Salinity:

Hach Field Data (mg/L)

DO:
CO2:
Alkalinity:
Ferrous Iron:
H2S:
Manganese:
Sulfate:
Sulfide:
Nitrate:

CHEMetrics Field Data (mg/L)

DO High Range:
DO High Range:

CO2 High Range:
CO2 Low Range:

Alkalinity High Range:
Alkalinity Low Range:

Lab Analyses/Methods:

Voc

Technician Initials

GROUNDWATER PURGING & SAMPLING LOG

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Environmental Consulting

Project Information

Project No: 02-21003	Project Name: Corpus Christi	
Technician 1: Dewey Dodson	Technician 2: DavidDodson	Weather: Clear
Sampling ID: 02-21003:MCC-4:2/20/07		
Notes:		

Well Information

Well ID: **MCC-4**	Sampling Date: **2/20/2007**	
Well Diam (in): 4.0	Total Well Depth (ft): 12.19	Well Screen Interval (ft): 2.19-12.19
TOC Elevation (ft amsl): 20.66	Northing: 17139962.51	Easting: 1380708.03
Static Depth to Water (ft): 4.72	Well Capacity (gal): 4.87	

Purge Setup

Purge Method: Peristaltic	Tubing Material: Teflon		Pump Set at (ft): 7.00
pH Meter: Horiba U-22	Cond. Meter: Horiba U-22	DO Meter: Horiba U-22	Turb. Meter: Horiba U-22
Purge Start: 14:44:11	Purge End: 15:09:49	Total Volume Purged (gal): 0.75	

Purging Data

Time	Water Level (ft)	Vol Purged (gal)	Pump Rate (gal/min)	DO (mg/L)	Temp (°C)	SEC (µS/cm)	pH	ORP (mV)	Turbidity (NTU)	Salinity	Color	Odor
14:53:17	4.84	0.25	0.027	1.24	24.30	812.0	7.55	-148.0	184.00		turbid	none
15:01:15	4.84	0.50	0.031	1.11	24.30	801.0	7.62	-130.0	180.00		milky	none
15:09:42	4.89	0.75	0.029	1.07	24.30	791.0	7.67	-135.0	178.00		clear	none

Sampling Data

Sample Information

Sample Date: 2/20/2007
Sample Start Time: 15:09:49
Sample End Time: 15:12:09
Field Filtered: ☐
Duplicate: ☐

Final Purge Readings

DO (mg/L): 1.14
Temp (°C): 24.40
SEC (uS/cm): 708
pH: 7.68
ORP (mV): -132
Turb (NTU): 14.0
Salinity:

Hach Field Data (mg/L)

DO:
CO2:
Alkalinity:
Ferrous Iron:
H2S:
Manganese:
Sulfate:
Sulfide:
Nitrate:

CHEMetrics Field Data (mg/L)

DO High Range:
DO High Range:

CO2 High Range:
CO2 Low Range:

Alkalinity High Range:
Alkalinity Low Range:

Lab Analyses/Methods:

Voc

Technician Initials

GROUNDWATER PURGING & SAMPLING LOG

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Project Information

Project No: 02-21003	Project Name: Corpus Christi	
Technician 1: Dewey Dodson	Technician 2: David Dodson	Weather: Clear
Sampling ID: 02-21003:MCC-5:2/20/07		
Notes: Duplicate taken		

Well Information

Well ID: **MCC-5**	Sampling Date: **2/20/2007**	
Well Diam (in): 4.0	Total Well Depth (ft): 12.53	Well Screen Interval (ft): 2.53-12.53
TOC Elevation (ft amsl): 21.01	Northing: 17139951.96	Easting: 1380646.93
Static Depth to Water (ft): 4.91	Well Capacity (gal): 4.97	

Purge Setup

Purge Method: Peristaltic	Tubing Material: Teflon		Pump Set at (ft): 7.00
pH Meter: Horiba U-22	Cond. Meter: Horiba U-22	DO Meter: Horiba U-22	Turb. Meter: Horiba U-22
Purge Start: 15:52:04	Purge End: 16:23:55	Total Volume Purged (gal): 0.75	

Purging Data

Time	Water Level (ft)	Vol Purged (gal)	Pump Rate (gal/min)	DO (mg/L)	Temp (°C)	SEC (µS/cm)	pH	ORP (mV)	Turbidity (NTU)	Salinity	Color	Odor
16:02:18	5.08	0.25	0.024	1.34	25.00	958.0	6.90	-101.0	610.00		turbid	none
16:10:44	5.01	0.50	0.029	1.12	24.90	956.0	6.78	-105.0	160.00		milky	none
16:22:20	5.00	0.75	0.021	1.26	25.00	947.0	6.84	-93.0	162.00		clear	none

