Application to Construct a Class V Aquifer Storage and Recovery Well System

Hillsboro Aquifer Storage and Recovery Well System, Palm Beach County, Florida

Hillsboro Aquifer Storage and Recovery Pilot Project

Prepared By:

South Florida Water Management District
3301 Gun Club Road
West Palm Beach, Florida 33406

In Association With:

U.S. Army Corps of Engineers
Jacksonville District
Jacksonville, Florida

April 2004

SOUTH FLORIDA WATER MANAGEMENT DISTRICT
3301 Gun Club Road, West Palm Beach, Florida 33406 • (561) 686-8800 • FL WATS 1-800-432-2045 • TDD (561) 697-2574
Mailing Address: P.O. Box 24680, West Palm Beach, FL 33416-4680 • www.sfwmd.gov

Proj 34.4.1.9

April 14, 2004

Mr. Greg Knecht
Environmental Administrator
Dept. of Water Resource Management
Mail Station 3560
Florida Department of Environmental Protection
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Subject: **Hillsboro ASR Pilot Project**
Application to Construct a Class V, Group 7 ASR System

Dear Mr. Knecht:

The South Florida Water Management District is pleased to submit this application to construct a Class V, Group 7 Aquifer Storage and Recovery (ASR) System for the Hillsboro ASR Pilot Project. Implementing this pilot project will be an important step in the Comprehensive Everglades Restoration Plan's ASR Program.

This correspondence presents information and responses to items requested in Chapter 62-528 of the Florida Administrative Code regarding underground injection control construction permit applications for ASR systems. Attached please find the referenced application and a check in the amount of $750 for the permit application fee. This document will be augmented by a Water Quality Criteria Exemption, which will be filed with the Department shortly. Please feel free to contact Rick Nevulis, the Project Manager at (561) 682-6242 or Paul Linton, the Project Engineer at (561) 682-2871 if you have any questions.

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

Sincerely,

Rick Nevulis, P.G.
Project Manager

Paul Linton, P.E.
Project Engineer

RN/cw

c: Ken Ammon, SFWMD
Jonathan Arthur, FGS/TLH
Michael Bennett, SFWMD
Bart Bibler, FDOH/TLH
Jose Calas, FDEP/WPB
Richard Deuerling, FDEP/TLH
Will Evans, FGS/TLH
Mike Fies, USACE/JAX
Heidi Vandor, FDEP/WPB
George Heuler, FDEP/TLH
Peter Kwiatkowski, SFWMD
Paul Linton, SFWMD
Nancy Marsh, USEPA/ATL
Joseph May, SFWMD
Ron Reese, USGS/MIA
Pauline Smith, USACE/JAX

South Florida Water Management District
P.O. Box 24682 * West Palm Beach, Fl. 33416-4682

CHECK NO. **0313664**

PAYMENT VOUCHER	VENDOR INVOICE NO.	VOUCHER DATE	DESCRIPTION	AMOUNT
V3=04000706	P134VIC001	03-09-04	CLASS V PERMIT CONST HILLSB	750.00
			TOTAL	750.00

SRC 011 (REV 12/98)

PLEASE DETACH AND RETAIN THIS STATEMENT BEFORE DEPOSITING THE CHECK

VERIFY THE AUTHENTICITY OF THIS MULTI-TONE SECURITY DOCUMENT. ■ CHECK BACKGROUND AREA CHANGES COLOR GRADUALLY FROM TOP TO BOTTOM.

South Florida Water Management District
P.O.Box 24682 * West Palm Beach, FL. 33416-4682
(561) 686-8800 * WATTS 1- 800-432-2045

63-202
670

CHECK NO. **0313664**

SouthTrust Bank
Cape Coral, FL

PAY ONLY SEVEN FIVE ZERO 00 CTS CTS

DATE: 03-12-04

VOID AFTER 180 DAYS

PAY ■ SEVEN HUNDRED FIFTY DOLLARS AND 00 CENTS **********

CHECK AMOUNT
********$750.00

TO THE ORDER OF
FL DEPT OF ENVIRON PROTECTION
400 N CONGRESS AVENUE
SE DISTRICT OFFICE
WEST PALM BEACH FL 33401

Nicholas J. Gutierrez Jr.
Stephen Smith

VOID OVER $750.00

⑈0313664⑈ ⑆067012028⑆ 64 052 631⑈

Table of Contents

Section 1

APPLICATION TO CONSTRUCT/OPERATE/ABANDON CLASS I, III, OR V INJECTION WELL SYSTEMS

Part I. Directions

A. All applicable items must be completed in full in order to avoid delay in processing this application. Where attached sheets or other technical documentation are utilized in lieu of the blank space provided, indicate appropriate cross-reference in the space and provide copies to the Department in accordance with C. below. Where certain items do not appear applicable to the project, indicate N/A in the appropriate spaces.

B. All information is to be typed or printed in ink.

C. Four (4) copies of this application and four (4) copies of supporting information such as plans, reports, drawings and other documents shall be submitted to the appropriate District/Subdistrict office. An engineering report is also required to be submitted to support this application pursuant to the applicable sections of Rule 62-528, F.A.C. The attached list* shall be used to determine completeness of supporting data submitted or previously received. A check for the application fee in accordance with Rule 62-4.050, F.A.C., made payable to the Department shall accompany the application.

D. For projects involving construction, this application is to be accompanied by four (4) sets of engineering drawings, specifications and design data as prepared by a Professional Engineer registered in Florida, where required by Chapter 471, Florida Statutes.

E. Attach 8 1/2″ x 11″ USGS site location map indicating township, range and section and latitude/longitude for the project.

PART II. General Information

A. Applicant Name Henry Dean Title Executive Director

Address 3301 Gun Club Road

City West Palm Beach State FL Zip 33406

Telephone Number 561-682-6136

B. Project Status: ☐ New ☒ Existing

☐ Modification (specify) _____

*"Engineering and Hydrogeologic Data Required for Support of Application to Construct, Operate and Abandon Class I, III, or V Injection Wells"

C. Well Type: ☐ Exploratory Well ☒ Test/Injection Well

D. Type of Permit Application

- ☐ Class I Test/Injection Well Construction and Testing Permit
- ☐ Class I Well Operation Permit
- ☐ Class I Well Operation Repermitting
- ☐ Class I Well Plugging and Abandonment Permit
- ☐ Class III Well Construction/Operation/Plugging and Abandonment Permit
- ☐ Class I Exploratory Well Construction and testing Permit
- ☒ Class V Well Construction Permit
- ☐ Class V Well Operation Permit
- ☐ Class V Well Plugging and Abandonment Permit
- ☐ Monitor Well Only

E. Facility Identification:

Name Site 1 (Hillsboro)

Facility Location: Street West end of Loxahatchee Road

City Boca Raton County Palm Beach

SIC Code(s) _____

F. Proposed facility located on Indian Lands: Yes ☐ No ☒

G. Well Identification:

Well 1 of 1 (total #) Wells

Purpose (Proposed Use) Aquifer Storage and Recovery Testing

Well Location: Latitude: 26° 21′ 07″ Longitude: 80° 17′ 42″
(attach separate sheet(s), if necessary, for multiple wells)

Subpart B. General Project Description:

H. General Project Description: Describe the nature, extent and schedule of the injection well project. Refer to existing and/or future pollution control facilities, expected improvement in performance of the facilities and state whether the project will result in full compliance with the requirements of Chapter 403, F.S., and all rules of the Department. Attach additional sheet(s) if necessary or cross-reference the engineering report.

This project consists of re-classifying an existing exploratory well into an ASR well, and construction of new water treatment, conveyance, and monitoring systems.

PART III. Statement by Applicant and Engineer

A. Applicant

I, the owner/authorized South Florida Water Management District, certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. I understand that this certification also applies to all subsequent reports submitted pursuant to this permit. Where construction is involved, I agree to retain the design engineer, or other professional engineer registered in Florida, to provide inspection of construction in accordance with Rule 62-528.455(1)(c), F.A.C.

Signed — Date: 4-14-04

Henry Dean, Executive Director — Name and Title (Please Type)

561-682-6136 — Telephone Number

*Attach a Letter of Authorization.

B. Professional Engineer Registered in Florida

This is to certify that the engineering features of this injection well have been designed/examined by me and found to be in conformity with modern engineering principles applicable to the disposal of pollutants characterized in the permit application. There is reasonable assurance, in my professional judgement, that the well, when properly maintained and operated, will discharge the effluent in compliance with all applicable statutes of the State of Florida and the rules of the Department. It is also agreed that the undersigned will furnish the applicant a set of instructions for proper maintenance and operation of the well.

Signed — 42637 — 4/7/04

Paul Ferguson Linton
Name (Please Type)

South Florida Water Management District
Company Name (Please Type)

(Please Affix Seal)

P.O. Box 24680, West Palm Beach, FL 33416-4680
Mailing Address (Please Type)

Florida Registration No. 42637 Date 4/7/04 Phone No. 561-682-2871

ENGINEERING AND HYDROLOGIC DATA
REQUIRED FOR SUPPORT OF APPLICATION
TO CONSTRUCT, OPERATE, AND ABANDON
CLASS I, III, OR V INJECTION WELL SYSTEMS

The following information shall be provided for each type of permit application.

A. CLASS I TEST/INJECTION WELL CONSTRUCTION AND TESTING PERMIT

1. A map showing the location of the proposed injection wells of well field area for which a permit is sought and the applicable area of review. Within the area of review, the map must show the number or name, and location of all producing wells, injection wells, abandoned wells, dry holes, surface bodies of water, springs, public water systems, mines (surface and subsurface), quarries, water wells and other pertinent surface features including residences and roads. The map should also show faults, if known or suspected. Only information of public record and pertinent information known to the applicant is required to be included on this map.

2. A tabulation of data on all wells within the area of review which penetrate into the proposed injection zone, confining zone, or proposed monitoring zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of plugging and/or completion, and any additional information the Department may require.

3. Maps and cross sections indicating the general vertical and lateral limits within the area of review of all underground sources of drinking water, their position relative to the injection formation and the direction of water movement, where known, in each underground source of drinking water which may be affected by the proposed injection.

4. Maps and cross sections detailing the hydrology and geologic structures of the local area.

5. Generalized maps and cross sections illustrating the regional geologic setting.

6. Proposed operating data.

   (a) Average and maximum daily rate and volume of the fluid to be injected;

   (b) Average and maximum injection pressure; and,

   (c) Source and an analysis of the chemical, physical, radiological and biological characteristics of injection fluids.

7. Proposed formation testing program to obtain an analysis of the chemical, physical and radiological characteristics of and other information on the injection zone.

8. Proposed stimulation program.

9. Proposed injection procedure.

10. Engineering drawings of the surface and subsurface construction details of the system.

11. Contingency plans to cope with all shut-ins or well failures, so as to protect the quality of the waters of the State as defined in Rule 62-3 and 62-520, F.A.C., including alternate or emergency discharge provisions.

12. Plans (including maps) and proposed monitoring data to be reported for meeting the monitoring requirements in Rule 62-528.425, F.A.C.

13. For wells within the area of review which penetrate the injection zone but are not properly completed or plugged, the corrective action proposed to be taken under Rule 62-528.300(5), F.A.C.

14. Construction procedures including a cementing and casing program, logging procedures, deviation checks, proposed methods for isolating drilling fluids from surficial aquifers, proposed blowout protection (if necessary), and a drilling, testing and coring program.

15. A certification that the applicant has ensured, through a performance bond or other appropriate means, the resources necessary to close, plug or abandon the well as required by Rule 62-528.435(9), F.A.C.

B. CLASS I INJECTION WELL OPERATION PERMIT

1. A report shall be submitted with each application for a Class I Well operating permit, which shall include, but not be limited to, the following information:

   (a) Results of the information obtained under the construction permit described in A. CLASS I TEST/INJECTION WELL CONSTRUCTION AND TESTING PERMIT, including:

      (1) All available logging and testing program data and construction data on the well or well field;

      (2) A satisfactory demonstration of mechanical integrity for all new wells pursuant to Rule 62-528.300(6), F.A.C;

      (3) The actual operating data, including injection pressures versus pumping rates where feasible, or the anticipated maximum pressure and flow rate at which the permittee will operate, if approved by the Department;

(4) The actual injection procedure;

(5) The compatibility of injected waste with fluids in the injection zone and minerals in both the injection zone and the confining zone; and,

(6) The status of corrective action on defective wells in the area of review.

(b) Record drawings, based upon inspections by the engineer or persons under his direct supervision, with all deviations noted;

(c) Certification of completion submitted by the engineer of record;

(d) If requested by the Department, operation manual including emergency procedures;

(e) Proposed monitoring program and data to be submitted;

(f) Proof that the existence of the well has been recorded on the surveyor's plan at the county courthouse; and,

(g) Proposed plugging and abandonment plan pursuant to Rule 62-528.435(2), F.A.C.

C. CLASS I WELL OPERATION REPERMITTING

1. An updated map showing the location of the injection wells or well field area for which a permit is sought and the applicable area of review. Within the area of review, the map must show the number or name, and location of all producing wells, injection wells, abandoned wells, dry holes, surface bodies of water, springs, public water systems, mines (surface and subsurface), quarries, water wells and other pertinent surface features including residences and roads. The map should also show faults, if known or suspected. Only information of pubic record and pertinent information known to the applicant is required to be included on this map.

2. A tabulation of data on all wells within the area of review which penetrate into the injection zone, confining zone, or monitoring zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of plugging and/or completion, and any additional information the Department may require.

3. Maps and cross sections indicating the general vertical and lateral limits within the area of review of all underground sources of drinking water, their position relative to the injection formation and the direction of water movement, where known, in each underground source of drinking water which may be affected by the injection.

4. Maps and cross sections detailing the hydrology and geologic structures of the local area.

5. Generalized maps and cross sections illustrating the regional geologic setting.

6. Contingency plans to cope with all shut-ins or well failures, so as to protect the quality of the waters of the State as defined in Rule 62-3 and 62-520, F.A.C., including alternate or emergency discharge provisions.

7. For wells within the area of review which penetrate the injection zone but are not properly completed or plugged, the corrective action proposed to be taken under Rule 62-528.300(5), F.A.C.

8. A certification that the applicant has ensured, through a performance bond or other appropriate means, the resources necessary to close, plug or abandon the well as required by Rule 62-528.435(9), F.A.C.

9. A report shall be submitted with each application for repermitting of Class I Well operation which shall include the following information:

   (a) All available logging and testing program data and construction data on the well or well field;

   (b) A satisfactory demonstration of mechanical integrity for all wells pursuant to Rule 62-528.300(6), F.A.C.;

   (c) The actual operating data, including injection pressures versus pumping rates where feasible, or the anticipated maximum pressure and flow rate at which the permittee will operate, if approved by the Department;

   (d) The actual injection procedure;

   (e) The compatibility of injected waste with fluids in the injection zone and minerals in both the injection zone and the confining zone;

   (f) The status of corrective actin on defective wells in the area of review;

   (g) Record drawings, based upon inspections by the engineer or persons under his direct supervision, with all deviations noted;

   (h) Certification of completion submitted by the engineer of record;

   (i) An updated operation manual including emergency procedures;

(j) Proposed revisions to the monitoring program or data to be submitted; and,

(k) Proposed plugging and abandonment plan pursuant to Rule 62-528.435(2), F.A.C.

D. CLASS I WELL PLUGGING AND ABANDONMENT PERMIT

1. The reasons for abandonment.

2. A proposed plan for plugging and abandonment describing the preferred and alternate methods, and justification for use.

   (a) The type and number of plugs to be used;

   (b) The placement of each plug including the elevation of the top and bottom;

   (c) The type and grade and quantity of cement or any other approved plugging material to be used; and,

   (d) The method for placement of the plugs.

3. The procedure to be used to meet the requirements of Rule 62-528.435, F.A.C.

E. CLASS III WELLS CONSTRUCTION/OPERATION/PLUGGING AND ABANDONMENT PERMIT

Construction Phase

1. A map showing the location of the proposed injection wells or well field area for which a permit is sought and the applicable area of review. Within the area of review, the map must show the number or name, and location of all producing wells, injection wells, abandoned wells, dry holes, surface bodies of water, springs, public water system, mines (surface and subsurface), quarries, water wells and other pertinent surface features including residences and roads. The map should also show faults, if known or suspected. Only information of public record and pertinent information known to the applicant is required to be included on this map.

2. A tabulation of data on all wells within the area of review which penetrate into the proposed injection zone, confining zone, or proposed monitoring zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of plugging and/or completion, and any additional information the Department may require.

3. Maps and cross sections indicating the general vertical and lateral limits within the area of review of all underground sources of drinking water, their position relative to the injection formation and the direction of water movement, where known, in each underground source of drinking water which may be affected by the proposed injection.

4. Maps and cross sections detailing the hydrology and geologic structures of the local area.

5. Generalized maps and cross sections illustrating the regional geologic setting.

6. Proposed operating data:

   (a) Average and maximum daily rate and volume of the fluid to be injected;

   (b) Average and maximum injection pressure; and,

   (c) Source and an analysis of the chemical, physical, radiological and biological characteristics of injection fluids, including any additives.

7. Proposed formation testing program to obtain an analysis of the chemical, physical and radiological characteristics of and other information on the injection zone.

8. Proposed stimulation program.

9. Proposed injection procedure.

10. Engineering drawings of the surface and subsurface construction details of the system.

11. Contingency plans to cope with all shut-ins or well failures or catastrophic collapse, so as to protect the quality of the waters of the State as defined in Rule 62-3 and 62-520, F.A.C., including alternate or emergency discharge provisions.

12. Plans (including maps) and proposed monitoring data to be reported for meeting the monitoring requirements in Rule 62-528.425, F.A.C.

13. For wells within the area of review which penetrate the injection zone but are not properly completed or plugged, the corrective action proposed to be taken under Rule 62-528.300(5), F.A.C.

14. Construction procedures including a cementing and casing program, logging procedures, deviation checks, proposed methods for isolating drilling fluids from surficial aquifers, and a drilling, testing and coring program.

15. A certificate that the applicant has ensured, through a performance bond or other appropriate means, the resources necessary to close, plug or abandon the well as required by Rule 62-528.435(9), F.A.C.

16. Expected changes in pressure, native fluid displacement, direction of movement of injection fluid.

17. A proposed monitoring plan, which includes a plan for detecting migration of fluids into underground sources of drinking water, a plan to detect water quality violation in the monitoring wells, and the proposed monitoring data to be submitted.

Operation Phase

1. The following information shall be provided to the Department prior to granting approval for the operation of the well or well field:

   (a) All available logging and testing program data and construction data on the well or well field;

   (b) A satisfactory demonstration of mechanical integrity for all new wells pursuant to Rule 62-528.300(6), F.A.C.;

   (c) The actual operating data, including injection pressure versus pumping rate where feasible, or the anticipated maximum pressure and flow rate at which the permittee will operate, if approved by the Department;

   (d) The results of the formation testing program;

   (e) The actual injection procedure; and,

   (f) The status of corrective action on defective wells in the area of review.

Plugging and abandonment Phase

1. The justification for abandonment.

2. A proposed plan for plugging and abandonment describing the preferred and alternate methods.

   (a) The type and number of plugs to be used;

   (b) The placement of each plug including the elevation of the top and bottom;

   (c) The type and grade and quantity of cement or any other approved plugging material to be used; and,

   (d) The method for placement of the plugs.

3. The procedure to be used to meet the requirements of Rule 62-528.435, F.A.C.

F. EXPLORATORY WELL CONSTRUCTION AND TESTING PERMIT

1. Conceptual plan of the injection project. Include number of injection wells, proposed injection zone, nature and volume of injection fluid, and proposed monitoring program.

2. Preliminary Area of Review Study. Include the proposed radius of the area of review with justification for that radius. Provide a map showing the location of the proposed injection well or well field area for which a permit is sought and the applicable area of review. Within the area of review, the map must show the number or name, and location of all producing wells, injection wells, abandoned wells, dry holes, surface bodies of water, springs, public water systems, mines (surface and subsurface), quarries, water wells and other pertinent surface features including residences and roads. The map should also show faults, if known or suspected. Only information of public record and pertinent information known to the applicant is required to be included on this map.

3. Proposed other uses of the exploratory well.

4. Drilling and testing plan for the exploratory well. The drilling plan must specify the proposed drilling program, sampling, coring, and testing procedures.

5. Abandonment Plan.

G. CLASS V WELL CONSTRUCTION PERMIT

(This form should be used for Class V Wells instead of Form 62-528.900(3), F.A.C., when there is a need for a Technical Advisory Committee and an engineering report.)

1. Type and number of proposed Class V Wells:

_____ Wells Receiving Domestic Waste

_____ Desalination Process Concentrate Wells (Reverse Osmosis, etc.)

1 Aquifer Storage and Recovery Wells

_____ Aquifer Remediation Wells

_____ Salt-water Intrusion Barrier Wells

_____ Cooling Water Return Flow Wells Open-looped System

_____ Subsidence Control Wells

_____ Sand Backfill Wells

_____ Experimental Technology Wells

_____ Wells used to inject spent brine after halogen recovery

_____ Radioactive Waste Disposal Wells*

_____ Borehole Slurry Mining Wells

_____ Other non-hazardous Industrial or Commercial Disposal Wells

(explain _____

_____ Other _____

*Provided the concentrations of the waste do not exceed drinking water standards contained in Chapter 62-550, F.A.C.

2. Project Description:

(a) Description and use of proposed injection system;

(b) Nature and volume of injected fluid (the Department may require an analysis including bacteriological analysis) in accordance with Rule 62-528.635(2)(b), F.A.C.; and,

(c) Proposed pretreatment.

3. Water well contractor's name, title, state license number, address, phone number and signature.

4. Well Design and Construction Details. (For multi-casing configurations or unusual construction provisions, an elevation drawing of the proposed well should be attached.)

   (a) Proposed total depth;

   (b) Proposed depth and type of casing(s);

   (c) Diameter of well;

   (d) Cement type, depth, thickness; and,

(e) Injection pumps (if applicable): _____ gpm @ _____ psi

Controls: _____

_____

_____

5. Water Supply Wells - When required by Rule 62-528.635(1), F.A.C., attach a map section showing the locations of all water supply wells within a one-half (1/2) mile radius of the proposed well. The well depths and casing depths should be included. When required by Rule 62-528.635(2), F.A.C., results of bacteriological examinations of water from all water supply wells within one-half (1/2) mile and drilled to approximate depth of proposed well should be attached.

6. Area of review (When required by Rule 62-528.300(4), F.A.C.)

   Include the proposed radius of the area of review with justification for that radius. Provide a map showing the location of the proposed injection well or well field area for which a permit is sought and the applicable area of review. Within the area of review, the map must show the number or name, and location of all producing wells, injection wells, abandoned wells, dry holes, surface bodies of water, springs, public water systems, mines (surface and subsurface), quarries, water wells and other pertinent surface features including residences and roads. The map should also show faults, if known or suspected. Only information of public record and pertinent information known to the applicant is required to be included on this map.

H. CLASS V WELL OPERATION PERMIT

(Final report of the construction that includes the following information may be submitted with the application to operate.)

1. Permit Number of Class V Construction _____

2. Owner's _____

3. Type of _____

4. Construction and Testing Summary:

(a) Actual Dimensions:

Diameter (inches)	Well Depth (feet)	Casing Depth (feet)

(b) Result of Initial Testing

5. Proposed Operating Data:

(a) Injection Rate (GPM);

(b) Description of injected waste; and,

(c) Injection pressure and pump controls.

6. Proposed Monitoring Plan (if any):

(a) Number of monitoring wells;

(b) Depth(s);

(c) Parameters;

(d) Frequency of sampling; and,

(e) Instrumentation (if applicable) _____

Pressur _____

I. CLASS V WELLS PLUGGING AND ABANDONMENT PERMIT

1. Permit number of Class V construction or operating permit.

2. Type of well.

3. Proposed plugging procedures, plans and specifications.

4. Reasons for abandonment.

J. MONITOR WELL PERMIT

This section should be used only when application is made for a monitor well only. If a monitor well is to be constructed under a Class I, III, or V injection well construction permit, it is necessary to fill in this section.

1. A site map showing the location of the proposed monitor wells for which a permit is sought. The map must be to scale and show the number or name, and location of all producing wells, injection wells, abandoned wells, dry holes, water wells and other pertinent surface features including structures and roads.

2. Maps and cross sections indicating the general vertical and lateral limits within the area of review of all underground sources of drinking water, their position relative to the injection formation and the direction of water movement, where known, in each underground source of drinking water which may be affected by the proposed injection.

3. Maps and cross sections detailing the hydrology and geologic structures of the local area.

4. Generalized maps and cross sections illustrating the regional geologic setting.

5. Proposed formation testing program to obtain an anlysis of the chemical, physical and radiological characteristics of and other information on the monitor zone(s).

6. Proposed monitoring procedure.

7. Engineering drawings of the surface and subsurface construction details of the monitoring system.

8. Proposed monitoring data to be reported for meeting the monitoring requirements in Rule 62-528.425, F.A.C.

9. Construction procedures including a cementing and casing program, logging procedures, deviation checks, proposed methods for isolating drilling fluids from surficial aquifers, proposed blowout protection (if necessary), and a drilling, testing and coring program

10. Monitor Well Information:

☐ On-site ☐ Multizone ☐ Single-zone

☐ Regional ☐ Other _____

Proposed Monitoring _____

Distance and Direction From Associated Injection _____

_____

Section 2
Supporting Information

INTRODUCTION

The South Florida Water Management District (SFWMD) - in association with the U.S. Army Corps of Engineers (USACE) - is pleased to present this application for a Class V Group 7 Underground Injection Control (UIC) Aquifer Storage and Recovery (ASR) System construction permit. The purpose of this application is to construct and test an ASR system associated with the Hillsboro ASR Pilot Project – a component of the Comprehensive Everglades Restoration Plan (CERP). Previously, an exploratory well permit was granted for the well (Permit Number 153872-001-UC) and it was constructed and tested under these requirements. The intent of this application is to permit this system as a functional ASR facility.

The site is located west of Boca Raton about six miles west of S.R. 7 (U.S. Hwy 441) on Loxahatchee Road.

- Southwest corner of Section 19, Township 47 South, Range 41 East
- Latitude/Longitude 26°21'07"N/80°17'42"W

A regional map with the project location is presented on **Figure 1**. The site is on SFWMD-owned land referred to as "Site 1", adjacent to Loxahatchee Road and the Hillsboro Canal. An aerial photograph showing the pilot project location is presented on **Figure 2**.

In addition to the required permit application form (FDEP Form No. 62-528.900[1]), supporting information follows the format of *Item (G), Class V Well Construction Permit* as presented on the form. Supplementary information on the local hydrogeology, a conceptual design report, a monitoring plan, and a plugging and abandonment plan is provided in this application.

PROJECT SCOPE

This project consists of re-permitting the existing 24-inch diameter exploratory well into a Class V, Group 7 ASR well and to provide the application for construction of new surface water treatment, conveyance and monitoring systems at the site. A map showing the locations of the existing exploratory well and monitor wells is presented in **Figure 3**. For reference, a copy of the existing UIC exploratory well construction permit is contained in **Appendix A**.