Sampling Data

Sample Information

Sample Date: 2/20/2007
Sample Start Time: 16:23:55
Sample End Time: 16:25:15
Field Filtered: ☐
Duplicate: ☐

Final Purge Readings

DO (mg/L): 1.04
Temp (°C): 25.10
SEC (uS/cm): 946
pH: 6.20
ORP (mV): -98
Turb (NTU): 103
Salinity:

Hach Field Data (mg/L)

DO:
CO2:
Alkalinity:
Ferrous Iron:
H2S:
Manganese:
Sulfate:
Sulfide:
Nitrate:

CHEMetrics Field Data (mg/L)

DO High Range:
DO High Range:

CO2 High Range:
CO2 Low Range:

Alkalinity High Range:
Alkalinity Low Range:

Lab Analyses/Methods:

Voc

Technician Initials

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Project Information

Project No: 02-21003	Project Name: Corpus Christi	
Technician 1: Dewey Dodson	Technician 2: David Dodson	Weather: Clear
Sampling ID: 02-21003:R-1:2/20/07		
Notes:		

Well Information

Well ID: **R-1**	Sampling Date: **2/20/2007**	
Well Diam (in): 2.0	Total Well Depth (ft): 11.50	Well Screen Interval (ft): 1.5-11.5
TOC Elevation (ft amsl): 16.17	Northing: 17141097.8	Easting: 1380096.63
Static Depth to Water (ft): 2.91	Well Capacity (gal): 1.40	

Purge Setup

Purge Method: Peristaltic	Tubing Material: Teflon		Pump Set at (ft): 8.00
pH Meter: Horiba U-22	Cond. Meter: Horiba U-22	DO Meter: Horiba U-22	Turb. Meter: Horiba U-22
Purge Start: 12:16:37	Purge End: 12:43:50	Total Volume Purged (gal): 0.75	

Purging Data

Time	Water Level (ft)	Vol Purged (gal)	Pump Rate (gal/min)	DO (mg/L)	Temp (°C)	SEC (µS/cm)	pH	ORP (mV)	Turbidity (NTU)	Salinity	Color	Odor
12:23:54	3.51	0.25	0.034	8.09	23.70	3,165.0	8.08	210.0	191.00		clear	none
12:30:16	3.51	0.50	0.039	8.01	23.00	3,175.0	8.02	209.0	182.50		clear	none
12:42:33	3.55	0.75	0.020	8.00	22.80	3,164.0	8.12	208.0	171.40		clear	none

Sampling Data

Sample Information

Sample Date: 2/20/2007
Sample Start Time: 12:43:50
Sample End Time: 12:46:33
Field Filtered: ☐
Duplicate: ☐

Final Purge Readings

DO (mg/L): 8.00
Temp (°C): 22.80
SEC (uS/cm): 3133
pH: 8.02
ORP (mV): 207
Turb (NTU): 171
Salinity:

Hach Field Data (mg/L)

DO:
CO2:
Alkalinity:
Ferrous Iron:
H2S:
Manganese:
Sulfate:
Sulfide:
Nitrate:

CHEMetrics Field Data (mg/L)

DO High Range:
DO High Range:

CO2 High Range:
CO2 Low Range:

Alkalinity High Range:
Alkalinity Low Range:

Lab Analyses/Methods:

Voc

Technician Initials

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Project Information

Project No: 02-21003	Project Name: Corpus Christi	
Technician 1: Dewey Dodson	Technician 2: David Dodson	Weather: Clouds
Sampling ID: 02-21003:R-13:2/22/07		
Notes:		

Well Information

Well ID: **R-13**	Sampling Date: **2/22/2007**	
Well Diam (in): 2.0	Total Well Depth (ft): 25.00	Well Screen Interval (ft): 15-25
TOC Elevation (ft amsl): 10.63	Northing: 17145478.57	Easting: 1380989.785
Static Depth to Water (ft): 8.00	Well Capacity (gal): 2.77	

Purge Setup

Purge Method: Peristaltic	Tubing Material: Teflon		Pump Set at (ft): 12.00
pH Meter: Horiba U-22	Cond. Meter: Horiba U-22	DO Meter: Horiba U-22	Turb. Meter: Horiba U-22
Purge Start: 18:29:18	Purge End: 18:42:23	Total Volume Purged (gal): 0.75	