The ASR system will be designed to provide a capacity to recharge and recover approximately 5 million gallons of water per day (mgd) from the Floridan Aquifer System (FAS). The ASR system will withdraw surface water from the Hillsboro Canal through construction of a proposed new inlet and outlet structure, pumps and piping. The raw surface water will be treated to meet primary drinking water standards via filtration with ultraviolet (UV) disinfection prior to recharge into the ASR well. A Water Quality Criteria Exemption will be filed with the Department to seek regulatory relief from any secondary water quality standards that may not be met by the proposed treatment system. During recovery, the water

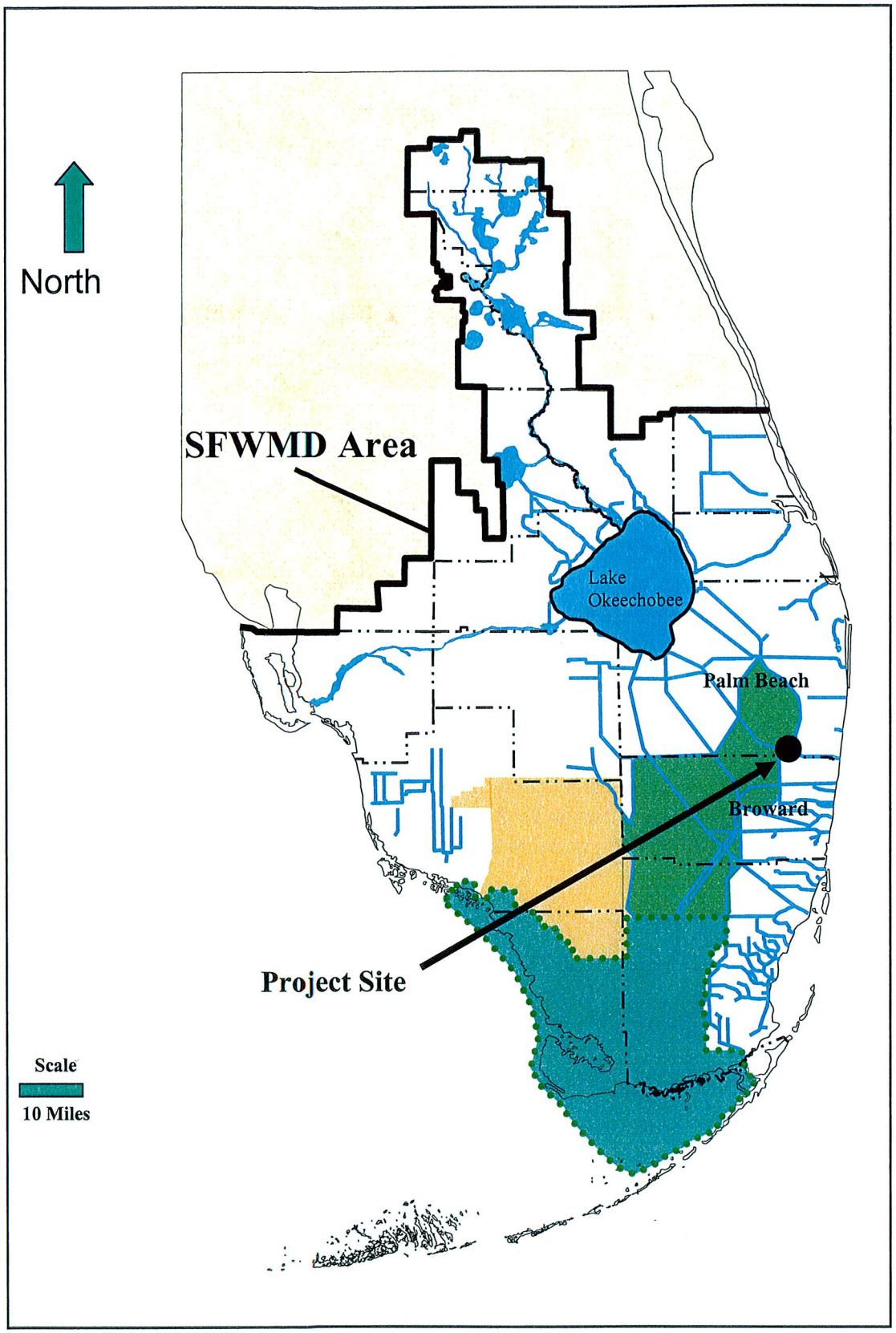


Figure 1. Project Location Map

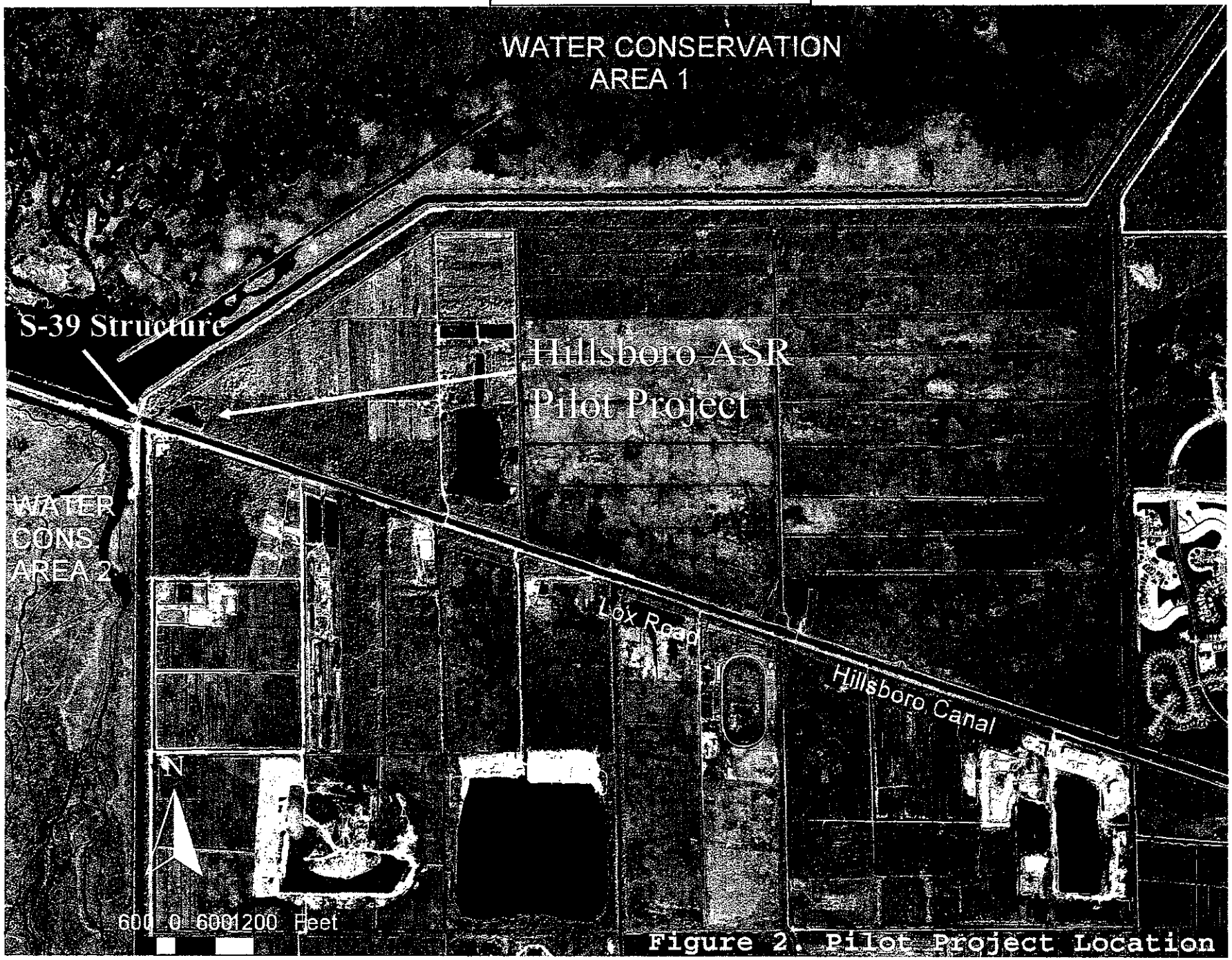


Figure 2. Pilot Project Location

Figure 3. Current Site Map

will be treated via aeration prior to discharge back into the Hillsboro Canal. A conceptual layout of the proposed ASR system is shown in **Figure 4**. An updated design layout of the proposed system is currently being prepared, and will be submitted to the FDEP as soon as it is available.

SITE HYDROGEOLOGY

The existing exploratory well was completed into permeable zones available within the upper FAS from 1,015 to 1,225 feet below land surface (bls). These zones have primarily been correlated with formations of the upper FAS; namely, the Ocala Limestone, and the Avon Park Formation. Test results from the existing onsite exploratory ASR well indicates that brackish, permeable zones are present within the upper portions of the FAS, with water quality containing chloride and total dissolved solids (TDS) concentrations of approximately 1,400 and 2,800 milligrams per liter (mg/L), respectively. The principal confining unit overlying the FAS is the Hawthorn Group, consisting of clays and interbedded limestone units that extend from approximately 205 to 985 feet bls. These layers impede migration of FAS water into the overlying Surficial Aquifer System (SAS), which extends from land surface to approximately 205 feet bls. A schematic showing the site hydrogeology at the location of the existing exploratory ASR well is presented in **Figure 5**.

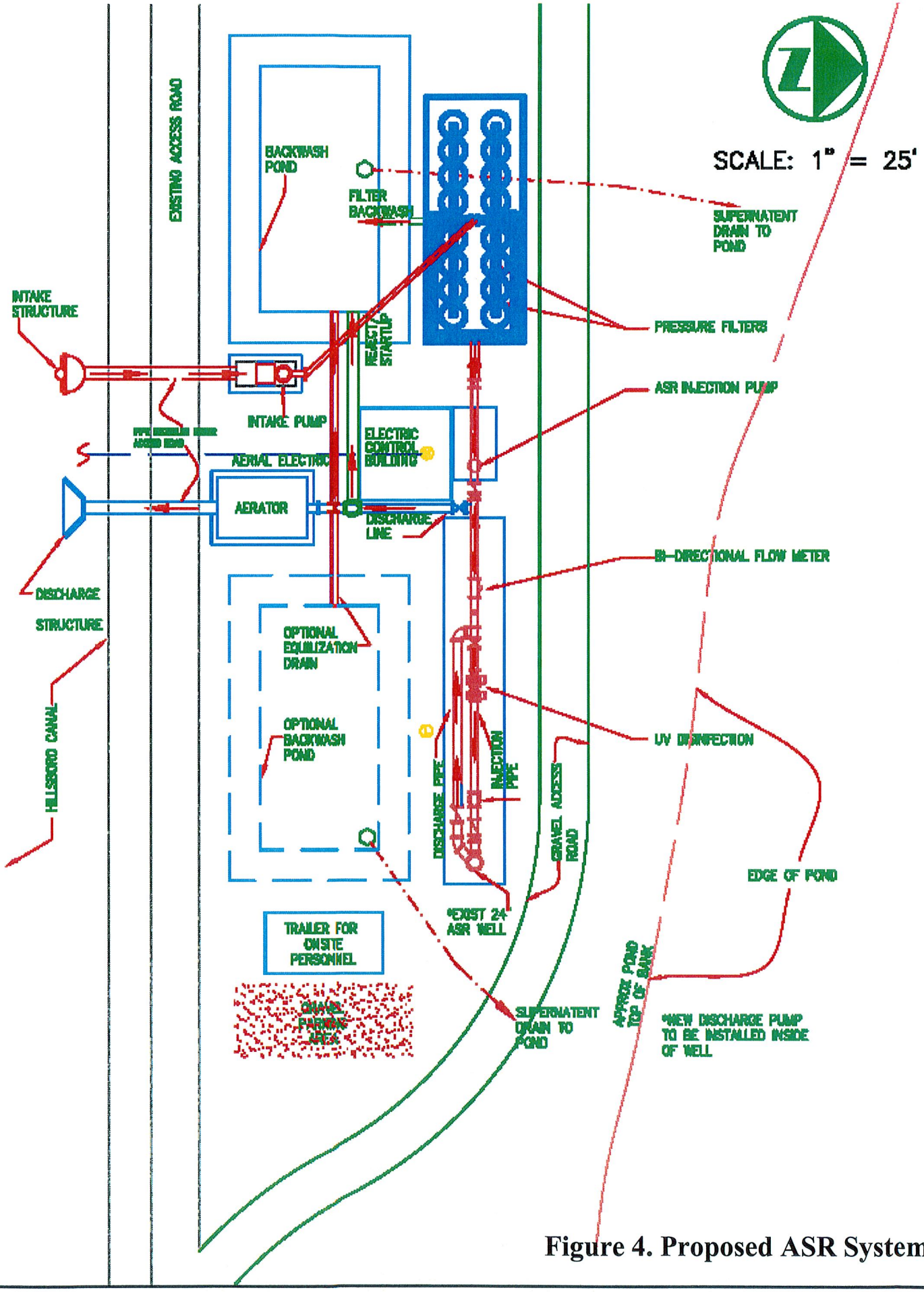


Figure 4. Proposed ASR System

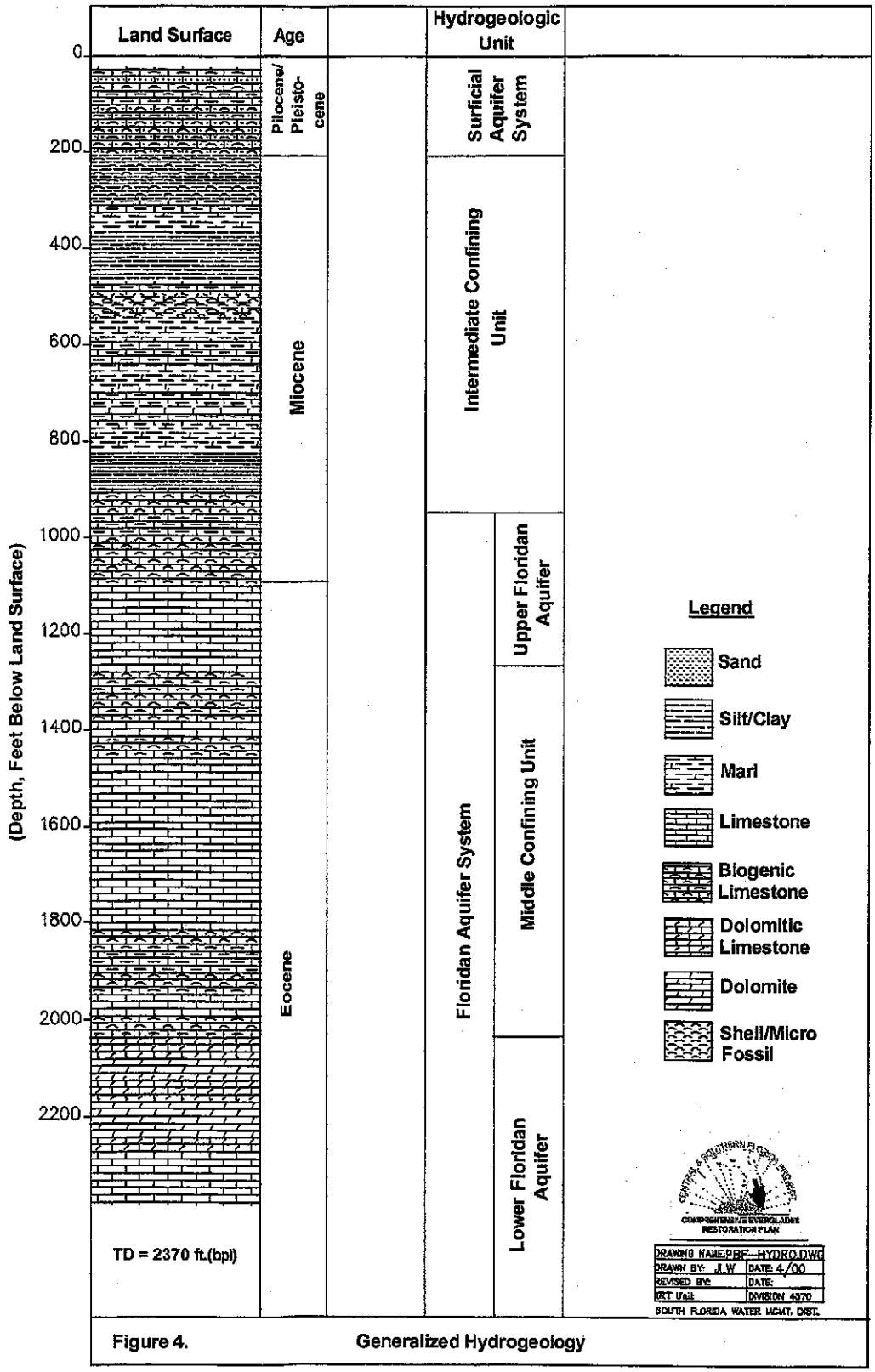


Figure 5. Site Hydrogeology

Section 3
Engineering and Hydrologic Data Required for Support of Application to Construct, Operate, and Abandon Class I, III, or V Injection Well Systems

Item (G) Class V Well Construction Permit

(1) Type and number of proposed Class V Wells:

The well at the site is currently classified as a Class V, Group 8 exploratory well under Chapter 62-528 Florida Administrative Code (FAC). Refer to **Appendix A** for a copy of this permit. This application represents a request to change the classification of the well from "exploratory" to an "ASR" well and allow for construction and testing of the other elements of a functional ASR system. The SFWMD has taken care to design and construct the exploratory well to the standards that will conform to Class V Group 7 requirements. This application also includes a request to construct one Floridan Aquifer System (FAS) monitor well, and one Surficial Aquifer System (SAS) well at the project site.

(2) Project Description:

a. Description and use of proposed injection system:

The proposed ASR system is part of the Comprehensive Everglades Restoration Plan (CERP). The purpose of the Hillsboro ASR Pilot Project is to address technical and regulatory uncertainties of implementing CERP-related ASR systems along the lower east coast of Florida. The project will consist of one 5-mgd ASR well, surface facilities, a water treatment system, two FAS monitor wells, and one SAS monitor well. A conceptual layout of the proposed pilot facility construction site is shown on **Figure 4.**

The pilot project will recharge surface water (treated to primary drinking water standards) into the FAS for subsequent recovery. The project will provide information on the feasibility of ASR technology at the site for water storage, information on water quality treatment needs, define long-term operational goals of ASR wells at this site, and provide data for future ASR projects that may be constructed in the region. The project will also provide information for ecological monitoring and geophysical, geochemical and geotechnical evaluations for ASR technology's impact on natural resources and water quality in coordination with the CERP ASR Regional Study. Additional considerations that will be taken into account are costs and compatibility with ongoing CERP projects.

b. Nature and volume of injected fluid:

The desired design rate for the Hillsboro ASR pilot facility is approximately 5 mgd, which is equivalent to a continuous pumping rate of approximately 3,500 gallons per minute (gpm). The raw source water for the ASR well system will be the Hillsboro Canal immediately downstream (east) of the S-39 Structure (**Figure 2**).

During the period from March through December 2002, background raw water quality characterization took place at and near the pilot project location. Water samples were collected from three locations along the Hillsboro Canal on a quarterly basis for four consecutive quarters. The sampling locations are presented on **Figure 6**. The sampling results are summarized on **Table 1**. Sampling results from each of the four quarters are presented in **Appendix B**. A detailed documentation of the analytical results and validation process may be found at the following website: ftp://ftp.saj.usace.army.mil/pub/projects/ASR.

The sampling locations were determined by USACE, SFWMD and FDEP project team members. The locations are representative of upstream (Location A), project site (Location B), and downstream (Location D) conditions. The words "upstream" and "downstream" are periodically misleading since the Hillsboro Canal is not always flowing. However, these sampling locations were chosen to evaluate a variety of locations along the Canal.

The data on **Table 1** indicate that the raw source water meets all of the federal primary drinking water standards (DWS) with the exception of total coliform bacteria (commonly present in surface water) and occasionally turbidity. It is our understanding that the turbidity DWS does not apply to groundwater systems including ASR wells. The secondary DWS of color was routinely exceeded.

To meet the UIC regulations, the source water will be treated using filtration and ultraviolet (UV) disinfection prior to recharge into the ASR well. This treatment process will ensure that the recharge fluid will meet all primary drinking water standards, minimum criteria and most secondary drinking water standards in accordance with Department rules. A Water Quality Criteria Exemption petition will be filed in support of those constituents that are not anticipated to meet secondary drinking water standards (e.g., color) after treatment via the proposed method. A conceptual design of the proposed system can be found in **Appendix C**.

c. Proposed pretreatment.

The water will be pre-treated before injection into the ASR well. Water will be pumped from the Hillsboro Canal through a relatively coarse screen to exclude larger debris from entering the treatment system. Following the primary filtration along the canal, the source water will be treated with additional filtration and pH adjustment before the water is disinfected using UV. The treated water will then be pumped into the ASR well. Finalization of this process will be based upon more detailed water quality and treatment evaluations of the project site. A description of the proposed pretreatment system may be found in the conceptual layout provided in **Appendix C**.

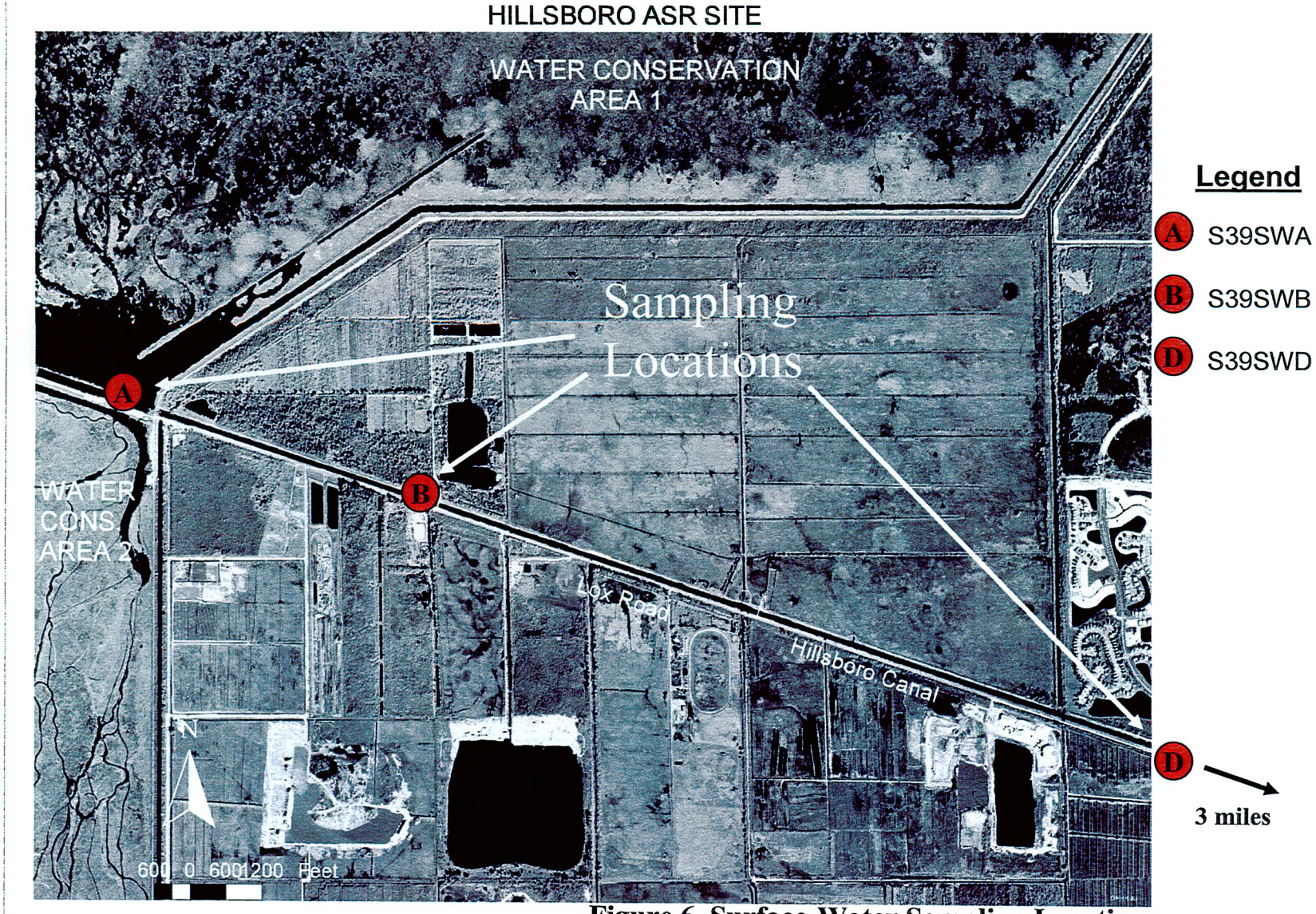


Figure 6. Surface-Water Sampling Locations

Table 1

Surface Water Quality – Summary of Drinking Water Standard Excursions

Quarterly Sample Results, Hillsboro Canal

Sample Location	Sample Date	Parameter	Drinking Water Standard	Result	MCL or sMCL
All	All*	Turbidity	Primary	>1 NTU	1 NTU
All	All	Total Coliform	Primary	>4 CFU/100ml	4 CFU/100ml
All	All	Color	Secondary	>5 PCU	15 PCU
S39SWA	June 6, 2002	TDS	Secondary	510 mg/L	500 mg/L
S39SWB	June 4, 2002	TDS	Secondary	530 mg/L	500 mg/L
			Secondary		
S39SWD	June 5, 2002	TDS	Secondary	520 mg/L	500 mg/L
S39SWA	September 10, 2002	TDS	Secondary	640 mg/L	500 mg/L
S39SWB	September 11, 2002	TDS	Secondary	580 mg/L	500 mg/L
S39SWD	September 9, 2002	TDS	Secondary	560 mg/L	500 mg/L

*Except March 7, 2002 at the S39SWA location (0.66 NTU)

S39SWA = Located upstream (west) of the S-39 Structure in Water Conservation Area No. 1
S39SWB = Located approximately 4,000 feet east of the proposed ASR pilot project
S39SWD = Located approximately 6 miles east of the proposed ASR pilot project near S.R. 7.

(3) Water well contractor's name, title, state license number, address, phone number and signature.

Diversified Drilling Corporation, a Tampa-based water well contractor, constructed the exploratory well. They can be reached by phone at 813-988-1132, facsimile at 813-985-6636, and at P.O. Box 290699, Tampa, Florida 33687. A water well contractor for the proposed FAS and SAS monitoring wells has not been selected at this time. A qualified, Florida-licensed, water-well contractor experienced in the construction of FAS wells is expected to be selected for the work. The contractor's name and requested information will be submitted to FDEP upon selection and contract execution.

(4) Well Design and Construction Details.

a. Proposed total depth:

The total depth of the existing 24-inch diameter exploratory well is 1,225 feet bls. **Figure 7** presents the exploratory well construction details. There are two existing FAS monitor wells at the site. One is a single-zone monitor well constructed to 1,225 feet bls. The other is a dual-zone monitor well completed to 2,260 feet bls. The well construction diagrams for the existing monitor wells are presented in **Figure 8.** The total depth of the proposed FAS and SAS monitor wells have not been determined, but are expected to be approximately 1,225 and 200 feet bls, respectively. Construction diagrams of the proposed monitor wells are presented in **Figure 9**.

b. Proposed depth and type of casing(s):

The existing exploratory ASR well was constructed according to design and construction standards set forth in Chapter 62-528, FAC. The well consists of concentric, steel casings (42-inch, 36-inch and 24-inch outside diameter) designed to isolate overlying aquifers and maintain confining unit integrity. Well casing specifications are provided in **Table 2.** The construction diagrams for the exploratory ASR and monitor wells (existing and proposed) are shown in **Figures 7, 8, and 9**. Except for the 42-inch pit casing (which was vibrated into place), all casings were fully cemented from bottom to land surface. The 36-inch diameter casing isolates the FAS storage zone from the SAS. The 24-inch casing set to 1,015 feet bls isolates the upper FAS from the overlying Hawthorn Group confining units.

The well-casing diameters are based on the flow characteristics of the proposed storage zone, and on the potential to drill, conduct geophysical logging, or perform other work inside the well. Based on the above specifications, a 24-inch diameter, ½-inch wall thickness, seamless, carbon-steel casing was selected as the final casing for the well.

c. Diameter of ASR well:

The inside diameter of the final cemented casing is 23 inches. The outside diameter is 24 inches (1/2" wall thickness).

d. Cement type, depth, and thickness:

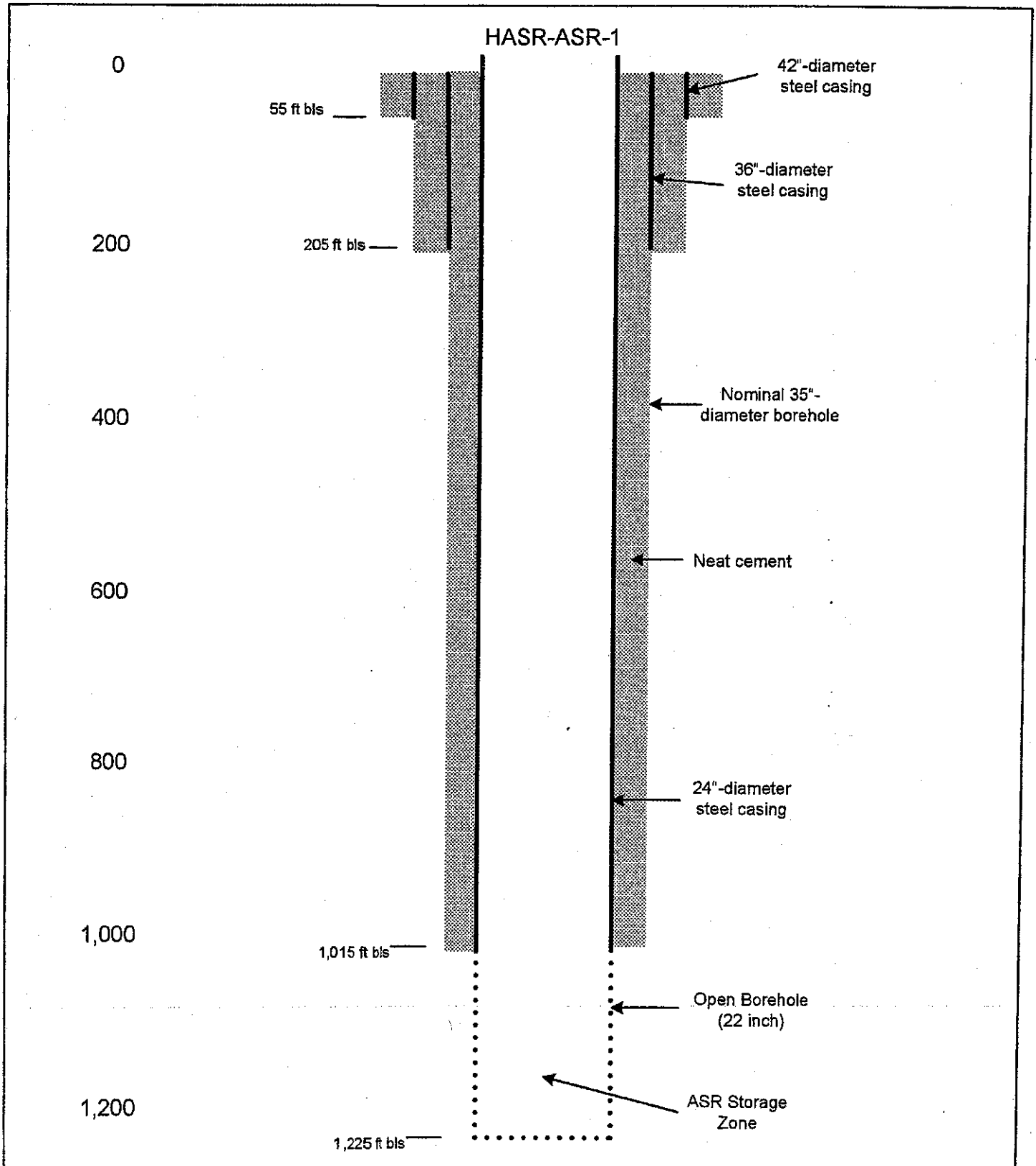


Figure 7. Well Construction Diagram - Existing Exploratory ASR Well

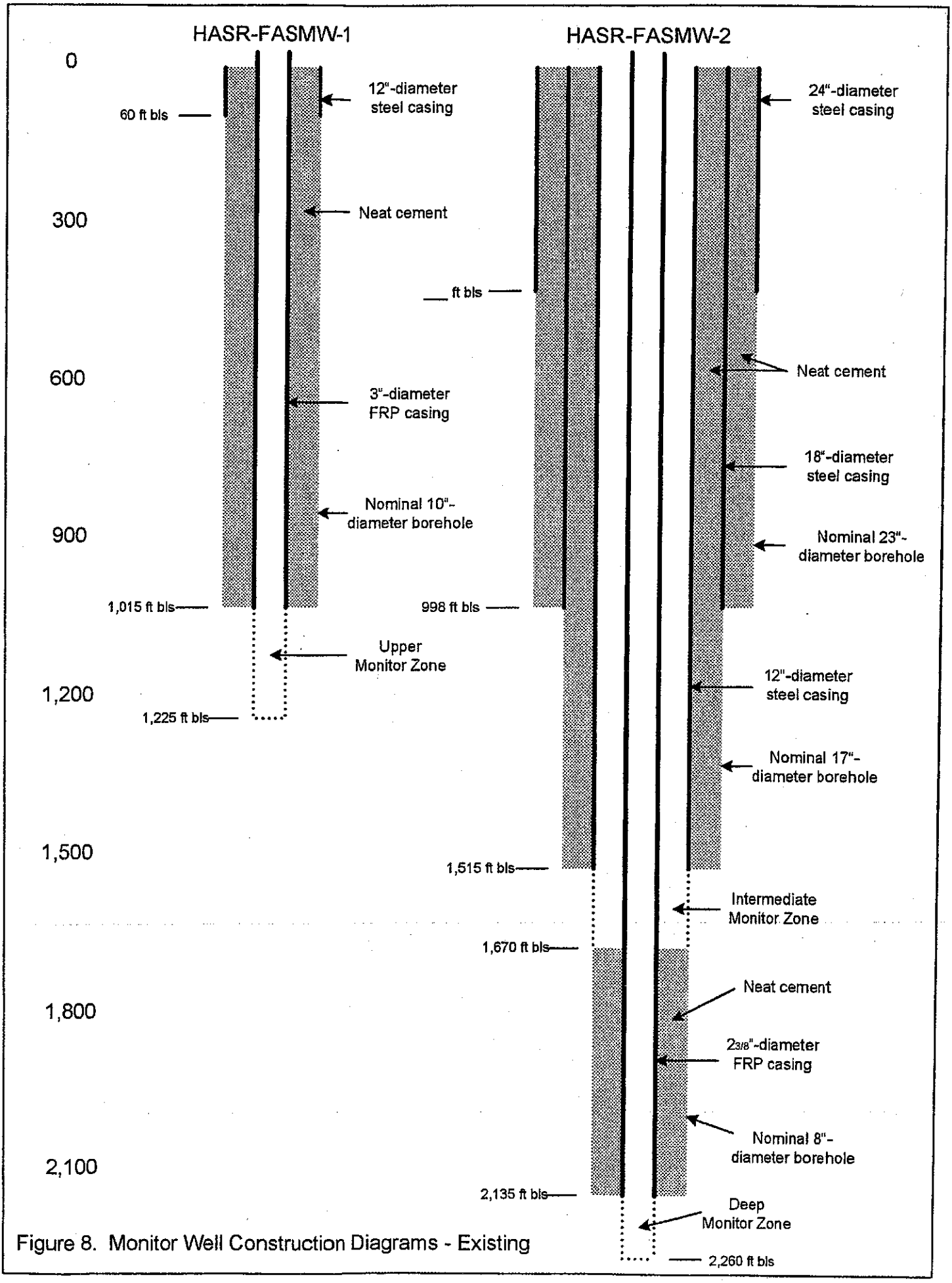


Figure 8. Monitor Well Construction Diagrams - Existing

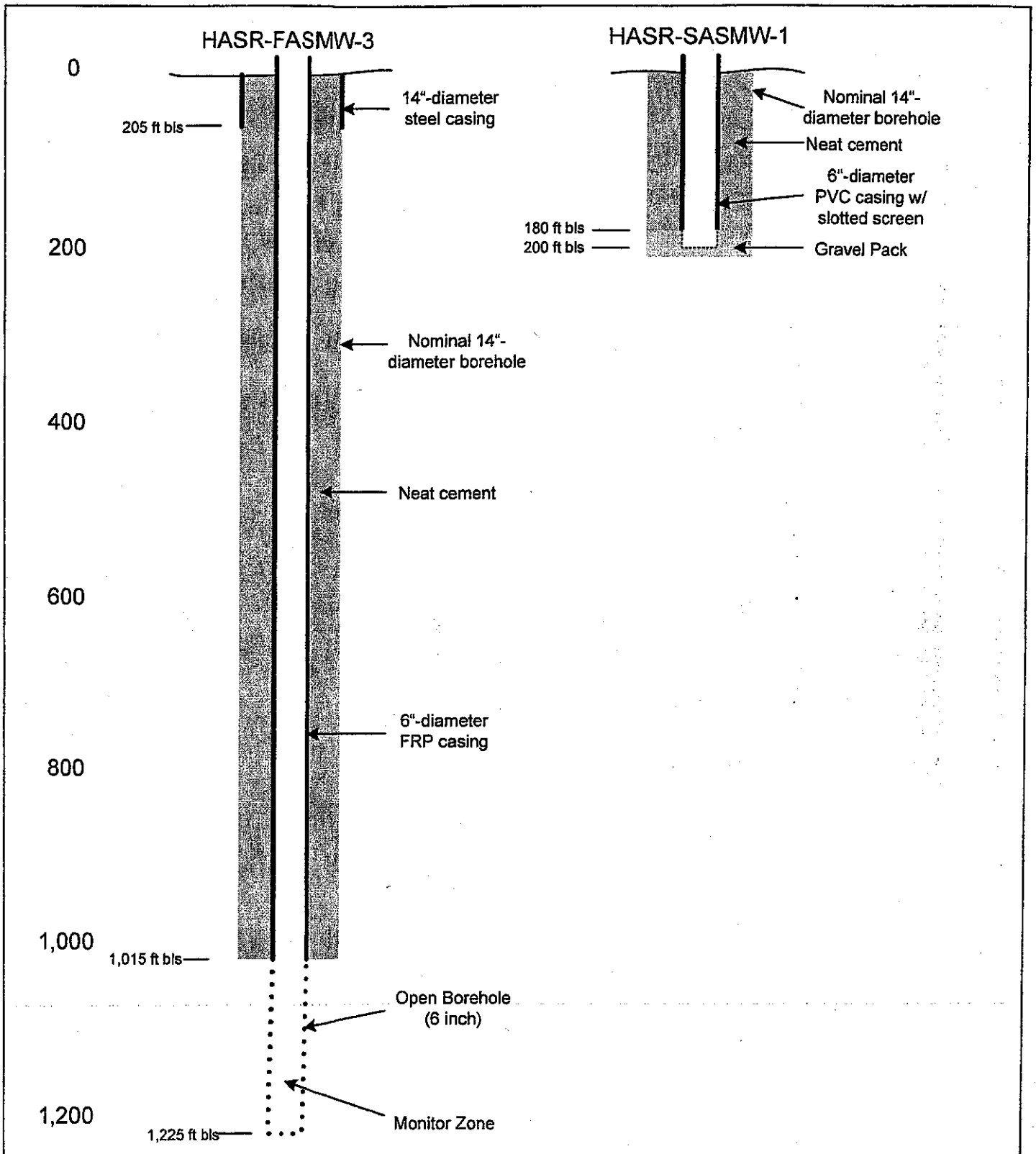


Figure 9. Proposed Monitor Well Construction Diagrams

Table 2.
Summary of Exploratory Well Casing Specifications

Nominal Diam. (inches)	I.D. (inches)	O.D. (inches)	Wall Thickness (inches)	Material	Depth (ft-bls)	Comments
42	43.25	44	0.375	Carbon Steel	55	Surface Casing
36	33.25	34	0.375	Carbon Steel	205	Isolate Surficial Aquifer
24	23.00	24	0.500	Carbon Steel	1,015	Isolate Hawthorn Group

Notes:
I.D. = Inside Diameter
O.D. = Outside Diameter
Depths are approximate
All casings will conform to ASTM A53, Grade B or equivalent.

The casings have been cemented from bottom to top with ASTM Type II neat cement with varying quantities of bentonite as an additive. The lower 200 feet of each casing, at a minimum, was cemented with neat cement. Above this depth, a neat cement slurry was pumped from bottom to land surface. The nominal cement thickness (annular space between the outside of the casing and the borehole wall) for the final casing string is 4.5 inches. For further details, please see the attached well construction drawing.

e. Injection pumps (if applicable):_____gpm @_____psi

A discussion of the proposed surface facilities is presented in the conceptual layout provided in **Appendix C.** An updated design layout of the proposed system is currently being prepared, and will be submitted to the FDEP as soon as it is available.

(5) Water Supply Wells

When required by Florida Administrative Code Rule 62-4.27, attach a map section showing the locations of all water supply wells within a one (1) mile radius of the proposed well. The well depths and casing diameters should be included. When required by Rule 62-4.27(2)(g), results of bacteriological examinations of water from all water supply wells within one (1) mile and drilled to approximate depth of proposed well should be attached.

Review of Water Use Permit files at the SFWMD, USGS, FGS, and Palm Beach and Broward County well databases indicates that two permitted FAS wells exist within a five (5)-mile radius of the site. These are the wells associated with the Palm Beach County Water Utilities Department's Eastern Hillsboro ASR facility. Both of these wells are completed within the FAS, each with a total depth of 1,225 feet bls. Results of the well search are presented graphically on **Figure 10**, and listed in **Table 3.**

(6) Area of Review (may be required at Department's discretion).

Include the proposed radius of the area of review with justification for that radius. Provide a map showing the location of the proposed injection well or wellfield area for which a permit is sought and the applicable area of review. Within the area of review, the map must show the number or name, and location of all producing wells, injection wells, abandoned wells, dry holes, surface bodies of water, springs, public water systems, mines (surface and subsurface), quarries, water wells, and other pertinent surface features including residences and roads. The map should also show faults, if known or suspected. Only information of public record and pertinent information known to the applicant is required to be included on this map.

A five-mile radius is considered appropriate for the area of review of this ASR system. This is justified by modeling results (**Appendix D**). The results show that the significant drawdown from the proposed ASR system is contained within the five-mile radius.

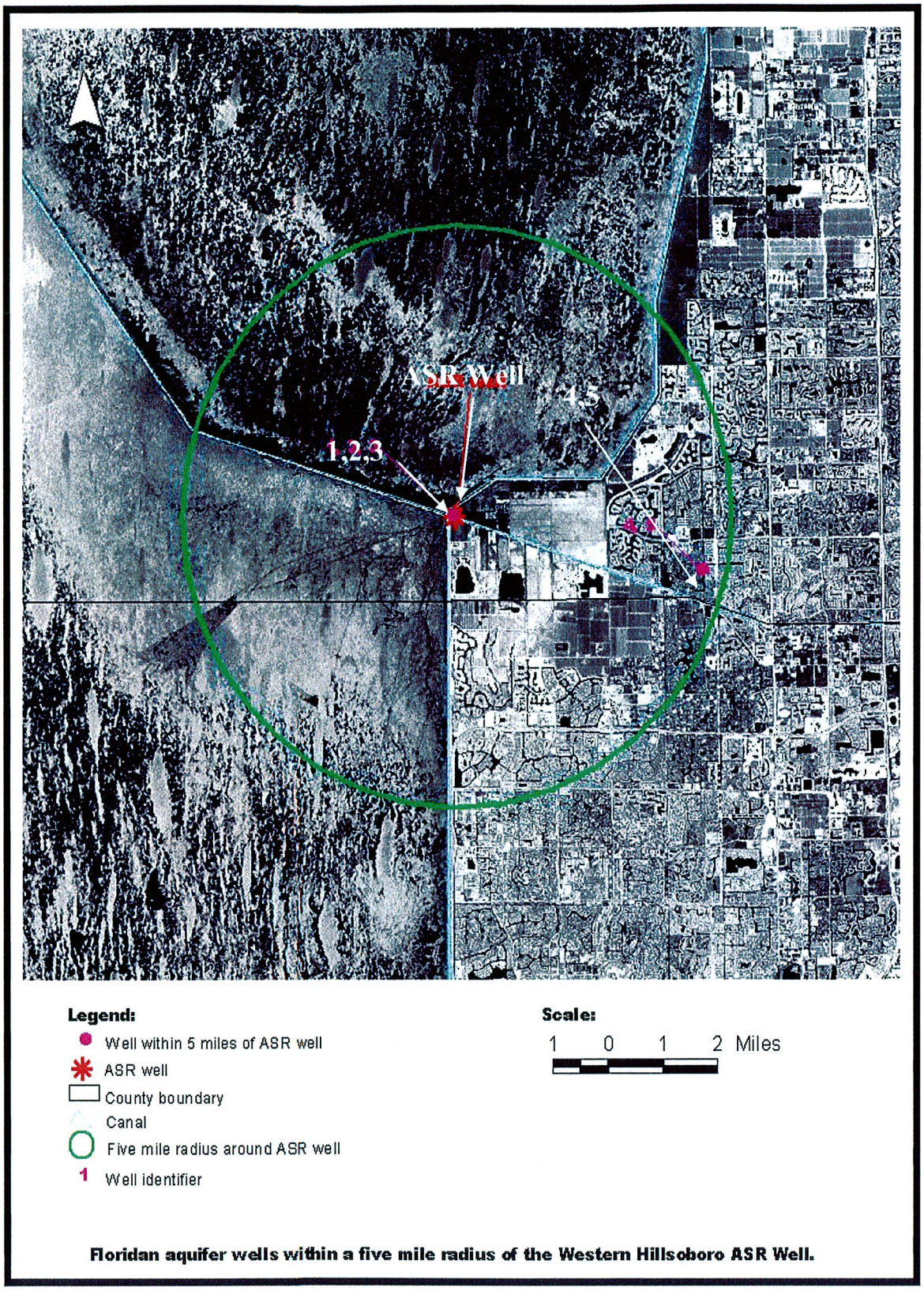


Figure 10. Well Survey Map

Table 3. Well Survey Results

Well #	Well Name	Owner	Site	Well Use	Latitude	Longitude	X	Y
1	FAMW-1	SFWMD	Hillsboro ASR Pilot	ASR Zone Monitoring	262120.286	801745.837	886678.707	735581.372
2	FAMW-2	SFWMD	Hillsboro ASR Pilot	ASR Monitoring	262120.286	801745.837	886678.707	735581.372
3	FAMW-2	SFWMD	Hillsboro ASR Pilot	ASR Monitoring	262120.286	801745.837	886678.707	735581.372
4	PB-1775	Palm Beach County WUD	Eastern Hillsboro ASR	ASR - Monitoring	262030	801323	910616.289	730639.677
5	PB-1776	Palm Beach County WUD	Eastern Hillsboro ASR	ASR	262030	801323	910616.289	730639.677

Well #	Well Name	Total Depth (ft)	Cased Depth (ft)	Diameter (in)	Aquifer	Pump Type	Intake Depth (ft)	Database
1	FAMW-1	1225	1015	3	Floridan	N/A	N/A	SFWMD
2	FAMW-2	1670	1515	12	Floridan	N/A	N/A	SFWMD
3	FAMW-2	2260	2135	2	Floridan	N/A	N/A	SFWMD
4	PB-1775	1225	1005	6 5/8	Floridan	N/A	N/A	USGS
5	PB-1776	1225	1010	24	Floridan	N/A	N/A	USGS

Notes:
Survey conducted within five miles of the Hillsboro Exploratory ASR Well
N/A - Not available
FAMW-2 is a dual-zone monitor well

The five-mile radius is also justified based on the expected extent of the hypothetical cylinder ("bubble") of fresh water that will be created within the upper FAS beneath the future ASR facility over time. This estimate uses a "plug flow" equation described in Warner and Lehr (1981). The equation variables are listed below:

- volume of injected water,
- aquifer porosity,
- storage-zone thickness, and
- aquifer dispersivity.

A scenario was conducted assuming a four year cycle testing period of recharge at a rate of 5 mgd into a 100-foot-thick aquifer (considered a conservative storage volume thickness) with an effective porosity of 20% and an aquifer dispersivity of 65 feet. Added to the cycle testing period was an additional 16 years of longer-term operation of the system as envisioned in the CERP, assuming a recovery efficiency of 70%. The equation yielded a radial distance (including the influence of dispersion) of approximately 4,900 feet. The five-mile "area of review" radius easily encompasses the computed cylinder size.

As described in response to Item 5 above, two wells were identified within a five-mile radius of the site.

The following agencies and their respective databases were queried to compile area of review (AOR) information:

- South Florida Water Management District (Water Use Permit Files)
- Palm Beach and Broward County Departments of Health – Environmental Divisions
- Florida Geological Survey – Oil and Gas Section
- Florida Geological Survey – Geological Investigations Section
- United States Geological Survey (USGS)

Figure 10 is a map showing the features around the five-mile radius from the proposed ASR system. A summary of construction details, location coordinates and well use information on wells located within the five-mile radius is provided in **Table 3**. Two wells tapping the FAS were identified within the five-mile radius surrounding the exploratory well location during the database search and compilation. Both wells are part of Palm Beach County Water Utilities' Eastern Hillsboro site (also known as the System 9 ASR system).

Supplementary Information

In addition to the information requested in *Item G., Class V Well Construction Permit* of the Permit Application Form, SFWMD has assembled additional information to assist the reviewer in evaluating the proposed ASR well system. This remaining information within this document includes a copy of:

- Monitoring System Design **(Appendix E)**

- Cycle Testing Plan (**Appendix F**)
- Plugging and Abandonment Plan for the entire proposed system **(Appendix G)**
- Native Groundwater Quality **(Appendix H)**

Appendix A

Exploratory Well Construction Permit

Department of Environmental Protection

Jeb Bush
Governor

Southeast District
P.O. Box 15425
West Palm Beach, Florida 33416

David B. Struhs
Secretary

DEC 0 8 1999

CERTIFIED MAIL Z220324375
RETURN RECEIPT REQUESTED

NOTICE OF PERMIT

Frank Finch
Executive Director
South Florida Water Management District
3301 Gun Club Road
West Palm Beach, FL 33406

PALM BEACH COUNTY
UIC - South Florida Water Management District
Site 1 Pilot Study
File No: 153872-001-UC
Class V Group 8 Exploratory Well EXW-1

Dear Mr. Finch:

Enclosed is Permit Number 153872-001-UC, to construct one Class V, Group 8, 24-inch outside diameter (OD) exploratory well, EXW-1, for South Florida Water Management District, West Palm Beach, Palm Beach County, Florida, issued pursuant to Section(s) 403.087, Florida Statutes (FS) and Florida Administrative Codes (FAC) 62-4, 62-520, 62-522, 62-528, 62-550, 62-600, 62-601 and 62-660.

Any party to this Order (permit) has the right to seek judicial review of the permit under Section 120.68, FS, by the filing of a Notice of Appeal under Rule 9.110 of the Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 3900 Commonwealth Boulevard., Mail Station 35, Tallahassee, Florida 32399-3000; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days after this notice is filed with the Clerk of the Department.

Should you have any questions, please contact Jose Calas, PE, or Heidi Vandor, PG, of this office, telephone (561) 681-6691 or (561) 681-6688, respectively.

Executed in West Palm Beach, Florida.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Melissa L. Meeker 12/8/99
Melissa L. Meeker Date
Director of District Management
Southeast District

MLM/JLC/HVW

cc: Francine Folkes, OGC/TLH
Steve Anderson, SFWMD
Heidi Vandor, FDEP/WPB
Richard Deuerling, FDEP/TLH
Tom Lefevre, PBCPHU
Lou Devillon, SFWMD
Nancy Marsh, USEPA/ATL
Ron Reese, USGS/MIA

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT and all copies were mailed before the close of business on DEC 0 8 1999 to the listed persons.
Clerk Stamp

FILING AND ACKNOWLEDGMENT FILED, on this date, pursuant to the §120.52, Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

Clerk DEC 0 8 1999 Date

"More Protection, Less Process"

ntcper1a

Printed on recycled paper.

Department of Environmental Protection

Jeb Bush
Governor

Southeast District
P.O. Box 15425
West Palm Beach, Florida 33416

David B. Struhs
Secretary

PERMITTEE:
Frank Finch
Executive Director
South Florida Water Management District
3301 Gun Club Road
West Palm Beach FL 33406-0000

PERMIT NUMBER: 153872-001-UC
DATE OF ISSUE: DEC 0 8 1999
EXPIRATION DATE: DEC 0 7 2004
COUNTY: Palm Beach
LATITUDE/LONGITUDE: 26°21'07"N/80°17'42"W
PROJECT: SFWMD Site 1 Pilot Study
Class V Exploratory Well EXW-1

This permit is issued under the provisions of Chapter 403.087, Florida Statutes, and Florida Administrative Code (FAC) Rules 62-4, 62-520, 62-522, 62-528 and 62-550. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the Department and made a part hereof and specifically described as follows:

TO CONSTRUCT: One Class V, Group 8 exploratory well, EXW-1. The well shall be constructed with 24-inch outside diameter (OD) carbon steel casing to a depth of approximately 1,000 feet below land surface (bls), with a nominal 24-inch open borehole drilled to a total depth of approximately 1,200 feet bls. Final depths will be determined during construction and field testing. The purpose of the permit is for the construction and testing of an exploratory well to obtain site specific subsurface information for the proposed aquifer storage and recovery (ASR) well network for the South Florida Water Management District ASR Pilot Study. The proposed future of use of exploratory well EXW-1 is as an ASR well. Injection of fluids into EXW-1 is not permitted as part of this permit. Existing SFWMD research well PBF-10 will be used as a monitor well during aquifer performance testing (APT).

IN ACCORDANCE WITH: Application to construct a Class V, exploratory well, EXW-1 received March 30, 1999. Request for Information (RFI) dated April 29, 1999; response to RFI received May 11, 1999, RFI dated June 10, 1999; response to RFI received June 30, 1999, publication of the Notice of Draft Permit in the Palm Beach Post on August 2, 1999; consideration of receipt of public comment received as a result of a public meeting held on September 8, 1999; and publication of the Intent to Issue Permit in the Palm Beach Post on November 6, 1999.

LOCATED AT: The Eastern convergence of the Hillsboro Canal, WCA 1, WCA 2A, Palm Beach County, Florida, 33446.

TO SERVE: Lower East Coast

SUBJECT TO: General Conditions 1-24 and Specific Conditions 1-9.

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations and restrictions set forth in this permit, are "permit conditions" and are binding and enforceable pursuant to Sections 403.141, 403.727, FS.

2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.

3. As provided in subsections 403.087(7) FS, the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations. This permit is not a waiver of, or approval of, any other Department permit that may be required for other aspects of the total project which are not addressed in this permit.

4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.

5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.

6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed and used by the permittee to achieve compliance with the conditions of this permit, are required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.

7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times, access to the premises where the permitted activity is located or conducted to:

   a. Have access to and copy any records that must be kept under conditions of the permit;
   b. Inspect facility, equipment, practices, or operations regulated or required under this permit;
   c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules. Reasonable time may depend on the nature of the concern being investigated.

8. If, for any reason, permittee does not comply with or will be unable to comply with any condition or limitation specified in the permit, permittee shall immediately provide the Department with the following:

   a. A description of and cause of noncompliance; and
   b. The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to educe, eliminate, and prevent recurrence of the noncompliance. The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Section 403.111 and 403.73, FS. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.

11. This permit is transferable only upon Department approval in accordance with Rule 62-4.120 and 62-528.350 FAC, as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.

12. This permit or a copy thereof shall be kept at the work site of the permitted activity.

13. The permittee shall comply with the following:

    a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records shall be extended automatically unless the Department determines that the records are no longer required.
    b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.
    c. Records of monitoring information shall include:
        - the date, exact place, and time of sampling or measurements;
        - the person responsible for performing the sampling or measurements;
        - the dates analyses were performed;
        - the person responsible for performing the analyses;
        - the analytical techniques or methods used;
        - the results of such analyses.
    d. The permittee shall furnish to the Department, within the time requested in writing, any information which the Department requests to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit..
    e. If the permittee becomes aware the relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

14. All applications, reports or information required by the Department shall be certified as being true, accurate and complete.

15. Reports of compliance or noncompliance with, or any progress reports on, requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date.

16. Any permit noncompliance constitutes a violation of the Safe Drinking Water Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

17. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

18. The permittee shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this permit.

19. This permit may be modified, revoked and reissued, or terminated for cause, as provided in 40 CFR sections 144.39(a), 144.40(a), and 144.41 (1998). The filing of a request by the permittee for a permit modification, revocation or reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

20. The permittee shall retain all records of all monitoring information concerning the nature and composition of injected fluid until five years after completion of any plugging and abandonment procedures specified under rule 62-528.435, FAC The permittee shall deliver the records to the Department office that issued the permit at the conclusion of the retention period unless the permittee elects to continue retention of the records.

21. All reports and other submittals required to comply with this permit shall be signed by a person authorized under rules 62-528.340(1) or (2), FAC All reports shall contain the certification required in rule 62-528.340(4), FAC.

22. The permittee shall notify the Department as soon as possible of any planned physical alterations or additions to the permitted facility. In addition, prior approval is required for activities described in rule 62-528.410(1)(h).

23. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or injection activity which may result in noncompliance with permit requirements.

24. The permittee shall report any noncompliance which may endanger health or the environment including:

    a. Any monitoring or other information which indicates that any contaminant may cause an endangerment to an underground source of drinking water; or
    b. Any noncompliance with a permit condition or malfunction of the injection system which may cause fluid migration into or between underground sources of drinking water.

    Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within 5 days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause, the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and the steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

SPECIFIC CONDITIONS

1. General Requirements

a) This permit is to construct a Class V, Group 8 exploratory well EXW-1. The exploratory well system will include the existing research well PBF-10 for monitoring. This permit allows only for the construction and withdrawal testing of EXW-1 as an exploratory well in accordance with Chapter 62-528, FAC. Any modification of this exploratory well system to accept/inject waters must be accomplished through the regulatory process and may require the application and issuance of a new permit and Department approval.

b) Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures.

c) The permittee shall be subject to all requirements and regulations of Palm Beach County and the South Florida Water Management District regarding the construction, testing and operation of this well system.

d) Four permanent shallow surficial aquifer pad monitor wells (PMWs) shall be installed at the corners of the drilling pad and identified by location number and pad location, ie. NW, NE, SW, SE. The PMWs shall be sampled and analyzed prior to the onset of drilling, Initial analyses shall be submitted prior to the initiation of drilling. The PMWs are to be retained in service, sampled weekly and analyzed for chlorides (mg/L), conductivity (umho/cm), total dissolved solids and water level (relative to NGVD) during the construction and testing. In addition, the PMWs shall be sampled 48 hours prior to any maintenance, testing (including mechanical integrity testing) or repairs to the system which represent an increased potential for accidental discharge to the surficial aquifer. The results of these analyses shall be submitted to the Department within 30 days of the completion of the activity. A summary sheet from the FDEP Southeast District is attached. If located in a traffic area the well head must be protected by a traffic bearing enclosure and cover. The cover must lock and be specifically marked to identify the well and its purpose.

e) Any permit noncompliance constitutes a violation of the Safe Drinking Water Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

f) Changes to this construction permit, and/or any change in the storage zone or Floridan aquifer monitor well zone, may be addressed by a request for a permit modification in accordance with Rule 62-528, FS.

2. Construction and Testing Requirements

a) The measurement points for drilling and logging operations shall be surveyed and referenced to the National Geodetic Vertical Datum (NGVD) of 1929 prior to the onset of drilling activities for the exploratory well and associated monitor well.

b) No drilling operations shall begin without an approved disposal site for drilling fluids, cuttings, or waste. It shall be the permittee's responsibility to obtain the necessary approval(s) and permits for disposal prior to the start of construction. **Any formation waters discharged to surface or surficial aquifer waters during aquifer performance test shall require an Industrial Wastewater permit from the Department.**

c) The Department shall be notified within 48 hours after work has commenced.

d) Waters spilled during modification or testing of the exploratory well system shall be contained and properly disposed.

e) Hurricane Preparedness - Upon the issuance of a "Hurricane Watch" by the National Weather Service, the preparations to be made include but are not necessarily limited to the following:

- Secure all on-site salt and stockpiled additive materials to prevent surface and/or groundwater contamination.
- Properly secure drilling equipment and rig(s) to prevent damage to well(s) and on-site treatment process equipment.

f) Blow-out preventers shall be installed on wells prior to penetration of the Floridan Aquifer.

g) TAC and EPA review and Department approval are required prior to the following stages of well construction. Requests for approval shall be in the form of separate stand-alone documents:

- Spud date
- Final casing seat
- Plugging back pilot hole (if needed)
- Selection of the packer test intervals based upon testing of EXW-1

h) Upon completion of well construction, background water quality sampling shall be performed to determine water quality characteristics (chloride, conductivity, total dissolved solids, temperature and pH) as well as primary and secondary drinking water standards (Rule 62-550, FAC) and minimum criteria parameters (Rule 62-520, FAC), as attached.

i) The geophysical logging program for well construction, shall at a minimum, include:

(i) 9-7/8 inch pilot hole to approximately 200 feet bls, to the base of the surficial aquifer:

- Caliper
- Natural gamma
- Spontaneous potential
- Long and short normal electric

(ii) 36-inch reamed hole to approximately 200 feet bls, to the base of the surficial aquifer:

- Caliper
- Natural gamma

(iii) 9-7/8 inch pilot hole to approximately 1200 feet bls, the final depth of the well:

- Caliper
- Natural gamma
- Dual induction
- Spontaneous potential
- Borehole compensated sonic with VDL display

(iv) 36-inch reamed hole from approximately 200 feet bls to the top of the Floridan Aquifer at approximately 1000 feet bls:

- Caliper
- Natural gamma

(v) 24-inch cased hole to the top of the Floridan Aquifer at approximately 1000 feet bls:

- Temperature log after each stage of cementing

(vi) 24-inch reamed open hole below final casing to approximately 1200 feet bls final depth:
- Caliper
- Natural gamma
- Temperature (static)
- long and short normal electric
- Flowmeter (static and pumping)
- Fluid resistivity

(vii) Completed well:
- Downhole video survey with rotating lens
- Temperature

j) Testing during reverse air drilling of the pilot hole in the proposed storage zone, if applicable, shall be performed to determine water quality and hydraulic characteristics. The data, results and interpretation of the results shall be submitted with the weekly reports (SC 4.d). The testing shall, at a minimum, include the following:

(i) Bottom samples of formation water discharging from the reverse air discharge setup shall be collected and field analyzed for temperature, conductivity, pH and chlorides. Total dissolved solids shall be measured to establish a relationship between TDS and conductivity. At a minimum, water samples shall be collected at 30 foot intervals of the drilled borehole.

(ii) Flow tests shall be conducted every 30 feet of the drilled borehole or drill rod change. Each flow test shall include a static level measurement using a fixed manometer tube, a free artesian flow for 10 minutes, flow rate and drawdown measurements, specific capacity analysis and flow water sample collection.