Purging Data

Time	Water Level (ft)	Vol Purged (gal)	Pump Rate (gal/min)	DO (mg/L)	Temp (°C)	SEC (µS/cm)	pH	ORP (mV)	Turbidity (NTU)	Salinity	Color	Odor
18:34:37	8.71	0.25	0.047	1.87	24.80	249.0	7.47	1.0	11.00		clear	none
18:37:15	8.80	0.50	0.094	1.59	25.50	243.0	7.58	13.0	3.00		clear	none
18:41:13	8.93	0.75	0.063	1.31	25.60	239.0	7.59	18.0	3.00		clear	none

Sampling Data

Sample Information

Sample Date: 2/22/2007
Sample Start Time: 18:42:23
Sample End Time: 18:43:25
Field Filtered: ☐
Duplicate: ☐

Final Purge Readings

DO (mg/L): 1.78
Temp (°C): 25.10
SEC (uS/cm): 240
pH: 7.63
ORP (mV): 23
Turb (NTU): 2.00
Salinity:

Hach Field Data (mg/L)

DO:
CO2:
Alkalinity:
Ferrous Iron:
H2S:
Manganese:
Sulfate:
Sulfide:
Nitrate:

CHEMetrics Field Data (mg/L)

DO High Range:
DO High Range:

CO2 High Range:
CO2 Low Range:

Alkalinity High Range:
Alkalinity Low Range:

Lab Analyses/Methods:

Voc

Technician Initials

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Project Information

Project No: 02-21003	Project Name: Corpus Christi	
Technician 1: Dewey Dodson	Technician 2: David Dodson	Weather: Sunshine
Sampling ID: 02-21003:R-3:2/21/07		
Notes:		

Well Information

Well ID: **R-3**	Sampling Date: **2/21/2007**	
Well Diam (in): 2.0	Total Well Depth (ft): 12.08	Well Screen Interval (ft): 2.08-12.08
TOC Elevation (ft amsl): 14.62	Northing: 17139710.62	Easting: 1379244.83
Static Depth to Water (ft): 3.54	Well Capacity (gal): 1.39	

Purge Setup

Purge Method: Peristaltic	Tubing Material: Teflon		Pump Set at (ft): 8.00
pH Meter: Horiba U-22	Cond. Meter: Horiba U-22	DO Meter: Horiba U-22	Turb. Meter: Horiba U-22
Purge Start: 15:08:38	Purge End: 15:29:27	Total Volume Purged (gal): 0.75	

Purging Data

Time	Water Level (ft)	Vol Purged (gal)	Pump Rate (gal/min)	DO (mg/L)	Temp (°C)	SEC (µS/cm)	pH	ORP (mV)	Turbidity (NTU)	Salinity	Color	Odor
15:15:29	3.62	0.25	0.036	5.33	21.50	174.0	6.72	-46.0	180.00		clear	none
15:20:11	3.61	0.50	0.043	5.31	21.50	182.0	6.80	-59.0	179.00		clear	none
15:25:10	3.62	0.75	0.050	5.01	21.50	185.0	6.85	-70.0	175.00		clear	none

Sampling Data

Sample Information

Sample Date: 2/21/2007
Sample Start Time: 15:29:27
Sample End Time: 15:32:50
Field Filtered: ☐
Duplicate: ☐

Final Purge Readings

DO (mg/L): 2.98
Temp (°C): 21.80
SEC (uS/cm): 188
pH: 6.87
ORP (mV): -72
Turb (NTU): 44.0
Salinity:

Hach Field Data (mg/L)

DO:
CO2:
Alkalinity:
Ferrous Iron:
H2S:
Manganese:
Sulfate:
Sulfide:
Nitrate:

CHEMetrics Field Data (mg/L)

DO High Range:
DO High Range:

CO2 High Range:
CO2 Low Range:

Alkalinity High Range:
Alkalinity Low Range:

Lab Analyses/Methods:

Voc

Technician Initials

GROUNDWATER PURGING & SAMPLING LOG

TERRAINE
Environmental Consulting

Project Information

Project No: 02-21003	Project Name: Corpus Christi	
Technician 1: Dewey Dodson	Technician 2: David Dodson	Weather: Sunshine
Sampling ID: 02-21003:R-4:2/21/07		
Notes:		

Well Information

Well ID: **R-4**	Sampling Date: **2/21/2007**	
Well Diam (in): 2.0	Total Well Depth (ft): 11.86	Well Screen Interval (ft): 1.86-11.86
TOC Elevation (ft amsl): 16.88	Northing: 17139358.83	Easting: 1379198.06
Static Depth to Water (ft): 4.81	Well Capacity (gal): 1.15	