(iii) A five gallon sample of formation fluid shall be collected from the completed well after development but before injection begins. Samples should be labeled as to well number, depth, type of sample and shipped to Dr. James Cowart, Department of Geology, Florida State University, Tallahassee, FL 32304.

k) Hydrogeologic testing of the proposed storage/injection zone from between approximately the 1000 to 1200 feet bls depth range:

i) At least 3-single/straddle packer tests shall be performed to determine the characteristics of the anticipated flow zones. A flow test shall be performed for each packer test and a water quality sample collected to determine the hydraulic and water quality characteristics of the tested intervals. The sample shall be analyzed for chloride, conductivity, temperature and TDS. The flow test shall be of sufficient duration to achieve stabilization of water levels and water quality. Pre and post test monitoring shall be performed to achieve stabilization of water levels.

ii) Aquifer performance test to include:
- 72-hour constant rate drawdown test.
- 48-hour recovery test

l) The Department shall be notified at least 72 hours prior to pressure testing.

m) All mechanical integrity testing must be initiated during normal business hours, Monday through Friday.

n) A pressure test for the final casing shall be performed. The final casing must be tested with a fluid-filled casing at 1.5 times the expected operating pressure with a test tolerance of + or - 5%. A Certificate of Calibration of the pressure gage must be provided to the Department staff witnessing the test, prior to commencement of the test, and with the final test reports.

o) UIC-TAC meetings are scheduled on the 2nd and 4th Tuesday of each month subject to a five working day prior notice and timely receipt of critical data by all UIC-TAC members and the United States Environmental Protection Agency (EPA), Region IV, Atlanta. Emergency meetings may be arranged when justified to avoid undue construction delays.

p) Department approval at a scheduled UIC-TAC meeting shall be based on the permittee's presentation that shows compliance with Department rules and this permit.

3. Quality Assurance/Quality Control Requirements

a) Pursuant to Rule 62-528.440(5)(b), FAC, the Professional Engineer(s) of Record shall certify all documents related to the completion of all well construction. The Department shall be notified immediately of any change of the Engineer(s) of Record.

b) In accordance with Section 492, Florida Statutes, all documents prepared for the geological/hydrogeological evaluation of the exploratory well system shall be signed and sealed by a Florida Licensed Professional Geologist or qualified Florida Licensed Professional Engineer.

c) Continuous on-site supervision by qualified personnel (engineer or geologist) is required during all testing, geophysical logging and cementing operations.

4. Reporting Requirements

a) All reports, documents and surveys required by this permit shall be submitted concurrently to all members of the UIC-TAC and the United States Environmental Protection Agency (EPA), Region IV, Atlanta. The UIC-TAC shall consist of representatives of the following agencies:

- Department of Environmental Protection, West Palm Beach
- Department of Environmental Protection Tallahassee
- United States Geological Survey (USGS), Miami
- South Florida Water Management District (SFWMD), West Palm Beach
- Palm Beach County Public Health Unit (PBCPHU), West Palm Beach

b) The Department and other applicable agencies must be notified of any unusual or abnormal events occurring during construction, and in the event the Permittee is temporarily unable to comply with the provisions of the permit (e.g., on-site spills, artesian flows, large volume circulation losses, equipment damage due to: fire, wind and drilling difficulties, etc.). Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within 5 days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause, the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and the steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

c) Prior to site preparation for the exploratory well system, a drilling and construction schedule shall be submitted. Also, prior to site preparation, a site drawing(s) shall be submitted for TAC and EPA review and Department approval at a scale that will show well locations and all surface features of the exploratory well system.

d) **Weekly progress reports** shall be submitted throughout the construction process, and shall include at a minimum the following information:

- A cover letter summary of the daily engineer report and driller's log
- A projection for activities in the next reporting period.
- Daily engineers report and driller's log with detailed descriptions of all drilling progress, cementing, testing, logging, casing and steel liner installation activities, etc.
- Lithologic logs, geophysical logs, flow test reports and water quality test results with interpretations.
- Interpretive flow test reports shall include the following:
  - Development records
  - Well head artesian pressure
  - Specific capacity testing, aquifer performance testing
  - Water quality
- Interpretation with all test results and geophysical logs as they relate to the week's activities
- Detailed description of any unusual construction related events that occur during the reporting period.
- Weekly water quality analysis and water levels for the four PMWs.

e) Per Rules 62-528.410(4)(c), 62-528.420(4)(c) and 62-528.605(2), FAC, the selection of the final casing seat and the proposed storage zone must be approved by the Department. To obtain approval, the permittee must submit a request to the Department in the form of a separate stand-alone document. All requests shall be accompanied by technical justification including, but not be limited to the following items:

- Adequacy of mechanical properties of the formation to create a casing seal.
- Geophysical log interpretations, as the interpretations relate to the casing seat.
- Lithologic drilling rate and weight on bit data, with interpretations (related to the casing seat).
- Identification of storage zone boundaries and characteristics, including hydrogeologic data and interpretations.
- Water quality data with interpretations.
- Demonstration of confinement and evaluation of potential for upconing of poorer quality water. Use all appropriate formation testing information including but not limited to hydrological, geophysical and water quality data collected in EXW-1 and other data collected from any other nearby, in particular the nearby existing research well PBF-10, that will provide useful correlative information for interpretive purposes.

f) The submittal for the request for approval to plug back the pilot hole, if necessary, to modify the storage zone, shall include:

- Withdrawal test data for the storage zone, with interpretations and evaluation.
- Water quality reports.
- Geophysical log interpretations including flow analysis, as the interpretations relate to the request.
- Identification of storage zone boundaries and characteristics.
- Demonstration of confinement and evaluation of potential for upconing of poorer quality water. Use all appropriate formation testing information including but not limited to hydrological, geophysical and water quality data collected in EXW-1 and other data collected from any other nearby, in particular the nearby existing research well PBF-10, that will provide useful correlative information for interpretive purposes.
- Justification of necessity or lack of necessity of BHC sonic log.

g) An interpretation of all test results and geophysical logs must be submitted with all submittals.

h) Upon completion of analysis of cores, if applicable, and sample cuttings, the permittee shall contact the Underground Injection Control Section of the Department of Environmental Protection in Tallahassee to arrange their transfer to the Florida State Geologic Survey.

i) Within 30 days of completion of construction and APT, a final report shall be submitted. The report shall include, but not be limited to, all information and data collected under Rules 62-528.605, 62-528.615, and 62-528.635, FAC, with interpretations. The report shall include:

- Transmissivity test data for the storage zone, with evaluation.
- Evaluation of the maximum injection capacity within safe pressure limits.
- Evaluation of confinement and potential for upconing of poorer quality water.
- Record (as-built) drawings of the exploratory well, surface equipment, instrumentation and appurtenances, if applicable, certified by the engineer of record.
- Summary of all water quality, water level and well performance data collected, with conclusions and recommendations.
- Well locations surveyed relative to permanent reference points by a Florida registered land surveyor, and located on a site plan by latitude and longitude, recorded in the public record.
- Factory mill certificates for all casing pipe.

6. Surface Equipment

a) The integrity of the monitor zone sampling systems shall be maintained at all times. Sampling lines and equipment shall be kept free of contamination with independent discharges and no interconnections with any other lines. Sampling lines shall be clearly and unambiguously identified by monitoring zone at the point at which samples are drawn. All reasonable and prudent precautions shall be taken to ensure that samples are properly identified by monitor zone and that samples obtained are representative of those zones.

b) The surface equipment for the exploratory well system must maintain compliance with Department rules for water hammer control, screening, access for logging and testing, and reliability and flexibility in the event of damage to the well and piping. Additionally, a regular program of exercising the valves integral to the well head shall be instituted on a quarterly basis.

c) The exploratory well and monitoring well surface equipment and piping, if applicable, shall be kept free of corrosion at all times.

d) Spillage onto the injection well pad during construction activities, and any waters spilled during mechanical integrity testing, other maintenance, testing or repairs to the system shall be contained by an impermeable wall around the edge of the pad and disposed of via approved and permitted methods.

e) The four surficial aquifer monitor wells installed at the corners of the well pad shall be secured, maintained, and retained in service.

7. Plugging and Abandonment

a) The permittee shall unconditionally obligate themselves to plug and abandon the well should the well become a threat to the waters of the State, if the well is no longer used, or if the well is no longer usable for its intended purpose, per Rules 62-528.460(1) and 62-528.605(2), FAC.

b) In the event the well must be plugged and abandoned, the permittee shall obtain an FDEP permit, as required by Rule 62-528.645, FAC.

8. Permit Extension(s), Renewal(s) and Authorization to Use

a) Pursuant to Rule 62-4.080(3), a permittee may request that a permit be extended as a modification of an existing permit. A request for an extension is the responsibility of the permittee and shall be submitted to the Department before the expiration of the permit. In accordance with Rule 62-4.070(4), FAC, a permit cannot be extended beyond the maximum 5 year statutory limit. Should construction need to continue beyond the 5 years of this permit, the permittee must apply for a new construction permit.

9. Signatories and Certification Requirements

a) All reports and other submittals required to comply with this permit shall be signed by a person authorized under Rules 62-528.340(1) or (2), FAC.

b) In accordance with Rule 62-528.340(4), FAC, all reports shall contain the following certification:

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

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Melissa L. Meeker 12/8/99

Melissa L. Meeker — Date
Director of District Management
Southeast District

MLM/JLC/HW

Appendix B

Surface Water Quality Results

Flag Information

Flag	Flag Description
!	DATA DEVIATES FROM HISTORICALLY ESTABLISHED CONCENTRATION RANGES.
?	DATA IS REJECTED AND SHOULD NOT BE USED.
A	VALUE REPORTED IS THE MEAN (AVERAGE) OF TWO OR MORE DETERMINATIONS.
B	RESULTS BASED UPON COLONY OUTSIDE THE ACCEPTABLE RANGE.
D	MEASUREMENT WAS MADE IN THE FIELD (I.E. IN-SITU).
F	WHEN REPORTING SPECIES : F INDICATES THE FEMALE SEX
I	THE REPORTED VALUE IS BETWEEN THE LAB METHOD DETECTION LIMIT AND THE LAB PRACTICAL QUANTITATION LIMIT.
J	ESTIMATED VALUE: VALUE NOT ACCURATE.
J1	SURROGATE % REC. EXCEEDED
J2	NO KNOWN QC CRITERIA EXISTS
J3	PRECISION OR ACCURACY CRITERIA NOT MET
J4	MATRIX INTERFERENCE
J5	IMPROPER LAB OR FIELD PROTOCOL
K	OFF-SCALE LOW. ACTUAL VALUE IS KNOWN TO BE LESS THAN THE VALUE GIVEN.
L	OFF-SCALE HIGH. ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN.
M	WHEN REPORTING CHEMICAL ANALYSES: PRESENCE OF MATERIAL IS VERIFIED BUT NOT QUANTIFIED; THE ACTUAL VALUE IS LESS THAN THE
N	PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL.
NOB	NO BOTTLE SAMPLE
NVZ	NOT A VALID ZERO VALUE; REQUEST ORIGINAL VALUE FROM LAB
O	SAMPLED , BUT ANALYSIS LOST OR NOT PERFORMED.
PMF	PROJECT MANAGER FLAG
PMR	PROJECT MANAGER REMARKS
Q	OUT OF HOLDING TIME
T	VALUE REPORTED IS LESS THAN THE LABORATORY METHOD DETECTION LIMIT.
U	INDICATES THAT THE COMPOUND WAS ANALYZED FOR BUT NOT DETECTED.
V	INDICATES THAT THE ANALYTE WAS DETECTED IN BOTH THE SAMPLE AND THE ASSOCIATED METHOD BLANK.
Y	THE LABORATORY ANALYSIS WAS FROM AN UNPRESERVED OR IMPROPERLY PRESERVED SAMPLE. THE DATA MAY NOT BE ACCURATE.
Z	TOO MANY COLONIES WERE PRESENT (TNTC), THE NUMERIC VALUE REPRESENTS THE FILTRATION VOLUME.

Query returned 28 records.

Main Menu | IWEB | XWEB | User's Guide | What's New | FAQ | Guest Book | Comments?

Sample ID	Collection_Date	Test Name	Flag	MDL	New Value	Units
S39SWA-Q1	3/7/2002 10:30	1,1,1-TRICHLOROETHANE		0.25	-0.25	ug/L
S39SWA-Q2	6/6/2002 12:00	1,1,1-TRICHLOROETHANE		0.25	-0.25	ug/L
S39SWA-Q3	9/10/2002 12:30	1,1,1-TRICHLOROETHANE		0.25	-0.25	ug/L
S39SWA-Q4	12/4/2002 12:00	1,1,1-TRICHLOROETHANE		0.25	-0.25	ug/L
S39SWB-Q1	3/6/2002 13:00	1,1,1-TRICHLOROETHANE		0.25	-0.25	ug/L
S39SWB-Q2	6/4/2002 12:40	1,1,1-TRICHLOROETHANE		0.25	-0.25	ug/L
S39SWB-Q3	9/11/2002 14:23	1,1,1-TRICHLOROETHANE		0.25	-0.25	ug/L
S39SWB-Q4	12/3/2002 11:30	1,1,1-TRICHLOROETHANE		0.25	-0.25	ug/L
S39SWD-Q1	3/5/2002 14:35	1,1,1-TRICHLOROETHANE		0.25	-0.25	ug/L
S39SWD-Q2	6/5/2002 11:30	1,1,1-TRICHLOROETHANE		0.25	-0.25	ug/L
S39SWD-Q3	9/9/2002 12:15	1,1,1-TRICHLOROETHANE		0.25	-0.25	ug/L
S39SWD-Q4	12/2/2002 11:45	1,1,1-TRICHLOROETHANE		0.25	-0.25	ug/L
S39SWA-Q1	3/7/2002 10:30	1,1,2,2-TETRACHLOROETHANE		0.39	-0.39	ug/L
S39SWA-Q2	6/6/2002 12:00	1,1,2,2-TETRACHLOROETHANE		0.39	-0.39	ug/L
S39SWA-Q3	9/10/2002 12:30	1,1,2,2-TETRACHLOROETHANE		0.39	-0.39	ug/L
S39SWA-Q4	12/4/2002 12:00	1,1,2,2-TETRACHLOROETHANE		0.39	-0.39	ug/L
S39SWB-Q1	3/6/2002 13:00	1,1,2,2-TETRACHLOROETHANE		0.39	-0.39	ug/L
S39SWB-Q2	6/4/2002 12:40	1,1,2,2-TETRACHLOROETHANE		0.39	-0.39	ug/L
S39SWB-Q3	9/11/2002 14:23	1,1,2,2-TETRACHLOROETHANE		0.39	-0.39	ug/L
S39SWB-Q4	12/3/2002 11:30	1,1,2,2-TETRACHLOROETHANE		0.39	-0.39	ug/L
S39SWD-Q1	3/5/2002 14:35	1,1,2,2-TETRACHLOROETHANE		0.39	-0.39	ug/L
S39SWD-Q2	6/5/2002 11:30	1,1,2,2-TETRACHLOROETHANE		0.39	-0.39	ug/L
S39SWD-Q3	9/9/2002 12:15	1,1,2,2-TETRACHLOROETHANE		0.39	-0.39	ug/L
S39SWD-Q4	12/2/2002 11:45	1,1,2,2-TETRACHLOROETHANE		0.39	-0.39	ug/L
S39SWA-Q1	3/7/2002 10:30	1,1,2-TRICHLOROETHANE		0.23	-0.23	ug/L
S39SWA-Q2	6/6/2002 12:00	1,1,2-TRICHLOROETHANE		0.23	-0.23	ug/L
S39SWA-Q3	9/10/2002 12:30	1,1,2-TRICHLOROETHANE		0.23	-0.23	ug/L
S39SWA-Q4	12/4/2002 12:00	1,1,2-TRICHLOROETHANE		0.23	-0.23	ug/L
S39SWB-Q1	3/6/2002 13:00	1,1,2-TRICHLOROETHANE		0.23	-0.23	ug/L
S39SWB-Q2	6/4/2002 12:40	1,1,2-TRICHLOROETHANE		0.23	-0.23	ug/L
S39SWB-Q3	9/11/2002 14:23	1,1,2-TRICHLOROETHANE		0.23	-0.23	ug/L
S39SWB-Q4	12/3/2002 11:30	1,1,2-TRICHLOROETHANE		0.23	-0.23	ug/L
S39SWD-Q1	3/5/2002 14:35	1,1,2-TRICHLOROETHANE		0.23	-0.23	ug/L
S39SWD-Q2	6/5/2002 11:30	1,1,2-TRICHLOROETHANE		0.23	-0.23	ug/L
S39SWD-Q3	9/9/2002 12:15	1,1,2-TRICHLOROETHANE		0.23	-0.23	ug/L
S39SWD-Q4	12/2/2002 11:45	1,1,2-TRICHLOROETHANE		0.23	-0.23	ug/L
S39SWA-Q1	3/7/2002 10:30	1,1-DICHLOROETHENE		0.21	-0.21	ug/L
S39SWA-Q2	6/6/2002 12:00	1,1-DICHLOROETHENE		0.21	-0.21	ug/L
S39SWA-Q3	9/10/2002 12:30	1,1-DICHLOROETHENE		0.21	-0.21	ug/L
S39SWA-Q4	12/4/2002 12:00	1,1-DICHLOROETHENE		0.21	-0.21	ug/L
S39SWB-Q1	3/6/2002 13:00	1,1-DICHLOROETHENE		0.21	-0.21	ug/L
S39SWB-Q2	6/4/2002 12:40	1,1-DICHLOROETHENE		0.21	-0.21	ug/L
S39SWB-Q3	9/11/2002 14:23	1,1-DICHLOROETHENE		0.21	-0.21	ug/L
S39SWB-Q4	12/3/2002 11:30	1,1-DICHLOROETHENE		0.21	-0.21	ug/L
S39SWD-Q1	3/5/2002 14:35	1,1-DICHLOROETHENE		0.21	-0.21	ug/L
S39SWD-Q2	6/5/2002 11:30	1,1-DICHLOROETHENE		0.21	-0.21	ug/L
S39SWD-Q3	9/9/2002 12:15	1,1-DICHLOROETHENE		0.21	-0.21	ug/L
S39SWD-Q4	12/2/2002 11:45	1,1-DICHLOROETHENE		0.21	-0.21	ug/L
S39SWA-Q1	3/7/2002 10:30	1,2,4-TRICHLOROBENZENE		0.37	-0.37	ug/L
S39SWA-Q2	6/6/2002 12:00	1,2,4-TRICHLOROBENZENE		0.37	-0.37	ug/L
S39SWA-Q3	9/10/2002 12:30	1,2,4-TRICHLOROBENZENE		0.37	-0.37	ug/L
S39SWA-Q4	12/4/2002 12:00	1,2,4-TRICHLOROBENZENE		0.37	-0.37	ug/L
S39SWB-Q1	3/6/2002 13:00	1,2,4-TRICHLOROBENZENE		0.37	-0.37	ug/L
S39SWB-Q2	6/4/2002 12:40	1,2,4-TRICHLOROBENZENE		0.37	-0.37	ug/L
S39SWB-Q3	9/11/2002 14:23	1,2,4-TRICHLOROBENZENE		0.37	-0.37	ug/L
S39SWB-Q4	12/3/2002 11:30	1,2,4-TRICHLOROBENZENE		0.37	-0.37	ug/L
S39SWD-Q1	3/5/2002 14:35	1,2,4-TRICHLOROBENZENE		0.37	-0.37	ug/L
S39SWD-Q2	6/5/2002 11:30	1,2,4-TRICHLOROBENZENE		0.37	-0.37	ug/L
S39SWD-Q3	9/9/2002 12:15	1,2,4-TRICHLOROBENZENE		0.37	-0.37	ug/L

Sample ID	Collection_Date	Test Name	Flag	MDL	New Value	Units
S39SWD-Q4	12/2/2002 11:45	1,2,4-TRICHLOROBENZENE		0.37	-0.37	ug/L
S39SWA-Q1	3/7/2002 10:30	1,2-DIBROMOETHANE		0.0024	-0.0024	UG/L
S39SWA-Q2	6/6/2002 12:00	1,2-DIBROMOETHANE		0.0024	-0.0024	UG/L
S39SWA-Q3	9/10/2002 12:30	1,2-DIBROMOETHANE		0.0023	-0.0023	UG/L
S39SWA-Q4	12/4/2002 12:00	1,2-DIBROMOETHANE		0.0049	-0.0049	UG/L
S39SWB-Q1	3/6/2002 13:00	1,2-DIBROMOETHANE		0.0024	-0.0024	UG/L
S39SWB-Q2	6/4/2002 12:40	1,2-DIBROMOETHANE		0.0023	-0.0023	UG/L
S39SWB-Q3	9/11/2002 14:23	1,2-DIBROMOETHANE		0.0024	-0.0024	UG/L
S39SWB-Q4	12/3/2002 11:30	1,2-DIBROMOETHANE		0.0047	-0.0047	UG/L
S39SWD-Q1	3/5/2002 14:35	1,2-DIBROMOETHANE		0.0024	-0.0024	UG/L
S39SWD-Q2	6/5/2002 11:30	1,2-DIBROMOETHANE		0.0024	0.1	UG/L
S39SWD-Q3	9/9/2002 12:15	1,2-DIBROMOETHANE		0.0024	-0.0024	UG/L
S39SWD-Q4	12/2/2002 11:45	1,2-DIBROMOETHANE		0.0048	-0.0048	UG/L
S39SWA-Q1	3/7/2002 10:30	1,2-DICHLOROBENZENE		0.35	-0.35	ug/L
S39SWA-Q2	6/6/2002 12:00	1,2-DICHLOROBENZENE		0.35	-0.35	ug/L
S39SWA-Q3	9/10/2002 12:30	1,2-DICHLOROBENZENE		0.35	-0.35	ug/L
S39SWA-Q4	12/4/2002 12:00	1,2-DICHLOROBENZENE		0.35	-0.35	ug/L
S39SWB-Q1	3/6/2002 13:00	1,2-DICHLOROBENZENE		0.35	-0.35	ug/L
S39SWB-Q2	6/4/2002 12:40	1,2-DICHLOROBENZENE		0.35	-0.35	ug/L
S39SWB-Q3	9/11/2002 14:23	1,2-DICHLOROBENZENE		0.35	-0.35	ug/L
S39SWB-Q4	12/3/2002 11:30	1,2-DICHLOROBENZENE		0.35	-0.35	ug/L
S39SWD-Q1	3/5/2002 14:35	1,2-DICHLOROBENZENE		0.35	-0.35	ug/L
S39SWD-Q2	6/5/2002 11:30	1,2-DICHLOROBENZENE		0.35	-0.35	ug/L
S39SWD-Q3	9/9/2002 12:15	1,2-DICHLOROBENZENE		0.35	-0.35	ug/L
S39SWD-Q4	12/2/2002 11:45	1,2-DICHLOROBENZENE		0.35	-0.35	ug/L
S39SWA-Q1	3/7/2002 10:30	1,2-DICHLOROETHANE		0.45	-0.45	ug/L
S39SWA-Q2	6/6/2002 12:00	1,2-DICHLOROETHANE		0.45	-0.45	ug/L
S39SWA-Q3	9/10/2002 12:30	1,2-DICHLOROETHANE		0.45	-0.45	ug/L
S39SWA-Q4	12/4/2002 12:00	1,2-DICHLOROETHANE		0.45	-0.45	ug/L
S39SWB-Q1	3/6/2002 13:00	1,2-DICHLOROETHANE		0.45	-0.45	ug/L
S39SWB-Q2	6/4/2002 12:40	1,2-DICHLOROETHANE		0.45	-0.45	ug/L
S39SWB-Q3	9/11/2002 14:23	1,2-DICHLOROETHANE		0.45	-0.45	ug/L
S39SWB-Q4	12/3/2002 11:30	1,2-DICHLOROETHANE		0.45	-0.45	ug/L
S39SWD-Q1	3/5/2002 14:35	1,2-DICHLOROETHANE		0.45	-0.45	ug/L
S39SWD-Q2	6/5/2002 11:30	1,2-DICHLOROETHANE		0.45	-0.45	ug/L
S39SWD-Q3	9/9/2002 12:15	1,2-DICHLOROETHANE		0.45	-0.45	ug/L
S39SWD-Q4	12/2/2002 11:45	1,2-DICHLOROETHANE		0.45	-0.45	ug/L
S39SWA-Q1	3/7/2002 10:30	1,2-DICHLOROPROPANE		0.23	-0.23	ug/L
S39SWA-Q2	6/6/2002 12:00	1,2-DICHLOROPROPANE		0.23	-0.23	ug/L
S39SWA-Q3	9/10/2002 12:30	1,2-DICHLOROPROPANE		0.23	-0.23	ug/L
S39SWA-Q4	12/4/2002 12:00	1,2-DICHLOROPROPANE		0.23	-0.23	ug/L
S39SWB-Q1	3/6/2002 13:00	1,2-DICHLOROPROPANE		0.23	-0.23	ug/L
S39SWB-Q2	6/4/2002 12:40	1,2-DICHLOROPROPANE		0.23	-0.23	ug/L
S39SWB-Q3	9/11/2002 14:23	1,2-DICHLOROPROPANE		0.23	-0.23	ug/L
S39SWB-Q4	12/3/2002 11:30	1,2-DICHLOROPROPANE		0.23	-0.23	ug/L
S39SWD-Q1	3/5/2002 14:35	1,2-DICHLOROPROPANE		0.23	-0.23	ug/L
S39SWD-Q2	6/5/2002 11:30	1,2-DICHLOROPROPANE		0.23	-0.23	ug/L
S39SWD-Q3	9/9/2002 12:15	1,2-DICHLOROPROPANE		0.23	-0.23	ug/L
S39SWD-Q4	12/2/2002 11:45	1,2-DICHLOROPROPANE		0.23	-0.23	ug/L
S39SWA-Q1	3/7/2002 10:30	1,4-DICHLOROBENZENE		0.28	-0.28	ug/L
S39SWA-Q2	6/6/2002 12:00	1,4-DICHLOROBENZENE		0.28	-0.28	ug/L
S39SWA-Q3	9/10/2002 12:30	1,4-DICHLOROBENZENE		0.28	-0.28	ug/L
S39SWA-Q4	12/4/2002 12:00	1,4-DICHLOROBENZENE		0.28	-0.28	ug/L
S39SWB-Q1	3/6/2002 13:00	1,4-DICHLOROBENZENE		0.28	-0.28	ug/L
S39SWB-Q2	6/4/2002 12:40	1,4-DICHLOROBENZENE		0.28	-0.28	ug/L
S39SWB-Q3	9/11/2002 14:23	1,4-DICHLOROBENZENE		0.28	-0.28	ug/L
S39SWB-Q4	12/3/2002 11:30	1,4-DICHLOROBENZENE		0.28	-0.28	ug/L
S39SWD-Q1	3/5/2002 14:35	1,4-DICHLOROBENZENE		0.28	-0.28	ug/L
S39SWD-Q2	6/5/2002 11:30	1,4-DICHLOROBENZENE		0.28	-0.28	ug/L