Purge Setup

Purge Method: Peristaltic	Tubing Material: Teflon		Pump Set at (ft): 9.00
pH Meter: Horiba U-22	Cond. Meter: Horiba U-22	DO Meter: Horiba U-22	Turb. Meter: Horiba U-22
Purge Start: 14:37:20	Purge End: 14:54:48	Total Volume Purged (gal): 0.75	

Purging Data

Time	Water Level (ft)	Vol Purged (gal)	Pump Rate (gal/min)	DO (mg/L)	Temp (°C)	SEC (µS/cm)	pH	ORP (mV)	Turbidity (NTU)	Salinity	Color	Odor
14:41:00	4.92	0.25	0.068	3.01	22.10	130.0	6.48	-24.0	107.00		clear	none
14:47:31	5.03	0.50	0.049	3.01	22.00	140.0	6.43	-24.3	105.00		clear	none
14:54:42	5.09	0.75	0.034	2.99	22.20	137.0	6.44	-25.0	101.00		clear	none

Sampling Data

Sample Information

Sample Date: 2/21/2007
Sample Start Time: 14:54:48
Sample End Time: 14:58:21
Field Filtered: ☐
Duplicate: ☐

Final Purge Readings

DO (mg/L): 2.97
Temp (°C): 22.34
SEC (uS/cm): 140
pH: 6.46
ORP (mV): -23
Turb (NTU): 97.0
Salinity:

Hach Field Data (mg/L)

DO:
CO2:
Alkalinity:
Ferrous Iron:
H2S:
Manganese:
Sulfate:
Sulfide:
Nitrate:

CHEMetrics Field Data (mg/L)

DO High Range:
DO High Range:

CO2 High Range:
CO2 Low Range:

Alkalinity High Range:
Alkalinity Low Range:

Lab Analyses/Methods:

Voc

Technician Initials

GROUNDWATER PURGING & SAMPLING LOG

TERRAINE
Environmental Consulting

Project Information

Project No: 02-21003	Project Name: Corpus Christi	
Technician 1: Dewey Dodson	Technician 2: Dewey Dodson	Weather: Sunshine
Sampling ID: 02-21003:R-5:2/21/07		
Notes:		

Well Information

Well ID: **R-5**	Sampling Date: **2/21/2007**	
Well Diam (in): 2.0	Total Well Depth (ft): 11.50	Well Screen Interval (ft): 1.5-11.5
TOC Elevation (ft amsl): 16.09	Northing: 17139010.27	Easting: 1379845.84
Static Depth to Water (ft): 4.62	Well Capacity (gal): 1.12	

Purge Setup

Purge Method: Peristaltic	Tubing Material: Teflon		Pump Set at (ft): 8.00
pH Meter: Horiba U-22	Cond. Meter: Horiba U-22	DO Meter: Horiba U-22	Turb. Meter: Horiba U-22
Purge Start: 11:48:49	Purge End: 12:10:13	Total Volume Purged (gal): 1.00	

Purging Data

Time	Water Level (ft)	Vol Purged (gal)	Pump Rate (gal/min)	DO (mg/L)	Temp (°C)	SEC (µS/cm)	pH	ORP (mV)	Turbidity (NTU)	Salinity	Color	Odor
11:53:24	4.71	0.50	0.109	2.83	23.10	128.0	7.06	-78.0	60.00		clear	none
11:54:33	4.67	0.25	-0.217	2.93	23.15	129.0	7.13	-80.0	58.00		clear	none
12:06:55	4.72	0.75	0.040	2.89	23.00	127.0	7.08	-78.0	55.00		clear	none

Sampling Data

Sample Information

Sample Date: 2/21/2007
Sample Start Time: 12:10:13
Sample End Time: 12:13:36
Field Filtered: ☐
Duplicate: ☐

Final Purge Readings

DO (mg/L): 2.10
Temp (°C): 23.20
SEC (uS/cm): 125
pH: 7.07
ORP (mV): -78
Turb (NTU): 49.0
Salinity:

Hach Field Data (mg/L)

DO:
CO2:
Alkalinity:
Ferrous Iron:
H2S:
Manganese:
Sulfate:
Sulfide:
Nitrate:

CHEMetrics Field Data (mg/L)

DO High Range:
DO High Range:

CO2 High Range:
CO2 Low Range:

Alkalinity High Range:
Alkalinity Low Range:

Lab Analyses/Methods:

Voc

Technician Initials

GROUNDWATER PURGING & SAMPLING LOG

TERRAINE
Environmental Consulting

Project Information

Project No: 02-21003	Project Name: Corpus Christi	
Technician 1: Dewey Dodson	Technician 2: David Dodson	Weather: Sunny
Sampling ID: 02-21003:R-6:2/21/07		
Notes:		

Well Information

Well ID: **R-6**	Sampling Date: **2/21/2007**	
Well Diam (in): 2.0	Total Well Depth (ft): 11.50	Well Screen Interval (ft): 1.5-11.5
TOC Elevation (ft amsl): 16.31	Northing: 17138826.85	Easting: 1380186.27
Static Depth to Water (ft): 5.05	Well Capacity (gal): 1.05	

Purge Setup

Purge Method: Peristaltic	Tubing Material: Teflon		Pump Set at (ft): 10.00
pH Meter: Horiba U-22	Cond. Meter: Horiba U-22	DO Meter: Horiba U-22	Turb. Meter: Horiba U-22
Purge Start: 11:17:25	Purge End: 11:35:33	Total Volume Purged (gal): 1.00	

Purging Data

Time	Water Level (ft)	Vol Purged (gal)	Pump Rate (gal/min)	DO (mg/L)	Temp (°C)	SEC (µS/cm)	pH	ORP (mV)	Turbidity (NTU)	Salinity	Color	Odor
11:20:14	5.21	0.25	0.088	1.46	23.40	129.0	7.71	-30.0	15.00		clear	none
11:23:37	5.21	0.50	0.073	1.04	23.30	129.0	7.65	-12.0	32.00		clear	none
11:30:30	5.26	0.75	0.036	0.98	23.30	133.0	7.60	-27.0	20.00		clear	none

Sampling Data

Sample Information

Sample Date: 2/21/2007
Sample Start Time: 11:35:33
Sample End Time: 11:38:58
Field Filtered: ☐
Duplicate: ☐

Final Purge Readings

DO (mg/L): 1.14
Temp (°C): 23.40
SEC (uS/cm): 134
pH: 7.60
ORP (mV): -24
Turb (NTU): 18.0
Salinity:

Hach Field Data (mg/L)

DO:
CO2:
Alkalinity:
Ferrous Iron:
H2S:
Manganese:
Sulfate:
Sulfide:
Nitrate:

CHEMetrics Field Data (mg/L)

DO High Range:
DO High Range:

CO2 High Range:
CO2 Low Range:

Alkalinity High Range:
Alkalinity Low Range:

Lab Analyses/Methods:

Voc

Technician Initials

GROUNDWATER PURGING & SAMPLING LOG

TERRAINE
Environmental Consulting

Project Information

Project No: 02-21003	Project Name: Corpus Christi	
Technician 1: Dewey Dodson	Technician 2: David Dodson	Weather: Clouds
Sampling ID: 02-21003:R-7:2/22/07		
Notes:		

Well Information

Well ID: **R-7**	Sampling Date: **2/22/2007**	
Well Diam (in): 2.0	Total Well Depth (ft): 12.05	Well Screen Interval (ft): 2.05-12.05
TOC Elevation (ft amsl): 14.57	Northing: 17140737.9	Easting: 1381262.03
Static Depth to Water (ft): 1.25	Well Capacity (gal): 1.76	

Purge Setup

Purge Method: Peristaltic	Tubing Material: Teflon		Pump Set at (ft): 5.00
pH Meter: Horiba U-22	Cond. Meter: Horiba U-22	DO Meter: Horiba U-22	Turb. Meter: Horiba U-22
Purge Start: 15:42:38	Purge End: 15:55:32	Total Volume Purged (gal): 0.75	

Purging Data

Time	Water Level (ft)	Vol Purged (gal)	Pump Rate (gal/min)	DO (mg/L)	Temp (°C)	SEC (µS/cm)	pH	ORP (mV)	Turbidity (NTU)	Salinity	Color	Odor
15:44:42	1.36	0.25	0.120	1.44	20.60	183.0	7.21	-44.0	900.00		clear	none
15:49:26	1.35	0.50	0.052	1.11	20.80	182.0	7.30	-10.0	94.00		clear	none
15:53:58	1.37	0.75	0.055	1.27	20.80	183.0	7.30	-22.0	89.00		clear	none

Sampling Data

Sample Information

Sample Date: 2/22/2007
Sample Start Time: 15:55:32
Sample End Time: 15:57:00
Field Filtered: ☐
Duplicate: ☐