Sample ID	Collection_Date	Test Name	Flag	MDL	New Value	Units
S39SWD-Q3	9/9/2002 12:15	1,4-DICHLOROBENZENE		0.28	-0.28	ug/L
S39SWD-Q4	12/2/2002 11:45	1,4-DICHLOROBENZENE		0.28	-0.28	ug/L
S39SWA-Q1	3/7/2002 10:30	112TRICHLORO-122TRIFLUOR	?	3	-3	UG/L
S39SWA-Q2	6/6/2002 12:00	112TRICHLORO-122TRIFLUOR	?	0	0	UG/L
S39SWA-Q3	9/10/2002 12:30	112TRICHLORO-122TRIFLUOR	?	1.7	1.7	UG/L
S39SWA-Q4	12/4/2002 12:00	112TRICHLORO-122TRIFLUOR	?	1.7	1.7	UG/L
S39SWB-Q1	3/6/2002 13:00	112TRICHLORO-122TRIFLUOR	?	3	-3	UG/L
S39SWB-Q2	6/4/2002 12:40	112TRICHLORO-122TRIFLUOR	?	0	0	UG/L
S39SWB-Q3	9/11/2002 14:23	112TRICHLORO-122TRIFLUOR	?	1.7	1.7	UG/L
S39SWB-Q4	12/3/2002 11:30	112TRICHLORO-122TRIFLUOR	?	1.7	1.7	UG/L
S39SWD-Q1	3/5/2002 14:35	112TRICHLORO-122TRIFLUOR	?	3	-3	UG/L
S39SWD-Q2	6/5/2002 11:30	112TRICHLORO-122TRIFLUOR	?	0	0	UG/L
S39SWD-Q3	9/9/2002 12:15	112TRICHLORO-122TRIFLUOR	?	1.7	1.7	UG/L
S39SWD-Q4	12/2/2002 11:45	112TRICHLORO-122TRIFLUOR	?	1.7	1.7	UG/L
S39SWA-Q1	3/7/2002 10:30	2,4,5-TP		0.41	-0.41	ug/L
S39SWA-Q2	6/6/2002 12:00	2,4,5-TP		0.41	-0.41	ug/L
S39SWA-Q3	9/10/2002 12:30	2,4,5-TP		0.41	-0.41	ug/L
S39SWA-Q4	12/4/2002 12:00	2,4,5-TP		0.41	-0.41	ug/L
S39SWB-Q1	3/6/2002 13:00	2,4,5-TP		0.41	-0.41	ug/L
S39SWB-Q2	6/4/2002 12:40	2,4,5-TP		0.41	-0.41	ug/L
S39SWB-Q3	9/11/2002 14:23	2,4,5-TP		0.41	-0.41	ug/L
S39SWB-Q4	12/3/2002 11:30	2,4,5-TP		0.41	-0.41	ug/L
S39SWD-Q1	3/5/2002 14:35	2,4,5-TP		0.41	-0.41	ug/L
S39SWD-Q2	6/5/2002 11:30	2,4,5-TP		0.41	-0.41	ug/L
S39SWD-Q3	9/9/2002 12:15	2,4,5-TP		0.41	-0.41	ug/L
S39SWD-Q4	12/2/2002 11:45	2,4,5-TP		0.41	-0.41	ug/L
S39SWA-Q1	3/7/2002 10:30	2,4,6-TRICHLOROPHENOL	?	2.9	-2.9	ug/L
S39SWA-Q2	6/6/2002 12:00	2,4,6-TRICHLOROPHENOL		0.25	-0.25	ug/L
S39SWA-Q3	9/10/2002 12:30	2,4,6-TRICHLOROPHENOL	J4	0.24	-0.24	ug/L
S39SWA-Q4	12/4/2002 12:00	2,4,6-TRICHLOROPHENOL	J4	0.24	-0.24	ug/L
S39SWB-Q1	3/6/2002 13:00	2,4,6-TRICHLOROPHENOL	?	2.9	-2.9	ug/L
S39SWB-Q2	6/4/2002 12:40	2,4,6-TRICHLOROPHENOL		0.26	-0.26	ug/L
S39SWB-Q3	9/11/2002 14:23	2,4,6-TRICHLOROPHENOL	J4	0.24	-0.24	ug/L
S39SWB-Q4	12/3/2002 11:30	2,4,6-TRICHLOROPHENOL	J4	0.24	-0.24	ug/L
S39SWD-Q1	3/5/2002 14:35	2,4,6-TRICHLOROPHENOL	?	2.9	-2.9	ug/L
S39SWD-Q2	6/5/2002 11:30	2,4,6-TRICHLOROPHENOL		0.26	-0.26	ug/L
S39SWD-Q3	9/9/2002 12:15	2,4,6-TRICHLOROPHENOL	J4	0.24	-0.24	ug/L
S39SWD-Q4	12/2/2002 11:45	2,4,6-TRICHLOROPHENOL	J4	0.24	-0.24	ug/L
S39SWA-Q1	3/7/2002 10:30	2,4-D		0.53	-0.53	ug/L
S39SWA-Q2	6/6/2002 12:00	2,4-D		0.53	-0.53	ug/L
S39SWA-Q3	9/10/2002 12:30	2,4-D		0.53	-0.53	ug/L
S39SWA-Q4	12/4/2002 12:00	2,4-D		0.53	-0.53	ug/L
S39SWB-Q1	3/6/2002 13:00	2,4-D		0.53	-0.53	ug/L
S39SWB-Q2	6/4/2002 12:40	2,4-D		0.53	-0.53	ug/L
S39SWB-Q3	9/11/2002 14:23	2,4-D		0.53	-0.53	ug/L
S39SWB-Q4	12/3/2002 11:30	2,4-D		0.53	-0.53	ug/L
S39SWD-Q1	3/5/2002 14:35	2,4-D		0.53	-0.53	ug/L
S39SWD-Q2	6/5/2002 11:30	2,4-D		0.53	-0.53	ug/L
S39SWD-Q3	9/9/2002 12:15	2,4-D		0.53	-0.53	ug/L
S39SWD-Q4	12/2/2002 11:45	2,4-D		0.53	-0.53	ug/L
S39SWA-Q1	3/7/2002 10:30	2,4-DICHLOROPHENOL	?	2.9	-2.9	ug/L
S39SWA-Q2	6/6/2002 12:00	2,4-DICHLOROPHENOL		0.42	-0.42	ug/L
S39SWA-Q3	9/10/2002 12:30	2,4-DICHLOROPHENOL	J4	0.4	-0.4	ug/L
S39SWA-Q4	12/4/2002 12:00	2,4-DICHLOROPHENOL	J4	0.4	-0.4	ug/L
S39SWB-Q1	3/6/2002 13:00	2,4-DICHLOROPHENOL	?	2.9	-2.9	ug/L
S39SWB-Q2	6/4/2002 12:40	2,4-DICHLOROPHENOL		0.42	-0.42	ug/L
S39SWB-Q3	9/11/2002 14:23	2,4-DICHLOROPHENOL	J4	0.4	-0.4	ug/L
S39SWB-Q4	12/3/2002 11:30	2,4-DICHLOROPHENOL	J4	0.4	-0.4	ug/L
S39SWD-Q1	3/5/2002 14:35	2,4-DICHLOROPHENOL	?	2.9	-2.9	ug/L

Sample ID	Collection_Date	Test Name	Flag	MDL	New Value	Units
S39SWD-Q2	6/5/2002 11:30	2,4-DICHLOROPHENOL		0.43	-0.43	ug/L
S39SWD-Q3	9/9/2002 12:15	2,4-DICHLOROPHENOL	J4	0.4	-0.4	ug/L
S39SWD-Q4	12/2/2002 11:45	2,4-DICHLOROPHENOL	J4	0.4	-0.4	ug/L
S39SWA-Q1	3/7/2002 10:30	2,4-DINITROPHENOL	?	2.9	-2.9	ug/L
S39SWA-Q2	6/6/2002 12:00	2,4-DINITROPHENOL		0.44	-0.44	ug/L
S39SWA-Q3	9/10/2002 12:30	2,4-DINITROPHENOL	J4	0.42	-0.42	ug/L
S39SWA-Q4	12/4/2002 12:00	2,4-DINITROPHENOL	J4	0.41	-0.41	ug/L
S39SWB-Q1	3/6/2002 13:00	2,4-DINITROPHENOL	?	2.9	-2.9	ug/L
S39SWB-Q2	6/4/2002 12:40	2,4-DINITROPHENOL		0.44	-0.44	ug/L
S39SWB-Q3	9/11/2002 14:23	2,4-DINITROPHENOL	J4	0.41	-0.41	ug/L
S39SWB-Q4	12/3/2002 11:30	2,4-DINITROPHENOL	J4	0.41	-0.41	ug/L
S39SWD-Q1	3/5/2002 14:35	2,4-DINITROPHENOL	?	2.9	-2.9	ug/L
S39SWD-Q2	6/5/2002 11:30	2,4-DINITROPHENOL		0.44	-0.44	ug/L
S39SWD-Q3	9/9/2002 12:15	2,4-DINITROPHENOL	J4	0.42	-0.42	ug/L
S39SWD-Q4	12/2/2002 11:45	2,4-DINITROPHENOL	J4	0.42	-0.42	ug/L
S39SWA-Q1	3/7/2002 10:30	2,4-DINITROTOLUENE	?	2.9	-2.9	ug/L
S39SWA-Q2	6/6/2002 12:00	2,4-DINITROTOLUENE		0.13	-0.13	ug/L
S39SWA-Q3	9/10/2002 12:30	2,4-DINITROTOLUENE	J4	0.12	-0.12	ug/L
S39SWA-Q4	12/4/2002 12:00	2,4-DINITROTOLUENE	J4	0.12	-0.12	ug/L
S39SWB-Q1	3/6/2002 13:00	2,4-DINITROTOLUENE	?	2.9	-2.9	ug/L
S39SWB-Q2	6/4/2002 12:40	2,4-DINITROTOLUENE		0.13	-0.13	ug/L
S39SWB-Q3	9/11/2002 14:23	2,4-DINITROTOLUENE	J4	0.12	-0.12	ug/L
S39SWB-Q4	12/3/2002 11:30	2,4-DINITROTOLUENE	J4	0.12	-0.12	ug/L
S39SWD-Q1	3/5/2002 14:35	2,4-DINITROTOLUENE	?	2.9	-2.9	ug/L
S39SWD-Q2	6/5/2002 11:30	2,4-DINITROTOLUENE		0.13	-0.13	ug/L
S39SWD-Q3	9/9/2002 12:15	2,4-DINITROTOLUENE	J4	0.12	-0.12	ug/L
S39SWD-Q4	12/2/2002 11:45	2,4-DINITROTOLUENE	J4	0.12	-0.12	ug/L
S39SWA-Q1	3/7/2002 10:30	2-CHLOROPHENOL	?	2.9	-2.9	ug/L
S39SWA-Q2	6/6/2002 12:00	2-CHLOROPHENOL		0.17	-0.17	ug/L
S39SWA-Q3	9/10/2002 12:30	2-CHLOROPHENOL	J4	0.16	-0.16	ug/L
S39SWA-Q4	12/4/2002 12:00	2-CHLOROPHENOL	J4	0.16	-0.16	ug/L
S39SWB-Q1	3/6/2002 13:00	2-CHLOROPHENOL	?	2.9	-2.9	ug/L
S39SWB-Q2	6/4/2002 12:40	2-CHLOROPHENOL		0.17	-0.17	ug/L
S39SWB-Q3	9/11/2002 14:23	2-CHLOROPHENOL	J4	0.16	-0.16	ug/L
S39SWB-Q4	12/3/2002 11:30	2-CHLOROPHENOL	J4	0.16	-0.16	ug/L
S39SWD-Q1	3/5/2002 14:35	2-CHLOROPHENOL	?	2.9	-2.9	ug/L
S39SWD-Q2	6/5/2002 11:30	2-CHLOROPHENOL		0.18	-0.18	ug/L
S39SWD-Q3	9/9/2002 12:15	2-CHLOROPHENOL	J4	0.16	-0.16	ug/L
S39SWD-Q4	12/2/2002 11:45	2-CHLOROPHENOL	J4	0.16	-0.16	ug/L
S39SWA-Q1	3/7/2002 10:30	ACENAPHTHENE	?	2.9	-2.9	ug/L
S39SWA-Q2	6/6/2002 12:00	ACENAPHTHENE		0.088	-0.088	ug/L
S39SWA-Q3	9/10/2002 12:30	ACENAPHTHENE	J4	0.083	-0.083	ug/L
S39SWA-Q4	12/4/2002 12:00	ACENAPHTHENE	J4	0.083	-0.083	ug/L
S39SWB-Q1	3/6/2002 13:00	ACENAPHTHENE	?	2.9	-2.9	ug/L
S39SWB-Q2	6/4/2002 12:40	ACENAPHTHENE		0.088	-0.088	ug/L
S39SWB-Q3	9/11/2002 14:23	ACENAPHTHENE	J4	0.083	-0.083	ug/L
S39SWB-Q4	12/3/2002 11:30	ACENAPHTHENE	J4	0.083	-0.083	ug/L
S39SWD-Q1	3/5/2002 14:35	ACENAPHTHENE	?	2.9	-2.9	ug/L
S39SWD-Q2	6/5/2002 11:30	ACENAPHTHENE		0.089	-0.089	ug/L
S39SWD-Q3	9/9/2002 12:15	ACENAPHTHENE	J4	0.083	-0.083	ug/L
S39SWD-Q4	12/2/2002 11:45	ACENAPHTHENE	J4	0.083	-0.083	ug/L
S39SWA-Q1	3/7/2002 10:30	ALACHLOR		0.61	-0.61	ug/L
S39SWA-Q2	6/6/2002 12:00	ALACHLOR		0.62	-0.62	ug/L
S39SWA-Q3	9/10/2002 12:30	ALACHLOR	J4	0.59	-0.59	ug/L
S39SWA-Q4	12/4/2002 12:00	ALACHLOR	J4	0.59	-0.59	ug/L
S39SWB-Q1	3/6/2002 13:00	ALACHLOR		0.6	-0.6	ug/L
S39SWB-Q2	6/4/2002 12:40	ALACHLOR		0.63	-0.63	ug/L
S39SWB-Q3	9/11/2002 14:23	ALACHLOR	J4	0.59	-0.59	ug/L
S39SWB-Q4	12/3/2002 11:30	ALACHLOR	J4	0.59	-0.59	ug/L

Sample ID	Collection_Date	Test Name	Flag	MDL	New Value	Units
S39SWD-Q1	3/5/2002 14:35	ALACHLOR		0.6	-0.6	ug/L
S39SWD-Q2	6/5/2002 11:30	ALACHLOR		0.63	-0.63	ug/L
S39SWD-Q3	9/9/2002 12:15	ALACHLOR	J4	0.59	-0.59	ug/L
S39SWD-Q4	12/2/2002 11:45	ALACHLOR	J4	0.59	-0.59	ug/L
S39SWA-Q1	3/7/2002 10:30	ALDRIN	Q	0.0097	-0.0097	ug/L
S39SWA-Q2	6/6/2002 12:00	ALDRIN	Q	0.079	-0.079	ug/L
S39SWA-Q3	9/10/2002 12:30	ALDRIN		0.089	-0.089	ug/L
S39SWA-Q4	12/4/2002 12:00	ALDRIN	J3	0.086	-0.086	ug/L
S39SWB-Q1	3/6/2002 13:00	ALDRIN	Q	0.0099	-0.0099	ug/L
S39SWB-Q2	6/4/2002 12:40	ALDRIN	Q	0.08	-0.08	ug/L
S39SWB-Q3	9/11/2002 14:23	ALDRIN		0.09	-0.09	ug/L
S39SWB-Q4	12/3/2002 11:30	ALDRIN	J3	0.09	-0.09	ug/L
S39SWD-Q1	3/5/2002 14:35	ALDRIN	Q	0.01	-0.01	ug/L
S39SWD-Q2	6/5/2002 11:30	ALDRIN	Q	0.079	-0.079	ug/L
S39SWD-Q3	9/9/2002 12:15	ALDRIN		0.086	-0.086	ug/L
S39SWD-Q4	12/2/2002 11:45	ALDRIN	J3	0.089	-0.089	ug/L
S39SWA-Q1	3/7/2002 10:30	ALKALINITY, BICARB, CACO3			48	MG/L CAC
S39SWA-Q2	6/6/2002 12:00	ALKALINITY, BICARB, CACO3			160	MG/L CAC
S39SWA-Q3	9/10/2002 12:30	ALKALINITY, BICARB, CACO3			260	MG/L CAC
S39SWA-Q4	12/4/2002 12:00	ALKALINITY, BICARB, CACO3			180	MG/L CAC
S39SWB-Q1	3/6/2002 13:00	ALKALINITY, BICARB, CACO3			110	MG/L CAC
S39SWB-Q2	6/4/2002 12:40	ALKALINITY, BICARB, CACO3			160	MG/L CAC
S39SWB-Q3	9/11/2002 14:23	ALKALINITY, BICARB, CACO3			250	MG/L CAC
S39SWB-Q4	12/3/2002 11:30	ALKALINITY, BICARB, CACO3			220	MG/L CAC
S39SWD-Q1	3/5/2002 14:35	ALKALINITY, BICARB, CACO3			120	MG/L CAC
S39SWD-Q2	6/5/2002 11:30	ALKALINITY, BICARB, CACO3			150	MG/L CAC
S39SWD-Q3	9/9/2002 12:15	ALKALINITY, BICARB, CACO3			260	MG/L CAC
S39SWD-Q4	12/2/2002 11:45	ALKALINITY, BICARB, CACO3			230	MG/L CAC
S39SWA-Q1	3/7/2002 10:30	ALKALINITY, CARB, CACO3			-1	MG/L CAC
S39SWA-Q2	6/6/2002 12:00	ALKALINITY, CARB, CACO3			2	MG/L CAC
S39SWA-Q3	9/10/2002 12:30	ALKALINITY, CARB, CACO3			2	MG/L CAC
S39SWA-Q4	12/4/2002 12:00	ALKALINITY, CARB, CACO3			2	MG/L CAC
S39SWB-Q1	3/6/2002 13:00	ALKALINITY, CARB, CACO3			-1	MG/L CAC
S39SWB-Q2	6/4/2002 12:40	ALKALINITY, CARB, CACO3			2	MG/L CAC
S39SWB-Q3	9/11/2002 14:23	ALKALINITY, CARB, CACO3			2	MG/L CAC
S39SWB-Q4	12/3/2002 11:30	ALKALINITY, CARB, CACO3			1	MG/L CAC
S39SWD-Q1	3/5/2002 14:35	ALKALINITY, CARB, CACO3			-1	MG/L CAC
S39SWD-Q2	6/5/2002 11:30	ALKALINITY, CARB, CACO3			2	MG/L CAC
S39SWD-Q3	9/9/2002 12:15	ALKALINITY, CARB, CACO3			2	MG/L CAC
S39SWD-Q4	12/2/2002 11:45	ALKALINITY, CARB, CACO3			2	MG/L CAC
S39SWA-Q1	3/7/2002 10:30	ALKALINITY, TOT, CACO3		0.4	48	mg/L
S39SWA-Q2	6/6/2002 12:00	ALKALINITY, TOT, CACO3		0.4	160	mg/L
S39SWA-Q3	9/10/2002 12:30	ALKALINITY, TOT, CACO3		0.4	260	mg/L
S39SWA-Q4	12/4/2002 12:00	ALKALINITY, TOT, CACO3		0.4	190	mg/L
S39SWB-Q1	3/6/2002 13:00	ALKALINITY, TOT, CACO3		0.4	110	mg/L
S39SWB-Q2	6/4/2002 12:40	ALKALINITY, TOT, CACO3		0.4	160	mg/L
S39SWB-Q3	9/11/2002 14:23	ALKALINITY, TOT, CACO3		0.4	250	mg/L
S39SWB-Q4	12/3/2002 11:30	ALKALINITY, TOT, CACO3		0.4	220	mg/L
S39SWD-Q1	3/5/2002 14:35	ALKALINITY, TOT, CACO3		0.4	120	mg/L
S39SWD-Q2	6/5/2002 11:30	ALKALINITY, TOT, CACO3		0.4	150	mg/L
S39SWD-Q3	9/9/2002 12:15	ALKALINITY, TOT, CACO3		0.4	260	mg/L
S39SWD-Q4	12/2/2002 11:45	ALKALINITY, TOT, CACO3		0.4	230	mg/L
S39SWA-Q1	3/7/2002 10:30	ALUMINUM, TOTAL		20	-50	ug/L
S39SWA-Q2	6/6/2002 12:00	ALUMINUM, TOTAL		10	70	ug/L
S39SWA-Q3	9/10/2002 12:30	ALUMINUM, TOTAL		20	50	ug/L
S39SWA-Q4	12/4/2002 12:00	ALUMINUM, TOTAL		20	-20	ug/L
S39SWB-Q1	3/6/2002 13:00	ALUMINUM, TOTAL		20	-50	ug/L
S39SWB-Q2	6/4/2002 12:40	ALUMINUM, TOTAL		10	20	ug/L
S39SWB-Q3	9/11/2002 14:23	ALUMINUM, TOTAL		20	50	ug/L

Sample ID	Collection_Date	Test Name	Flag	MDL	New Value	Units
S39SWB-Q4	12/3/2002 11:30	ALUMINUM, TOTAL		20	-20	ug/L
S39SWD-Q1	3/5/2002 14:35	ALUMINUM, TOTAL		20	-50	ug/L
S39SWD-Q2	6/5/2002 11:30	ALUMINUM, TOTAL		10	50	ug/L
S39SWD-Q3	9/9/2002 12:15	ALUMINUM, TOTAL		20	70	ug/L
S39SWD-Q4	12/2/2002 11:45	ALUMINUM, TOTAL		20	-20	ug/L
S39SWA-Q1	3/7/2002 10:30	AMETRYN	?	2.9	-2.9	ug/L
S39SWA-Q2	6/6/2002 12:00	AMETRYN		0.089	-0.089	ug/L
S39SWA-Q3	9/10/2002 12:30	AMETRYN	J4	0.084	-0.084	ug/L
S39SWA-Q4	12/4/2002 12:00	AMETRYN	J4	0.084	-0.084	ug/L
S39SWB-Q1	3/6/2002 13:00	AMETRYN	?	2.9	-2.9	ug/L
S39SWB-Q2	6/4/2002 12:40	AMETRYN		0.089	-0.089	ug/L
S39SWB-Q3	9/11/2002 14:23	AMETRYN	J4	0.084	-0.084	ug/L
S39SWB-Q4	12/3/2002 11:30	AMETRYN	J4	0.083	-0.083	ug/L
S39SWD-Q1	3/5/2002 14:35	AMETRYN	?	2.9	-2.9	ug/L
S39SWD-Q2	6/5/2002 11:30	AMETRYN		0.09	-0.09	ug/L
S39SWD-Q3	9/9/2002 12:15	AMETRYN	J4	0.084	-0.084	ug/L
S39SWD-Q4	12/2/2002 11:45	AMETRYN	J4	0.084	-0.084	ug/L
S39SWA-Q1	3/7/2002 10:30	AMMONIA, TOTAL AS N	J3	0.015	0.023	MG/L
S39SWA-Q2	6/6/2002 12:00	AMMONIA, TOTAL AS N	J4	0.015	0.042	MG/L
S39SWA-Q3	9/10/2002 12:30	AMMONIA, TOTAL AS N	V	0.015	0.025	MG/L
S39SWA-Q4	12/4/2002 12:00	AMMONIA, TOTAL AS N	V	0.015	0.45	MG/L
S39SWB-Q1	3/6/2002 13:00	AMMONIA, TOTAL AS N	J3	0.015	0.027	MG/L
S39SWB-Q2	6/4/2002 12:40	AMMONIA, TOTAL AS N	J4	0.015	0.038	MG/L
S39SWB-Q3	9/11/2002 14:23	AMMONIA, TOTAL AS N	V	0.015	0.023	MG/L
S39SWB-Q4	12/3/2002 11:30	AMMONIA, TOTAL AS N	V	0.015	0.23	MG/L
S39SWD-Q1	3/5/2002 14:35	AMMONIA, TOTAL AS N	J3	0.015	0.045	MG/L
S39SWD-Q2	6/5/2002 11:30	AMMONIA, TOTAL AS N		0.015	0.062	MG/L
S39SWD-Q3	9/9/2002 12:15	AMMONIA, TOTAL AS N	V	0.015	0.11	MG/L
S39SWD-Q4	12/2/2002 11:45	AMMONIA, TOTAL AS N	V	0.015	0.13	MG/L
S39SWA-Q1	3/7/2002 10:30	ANTHRACENE	?	2.9	-2.9	ug/L
S39SWA-Q2	6/6/2002 12:00	ANTHRACENE		0.074	-0.074	ug/L
S39SWA-Q3	9/10/2002 12:30	ANTHRACENE	J4	0.071	-0.071	ug/L
S39SWA-Q4	12/4/2002 12:00	ANTHRACENE	J4	0.07	-0.07	ug/L
S39SWB-Q1	3/6/2002 13:00	ANTHRACENE	?	2.9	-2.9	ug/L
S39SWB-Q2	6/4/2002 12:40	ANTHRACENE		0.075	-0.075	ug/L
S39SWB-Q3	9/11/2002 14:23	ANTHRACENE	J4	0.071	-0.071	ug/L
S39SWB-Q4	12/3/2002 11:30	ANTHRACENE	J4	0.07	-0.07	ug/L
S39SWD-Q1	3/5/2002 14:35	ANTHRACENE	?	2.9	-2.9	ug/L
S39SWD-Q2	6/5/2002 11:30	ANTHRACENE		0.076	-0.076	ug/L
S39SWD-Q3	9/9/2002 12:15	ANTHRACENE	J4	0.071	-0.071	ug/L
S39SWD-Q4	12/2/2002 11:45	ANTHRACENE	J4	0.071	-0.071	ug/L
S39SWA-Q1	3/7/2002 10:30	ANTIMONY, TOTAL		4	-5	ug/L
S39SWA-Q2	6/6/2002 12:00	ANTIMONY, TOTAL		2	-3	ug/L
S39SWA-Q3	9/10/2002 12:30	ANTIMONY, TOTAL		4	5	ug/L
S39SWA-Q4	12/4/2002 12:00	ANTIMONY, TOTAL		4	-4	ug/L
S39SWB-Q1	3/6/2002 13:00	ANTIMONY, TOTAL		4	-5	ug/L
S39SWB-Q2	6/4/2002 12:40	ANTIMONY, TOTAL		2	-3	ug/L
S39SWB-Q3	9/11/2002 14:23	ANTIMONY, TOTAL		4	5	ug/L
S39SWB-Q4	12/3/2002 11:30	ANTIMONY, TOTAL		4	-4	ug/L
S39SWD-Q1	3/5/2002 14:35	ANTIMONY, TOTAL		4	-5	ug/L
S39SWD-Q2	6/5/2002 11:30	ANTIMONY, TOTAL		2	-3	ug/L
S39SWD-Q3	9/9/2002 12:15	ANTIMONY, TOTAL		4	5	ug/L
S39SWD-Q4	12/2/2002 11:45	ANTIMONY, TOTAL		4	-4	ug/L
S39SWA-Q1	3/7/2002 10:30	ARSENIC, TOTAL		3.2	-5	ug/L
S39SWA-Q2	6/6/2002 12:00	ARSENIC, TOTAL		1.6	1.8	ug/L
S39SWA-Q3	9/10/2002 12:30	ARSENIC, TOTAL		3.2	5	ug/L
S39SWA-Q4	12/4/2002 12:00	ARSENIC, TOTAL		3.2	5.6	ug/L
S39SWB-Q1	3/6/2002 13:00	ARSENIC, TOTAL		3.2	-5	ug/L
S39SWB-Q2	6/4/2002 12:40	ARSENIC, TOTAL		1.6	1.8	ug/L

Sample ID	Collection_Date	Test Name	Flag	MDL	New Value	Units
S39SWB-Q3	9/11/2002 14:23	ARSENIC, TOTAL		3.2	5	ug/L
S39SWB-Q4	12/3/2002 11:30	ARSENIC, TOTAL		3.2	5.4	ug/L
S39SWD-Q1	3/5/2002 14:35	ARSENIC, TOTAL		3.2	-5	ug/L
S39SWD-Q2	6/5/2002 11:30	ARSENIC, TOTAL		1.6	-2.5	ug/L
S39SWD-Q3	9/9/2002 12:15	ARSENIC, TOTAL		3.2	5	ug/L
S39SWD-Q4	12/2/2002 11:45	ARSENIC, TOTAL		3.2	5	ug/L
S39SWA-Q1	3/7/2002 10:30	ASBESTOS		0.31	-0.31	MF/L
S39SWA-Q2	6/6/2002 12:00	ASBESTOS	Q	0.31	-0.31	MF/L
S39SWA-Q3	9/10/2002 12:30	ASBESTOS	J5	0.31	-0.31	MF/L
S39SWA-Q4	12/4/2002 12:00	ASBESTOS	Q	0.25	-0.25	MF/L
S39SWB-Q1	3/6/2002 13:00	ASBESTOS		0.31	-0.31	MF/L
S39SWB-Q2	6/4/2002 12:40	ASBESTOS		0.31	-0.31	MF/L
S39SWB-Q3	9/11/2002 14:23	ASBESTOS	J5	0.31	-0.31	MF/L
S39SWB-Q4	12/3/2002 11:30	ASBESTOS	J5	0.31	-0.31	MF/L
S39SWD-Q1	3/5/2002 14:35	ASBESTOS		0.31	-0.31	MF/L
S39SWD-Q2	6/5/2002 11:30	ASBESTOS	Q	0.31	-0.31	MF/L
S39SWD-Q3	9/9/2002 12:15	ASBESTOS	J5	0.31	-0.31	MF/L
S39SWD-Q4	12/2/2002 11:45	ASBESTOS	J5	0.13	-0.13	MF/L
S39SWA-Q1	3/7/2002 10:30	ATRAZINE		0.48	-0.48	ug/L
S39SWA-Q2	6/6/2002 12:00	ATRAZINE		0.49	-0.49	ug/L
S39SWA-Q3	9/10/2002 12:30	ATRAZINE	J4	0.47	-0.47	ug/L
S39SWA-Q4	12/4/2002 12:00	ATRAZINE	J4	0.47	-0.47	ug/L
S39SWB-Q1	3/6/2002 13:00	ATRAZINE		0.47	-0.47	ug/L
S39SWB-Q2	6/4/2002 12:40	ATRAZINE		0.49	-0.49	ug/L
S39SWB-Q3	9/11/2002 14:23	ATRAZINE	J4	0.47	-0.47	ug/L
S39SWB-Q4	12/3/2002 11:30	ATRAZINE	J4	0.46	-0.46	ug/L
S39SWD-Q1	3/5/2002 14:35	ATRAZINE	J5	0.48	0.55	ug/L
S39SWD-Q2	6/5/2002 11:30	ATRAZINE		0.5	-0.5	ug/L
S39SWD-Q3	9/9/2002 12:15	ATRAZINE	J4	0.47	-0.47	ug/L
S39SWD-Q4	12/2/2002 11:45	ATRAZINE	J4	0.47	-0.47	ug/L
S39SWA-Q1	3/7/2002 10:30	ATRAZINE DESETHYL	?	2.9	-2.9	ug/L
S39SWA-Q2	6/6/2002 12:00	ATRAZINE DESETHYL		0.11	-0.11	ug/L
S39SWA-Q3	9/10/2002 12:30	ATRAZINE DESETHYL	J4	0.1	-0.1	ug/L
S39SWA-Q4	12/4/2002 12:00	ATRAZINE DESETHYL	J4	0.1	-0.1	ug/L
S39SWB-Q1	3/6/2002 13:00	ATRAZINE DESETHYL	?	2.9	-2.9	ug/L
S39SWB-Q2	6/4/2002 12:40	ATRAZINE DESETHYL		0.11	-0.11	ug/L
S39SWB-Q3	9/11/2002 14:23	ATRAZINE DESETHYL	J4	0.1	-0.1	ug/L
S39SWB-Q4	12/3/2002 11:30	ATRAZINE DESETHYL	J4	0.1	-0.1	ug/L
S39SWD-Q1	3/5/2002 14:35	ATRAZINE DESETHYL	?	2.9	-2.9	ug/L
S39SWD-Q2	6/5/2002 11:30	ATRAZINE DESETHYL		0.11	-0.11	ug/L
S39SWD-Q3	9/9/2002 12:15	ATRAZINE DESETHYL	J4	0.1	-0.1	ug/L
S39SWD-Q4	12/2/2002 11:45	ATRAZINE DESETHYL	J4	0.1	-0.1	ug/L
S39SWA-Q1	3/7/2002 10:30	BARIUM, TOTAL		1.8	-10	ug/L
S39SWA-Q2	6/6/2002 12:00	BARIUM, TOTAL		0.9	42	ug/L
S39SWA-Q3	9/10/2002 12:30	BARIUM, TOTAL		1.8	68	ug/L
S39SWA-Q4	12/4/2002 12:00	BARIUM, TOTAL		1.8	48	ug/L
S39SWB-Q1	3/6/2002 13:00	BARIUM, TOTAL		1.8	26	ug/L
S39SWB-Q2	6/4/2002 12:40	BARIUM, TOTAL		0.9	36	ug/L
S39SWB-Q3	9/11/2002 14:23	BARIUM, TOTAL		1.8	67	ug/L
S39SWB-Q4	12/3/2002 11:30	BARIUM, TOTAL		1.8	34	ug/L
S39SWD-Q1	3/5/2002 14:35	BARIUM, TOTAL		1.8	31	ug/L
S39SWD-Q2	6/5/2002 11:30	BARIUM, TOTAL		0.9	41	ug/L
S39SWD-Q3	9/9/2002 12:15	BARIUM, TOTAL		1.8	53	ug/L
S39SWD-Q4	12/2/2002 11:45	BARIUM, TOTAL		1.8	26	ug/L
S39SWA-Q1	3/7/2002 10:30	BENZENE		0.09	-0.09	ug/L
S39SWA-Q2	6/6/2002 12:00	BENZENE		0.09	0.14	ug/L
S39SWA-Q3	9/10/2002 12:30	BENZENE		0.09	-0.09	ug/L
S39SWA-Q4	12/4/2002 12:00	BENZENE		0.09	0.17	ug/L
S39SWB-Q1	3/6/2002 13:00	BENZENE		0.09	-0.09	ug/L