Final Purge Readings

DO (mg/L): 1.39
Temp (°C): 20.00
SEC (uS/cm): 182
pH: 7.29
ORP (mV): -28
Turb (NTU): 79.0
Salinity:

Hach Field Data (mg/L)

DO:
CO2:
Alkalinity:
Ferrous Iron:
H2S:
Manganese:
Sulfate:
Sulfide:
Nitrate:

CHEMetrics Field Data (mg/L)

DO High Range:
DO High Range:

CO2 High Range:
CO2 Low Range:

Alkalinity High Range:
Alkalinity Low Range:

Lab Analyses/Methods:

Voc

Technician Initials

GROUNDWATER PURGING & SAMPLING LOG

TERRAINE
Environmental Consulting

Project Information

Project No: 02-21003	Project Name: Corpus Christi	
Technician 1: Dewey Dodson	Technician 2: David Dodson	Weather: Clouds
Sampling ID: 02-21003:R-8:2/22/07		
Notes:		

Well Information

Well ID: **R-8**	Sampling Date: **2/22/2007**	
Well Diam (in): 2.0	Total Well Depth (ft): 11.60	Well Screen Interval (ft): 1.6-11.6
TOC Elevation (ft amsl): 14.90	Northing: 17140692.8	Easting: 1381329.37
Static Depth to Water (ft): 1.67	Well Capacity (gal): 1.62	

Purge Setup

Purge Method: Peristaltic	Tubing Material: Teflon		Pump Set at (ft): 6.00
pH Meter: Horiba U-22	Cond. Meter: Horiba U-22	DO Meter: Horiba U-22	Turb. Meter: Horiba U-22
Purge Start: 16:02:23	Purge End: 16:13:56	Total Volume Purged (gal): 0.75	

Purging Data

Time	Water Level (ft)	Vol Purged (gal)	Pump Rate (gal/min)	DO (mg/L)	Temp (°C)	SEC (µS/cm)	pH	ORP (mV)	Turbidity (NTU)	Salinity	Color	Odor
16:05:13	1.72	0.25	0.088	2.65	20.20	310.0	6.85	1.0	120.00		clear	none
16:08:53	1.82	0.50	0.068	2.31	19.90	313.0	6.73	-21.0	117.00		clear	none
16:12:33	1.85	0.75	0.068	2.31	19.90	315.0	6.70	-31.0	110.00		clear	none

Sampling Data

Sample Information

Sample Date: 2/22/2007
Sample Start Time: 16:13:56
Sample End Time: 16:15:14
Field Filtered: ☐
Duplicate: ☐

Final Purge Readings

DO (mg/L): 2.52
Temp (°C): 20.00
SEC (uS/cm): 316
pH: 6.71
ORP (mV): -29
Turb (NTU): 70.0
Salinity:

Hach Field Data (mg/L)

DO:
CO2:
Alkalinity:
Ferrous Iron:
H2S:
Manganese:
Sulfate:
Sulfide:
Nitrate:

CHEMetrics Field Data (mg/L)

DO High Range:
DO High Range:

CO2 High Range:
CO2 Low Range:

Alkalinity High Range:
Alkalinity Low Range:

Lab Analyses/Methods:

Voc

Technician Initials

GROUNDWATER PURGING & SAMPLING LOG

TERRAINE Environmental Consulting

Project Information

Project No: 02-21003	Project Name: Corpus Christi	
Technician 1: Dewey Dodson	Technician 2: David Dodson	Weather: Clear
Sampling ID: 02-21003:R-9:2/20/07		
Notes:		

Well Information

Well ID: **R-9**	Sampling Date: **2/20/2007**	
Well Diam (in): 2.0	Total Well Depth (ft): 11.75	Well Screen Interval (ft): 1.75-11.75
TOC Elevation (ft amsl): 14.90	Northing: 17141001.32	Easting: 1379708.48
Static Depth to Water (ft): 1.55	Well Capacity (gal): 1.66	

Purge Setup

Purge Method: Peristaltic	Tubing Material: Teflon		Pump Set at (ft): 6.00
pH Meter: Horiba U-22	Cond. Meter: Horiba U-22	DO Meter: Horiba U-22	Turb. Meter: Horiba U-22
Purge Start: 14:04:13	Purge End: 14:21:34	Total Volume Purged (gal): 0.75	