Sample ID	Collection_Date	Test Name	Flag	MDL	New Value	Units
S39SWB-Q2	6/4/2002 12:40	BENZENE		0.09	-0.09	ug/L
S39SWB-Q3	9/11/2002 14:23	BENZENE		0.09	-0.09	ug/L
S39SWB-Q4	12/3/2002 11:30	BENZENE		0.09	-0.09	ug/L
S39SWD-Q1	3/5/2002 14:35	BENZENE		0.09	-0.09	ug/L
S39SWD-Q2	6/5/2002 11:30	BENZENE		0.09	-0.09	ug/L
S39SWD-Q3	9/9/2002 12:15	BENZENE		0.09	-0.09	ug/L
S39SWD-Q4	12/2/2002 11:45	BENZENE		0.09	-0.09	ug/L
S39SWA-Q1	3/7/2002 10:30	BENZO(A)PYRENE		0.07	-0.07	ug/L
S39SWA-Q2	6/6/2002 12:00	BENZO(A)PYRENE		0.071	-0.071	ug/L
S39SWA-Q3	9/10/2002 12:30	BENZO(A)PYRENE	J4	0.068	-0.068	ug/L
S39SWA-Q4	12/4/2002 12:00	BENZO(A)PYRENE	J4	0.068	-0.068	ug/L
S39SWB-Q1	3/6/2002 13:00	BENZO(A)PYRENE		0.06	-0.06	ug/L
S39SWB-Q2	6/4/2002 12:40	BENZO(A)PYRENE		0.072	-0.072	ug/L
S39SWB-Q3	9/11/2002 14:23	BENZO(A)PYRENE	J4	0.068	-0.068	ug/L
S39SWB-Q4	12/3/2002 11:30	BENZO(A)PYRENE	J4	0.067	-0.067	ug/L
S39SWD-Q1	3/5/2002 14:35	BENZO(A)PYRENE		0.06	-0.06	ug/L
S39SWD-Q2	6/5/2002 11:30	BENZO(A)PYRENE		0.073	-0.073	ug/L
S39SWD-Q3	9/9/2002 12:15	BENZO(A)PYRENE	J4	0.068	-0.068	ug/L
S39SWD-Q4	12/2/2002 11:45	BENZO(A)PYRENE	J4	0.068	-0.068	ug/L
S39SWA-Q1	3/7/2002 10:30	BERYLLIUM, TOTAL		0.1	-0.5	ug/L
S39SWA-Q2	6/6/2002 12:00	BERYLLIUM, TOTAL		0.05	-0.25	ug/L
S39SWA-Q3	9/10/2002 12:30	BERYLLIUM, TOTAL		0.1	0.5	ug/L
S39SWA-Q4	12/4/2002 12:00	BERYLLIUM, TOTAL		0.1	-0.1	ug/L
S39SWB-Q1	3/6/2002 13:00	BERYLLIUM, TOTAL		0.1	-0.5	ug/L
S39SWB-Q2	6/4/2002 12:40	BERYLLIUM, TOTAL		0.05	-0.25	ug/L
S39SWB-Q3	9/11/2002 14:23	BERYLLIUM, TOTAL		0.1	0.5	ug/L
S39SWB-Q4	12/3/2002 11:30	BERYLLIUM, TOTAL		0.1	-0.1	ug/L
S39SWD-Q1	3/5/2002 14:35	BERYLLIUM, TOTAL		0.1	-0.5	ug/L
S39SWD-Q2	6/5/2002 11:30	BERYLLIUM, TOTAL		0.05	-0.25	ug/L
S39SWD-Q3	9/9/2002 12:15	BERYLLIUM, TOTAL		0.1	0.5	ug/L
S39SWD-Q4	12/2/2002 11:45	BERYLLIUM, TOTAL		0.1	-0.1	ug/L
S39SWA-Q1	3/7/2002 10:30	BHC BETA	Q	2.9	-2.9	ug/L
S39SWA-Q2	6/6/2002 12:00	BHC BETA	Q	0.035	-0.035	ug/L
S39SWA-Q3	9/10/2002 12:30	BHC BETA	J5	0.039	-0.039	ug/L
S39SWA-Q4	12/4/2002 12:00	BHC BETA	J5	0.038	-0.038	ug/L
S39SWB-Q1	3/6/2002 13:00	BHC BETA	Q	2.9	-2.9	ug/L
S39SWB-Q2	6/4/2002 12:40	BHC BETA	Q	0.036	-0.036	ug/L
S39SWB-Q3	9/11/2002 14:23	BHC BETA	J5	0.04	-0.04	ug/L
S39SWB-Q4	12/3/2002 11:30	BHC BETA	J5	0.04	-0.04	ug/L
S39SWD-Q1	3/5/2002 14:35	BHC BETA	Q	3.1	-3.1	ug/L
S39SWD-Q2	6/5/2002 11:30	BHC BETA	Q	0.035	-0.035	ug/L
S39SWD-Q3	9/9/2002 12:15	BHC BETA	J5	0.038	-0.038	ug/L
S39SWD-Q4	12/2/2002 11:45	BHC BETA	J5	0.04	-0.04	ug/L
S39SWA-Q1	3/7/2002 10:30	BHC GAMMA	Q	0.02	-0.02	ug/L
S39SWA-Q2	6/6/2002 12:00	BHC GAMMA	Q	0.019	-0.019	ug/L
S39SWA-Q3	9/10/2002 12:30	BHC GAMMA		0.021	-0.021	ug/L
S39SWA-Q4	12/4/2002 12:00	BHC GAMMA	J3	0.02	-0.02	ug/L
S39SWB-Q1	3/6/2002 13:00	BHC GAMMA	Q	0.02	-0.02	ug/L
S39SWB-Q2	6/4/2002 12:40	BHC GAMMA	Q	0.019	-0.019	ug/L
S39SWB-Q3	9/11/2002 14:23	BHC GAMMA		0.021	-0.021	ug/L
S39SWB-Q4	12/3/2002 11:30	BHC GAMMA	J3	0.021	-0.021	ug/L
S39SWD-Q1	3/5/2002 14:35	BHC GAMMA	Q	0.02	-0.02	ug/L
S39SWD-Q2	6/5/2002 11:30	BHC GAMMA	Q	0.019	-0.019	ug/L
S39SWD-Q3	9/9/2002 12:15	BHC GAMMA		0.02	-0.02	ug/L
S39SWD-Q4	12/2/2002 11:45	BHC GAMMA	J3	0.021	-0.021	ug/L
S39SWA-Q1	3/7/2002 10:30	BIS(2-ETHYLHEXYL)ADIPATE		0.68	-0.68	ug/L
S39SWA-Q2	6/6/2002 12:00	BIS(2-ETHYLHEXYL)ADIPATE		0.69	-0.69	ug/L
S39SWA-Q3	9/10/2002 12:30	BIS(2-ETHYLHEXYL)ADIPATE	J4	0.66	-0.66	ug/L
S39SWA-Q4	12/4/2002 12:00	BIS(2-ETHYLHEXYL)ADIPATE	J4	0.66	-0.66	ug/L

Sample ID	Collection_Date	Test Name	Flag	MDL	New Value	Units
S39SWB-Q1	3/6/2002 13:00	BIS(2-ETHYLHEXYL)ADIPATE		0.67	-0.67	ug/L
S39SWB-Q2	6/4/2002 12:40	BIS(2-ETHYLHEXYL)ADIPATE		0.7	-0.7	ug/L
S39SWB-Q3	9/11/2002 14:23	BIS(2-ETHYLHEXYL)ADIPATE	J4	0.66	-0.66	ug/L
S39SWB-Q4	12/3/2002 11:30	BIS(2-ETHYLHEXYL)ADIPATE	J4	0.65	-0.65	ug/L
S39SWD-Q1	3/5/2002 14:35	BIS(2-ETHYLHEXYL)ADIPATE		0.67	-0.67	ug/L
S39SWD-Q2	6/5/2002 11:30	BIS(2-ETHYLHEXYL)ADIPATE		0.7	-0.7	ug/L
S39SWD-Q3	9/9/2002 12:15	BIS(2-ETHYLHEXYL)ADIPATE	J4	0.66	-0.66	ug/L
S39SWD-Q4	12/2/2002 11:45	BIS(2-ETHYLHEXYL)ADIPATE	J4	0.66	-0.66	ug/L
S39SWA-Q1	3/7/2002 10:30	BIS(2-ETHYLHEXYL)PHTHALAT		0.84	-0.84	ug/L
S39SWA-Q2	6/6/2002 12:00	BIS(2-ETHYLHEXYL)PHTHALAT		0.87	-0.87	ug/L
S39SWA-Q3	9/10/2002 12:30	BIS(2-ETHYLHEXYL)PHTHALAT	J4	0.82	-0.82	ug/L
S39SWA-Q4	12/4/2002 12:00	BIS(2-ETHYLHEXYL)PHTHALAT	J4	0.82	-0.82	ug/L
S39SWB-Q1	3/6/2002 13:00	BIS(2-ETHYLHEXYL)PHTHALAT		0.83	-0.83	ug/L
S39SWB-Q2	6/4/2002 12:40	BIS(2-ETHYLHEXYL)PHTHALAT		0.87	-0.87	ug/L
S39SWB-Q3	9/11/2002 14:23	BIS(2-ETHYLHEXYL)PHTHALAT	J4	0.82	-0.82	ug/L
S39SWB-Q4	12/3/2002 11:30	BIS(2-ETHYLHEXYL)PHTHALAT	J4	0.82	-0.82	ug/L
S39SWD-Q1	3/5/2002 14:35	BIS(2-ETHYLHEXYL)PHTHALAT		0.84	-0.84	ug/L
S39SWD-Q2	6/5/2002 11:30	BIS(2-ETHYLHEXYL)PHTHALAT		0.88	-0.88	ug/L
S39SWD-Q3	9/9/2002 12:15	BIS(2-ETHYLHEXYL)PHTHALAT	J4	0.82	-0.82	ug/L
S39SWD-Q4	12/2/2002 11:45	BIS(2-ETHYLHEXYL)PHTHALAT	J4	0.82	-0.82	ug/L
S39SWA-Q1	3/7/2002 10:30	BOD			-2	mg/L
S39SWA-Q2	6/6/2002 12:00	BOD			2.5	mg/L
S39SWA-Q3	9/10/2002 12:30	BOD	J3		-2	mg/L
S39SWA-Q4	12/4/2002 12:00	BOD			-2	mg/L
S39SWB-Q1	3/6/2002 13:00	BOD			-2	mg/L
S39SWB-Q2	6/4/2002 12:40	BOD			-2	mg/L
S39SWB-Q3	9/11/2002 14:23	BOD	J3		3.6	mg/L
S39SWB-Q4	12/3/2002 11:30	BOD			2.4	mg/L
S39SWD-Q1	3/5/2002 14:35	BOD			-2	mg/L
S39SWD-Q2	6/5/2002 11:30	BOD	Q		-2	mg/L
S39SWD-Q3	9/9/2002 12:15	BOD	Q		-2	mg/L
S39SWD-Q4	12/2/2002 11:45	BOD			12	mg/L
S39SWA-Q1	3/7/2002 10:30	BROMACIL	?	1.4	-1.4	ug/L
S39SWA-Q2	6/6/2002 12:00	BROMACIL		0.11	-0.11	ug/L
S39SWA-Q3	9/10/2002 12:30	BROMACIL	J4	0.11	-0.11	ug/L
S39SWA-Q4	12/4/2002 12:00	BROMACIL	J4	0.11	-0.11	ug/L
S39SWB-Q1	3/6/2002 13:00	BROMACIL	?	1.4	-1.4	ug/L
S39SWB-Q2	6/4/2002 12:40	BROMACIL		0.11	-0.11	ug/L
S39SWB-Q3	9/11/2002 14:23	BROMACIL	J4	0.11	-0.11	ug/L
S39SWB-Q4	12/3/2002 11:30	BROMACIL	J4	0.11	-0.11	ug/L
S39SWD-Q1	3/5/2002 14:35	BROMACIL	?	1.4	-1.4	ug/L
S39SWD-Q2	6/5/2002 11:30	BROMACIL		0.12	-0.12	ug/L
S39SWD-Q3	9/9/2002 12:15	BROMACIL	J4	0.11	-0.11	ug/L
S39SWD-Q4	12/2/2002 11:45	BROMACIL	J4	0.11	-0.11	ug/L
S39SWA-Q1	3/7/2002 10:30	BROMIDE		0.068	-1	mg/L
S39SWA-Q2	6/6/2002 12:00	BROMIDE		0.068	0.38	mg/L
S39SWA-Q3	9/10/2002 12:30	BROMIDE		0.068	0.3	mg/L
S39SWA-Q4	12/4/2002 12:00	BROMIDE		0.068	0.24	mg/L
S39SWB-Q1	3/6/2002 13:00	BROMIDE		0.068	-1	mg/L
S39SWB-Q2	6/4/2002 12:40	BROMIDE		0.068	0.38	mg/L
S39SWB-Q3	9/11/2002 14:23	BROMIDE		0.068	0.12	mg/L
S39SWB-Q4	12/3/2002 11:30	BROMIDE		0.068	0.37	mg/L
S39SWD-Q1	3/5/2002 14:35	BROMIDE	J3	0.068	-1	mg/L
S39SWD-Q2	6/5/2002 11:30	BROMIDE		0.068	0.39	mg/L
S39SWD-Q3	9/9/2002 12:15	BROMIDE		0.068	0.32	mg/L
S39SWD-Q4	12/2/2002 11:45	BROMIDE		0.068	0.22	mg/L
S39SWA-Q1	3/7/2002 10:30	BROMODICHLOROMETHANE		0.27	-0.27	ug/L
S39SWA-Q2	6/6/2002 12:00	BROMODICHLOROMETHANE		0.27	-0.27	ug/L
S39SWA-Q3	9/10/2002 12:30	BROMODICHLOROMETHANE		0.27	-0.27	ug/L

Sample ID	Collection_Date	Test Name	Flag	MDL	New Value	Units
S39SWA-Q4	12/4/2002 12:00	BROMODICHLOROMETHANE		0.27	-0.27	ug/L
S39SWB-Q1	3/6/2002 13:00	BROMODICHLOROMETHANE		0.27	-0.27	ug/L
S39SWB-Q2	6/4/2002 12:40	BROMODICHLOROMETHANE		0.27	-0.27	ug/L
S39SWB-Q3	9/11/2002 14:23	BROMODICHLOROMETHANE		0.27	-0.27	ug/L
S39SWB-Q4	12/3/2002 11:30	BROMODICHLOROMETHANE		0.27	-0.27	ug/L
S39SWD-Q1	3/5/2002 14:35	BROMODICHLOROMETHANE		0.27	-0.27	ug/L
S39SWD-Q2	6/5/2002 11:30	BROMODICHLOROMETHANE		0.27	-0.27	ug/L
S39SWD-Q3	9/9/2002 12:15	BROMODICHLOROMETHANE		0.27	-0.27	ug/L
S39SWD-Q4	12/2/2002 11:45	BROMODICHLOROMETHANE		0.27	-0.27	ug/L
S39SWA-Q1	3/7/2002 10:30	BROMOFORM		0.48	-0.48	ug/L
S39SWA-Q2	6/6/2002 12:00	BROMOFORM		0.48	-0.48	ug/L
S39SWA-Q3	9/10/2002 12:30	BROMOFORM		0.48	-0.48	ug/L
S39SWA-Q4	12/4/2002 12:00	BROMOFORM		0.48	-0.48	ug/L
S39SWB-Q1	3/6/2002 13:00	BROMOFORM		0.48	-0.48	ug/L
S39SWB-Q2	6/4/2002 12:40	BROMOFORM		0.48	-0.48	ug/L
S39SWB-Q3	9/11/2002 14:23	BROMOFORM		0.48	-0.48	ug/L
S39SWB-Q4	12/3/2002 11:30	BROMOFORM		0.48	-0.48	ug/L
S39SWD-Q1	3/5/2002 14:35	BROMOFORM		0.48	-0.48	ug/L
S39SWD-Q2	6/5/2002 11:30	BROMOFORM		0.48	-0.48	ug/L
S39SWD-Q3	9/9/2002 12:15	BROMOFORM		0.48	-0.48	ug/L
S39SWD-Q4	12/2/2002 11:45	BROMOFORM		0.48	-0.48	ug/L
S39SWA-Q1	3/7/2002 10:30	CADMIUM, TOTAL		0.7	-1	ug/L
S39SWA-Q2	6/6/2002 12:00	CADMIUM, TOTAL		0.35	-0.5	ug/L
S39SWA-Q3	9/10/2002 12:30	CADMIUM, TOTAL		0.7	1	ug/L
S39SWB-Q1	3/6/2002 13:00	CADMIUM, TOTAL		0.7	-1	ug/L
S39SWB-Q2	6/4/2002 12:40	CADMIUM, TOTAL		0.35	-0.5	ug/L
S39SWB-Q3	9/11/2002 14:23	CADMIUM, TOTAL		0.7	1	ug/L
S39SWB-Q4	12/3/2002 11:30	CADMIUM, TOTAL		0.7	-0.7	ug/L
S39SWD-Q1	3/5/2002 14:35	CADMIUM, TOTAL		0.7	-1	ug/L
S39SWD-Q2	6/5/2002 11:30	CADMIUM, TOTAL		0.35	-0.5	ug/L
S39SWD-Q3	9/9/2002 12:15	CADMIUM, TOTAL		0.7	1	ug/L
S39SWD-Q4	12/2/2002 11:45	CADMIUM, TOTAL		0.7	-0.7	ug/L
S39SWA-Q1	3/7/2002 10:30	CALCIUM		0.1	19	mg/L
S39SWA-Q2	6/6/2002 12:00	CALCIUM		0.05	54	mg/L
S39SWA-Q3	9/10/2002 12:30	CALCIUM		0.1	77	mg/L
S39SWA-Q4	12/4/2002 12:00	CALCIUM		0.1	60	mg/L
S39SWB-Q1	3/6/2002 13:00	CALCIUM		0.1	38	mg/L
S39SWB-Q2	6/4/2002 12:40	CALCIUM		0.05	44	mg/L
S39SWB-Q3	9/11/2002 14:23	CALCIUM		0.1	75	mg/L
S39SWB-Q4	12/3/2002 11:30	CALCIUM		0.1	78	mg/L
S39SWD-Q1	3/5/2002 14:35	CALCIUM		0.1	46	mg/L
S39SWD-Q2	6/5/2002 11:30	CALCIUM		0.05	49	mg/L
S39SWD-Q3	9/9/2002 12:15	CALCIUM		0.1	77	mg/L
S39SWD-Q4	12/2/2002 11:45	CALCIUM		0.1	85	mg/L
S39SWA-Q1	3/7/2002 10:30	CARBOFURAN		0.18	-1.8	ug/L
S39SWA-Q2	6/6/2002 12:00	CARBOFURAN		0.18	-1.8	ug/L
S39SWA-Q3	9/10/2002 12:30	CARBOFURAN	J4	0.18	1.8	ug/L
S39SWA-Q4	12/4/2002 12:00	CARBOFURAN		0.18	-0.18	ug/L
S39SWB-Q1	3/6/2002 13:00	CARBOFURAN		0.18	-1.8	ug/L
S39SWB-Q2	6/4/2002 12:40	CARBOFURAN		0.18	-1.8	ug/L
S39SWB-Q3	9/11/2002 14:23	CARBOFURAN	J4	0.18	1.8	ug/L
S39SWB-Q4	12/3/2002 11:30	CARBOFURAN		0.18	-0.18	ug/L
S39SWD-Q1	3/5/2002 14:35	CARBOFURAN		0.18	-1.8	ug/L
S39SWD-Q2	6/5/2002 11:30	CARBOFURAN		0.18	-1.8	ug/L
S39SWD-Q3	9/9/2002 12:15	CARBOFURAN	J4	0.18	1.8	ug/L
S39SWD-Q4	12/2/2002 11:45	CARBOFURAN		0.18	-0.18	ug/L
S39SWA-Q1	3/7/2002 10:30	CARBON TETRACHLORIDE		0.28	-0.28	ug/L
S39SWA-Q2	6/6/2002 12:00	CARBON TETRACHLORIDE		0.28	-0.28	ug/L
S39SWA-Q3	9/10/2002 12:30	CARBON TETRACHLORIDE		0.28	-0.28	ug/L

Sample ID	Collection_Date	Test Name	Flag	MDL	New Value	Units
S39SWA-Q4	12/4/2002 12:00	CARBON TETRACHLORIDE		0.28	-0.28	ug/L
S39SWB-Q1	3/6/2002 13:00	CARBON TETRACHLORIDE		0.28	-0.28	ug/L
S39SWB-Q2	6/4/2002 12:40	CARBON TETRACHLORIDE		0.28	-0.28	ug/L
S39SWB-Q3	9/11/2002 14:23	CARBON TETRACHLORIDE		0.28	-0.28	ug/L
S39SWB-Q4	12/3/2002 11:30	CARBON TETRACHLORIDE		0.28	-0.28	ug/L
S39SWD-Q1	3/5/2002 14:35	CARBON TETRACHLORIDE		0.28	-0.28	ug/L
S39SWD-Q2	6/5/2002 11:30	CARBON TETRACHLORIDE		0.28	-0.28	ug/L
S39SWD-Q3	9/9/2002 12:15	CARBON TETRACHLORIDE		0.28	-0.28	ug/L
S39SWD-Q4	12/2/2002 11:45	CARBON TETRACHLORIDE		0.28	-0.28	ug/L
S39SWA-Q1	3/7/2002 10:30	CHLORDANE	Q	0.08	-0.08	ug/L
S39SWA-Q2	6/6/2002 12:00	CHLORDANE	Q	0.078	-0.078	ug/L
S39SWA-Q3	9/10/2002 12:30	CHLORDANE		0.088	-0.088	ug/L
S39SWA-Q4	12/4/2002 12:00	CHLORDANE	J3	0.085	-0.085	ug/L
S39SWB-Q1	3/6/2002 13:00	CHLORDANE	Q	0.08	-0.08	ug/L
S39SWB-Q2	6/4/2002 12:40	CHLORDANE	Q	0.079	-0.079	ug/L
S39SWB-Q3	9/11/2002 14:23	CHLORDANE		0.089	-0.089	ug/L
S39SWB-Q4	12/3/2002 11:30	CHLORDANE	J3	0.089	-0.089	ug/L
S39SWD-Q1	3/5/2002 14:35	CHLORDANE	Q	0.09	-0.09	ug/L
S39SWD-Q2	6/5/2002 11:30	CHLORDANE	Q	0.078	-0.078	ug/L
S39SWD-Q3	9/9/2002 12:15	CHLORDANE		0.085	-0.085	ug/L
S39SWD-Q4	12/2/2002 11:45	CHLORDANE	J3	0.088	-0.088	ug/L
S39SWA-Q1	3/7/2002 10:30	CHLORIDE		0.034	25	mg/L
S39SWA-Q2	6/6/2002 12:00	CHLORIDE	J4	0.034	110	mg/L
S39SWA-Q3	9/10/2002 12:30	CHLORIDE		0.034	190	mg/L
S39SWA-Q4	12/4/2002 12:00	CHLORIDE		0.034	120	mg/L
S39SWB-Q1	3/6/2002 13:00	CHLORIDE		0.034	69	mg/L
S39SWB-Q2	6/4/2002 12:40	CHLORIDE		0.034	140	mg/L
S39SWB-Q3	9/11/2002 14:23	CHLORIDE		0.034	120	mg/L
S39SWB-Q4	12/3/2002 11:30	CHLORIDE		0.034	120	mg/L
S39SWD-Q1	3/5/2002 14:35	CHLORIDE	J3	0.034	81	mg/L
S39SWD-Q2	6/5/2002 11:30	CHLORIDE		0.034	140	mg/L
S39SWD-Q3	9/9/2002 12:15	CHLORIDE		0.034	110	mg/L
S39SWD-Q4	12/2/2002 11:45	CHLORIDE		0.034	71	mg/L
S39SWA-Q1	3/7/2002 10:30	CHLOROBENZENE		0.23	-0.23	ug/L
S39SWA-Q2	6/6/2002 12:00	CHLOROBENZENE		0.23	-0.23	ug/L
S39SWA-Q3	9/10/2002 12:30	CHLOROBENZENE		0.23	-0.23	ug/L
S39SWA-Q4	12/4/2002 12:00	CHLOROBENZENE		0.23	-0.23	ug/L
S39SWB-Q1	3/6/2002 13:00	CHLOROBENZENE		0.23	-0.23	ug/L
S39SWB-Q2	6/4/2002 12:40	CHLOROBENZENE		0.23	-0.23	ug/L
S39SWB-Q3	9/11/2002 14:23	CHLOROBENZENE		0.23	-0.23	ug/L
S39SWB-Q4	12/3/2002 11:30	CHLOROBENZENE		0.23	-0.23	ug/L
S39SWD-Q1	3/5/2002 14:35	CHLOROBENZENE		0.23	-0.23	ug/L
S39SWD-Q2	6/5/2002 11:30	CHLOROBENZENE		0.23	-0.23	ug/L
S39SWD-Q3	9/9/2002 12:15	CHLOROBENZENE		0.23	-0.23	ug/L
S39SWD-Q4	12/2/2002 11:45	CHLOROBENZENE		0.23	-0.23	ug/L
S39SWA-Q1	3/7/2002 10:30	CHLOROFORM		0.18	-0.18	ug/L
S39SWA-Q2	6/6/2002 12:00	CHLOROFORM		0.18	-0.18	ug/L
S39SWA-Q3	9/10/2002 12:30	CHLOROFORM		0.18	-0.18	ug/L
S39SWA-Q4	12/4/2002 12:00	CHLOROFORM		0.18	-0.18	ug/L
S39SWB-Q1	3/6/2002 13:00	CHLOROFORM		0.18	-0.18	ug/L
S39SWB-Q2	6/4/2002 12:40	CHLOROFORM		0.18	-0.18	ug/L
S39SWB-Q3	9/11/2002 14:23	CHLOROFORM		0.18	-0.18	ug/L
S39SWB-Q4	12/3/2002 11:30	CHLOROFORM		0.18	-0.18	ug/L
S39SWD-Q1	3/5/2002 14:35	CHLOROFORM		0.18	-0.18	ug/L
S39SWD-Q2	6/5/2002 11:30	CHLOROFORM		0.18	-0.18	ug/L
S39SWD-Q3	9/9/2002 12:15	CHLOROFORM		0.18	-0.18	ug/L
S39SWD-Q4	12/2/2002 11:45	CHLOROFORM		0.18	-0.18	ug/L
S39SWA-Q1	3/7/2002 10:30	CHLOROMETHANE		0.43	-0.43	ug/L
S39SWA-Q2	6/6/2002 12:00	CHLOROMETHANE		0.43	-0.43	ug/L