Purging Data

Time	Water Level (ft)	Vol Purged (gal)	Pump Rate (gal/min)	DO (mg/L)	Temp (°C)	SEC (µS/cm)	pH	ORP (mV)	Turbidity (NTU)	Salinity	Color	Odor
14:09:24	1.75	0.25	0.048	2.92	21.50	3,676.0	6.85	-221.0	440.00		clear	none
14:14:03	1.60	0.50	0.037	2.14	20.50	3,651.0	6.69	-214.0	165.00		clear	none
14:20:44	1.75	0.75	0.037	2.12	20.40	3,610.0	6.55	-209.0	55.00		clear	none
14:20:44	1.75	0.75	0.037	2.12	20.40	3,610.0	6.55	-209.0	55.00		clear	none

Sampling Data

Sample Information

Sample Date: 2/20/2007
Sample Start Time: 14:21:34
Sample End Time: 14:23:12
Field Filtered: ☐
Duplicate: ☐

Final Purge Readings

DO (mg/L): 2.12
Temp (°C): 20.30
SEC (uS/cm): 3710
pH: 6.92
ORP (mV): -206
Turb (NTU): 51.0
Salinity:

Hach Field Data (mg/L)

DO:
CO2:
Alkalinity:
Ferrous Iron:
H2S:
Manganese:
Sulfate:
Sulfide:
Nitrate:

CHEMetrics Field Data (mg/L)

DO High Range:
DO High Range:

CO2 High Range:
CO2 Low Range:

Alkalinity High Range:
Alkalinity Low Range:

Lab Analyses/Methods:

Voc

Technician Initials

GROUNDWATER PURGING & SAMPLING LOG

TERRAINE Environmental Consulting

Project Information

Project No: 02-21003	Project Name: Corpus Christi	
Technician 1: Dewey Dodson	Technician 2: David Dodson	Weather: Sunny
Sampling ID: 02-21003:REI-26:2/21/07		
Notes:		

Well Information

Well ID: **REI-26**	Sampling Date: **2/21/2007**	
Well Diam (in): 4.0	Total Well Depth (ft): 19.12	Well Screen Interval (ft): 4.12-19.12
TOC Elevation (ft amsl): 17.57	Northing: 17140612.63	Easting: 1379739.65
Static Depth to Water (ft): 3.00	Well Capacity (gal): 10.52	

Purge Setup

Purge Method: Peristaltic	Tubing Material: Teflon		Pump Set at (ft): 9.00
pH Meter: Horiba U-22	Cond. Meter: Horiba U-22	DO Meter: Horiba U-22	Turb. Meter: Horiba U-22
Purge Start: 16:15:13	Purge End: 16:41:24	Total Volume Purged (gal): 1.00	

Purging Data

Time	Water Level (ft)	Vol Purged (gal)	Pump Rate (gal/min)	DO (mg/L)	Temp (°C)	SEC (µS/cm)	pH	ORP (mV)	Turbidity (NTU)	Salinity	Color	Odor
16:25:54	3.02	0.25	0.023	1.35	23.50	750.0	7.80	-120.0	670.00		black	none
16:29:09	3.06	0.50	0.076	1.15	23.35	760.0	7.77	-118.0	250.00		turbid	none
16:33:16	3.14	0.75	0.060	1.06	23.30	730.0	7.74	-116.0	235.00		turbid	none
16:37:30	3.19	1.00	0.059	1.04	23.50	720.0	7.68	-115.0	230.00		clear	none

Sampling Data

Sample Information

Sample Date: 2/21/2007
Sample Start Time: 16:41:24
Sample End Time: 16:44:18
Field Filtered: ☐
Duplicate: ☐

Final Purge Readings

DO (mg/L): 1.01
Temp (°C): 23.30
SEC (uS/cm): 756
pH: 7.68
ORP (mV): -115
Turb (NTU): 227
Salinity:

Hach Field Data (mg/L)

DO:
CO2:
Alkalinity:
Ferrous Iron:
H2S:
Manganese:
Sulfate:
Sulfide:
Nitrate:

CHEMetrics Field Data (mg/L)

DO High Range:
DO High Range:

CO2 High Range:
CO2 Low Range:

Alkalinity High Range:
Alkalinity Low Range:

Lab Analyses/Methods:

Voc

Technician Initials

GROUNDWATER PURGING & SAMPLING LOG

TERRAINE Environmental Consulting

Project Information

Project No: 02-21003	Project Name: Corpus Christi	
Technician 1: Dewey Dodson	Technician 2: David Dodson	Weather: Clear
Sampling ID: 02-21003:REI-27:2/20/07		
Notes: Final DO reading not obtained.		

Well Information

Well ID: **REI-27**	Sampling Date: **2/20/2007**	
Well Diam (in): 4.0	Total Well Depth (ft): 19.70	Well Screen Interval (ft): 4.7-19.7
TOC Elevation (ft amsl): 17.62	Northing: 17140808.22	Easting: 1379888.98
Static Depth to Water (ft): 3.10	Well Capacity (gal): 10.83	

Purge Setup

Purge Method: Peristaltic	Tubing Material: Teflon		Pump Set at (ft): 7.00
pH Meter: Horiba U-22	Cond. Meter: Horiba U-22	DO Meter: Horiba U-22	Turb. Meter: Horiba U-22
Purge Start: 09:38:52	Purge End: 10:09:10	Total Volume Purged (gal): 0.75	

Purging Data

Time	Water Level (ft)	Vol Purged (gal)	Pump Rate (gal/min)	DO (mg/L)	Temp (°C)	SEC (µS/cm)	pH	ORP (mV)	Turbidity (NTU)	Salinity	Color	Odor
09:51:48	3.21	0.25	0.019	6.40	25.70	2,581.0	6.56	-220.0	180.00		clear	none
09:57:53	3.25	0.50	0.041	6.20	25.80	2,571.0	6.45	-220.0	170.00		clear	none
10:08:48	3.31	0.75	0.022	6.30	25.80	2,548.0	6.39	-219.0	160.00		clear	none

Sampling Data

Sample Information

Sample Date: 2/20/2007
Sample Start Time: 10:09:10
Sample End Time: 10:12:02
Field Filtered: ☐
Duplicate: ☐

Final Purge Readings

DO (mg/L): 0.00
Temp (°C): 26.20
SEC (uS/cm): 2432
pH: 6.10
ORP (mV): -218
Turb (NTU): 120
Salinity:

Hach Field Data (mg/L)

DO:
CO2:
Alkalinity:
Ferrous Iron:
H2S:
Manganese:
Sulfate:
Sulfide:
Nitrate:

CHEMetrics Field Data (mg/L)

DO High Range:
DO High Range:

CO2 High Range:
CO2 Low Range:

Alkalinity High Range:
Alkalinity Low Range:

Lab Analyses/Methods:

Voc

Technician Initials

WELL PURGING AND SAMPLING LOG

PROJECT NAME:	NASCC	PUMP USED:	PERISTALTIC
PROJECT NUMBER:	02-21003	METER USED	Horiba 10 / Hach 2100
WELL ID:	R2	INITIAL FLOW RATE (L/min)	(mL)
SAMPLING TIME:	8:00	INITIAL DTW:	2.76

WELL PURGING DATA

Elapsed Time (min)	FLOW RATE (L/min)	Depth to water, ft (m)	PH	TEMP	DO	COND	TURB	ORP	OBSERVATIONS
0815	.25	3.11	6.92	21.61	.72	772	911.10	-221.2	Black organic
0830	.45	3.19	6.89	22.11	.69	755	795.10	-220.3	Black organic
0845	.70	3.26	6.75	22.12	.41	721	725.20	-219.4	Black organic
0900	1.10	3.28	6.74	22.16	.40	720	710.30	-219.2	Black organic
0915	1.35	3.29	6.74	22.17	.38	716	709.20	-211.7	Brown organic
0925	1.60	3.30	6.73	22.17	.37	715	708.30	-206.6	Brown organic

WELL SAMPLING DATA

DATE SAMPLE TAKEN: 6-22-07 TIME SAMPLE TAKEN: 0930 SAMPLER: Dewey Dodson

Elapsed Time (min)	FLOW RATE (L/min)	Depth to water, ft (m)	PH	TEMP	DO	COND	TURB	ORP	OBSERVATIONS
90	1.60	3.30	6.71	22.17	.37	714	708.20	-205.5	Brown organic

SAMPLE FILTERED:	N	FILTRATION METHOD: CAPSULE FILTER	PLATE FILTER PORE SIZE (um)
PRESERVATIVE USED:	Y	PRESERVATIVE TYPE: HCL	OTHER PRESERVATIVE (NAME):
DUPLICATE TAKEN:	N	BLANK TAKEN: N	TOTAL NUMBER OF BOTTLES/CONTAINERS: 3

SPECIAL COMMENTS

	LOGGED BY:	DATE WELL COMPLETED:
	REVIEWED BY:	DATE WELL DEVELOPED:
	TOTAL DEPTH:	PAGE OF

Appendix E

2007 Laboratory Certificates of Analysis