Sample ID	Collection_Date	Test Name	Flag	MDL	New Value	Units
S39SWA-Q3	9/10/2002 12:30	CHLOROMETHANE		0.43	-0.43	ug/L
S39SWA-Q4	12/4/2002 12:00	CHLOROMETHANE		0.43	-0.43	ug/L
S39SWB-Q1	3/6/2002 13:00	CHLOROMETHANE		0.43	-0.43	ug/L
S39SWB-Q2	6/4/2002 12:40	CHLOROMETHANE		0.43	-0.43	ug/L
S39SWB-Q3	9/11/2002 14:23	CHLOROMETHANE		0.43	-0.43	ug/L
S39SWB-Q4	12/3/2002 11:30	CHLOROMETHANE		0.43	-0.43	ug/L
S39SWD-Q1	3/5/2002 14:35	CHLOROMETHANE		0.43	-0.43	ug/L
S39SWD-Q2	6/5/2002 11:30	CHLOROMETHANE		0.43	-0.43	ug/L
S39SWD-Q3	9/9/2002 12:15	CHLOROMETHANE		0.43	-0.43	ug/L
S39SWD-Q4	12/2/2002 11:45	CHLOROMETHANE		0.43	-0.43	ug/L
S39SWA-Q1	3/7/2002 10:30	CHROMIUM, TOTAL		1.8	-2	ug/L
S39SWA-Q2	6/6/2002 12:00	CHROMIUM, TOTAL		0.9	-1	ug/L
S39SWA-Q3	9/10/2002 12:30	CHROMIUM, TOTAL		1.8	2	ug/L
S39SWA-Q4	12/4/2002 12:00	CHROMIUM, TOTAL		1.8	-1.8	ug/L
S39SWB-Q1	3/6/2002 13:00	CHROMIUM, TOTAL		1.8	-2	ug/L
S39SWB-Q2	6/4/2002 12:40	CHROMIUM, TOTAL		0.9	-1	ug/L
S39SWB-Q3	9/11/2002 14:23	CHROMIUM, TOTAL		1.8	2	ug/L
S39SWB-Q4	12/3/2002 11:30	CHROMIUM, TOTAL		1.8	-1.8	ug/L
S39SWD-Q1	3/5/2002 14:35	CHROMIUM, TOTAL		1.8	-2	ug/L
S39SWD-Q2	6/5/2002 11:30	CHROMIUM, TOTAL		0.9	-1	ug/L
S39SWD-Q3	9/9/2002 12:15	CHROMIUM, TOTAL		1.8	2	ug/L
S39SWD-Q4	12/2/2002 11:45	CHROMIUM, TOTAL		1.8	-1.8	ug/L
S39SWA-Q1	3/7/2002 10:30	CIS-1,2-DICHLOROETHENE		0.23	-0.23	ug/L
S39SWA-Q2	6/6/2002 12:00	CIS-1,2-DICHLOROETHENE		0.23	-0.23	ug/L
S39SWA-Q3	9/10/2002 12:30	CIS-1,2-DICHLOROETHENE		0.23	-0.23	ug/L
S39SWA-Q4	12/4/2002 12:00	CIS-1,2-DICHLOROETHENE		0.23	-0.23	ug/L
S39SWB-Q1	3/6/2002 13:00	CIS-1,2-DICHLOROETHENE		0.23	-0.23	ug/L
S39SWB-Q2	6/4/2002 12:40	CIS-1,2-DICHLOROETHENE		0.23	-0.23	ug/L
S39SWB-Q3	9/11/2002 14:23	CIS-1,2-DICHLOROETHENE		0.23	-0.23	ug/L
S39SWB-Q4	12/3/2002 11:30	CIS-1,2-DICHLOROETHENE		0.23	-0.23	ug/L
S39SWD-Q1	3/5/2002 14:35	CIS-1,2-DICHLOROETHENE		0.23	-0.23	ug/L
S39SWD-Q2	6/5/2002 11:30	CIS-1,2-DICHLOROETHENE		0.23	-0.23	ug/L
S39SWD-Q3	9/9/2002 12:15	CIS-1,2-DICHLOROETHENE		0.23	-0.23	ug/L
S39SWD-Q4	12/2/2002 11:45	CIS-1,2-DICHLOROETHENE		0.23	-0.23	ug/L
S39SWA-Q1	3/7/2002 10:30	CLOSTRIDIUM PERFRINGINS		1	32	CFU/100M
S39SWA-Q2	6/6/2002 12:00	CLOSTRIDIUM PERFRINGINS	Q	1	280	CFU/100M
S39SWA-Q3	9/10/2002 12:30	CLOSTRIDIUM PERFRINGINS	Q	1	60	CFU/100M
S39SWA-Q4	12/4/2002 12:00	CLOSTRIDIUM PERFRINGINS	Q	1	45	CFU/100M
S39SWB-Q1	3/6/2002 13:00	CLOSTRIDIUM PERFRINGINS		1	48	CFU/100M
S39SWB-Q2	6/4/2002 12:40	CLOSTRIDIUM PERFRINGINS	Q	1	150	CFU/100M
S39SWB-Q3	9/11/2002 14:23	CLOSTRIDIUM PERFRINGINS	Q	1	40	CFU/100M
S39SWB-Q4	12/3/2002 11:30	CLOSTRIDIUM PERFRINGINS	Q	1	25	CFU/100M
S39SWD-Q1	3/5/2002 14:35	CLOSTRIDIUM PERFRINGINS		1	51	CFU/100M
S39SWD-Q2	6/5/2002 11:30	CLOSTRIDIUM PERFRINGINS	Q	1	80	CFU/100M
S39SWD-Q3	9/9/2002 12:15	CLOSTRIDIUM PERFRINGINS	Q	1	65	CFU/100M
S39SWD-Q4	12/2/2002 11:45	CLOSTRIDIUM PERFRINGINS	Q	1	20	CFU/100M
S39SWA-Q1	3/7/2002 10:30	COBALT, TOTAL		1	-2	ug/L
S39SWA-Q2	6/6/2002 12:00	COBALT, TOTAL		0.5	-1	ug/L
S39SWA-Q3	9/10/2002 12:30	COBALT, TOTAL		1	2	ug/L
S39SWA-Q4	12/4/2002 12:00	COBALT, TOTAL		1	-1	ug/L
S39SWB-Q1	3/6/2002 13:00	COBALT, TOTAL		1	-2	ug/L
S39SWB-Q2	6/4/2002 12:40	COBALT, TOTAL		0.5	-1	ug/L
S39SWB-Q3	9/11/2002 14:23	COBALT, TOTAL		1	2	ug/L
S39SWB-Q4	12/3/2002 11:30	COBALT, TOTAL		1	-1	ug/L
S39SWD-Q1	3/5/2002 14:35	COBALT, TOTAL		1	-2	ug/L
S39SWD-Q2	6/5/2002 11:30	COBALT, TOTAL		0.5	-1	ug/L
S39SWD-Q3	9/9/2002 12:15	COBALT, TOTAL		1	2	ug/L
S39SWD-Q4	12/2/2002 11:45	COBALT, TOTAL		1	-1	ug/L
S39SWA-Q1	3/7/2002 10:30	COLIPHAGE MALE		1	1	PFU/100M

Sample ID	Collection_Date	Test Name	Flag	MDL	New Value	Units
S39SWA-Q2	6/6/2002 12:00	COLIPHAGE MALE		1	0	PFU/100M
S39SWA-Q3	9/10/2002 12:30	COLIPHAGE MALE		1	-1	PFU/100M
S39SWA-Q4	12/4/2002 12:00	COLIPHAGE MALE		1	-1	PFU/100M
S39SWB-Q1	3/6/2002 13:00	COLIPHAGE MALE		1	0	PFU/100M
S39SWB-Q2	6/4/2002 12:40	COLIPHAGE MALE		1	0	PFU/100M
S39SWB-Q3	9/11/2002 14:23	COLIPHAGE MALE		1	-1	PFU/100M
S39SWB-Q4	12/3/2002 11:30	COLIPHAGE MALE		1	1	PFU/100M
S39SWD-Q1	3/5/2002 14:35	COLIPHAGE MALE		1	0	PFU/100M
S39SWD-Q2	6/5/2002 11:30	COLIPHAGE MALE		1	0	PFU/100M
S39SWD-Q3	9/9/2002 12:15	COLIPHAGE MALE		1	-1	PFU/100M
S39SWD-Q4	12/2/2002 11:45	COLIPHAGE MALE		1	-1	PFU/100M
S39SWA-Q1	3/7/2002 10:30	COLIPHAGE SOMATIC		1	7	PFU/100M
S39SWA-Q2	6/6/2002 12:00	COLIPHAGE SOMATIC		1	0	PFU/100M
S39SWA-Q3	9/10/2002 12:30	COLIPHAGE SOMATIC		1	23	PFU/100M
S39SWA-Q4	12/4/2002 12:00	COLIPHAGE SOMATIC		1	2	PFU/100M
S39SWB-Q1	3/6/2002 13:00	COLIPHAGE SOMATIC		1	10	PFU/100M
S39SWB-Q2	6/4/2002 12:40	COLIPHAGE SOMATIC		1	0	PFU/100M
S39SWB-Q3	9/11/2002 14:23	COLIPHAGE SOMATIC		1	12	PFU/100M
S39SWB-Q4	12/3/2002 11:30	COLIPHAGE SOMATIC		1	11	PFU/100M
S39SWD-Q1	3/5/2002 14:35	COLIPHAGE SOMATIC		1	5	PFU/100M
S39SWD-Q2	6/5/2002 11:30	COLIPHAGE SOMATIC		1	8	PFU/100M
S39SWD-Q3	9/9/2002 12:15	COLIPHAGE SOMATIC		1	-1	PFU/100M
S39SWD-Q4	12/2/2002 11:45	COLIPHAGE SOMATIC		1	62	PFU/100M
S39SWA-Q1	3/7/2002 10:30	COLOR			90	PCU
S39SWA-Q2	6/6/2002 12:00	COLOR			90	PCU
S39SWA-Q3	9/10/2002 12:30	COLOR			120	PCU
S39SWA-Q4	12/4/2002 12:00	COLOR	Q		120	PCU
S39SWB-Q1	3/6/2002 13:00	COLOR	J3		90	PCU
S39SWB-Q2	6/4/2002 12:40	COLOR			90	PCU
S39SWB-Q3	9/11/2002 14:23	COLOR			120	PCU
S39SWB-Q4	12/3/2002 11:30	COLOR			80	PCU
S39SWD-Q1	3/5/2002 14:35	COLOR			70	PCU
S39SWD-Q2	6/5/2002 11:30	COLOR			90	PCU
S39SWD-Q3	9/9/2002 12:15	COLOR			120	PCU
S39SWD-Q4	12/2/2002 11:45	COLOR			80	PCU
S39SWA-Q1	3/7/2002 10:30	COPPER, TOTAL		1.4	-2	ug/L
S39SWA-Q2	6/6/2002 12:00	COPPER, TOTAL		0.7	3.4	ug/L
S39SWA-Q3	9/10/2002 12:30	COPPER, TOTAL	J3	1.4	2	ug/L
S39SWA-Q4	12/4/2002 12:00	COPPER, TOTAL		1.4	3.8	ug/L
S39SWB-Q1	3/6/2002 13:00	COPPER, TOTAL		1.4	-2	ug/L
S39SWB-Q2	6/4/2002 12:40	COPPER, TOTAL		0.7	1	ug/L
S39SWB-Q3	9/11/2002 14:23	COPPER, TOTAL	J3	1.4	2	ug/L
S39SWB-Q4	12/3/2002 11:30	COPPER, TOTAL		1.4	-1.4	ug/L
S39SWD-Q1	3/5/2002 14:35	COPPER, TOTAL		1.4	-2	ug/L
S39SWD-Q2	6/5/2002 11:30	COPPER, TOTAL		0.7	2.3	ug/L
S39SWD-Q3	9/9/2002 12:15	COPPER, TOTAL	J3	1.4	3	ug/L
S39SWD-Q4	12/2/2002 11:45	COPPER, TOTAL		1.4	-1.4	ug/L
S39SWA-Q1	3/7/2002 10:30	CRYPTOSPORIDIUM		9	0	CRYPTO/1
S39SWA-Q2	6/6/2002 12:00	CRYPTOSPORIDIUM		9	0	CRYPTO/1
S39SWA-Q3	9/10/2002 12:30	CRYPTOSPORIDIUM		1	-1	CRYPTO/1
S39SWA-Q4	12/4/2002 12:00	CRYPTOSPORIDIUM		1	-1	CRYPTO/1
S39SWB-Q1	3/6/2002 13:00	CRYPTOSPORIDIUM		9	0	CRYPTO/1
S39SWB-Q2	6/4/2002 12:40	CRYPTOSPORIDIUM		9	0	CRYPTO/1
S39SWB-Q3	9/11/2002 14:23	CRYPTOSPORIDIUM		1	-1	CRYPTO/1
S39SWB-Q4	12/3/2002 11:30	CRYPTOSPORIDIUM		1	-1	CRYPTO/1
S39SWD-Q1	3/5/2002 14:35	CRYPTOSPORIDIUM		9	0	CRYPTO/1
S39SWD-Q2	6/5/2002 11:30	CRYPTOSPORIDIUM		9	0	CRYPTO/1
S39SWD-Q3	9/9/2002 12:15	CRYPTOSPORIDIUM		1	-1	CRYPTO/1
S39SWD-Q4	12/2/2002 11:45	CRYPTOSPORIDIUM		1	-1	CRYPTO/1

Sample ID	Collection Date	Test Name	Flag	MDL	New Value	Units
S39SWA-Q1	3/7/2002 10:30	CYANIDE		0.005	-0.01	MG/L
S39SWA-Q2	6/6/2002 12:00	CYANIDE		0.005	-0.01	MG/L
S39SWA-Q3	9/10/2002 12:30	CYANIDE		0.005	-0.01	MG/L
S39SWA-Q4	12/4/2002 12:00	CYANIDE		0.005	-0.01	MG/L
S39SWB-Q1	3/6/2002 13:00	CYANIDE		0.005	-0.01	MG/L
S39SWB-Q2	6/4/2002 12:40	CYANIDE		0.005	-0.01	MG/L
S39SWB-Q3	9/11/2002 14:23	CYANIDE		0.005	-0.01	MG/L
S39SWB-Q4	12/3/2002 11:30	CYANIDE		0.005	-0.01	MG/L
S39SWD-Q1	3/5/2002 14:35	CYANIDE		0.005	-0.01	MG/L
S39SWD-Q2	6/5/2002 11:30	CYANIDE		0.005	-0.01	MG/L
S39SWD-Q3	9/9/2002 12:15	CYANIDE		0.005	-0.01	MG/L
S39SWD-Q4	12/2/2002 11:45	CYANIDE		0.005	-0.01	MG/L
S39SWA-Q1C	3/7/2002 10:30	CYANOBACTERIA SCREEN			29	UNITS/ML
S39SWA-Q2C	6/6/2002 12:00	CYANOBACTERIA SCREEN	Q		6,050	UNITS/ML
S39SWA-Q2C2	6/6/2002 12:00	CYANOBACTERIA SCREEN	Q		6,183	UNITS/ML
S39SWA-Q3C	9/10/2002 12:30	CYANOBACTERIA SCREEN			1,233	UNITS/ML
S39SWA-Q3C2	9/10/2002 12:30	CYANOBACTERIA SCREEN			1,355	UNITS/ML
S39SWA-Q4C	12/4/2002 12:00	CYANOBACTERIA SCREEN	J3		152	UNITS/ML
S39SWA-Q4C2	12/4/2002 12:00	CYANOBACTERIA SCREEN	J3		107	UNITS/ML
S39SWB-Q1C	3/6/2002 13:00	CYANOBACTERIA SCREEN			45	UNITS/ML
S39SWB-Q2C	6/4/2002 12:40	CYANOBACTERIA SCREEN	Q		6,047	UNITS/ML
S39SWB-Q2C2	6/4/2002 12:40	CYANOBACTERIA SCREEN	Q		5,928	UNITS/ML
S39SWB-Q2DC	6/4/2002 12:45	CYANOBACTERIA SCREEN	Q		7,738	UNITS/ML
S39SWB-Q2DC2	6/4/2002 12:40	CYANOBACTERIA SCREEN	Q		6,614	UNITS/ML
S39SWB-Q3C	9/11/2002 14:23	CYANOBACTERIA SCREEN			787	UNITS/ML
S39SWB-Q3C2	9/11/2002 14:23	CYANOBACTERIA SCREEN			807	UNITS/ML
S39SWB-Q4C	12/3/2002 11:30	CYANOBACTERIA SCREEN	J3		416	UNITS/ML
S39SWB-Q4C2	12/3/2002 11:30	CYANOBACTERIA SCREEN	J3		628	UNITS/ML
S39SWD-Q1C	3/5/2002 14:35	CYANOBACTERIA SCREEN			51	UNITS/ML
S39SWD-Q2C	6/5/2002 11:30	CYANOBACTERIA SCREEN	Q		4,654	UNITS/ML
S39SWD-Q2C2	6/5/2002 11:30	CYANOBACTERIA SCREEN	Q		3,951	UNITS/ML
S39SWD-Q3C	9/9/2002 12:15	CYANOBACTERIA SCREEN			1,646	UNITS/ML
S39SWD-Q3C2	9/9/2002 12:15	CYANOBACTERIA SCREEN			1,446	UNITS/ML
S39SWD-Q4C	12/2/2002 11:45	CYANOBACTERIA SCREEN	J3		112	UNITS/ML
S39SWD-Q4C2	12/2/2002 11:45	CYANOBACTERIA SCREEN	J3		135	UNITS/ML
S39SWA-Q1C	3/7/2002 10:30	CYANOBACTERIA SCREEN PTOX			0	UNITS/ML
S39SWA-Q2C	6/6/2002 12:00	CYANOBACTERIA SCREEN PTOX	Q		13	UNITS/ML
S39SWA-Q3C	9/10/2002 12:30	CYANOBACTERIA SCREEN PTOX	J3		17	UNITS/ML
S39SWA-Q3C2	9/10/2002 12:30	CYANOBACTERIA SCREEN PTOX	J3		10	UNITS/ML
S39SWA-Q4C	12/4/2002 12:00	CYANOBACTERIA SCREEN PTOX			0	UNITS/ML
S39SWA-Q4C2	12/4/2002 12:00	CYANOBACTERIA SCREEN PTOX			1	UNITS/ML
S39SWB-Q1C	3/6/2002 13:00	CYANOBACTERIA SCREEN PTOX			0	UNITS/ML
S39SWB-Q2C	6/4/2002 12:40	CYANOBACTERIA SCREEN PTOX	Q		10	UNITS/ML
S39SWB-Q2C2	6/4/2002 12:40	CYANOBACTERIA SCREEN PTOX	Q		6	UNITS/ML
S39SWB-Q2DC	6/4/2002 12:45	CYANOBACTERIA SCREEN PTOX	Q		3	UNITS/ML
S39SWB-Q2DC2	6/4/2002 12:40	CYANOBACTERIA SCREEN PTOX	Q		2	UNITS/ML
S39SWB-Q3C	9/11/2002 14:23	CYANOBACTERIA SCREEN PTOX	J3		12	UNITS/ML
S39SWB-Q3C2	9/11/2002 14:23	CYANOBACTERIA SCREEN PTOX	J3		6	UNITS/ML
S39SWB-Q4C	12/3/2002 11:30	CYANOBACTERIA SCREEN PTOX			0	UNITS/ML
S39SWB-Q4C2	12/3/2002 11:30	CYANOBACTERIA SCREEN PTOX			0	UNITS/ML
S39SWD-Q1C	3/5/2002 14:35	CYANOBACTERIA SCREEN PTOX			1	UNITS/ML
S39SWD-Q2C	6/5/2002 11:30	CYANOBACTERIA SCREEN PTOX	Q		3	UNITS/ML
S39SWD-Q2C2	6/5/2002 11:30	CYANOBACTERIA SCREEN PTOX	Q		3	UNITS/ML
S39SWD-Q3C	9/9/2002 12:15	CYANOBACTERIA SCREEN PTOX	J3		6	UNITS/ML
S39SWD-Q3C2	9/9/2002 12:15	CYANOBACTERIA SCREEN PTOX	J3		14	UNITS/ML
S39SWD-Q4C	12/2/2002 11:45	CYANOBACTERIA SCREEN PTOX			0	UNITS/ML
S39SWD-Q4C2	12/2/2002 11:45	CYANOBACTERIA SCREEN PTOX			0	UNITS/ML
S39SWA-Q1	3/7/2002 10:30	DALAPON		2.6	-2.6	UG/L
S39SWA-Q2	6/6/2002 12:00	DALAPON		2.6	-2.6	UG/L

Sample ID	Collection Date	Test Name	Flag	MDL	New Value	Units
S39SWA-Q3	9/10/2002 12:30	DALAPON	J3	2.6	-2.6	UG/L
S39SWA-Q4	12/4/2002 12:00	DALAPON	J3	2.6	-2.6	UG/L
S39SWB-Q1	3/6/2002 13:00	DALAPON		2.6	-2.6	UG/L
S39SWB-Q2	6/4/2002 12:40	DALAPON		2.6	-2.6	UG/L
S39SWB-Q3	9/11/2002 14:23	DALAPON	J3	2.6	-2.6	UG/L
S39SWB-Q4	12/3/2002 11:30	DALAPON	J3	2.6	-2.6	UG/L
S39SWD-Q1	3/5/2002 14:35	DALAPON		2.6	-2.6	UG/L
S39SWD-Q2	6/5/2002 11:30	DALAPON		2.6	-2.6	UG/L
S39SWD-Q3	9/9/2002 12:15	DALAPON	J3	2.6	-2.6	UG/L
S39SWD-Q4	12/2/2002 11:45	DALAPON	J3	2.6	-2.6	UG/L
S39SWA-Q1	3/7/2002 10:30	DBCP		0.0022	-0.0022	UG/L
S39SWA-Q2	6/6/2002 12:00	DBCP		0.0022	-0.0022	UG/L
S39SWA-Q3	9/10/2002 12:30	DBCP		0.0021	-0.0021	UG/L
S39SWA-Q4	12/4/2002 12:00	DBCP		0.009	-0.009	UG/L
S39SWB-Q1	3/6/2002 13:00	DBCP		0.0022	-0.0022	UG/L
S39SWB-Q2	6/4/2002 12:40	DBCP		0.0021	-0.0021	UG/L
S39SWB-Q3	9/11/2002 14:23	DBCP		0.0022	-0.0022	UG/L
S39SWB-Q4	12/3/2002 11:30	DBCP		0.0087	-0.0087	UG/L
S39SWD-Q1	3/5/2002 14:35	DBCP		0.0022	-0.0022	UG/L
S39SWD-Q2	6/5/2002 11:30	DBCP		0.0022	-0.0022	UG/L
S39SWD-Q3	9/9/2002 12:15	DBCP		0.0022	-0.0022	UG/L
S39SWD-Q4	12/2/2002 11:45	DBCP		0.0089	-0.0089	UG/L
S39SWA-Q1	3/7/2002 10:30	DDT-P,P'	Q	2.9	-2.9	ug/L
S39SWA-Q2	6/6/2002 12:00	DDT-P,P'	Q	0.14	-0.14	ug/L
S39SWA-Q3	9/10/2002 12:30	DDT-P,P'	J5	0.16	-0.16	ug/L
S39SWA-Q4	12/4/2002 12:00	DDT-P,P'	J5	0.15	-0.15	ug/L
S39SWB-Q1	3/6/2002 13:00	DDT-P,P'	Q	2.9	-2.9	ug/L
S39SWB-Q2	6/4/2002 12:40	DDT-P,P'	Q	0.14	-0.14	ug/L
S39SWB-Q3	9/11/2002 14:23	DDT-P,P'	J5	0.16	-0.16	ug/L
S39SWB-Q4	12/3/2002 11:30	DDT-P,P'	J5	0.16	-0.16	ug/L
S39SWD-Q1	3/5/2002 14:35	DDT-P,P'	Q	3.1	-3.1	ug/L
S39SWD-Q2	6/5/2002 11:30	DDT-P,P'	Q	0.14	-0.14	ug/L
S39SWD-Q3	9/9/2002 12:15	DDT-P,P'	J5	0.15	-0.15	ug/L
S39SWD-Q4	12/2/2002 11:45	DDT-P,P'	J5	0.16	-0.16	ug/L
S39SWA-Q1	3/7/2002 10:30	DEPTH, TOTAL			0.8	METERS
S39SWA-Q1C	3/7/2002 10:30	DEPTH, TOTAL			0.8	METERS
S39SWA-Q2	6/6/2002 12:00	DEPTH, TOTAL			1.2	METERS
S39SWA-Q2C	6/6/2002 12:00	DEPTH, TOTAL			1.2	METERS
S39SWA-Q3	9/10/2002 12:30	DEPTH, TOTAL			1.6	METERS
S39SWA-Q3C	9/10/2002 12:30	DEPTH, TOTAL			1.6	METERS
S39SWA-Q4	12/4/2002 12:00	DEPTH, TOTAL			2	METERS
S39SWB-Q1	3/6/2002 13:00	DEPTH, TOTAL			2.8	METERS
S39SWB-Q1C	3/6/2002 13:00	DEPTH, TOTAL			2.8	METERS
S39SWB-Q2	6/4/2002 12:40	DEPTH, TOTAL			2.2	METERS
S39SWB-Q2C	6/4/2002 12:40	DEPTH, TOTAL			2.2	METERS
S39SWB-Q2DC	6/4/2002 12:45	DEPTH, TOTAL			2.2	METERS
S39SWB-Q3	9/11/2002 14:23	DEPTH, TOTAL			2.6	METERS
S39SWB-Q3C	9/11/2002 14:23	DEPTH, TOTAL			2.6	METERS
S39SWB-Q4	12/3/2002 11:30	DEPTH, TOTAL			3.1	METERS
S39SWB-Q4C	12/3/2002 11:30	DEPTH, TOTAL			3.1	METERS
S39SWD-Q1	3/5/2002 14:35	DEPTH, TOTAL			2.8	METERS
S39SWD-Q1C	3/5/2002 14:35	DEPTH, TOTAL			2.8	METERS
S39SWD-Q2	6/5/2002 11:30	DEPTH, TOTAL			2.7	METERS
S39SWD-Q2C	6/5/2002 11:30	DEPTH, TOTAL			2.7	METERS
S39SWD-Q3	9/9/2002 12:15	DEPTH, TOTAL			2.7	METERS
S39SWD-Q4	12/2/2002 11:45	DEPTH, TOTAL			2.8	METERS
S39SWD-Q4C	12/2/2002 11:45	DEPTH, TOTAL			2.8	METERS
S39SWA-Q1	3/7/2002 10:30	DIBROMOCHLOROMETHANE		0.4	-0.4	ug/L
S39SWA-Q2	6/6/2002 12:00	DIBROMOCHLOROMETHANE		0.4	-0.4	ug/L

Sample ID	Collection_Date	Test Name	Flag	MDL	New Value	Units
S39SWA-Q3	9/10/2002 12:30	DIBROMOCHLOROMETHANE		0.4	-0.4	ug/L
S39SWA-Q4	12/4/2002 12:00	DIBROMOCHLOROMETHANE		0.4	-0.4	ug/L
S39SWB-Q1	3/6/2002 13:00	DIBROMOCHLOROMETHANE		0.4	-0.4	ug/L
S39SWB-Q2	6/4/2002 12:40	DIBROMOCHLOROMETHANE		0.4	-0.4	ug/L
S39SWB-Q3	9/11/2002 14:23	DIBROMOCHLOROMETHANE		0.4	-0.4	ug/L
S39SWB-Q4	12/3/2002 11:30	DIBROMOCHLOROMETHANE		0.4	-0.4	ug/L
S39SWD-Q1	3/5/2002 14:35	DIBROMOCHLOROMETHANE		0.4	-0.4	ug/L
S39SWD-Q2	6/5/2002 11:30	DIBROMOCHLOROMETHANE		0.4	-0.4	ug/L
S39SWD-Q3	9/9/2002 12:15	DIBROMOCHLOROMETHANE		0.4	-0.4	ug/L
S39SWD-Q4	12/2/2002 11:45	DIBROMOCHLOROMETHANE		0.4	-0.4	ug/L
S39SWA-Q1	3/7/2002 10:30	DICHLORODIFLUOROMETHANE	?	3	-3	UG/L
S39SWA-Q2	6/6/2002 12:00	DICHLORODIFLUOROMETHANE		0.49	-0.49	UG/L
S39SWA-Q3	9/10/2002 12:30	DICHLORODIFLUOROMETHANE		0.49	-0.49	UG/L
S39SWA-Q4	12/4/2002 12:00	DICHLORODIFLUOROMETHANE		0.49	-0.49	UG/L
S39SWB-Q1	3/6/2002 13:00	DICHLORODIFLUOROMETHANE	?	3	-3	UG/L
S39SWB-Q2	6/4/2002 12:40	DICHLORODIFLUOROMETHANE		0.49	-0.49	UG/L
S39SWB-Q3	9/11/2002 14:23	DICHLORODIFLUOROMETHANE		0.49	-0.49	UG/L
S39SWB-Q4	12/3/2002 11:30	DICHLORODIFLUOROMETHANE		0.49	-0.49	UG/L
S39SWD-Q1	3/5/2002 14:35	DICHLORODIFLUOROMETHANE	?	3	-3	UG/L
S39SWD-Q2	6/5/2002 11:30	DICHLORODIFLUOROMETHANE		0.49	-0.49	UG/L
S39SWD-Q3	9/9/2002 12:15	DICHLORODIFLUOROMETHANE		0.49	-0.49	UG/L
S39SWD-Q4	12/2/2002 11:45	DICHLORODIFLUOROMETHANE		0.49	-0.49	UG/L
S39SWA-Q1	3/7/2002 10:30	DIELDRIN	Q	0.01	-0.01	ug/L
S39SWA-Q2	6/6/2002 12:00	DIELDRIN	Q	0.022	-0.022	ug/L
S39SWA-Q3	9/10/2002 12:30	DIELDRIN		0.025	-0.025	ug/L
S39SWA-Q4	12/4/2002 12:00	DIELDRIN	J3	0.024	-0.024	ug/L
S39SWB-Q1	3/6/2002 13:00	DIELDRIN	Q	0.02	-0.02	ug/L
S39SWB-Q2	6/4/2002 12:40	DIELDRIN	Q	0.023	-0.023	ug/L
S39SWB-Q3	9/11/2002 14:23	DIELDRIN		0.026	-0.026	ug/L
S39SWB-Q4	12/3/2002 11:30	DIELDRIN	J3	0.025	-0.025	ug/L
S39SWD-Q1	3/5/2002 14:35	DIELDRIN	Q	0.02	-0.02	ug/L
S39SWD-Q2	6/5/2002 11:30	DIELDRIN	Q	0.022	-0.022	ug/L
S39SWD-Q3	9/9/2002 12:15	DIELDRIN		0.024	-0.024	ug/L
S39SWD-Q4	12/2/2002 11:45	DIELDRIN	J3	0.025	-0.025	ug/L
S39SWA-Q1	3/7/2002 10:30	DINOSEB		0.58	-0.58	ug/L
S39SWA-Q2	6/6/2002 12:00	DINOSEB		0.58	-0.58	ug/L
S39SWA-Q3	9/10/2002 12:30	DINOSEB	J3	0.58	-0.58	ug/L
S39SWA-Q4	12/4/2002 12:00	DINOSEB	J3	0.58	-0.58	ug/L
S39SWB-Q1	3/6/2002 13:00	DINOSEB		0.58	-0.58	ug/L
S39SWB-Q2	6/4/2002 12:40	DINOSEB		0.58	-0.58	ug/L
S39SWB-Q3	9/11/2002 14:23	DINOSEB	J3	0.58	-0.58	ug/L
S39SWB-Q4	12/3/2002 11:30	DINOSEB	J3	0.58	-0.58	ug/L
S39SWD-Q1	3/5/2002 14:35	DINOSEB		0.58	-0.58	ug/L
S39SWD-Q2	6/5/2002 11:30	DINOSEB		0.58	-0.58	ug/L
S39SWD-Q3	9/9/2002 12:15	DINOSEB	J3	0.58	-0.58	ug/L
S39SWD-Q4	12/2/2002 11:45	DINOSEB	J3	0.58	-0.58	ug/L
S39SWA-Q1	3/7/2002 10:30	DIQUAT		2.6	-2.6	ug/L
S39SWA-Q2	6/6/2002 12:00	DIQUAT		2.6	-2.6	ug/L
S39SWA-Q3	9/10/2002 12:30	DIQUAT	J4	2.6	-2.6	ug/L
S39SWA-Q4	12/4/2002 12:00	DIQUAT		2.6	-2.6	ug/L
S39SWB-Q1	3/6/2002 13:00	DIQUAT		2.6	-2.6	ug/L
S39SWB-Q2	6/4/2002 12:40	DIQUAT		2.6	-2.6	ug/L
S39SWB-Q3	9/11/2002 14:23	DIQUAT	J4	2.6	-2.6	ug/L
S39SWB-Q4	12/3/2002 11:30	DIQUAT		2.6	-2.6	ug/L
S39SWD-Q1	3/5/2002 14:35	DIQUAT		2.6	-2.6	ug/L
S39SWD-Q2	6/5/2002 11:30	DIQUAT		2.6	-2.6	ug/L
S39SWD-Q3	9/9/2002 12:15	DIQUAT	J4	2.6	-2.6	ug/L
S39SWD-Q4	12/2/2002 11:45	DIQUAT		2.6	-2.6	ug/L
S39SWA-Q1	3/7/2002 10:30	DISSOLVED OXYGEN			3.4	mg/L

Sample ID	Collection Date	Test Name	Flag	MDL	New Value	Units
S39SWA-Q2	6/6/2002 12:00	DISSOLVED OXYGEN			3.1	mg/L
S39SWA-Q3	9/10/2002 12:30	DISSOLVED OXYGEN			5.4	mg/L
S39SWA-Q4	12/4/2002 12:00	DISSOLVED OXYGEN			6.1	mg/L
S39SWB-Q1	3/6/2002 13:00	DISSOLVED OXYGEN			7.3	mg/L
S39SWB-Q2	6/4/2002 12:40	DISSOLVED OXYGEN			5.2	mg/L
S39SWB-Q3	9/11/2002 14:23	DISSOLVED OXYGEN			5.1	mg/L
S39SWB-Q4	12/3/2002 11:30	DISSOLVED OXYGEN			0.6	mg/L
S39SWD-Q1	3/5/2002 14:35	DISSOLVED OXYGEN			7.6	mg/L
S39SWD-Q2	6/5/2002 11:30	DISSOLVED OXYGEN			5.2	mg/L
S39SWD-Q3	9/9/2002 12:15	DISSOLVED OXYGEN			4.4	mg/L
S39SWD-Q4	12/2/2002 11:45	DISSOLVED OXYGEN			1.6	mg/L
S39SWA-Q1	3/7/2002 10:30	ECOLI		1	15	CFU/100M
S39SWA-Q2	6/6/2002 12:00	ECOLI	J5	1	4	CFU/100M
S39SWA-Q3	9/10/2002 12:30	ECOLI	J5	1	270	CFU/100M
S39SWA-Q4	12/4/2002 12:00	ECOLI	J5	1	1	CFU/100M
S39SWB-Q1	3/6/2002 13:00	ECOLI		1	20	CFU/100M
S39SWB-Q2	6/4/2002 12:40	ECOLI	J5	1	6	CFU/100M
S39SWB-Q4	12/3/2002 11:30	ECOLI	J5	1	10	CFU/100M
S39SWD-Q1	3/5/2002 14:35	ECOLI		1	12	CFU/100M
S39SWD-Q2	6/5/2002 11:30	ECOLI	J5	1	22	CFU/100M
S39SWD-Q3	9/9/2002 12:15	ECOLI	J5	1	33	CFU/100M
S39SWD-Q4	12/2/2002 11:45	ECOLI	J5	1	18	CFU/100M
S39SWA-Q1	3/7/2002 10:30	ENDOSULFAN ALPHA	Q	2.9	-2.9	ug/L
S39SWA-Q2	6/6/2002 12:00	ENDOSULFAN ALPHA	Q	0.025	-0.025	ug/L
S39SWA-Q3	9/10/2002 12:30	ENDOSULFAN ALPHA	J5	0.029	-0.029	ug/L
S39SWA-Q4	12/4/2002 12:00	ENDOSULFAN ALPHA	J5	0.028	-0.028	ug/L
S39SWB-Q1	3/6/2002 13:00	ENDOSULFAN ALPHA	Q	3	-3	ug/L
S39SWB-Q2	6/4/2002 12:40	ENDOSULFAN ALPHA	Q	0.026	-0.026	ug/L
S39SWB-Q3	9/11/2002 14:23	ENDOSULFAN ALPHA	J5	0.029	-0.029	ug/L
S39SWB-Q4	12/3/2002 11:30	ENDOSULFAN ALPHA	J5	0.029	-0.029	ug/L
S39SWD-Q1	3/5/2002 14:35	ENDOSULFAN ALPHA	Q	3.1	-3.1	ug/L
S39SWD-Q2	6/5/2002 11:30	ENDOSULFAN ALPHA	Q	0.025	-0.025	ug/L
S39SWD-Q3	9/9/2002 12:15	ENDOSULFAN ALPHA	J5	0.028	-0.028	ug/L
S39SWD-Q4	12/2/2002 11:45	ENDOSULFAN ALPHA	J5	0.029	-0.029	ug/L
S39SWA-Q1	3/7/2002 10:30	ENDOSULFAN BETA	Q	2.9	-2.9	ug/L
S39SWA-Q2	6/6/2002 12:00	ENDOSULFAN BETA	Q	0.14	-0.14	ug/L
S39SWA-Q3	9/10/2002 12:30	ENDOSULFAN BETA	J5	0.16	-0.16	ug/L
S39SWA-Q4	12/4/2002 12:00	ENDOSULFAN BETA	J5	0.15	-0.15	ug/L
S39SWB-Q1	3/6/2002 13:00	ENDOSULFAN BETA	Q	3	-3	ug/L
S39SWB-Q2	6/4/2002 12:40	ENDOSULFAN BETA	Q	0.14	-0.14	ug/L
S39SWB-Q3	9/11/2002 14:23	ENDOSULFAN BETA	J5	0.16	-0.16	ug/L
S39SWB-Q4	12/3/2002 11:30	ENDOSULFAN BETA	J5	0.16	-0.16	ug/L
S39SWD-Q1	3/5/2002 14:35	ENDOSULFAN BETA	Q	3.1	-3.1	ug/L
S39SWD-Q2	6/5/2002 11:30	ENDOSULFAN BETA	Q	0.14	-0.14	ug/L
S39SWD-Q3	9/9/2002 12:15	ENDOSULFAN BETA	J5	0.15	-0.15	ug/L
S39SWD-Q4	12/2/2002 11:45	ENDOSULFAN BETA	J5	0.16	-0.16	ug/L
S39SWA-Q1	3/7/2002 10:30	ENDOSULFAN SULFATE	Q	2.9	-2.9	ug/L
S39SWA-Q2	6/6/2002 12:00	ENDOSULFAN SULFATE	Q	0.16	-0.16	ug/L
S39SWA-Q3	9/10/2002 12:30	ENDOSULFAN SULFATE	J5	0.18	-0.18	ug/L
S39SWA-Q4	12/4/2002 12:00	ENDOSULFAN SULFATE	J5	0.18	-0.18	ug/L
S39SWB-Q1	3/6/2002 13:00	ENDOSULFAN SULFATE	Q	3	-3	ug/L
S39SWB-Q2	6/4/2002 12:40	ENDOSULFAN SULFATE	Q	0.17	-0.17	ug/L
S39SWB-Q3	9/11/2002 14:23	ENDOSULFAN SULFATE	J5	0.19	-0.19	ug/L
S39SWB-Q4	12/3/2002 11:30	ENDOSULFAN SULFATE	J5	0.19	-0.19	ug/L
S39SWD-Q1	3/5/2002 14:35	ENDOSULFAN SULFATE	Q	3.1	-3.1	ug/L
S39SWD-Q2	6/5/2002 11:30	ENDOSULFAN SULFATE	Q	0.16	-0.16	ug/L
S39SWD-Q3	9/9/2002 12:15	ENDOSULFAN SULFATE	J5	0.18	-0.18	ug/L
S39SWD-Q4	12/2/2002 11:45	ENDOSULFAN SULFATE	J5	0.18	-0.18	ug/L
S39SWA-Q1	3/7/2002 10:30	ENDOTHALL		2.8	-2.8	UG/L

Sample ID	Collection_Date	Test Name	Flag	MDL	New Value	Units
S39SWA-Q2	6/6/2002 12:00	ENDOTHALL		2.8	-2.8	UG/L
S39SWA-Q3	9/10/2002 12:30	ENDOTHALL	J4	2.8	-2.8	UG/L
S39SWA-Q4	12/4/2002 12:00	ENDOTHALL		2.8	-2.8	UG/L
S39SWB-Q1	3/6/2002 13:00	ENDOTHALL		2.8	-2.8	UG/L
S39SWB-Q2	6/4/2002 12:40	ENDOTHALL		2.8	-2.8	UG/L
S39SWB-Q3	9/11/2002 14:23	ENDOTHALL	J4	2.8	-2.8	UG/L
S39SWB-Q4	12/3/2002 11:30	ENDOTHALL		2.8	-2.8	UG/L
S39SWD-Q1	3/5/2002 14:35	ENDOTHALL		2.8	-2.8	UG/L
S39SWD-Q2	6/5/2002 11:30	ENDOTHALL		2.8	-2.8	UG/L
S39SWD-Q3	9/9/2002 12:15	ENDOTHALL	J4	2.8	-2.8	UG/L
S39SWD-Q4	12/2/2002 11:45	ENDOTHALL		2.8	-2.8	UG/L
S39SWA-Q1	3/7/2002 10:30	ENDRIN	Q	0.03	-0.03	ug/L
S39SWA-Q2	6/6/2002 12:00	ENDRIN	Q	0.036	-0.036	ug/L
S39SWA-Q3	9/10/2002 12:30	ENDRIN		0.041	-0.041	ug/L
S39SWA-Q4	12/4/2002 12:00	ENDRIN	J3	0.04	-0.04	ug/L
S39SWB-Q1	3/6/2002 13:00	ENDRIN	Q	0.03	-0.03	ug/L
S39SWB-Q2	6/4/2002 12:40	ENDRIN	Q	0.037	-0.037	ug/L
S39SWB-Q3	9/11/2002 14:23	ENDRIN		0.042	-0.042	ug/L
S39SWB-Q4	12/3/2002 11:30	ENDRIN	J3	0.041	-0.041	ug/L
S39SWD-Q1	3/5/2002 14:35	ENDRIN	Q	0.04	-0.04	ug/L
S39SWD-Q2	6/5/2002 11:30	ENDRIN	Q	0.036	-0.036	ug/L
S39SWD-Q3	9/9/2002 12:15	ENDRIN		0.04	-0.04	ug/L
S39SWD-Q4	12/2/2002 11:45	ENDRIN	J3	0.041	-0.041	ug/L
S39SWA-Q1	3/7/2002 10:30	ENTEROCOCCI	J5	1	12	MPN/100M
S39SWA-Q2	6/6/2002 12:00	ENTEROCOCCI	Q	1	14	MPN/100M
S39SWA-Q3	9/10/2002 12:30	ENTEROCOCCI	Q	1	7	MPN/100M
S39SWA-Q4	12/4/2002 12:00	ENTEROCOCCI	Q	1	1	MPN/100M
S39SWB-Q1	3/6/2002 13:00	ENTEROCOCCI	J5	1	38	MPN/100M
S39SWB-Q2	6/4/2002 12:40	ENTEROCOCCI	Q	1	4	MPN/100M
S39SWB-Q3	9/11/2002 14:23	ENTEROCOCCI	Q	1	20	MPN/100M
S39SWB-Q4	12/3/2002 11:30	ENTEROCOCCI	Q	1	-1	MPN/100M
S39SWD-Q1	3/5/2002 14:35	ENTEROCOCCI	J5	1	13	MPN/100M
S39SWD-Q2	6/5/2002 11:30	ENTEROCOCCI	Q	1	20	MPN/100M
S39SWD-Q3	9/9/2002 12:15	ENTEROCOCCI	Q	1	14	MPN/100M
S39SWD-Q4	12/2/2002 11:45	ENTEROCOCCI	Q	1	1	MPN/100M
S39SWA-Q1	3/7/2002 10:30	ETHION	?	2.9	-2.9	ug/L
S39SWA-Q2	6/6/2002 12:00	ETHION		0.099	-0.099	ug/L
S39SWA-Q3	9/10/2002 12:30	ETHION	J4	0.094	-0.094	ug/L
S39SWA-Q4	12/4/2002 12:00	ETHION	J4	0.093	-0.093	ug/L
S39SWB-Q1	3/6/2002 13:00	ETHION	?	2.9	-2.9	ug/L
S39SWB-Q2	6/4/2002 12:40	ETHION		0.099	-0.099	ug/L
S39SWB-Q3	9/11/2002 14:23	ETHION	J4	0.093	-0.093	ug/L
S39SWB-Q4	12/3/2002 11:30	ETHION	J4	0.093	-0.093	ug/L
S39SWD-Q1	3/5/2002 14:35	ETHION	?	2.9	-2.9	ug/L
S39SWD-Q2	6/5/2002 11:30	ETHION		0.1	-0.1	ug/L
S39SWD-Q3	9/9/2002 12:15	ETHION	J4	0.094	-0.094	ug/L
S39SWD-Q4	12/2/2002 11:45	ETHION	J4	0.094	-0.094	ug/L
S39SWA-Q1	3/7/2002 10:30	ETHYLBENZENE		0.19	-0.19	ug/L
S39SWA-Q2	6/6/2002 12:00	ETHYLBENZENE		0.19	-0.19	ug/L
S39SWA-Q3	9/10/2002 12:30	ETHYLBENZENE		0.19	-0.19	ug/L
S39SWA-Q4	12/4/2002 12:00	ETHYLBENZENE		0.19	0.2	ug/L
S39SWB-Q1	3/6/2002 13:00	ETHYLBENZENE		0.19	-0.19	ug/L
S39SWB-Q2	6/4/2002 12:40	ETHYLBENZENE		0.19	-0.19	ug/L
S39SWB-Q3	9/11/2002 14:23	ETHYLBENZENE		0.19	-0.19	ug/L
S39SWB-Q4	12/3/2002 11:30	ETHYLBENZENE		0.19	-0.19	ug/L
S39SWD-Q1	3/5/2002 14:35	ETHYLBENZENE		0.19	-0.19	ug/L
S39SWD-Q2	6/5/2002 11:30	ETHYLBENZENE		0.19	-0.19	ug/L
S39SWD-Q3	9/9/2002 12:15	ETHYLBENZENE		0.19	-0.19	ug/L
S39SWD-Q4	12/2/2002 11:45	ETHYLBENZENE		0.19	0.36	ug/L

Sample ID	Collection_Date	Test Name	Flag	MDL	New Value	Units
S39SWA-Q3	9/10/2002 12:30	FECAL COLIFORM, MPN		2	130	MPN/100M
S39SWA-Q4	12/4/2002 12:00	FECAL COLIFORM, MPN	J3	2	30	MPN/100M
S39SWB-Q3	9/11/2002 14:23	FECAL COLIFORM, MPN		2	23	MPN/100M
S39SWB-Q4	12/3/2002 11:30	FECAL COLIFORM, MPN		2	13	MPN/100M
S39SWD-Q3	9/9/2002 12:15	FECAL COLIFORM, MPN		2	30	MPN/100M
S39SWD-Q4	12/2/2002 11:45	FECAL COLIFORM, MPN		2	30	MPN/100M
S39SWA-Q1	3/7/2002 10:30	FIELD CHLORIDE			50	MG/L
S39SWA-Q2	6/6/2002 12:00	FIELD CHLORIDE			60	MG/L
S39SWA-Q3	9/10/2002 12:30	FIELD CHLORIDE			180	MG/L
S39SWA-Q4	12/4/2002 12:00	FIELD CHLORIDE			120	MG/L
S39SWB-Q1	3/6/2002 13:00	FIELD CHLORIDE			80	MG/L
S39SWB-Q2	6/4/2002 12:40	FIELD CHLORIDE			160	MG/L
S39SWB-Q3	9/11/2002 14:23	FIELD CHLORIDE			200	MG/L
S39SWB-Q4	12/3/2002 11:30	FIELD CHLORIDE			140	MG/L
S39SWD-Q1	3/5/2002 14:35	FIELD CHLORIDE			80	MG/L
S39SWD-Q2	6/5/2002 11:30	FIELD CHLORIDE			145	MG/L
S39SWD-Q3	9/9/2002 12:15	FIELD CHLORIDE			160	MG/L
S39SWD-Q4	12/2/2002 11:45	FIELD CHLORIDE			100	MG/L
S39SWA-Q1	3/7/2002 10:30	FIELD TURBIDITY			1	NTU
S39SWA-Q2	6/6/2002 12:00	FIELD TURBIDITY			11	NTU
S39SWA-Q3	9/10/2002 12:30	FIELD TURBIDITY			3	NTU
S39SWA-Q4	12/4/2002 12:00	FIELD TURBIDITY			2	NTU
S39SWB-Q1	3/6/2002 13:00	FIELD TURBIDITY			1	NTU
S39SWB-Q2	6/4/2002 12:40	FIELD TURBIDITY			3	NTU
S39SWB-Q3	9/11/2002 14:23	FIELD TURBIDITY			2	NTU
S39SWB-Q4	12/3/2002 11:30	FIELD TURBIDITY			2	NTU
S39SWD-Q1	3/5/2002 14:35	FIELD TURBIDITY			3	NTU
S39SWD-Q2	6/5/2002 11:30	FIELD TURBIDITY			3	NTU
S39SWD-Q3	9/9/2002 12:15	FIELD TURBIDITY			5	NTU
S39SWD-Q4	12/2/2002 11:45	FIELD TURBIDITY			4	NTU
S39SWA-Q1	3/7/2002 10:30	FLUORANTHENE	?	2.9	-2.9	ug/L
S39SWA-Q2	6/6/2002 12:00	FLUORANTHENE		0.095	-0.095	ug/L
S39SWA-Q3	9/10/2002 12:30	FLUORANTHENE	J4	0.09	-0.09	ug/L
S39SWA-Q4	12/4/2002 12:00	FLUORANTHENE	J4	0.09	-0.09	ug/L
S39SWB-Q1	3/6/2002 13:00	FLUORANTHENE	?	2.9	-2.9	ug/L
S39SWB-Q2	6/4/2002 12:40	FLUORANTHENE		0.095	-0.095	ug/L
S39SWB-Q3	9/11/2002 14:23	FLUORANTHENE	J4	0.09	-0.09	ug/L
S39SWB-Q4	12/3/2002 11:30	FLUORANTHENE	J4	0.089	-0.089	ug/L
S39SWD-Q1	3/5/2002 14:35	FLUORANTHENE	?	2.9	-2.9	ug/L
S39SWD-Q2	6/5/2002 11:30	FLUORANTHENE		0.096	-0.096	ug/L
S39SWD-Q3	9/9/2002 12:15	FLUORANTHENE	J4	0.09	-0.09	ug/L
S39SWD-Q4	12/2/2002 11:45	FLUORANTHENE	J4	0.09	-0.09	ug/L
S39SWA-Q1	3/7/2002 10:30	FLUORENE	?	2.9	-2.9	ug/L
S39SWA-Q2	6/6/2002 12:00	FLUORENE		0.071	-0.071	ug/L
S39SWA-Q3	9/10/2002 12:30	FLUORENE	J4	0.068	-0.068	ug/L
S39SWA-Q4	12/4/2002 12:00	FLUORENE	J4	0.068	-0.068	ug/L
S39SWB-Q1	3/6/2002 13:00	FLUORENE	?	2.9	-2.9	ug/L
S39SWB-Q2	6/4/2002 12:40	FLUORENE		0.072	-0.072	ug/L
S39SWB-Q3	9/11/2002 14:23	FLUORENE	J4	0.068	-0.068	ug/L
S39SWB-Q4	12/3/2002 11:30	FLUORENE	J4	0.067	-0.067	ug/L
S39SWD-Q1	3/5/2002 14:35	FLUORENE	?	2.9	-2.9	ug/L
S39SWD-Q2	6/5/2002 11:30	FLUORENE		0.073	-0.073	ug/L
S39SWD-Q3	9/9/2002 12:15	FLUORENE	J4	0.068	-0.068	ug/L
S39SWD-Q4	12/2/2002 11:45	FLUORENE	J4	0.068	-0.068	ug/L
S39SWA-Q1	3/7/2002 10:30	FLUORIDE		0.01	0.08	MG/L
S39SWA-Q2	6/6/2002 12:00	FLUORIDE		0.01	0.35	MG/L
S39SWA-Q3	9/10/2002 12:30	FLUORIDE		0.01	0.46	MG/L
S39SWA-Q4	12/4/2002 12:00	FLUORIDE		0.01	0.31	MG/L
S39SWB-Q1	3/6/2002 13:00	FLUORIDE		0.01	0.15	MG/L

Sample ID	Collection Date	Test Name	Flag	MDL	New Value	Units
S39SWB-Q2	6/4/2002 12:40	FLUORIDE		0.01	0.28	MG/L
S39SWB-Q3	9/11/2002 14:23	FLUORIDE		0.01	0.39	MG/L
S39SWB-Q4	12/3/2002 11:30	FLUORIDE		0.01	0.41	MG/L
S39SWD-Q1	3/5/2002 14:35	FLUORIDE		0.01	0.15	MG/L
S39SWD-Q2	6/5/2002 11:30	FLUORIDE		0.01	0.27	MG/L
S39SWD-Q3	9/9/2002 12:15	FLUORIDE		0.01	0.32	MG/L
S39SWD-Q4	12/2/2002 11:45	FLUORIDE		0.01	0.24	MG/L
S39SWA-Q1	3/7/2002 10:30	FOAMING AGENTS	J3	0.039	0.043	MG/L
S39SWA-Q2	6/6/2002 12:00	FOAMING AGENTS	J4	0.039	0.077	MG/L
S39SWA-Q3	9/10/2002 12:30	FOAMING AGENTS	V	0.039	0.099	MG/L
S39SWA-Q4	12/4/2002 12:00	FOAMING AGENTS	V	0.039	0.091	MG/L
S39SWB-Q1	3/6/2002 13:00	FOAMING AGENTS		0.039	0.048	MG/L
S39SWB-Q2	6/4/2002 12:40	FOAMING AGENTS		0.039	0.11	MG/L
S39SWB-Q3	9/11/2002 14:23	FOAMING AGENTS		0.039	0.049	MG/L
S39SWB-Q4	12/3/2002 11:30	FOAMING AGENTS	V	0.039	0.063	MG/L
S39SWD-Q1	3/5/2002 14:35	FOAMING AGENTS		0.039	-0.1	MG/L
S39SWD-Q2	6/5/2002 11:30	FOAMING AGENTS		0.039	-0.1	MG/L
S39SWD-Q3	9/9/2002 12:15	FOAMING AGENTS	V	0.039	0.098	MG/L
S39SWD-Q4	12/2/2002 11:45	FOAMING AGENTS	Q	0.039	-0.1	MG/L
S39SWA-Q1	3/7/2002 10:30	GIARDIA LAMBLIA		9	0	GIARDIA/
S39SWA-Q2	6/6/2002 12:00	GIARDIA LAMBLIA		9	0	GIARDIA/
S39SWA-Q3	9/10/2002 12:30	GIARDIA LAMBLIA		1	-1	GIARDIA/
S39SWA-Q4	12/4/2002 12:00	GIARDIA LAMBLIA		1	-1	GIARDIA/
S39SWB-Q1	3/6/2002 13:00	GIARDIA LAMBLIA		9	0	GIARDIA/
S39SWB-Q2	6/4/2002 12:40	GIARDIA LAMBLIA		9	0	GIARDIA/
S39SWB-Q3	9/11/2002 14:23	GIARDIA LAMBLIA		1	-1	GIARDIA/
S39SWB-Q4	12/3/2002 11:30	GIARDIA LAMBLIA		1	-1	GIARDIA/
S39SWD-Q1	3/5/2002 14:35	GIARDIA LAMBLIA		9	0	GIARDIA/
S39SWD-Q2	6/5/2002 11:30	GIARDIA LAMBLIA		9	0	GIARDIA/
S39SWD-Q3	9/9/2002 12:15	GIARDIA LAMBLIA		1	-1	GIARDIA/
S39SWD-Q4	12/2/2002 11:45	GIARDIA LAMBLIA		1	-1	GIARDIA/
S39SWA-Q1	3/7/2002 10:30	GLYPHOSATE		29	-30	ug/L
S39SWA-Q2	6/6/2002 12:00	GLYPHOSATE		29	-30	ug/L
S39SWA-Q3	9/10/2002 12:30	GLYPHOSATE	J4	29	-30	ug/L
S39SWA-Q4	12/4/2002 12:00	GLYPHOSATE		26	-30	ug/L
S39SWB-Q1	3/6/2002 13:00	GLYPHOSATE		29	-30	ug/L
S39SWB-Q2	6/4/2002 12:40	GLYPHOSATE		29	-30	ug/L
S39SWB-Q3	9/11/2002 14:23	GLYPHOSATE	J4	29	-30	ug/L
S39SWB-Q4	12/3/2002 11:30	GLYPHOSATE		26	-30	ug/L
S39SWD-Q1	3/5/2002 14:35	GLYPHOSATE		29	-30	ug/L
S39SWD-Q2	6/5/2002 11:30	GLYPHOSATE		29	-30	ug/L
S39SWD-Q3	9/9/2002 12:15	GLYPHOSATE	J4	29	-30	ug/L
S39SWD-Q4	12/2/2002 11:45	GLYPHOSATE		26	-30	ug/L
S39SWA-Q1	3/7/2002 10:30	GROSS ALPHA		1.67	-1.67	PCI/L
S39SWA-Q2	6/6/2002 12:00	GROSS ALPHA		1.28	1.28	PCI/L
S39SWA-Q3	9/10/2002 12:30	GROSS ALPHA		2.61	-2.61	PCI/L
S39SWA-Q4	12/4/2002 12:00	GROSS ALPHA		2.25	-2.25	PCI/L
S39SWB-Q1	3/6/2002 13:00	GROSS ALPHA		1.74	-1.74	PCI/L
S39SWB-Q2	6/4/2002 12:40	GROSS ALPHA		1.45	1.45	PCI/L
S39SWB-Q3	9/11/2002 14:23	GROSS ALPHA		2.61	-2.61	PCI/L
S39SWB-Q4	12/3/2002 11:30	GROSS ALPHA		1.73	1.93	PCI/L
S39SWD-Q1	3/5/2002 14:35	GROSS ALPHA		1.46	-1.46	PCI/L
S39SWD-Q2	6/5/2002 11:30	GROSS ALPHA		1.65	1.65	PCI/L
S39SWD-Q3	9/9/2002 12:15	GROSS ALPHA		2.12	-2.12	PCI/L
S39SWD-Q4	12/2/2002 11:45	GROSS ALPHA		1.47	-1.47	PCI/L
S39SWA-Q1	3/7/2002 10:30	HARDNESS AS CACO3		0.4	68	mg/L
S39SWA-Q2	6/6/2002 12:00	HARDNESS AS CACO3		0.4	240	mg/L
S39SWA-Q3	9/10/2002 12:30	HARDNESS AS CACO3		0.4	310	mg/L
S39SWA-Q4	12/4/2002 12:00	HARDNESS AS CACO3		0.4	220	mg/L

Sample ID	Collection Date	Test Name	Flag	MDL	New Value	Units
S39SWB-Q1	3/6/2002 13:00	HARDNESS AS CACO3		0.4	150	mg/L
S39SWB-Q2	6/4/2002 12:40	HARDNESS AS CACO3		0.4	210	mg/L
S39SWB-Q3	9/11/2002 14:23	HARDNESS AS CACO3		0.4	310	mg/L
S39SWB-Q4	12/3/2002 11:30	HARDNESS AS CACO3		0.4	260	mg/L
S39SWD-Q1	3/5/2002 14:35	HARDNESS AS CACO3		0.4	160	mg/L
S39SWD-Q2	6/5/2002 11:30	HARDNESS AS CACO3		0.4	240	mg/L
S39SWD-Q3	9/9/2002 12:15	HARDNESS AS CACO3		0.4	280	mg/L
S39SWD-Q4	12/2/2002 11:45	HARDNESS AS CACO3		0.4	270	mg/L
S39SWA-Q1	3/7/2002 10:30	HEPTACHLOR	Q	0.08	-0.08	ug/L
S39SWA-Q2	6/6/2002 12:00	HEPTACHLOR	Q	0.08	-0.08	ug/L
S39SWA-Q3	9/10/2002 12:30	HEPTACHLOR	Q	0.09	-0.09	ug/L
S39SWA-Q4	12/4/2002 12:00	HEPTACHLOR	J3	0.088	-0.088	ug/L
S39SWB-Q1	3/6/2002 13:00	HEPTACHLOR	Q	0.08	-0.08	ug/L
S39SWB-Q2	6/4/2002 12:40	HEPTACHLOR	Q	0.082	-0.082	ug/L
S39SWB-Q3	9/11/2002 14:23	HEPTACHLOR	Q	0.092	-0.092	ug/L
S39SWB-Q4	12/3/2002 11:30	HEPTACHLOR	J3	0.091	-0.091	ug/L
S39SWD-Q1	3/5/2002 14:35	HEPTACHLOR	Q	0.08	-0.08	ug/L
S39SWD-Q2	6/5/2002 11:30	HEPTACHLOR	Q	0.08	-0.08	ug/L
S39SWD-Q3	9/9/2002 12:15	HEPTACHLOR	Q	0.088	-0.088	ug/L
S39SWD-Q4	12/2/2002 11:45	HEPTACHLOR	J3	0.091	-0.091	ug/L
S39SWA-Q1	3/7/2002 10:30	HEPTACHLOR EPOXIDE	Q	0.02	-0.02	ug/L
S39SWA-Q2	6/6/2002 12:00	HEPTACHLOR EPOXIDE	Q	0.019	-0.019	ug/L
S39SWA-Q3	9/10/2002 12:30	HEPTACHLOR EPOXIDE		0.022	-0.022	ug/L
S39SWA-Q4	12/4/2002 12:00	HEPTACHLOR EPOXIDE	J3	0.021	-0.021	ug/L
S39SWB-Q1	3/6/2002 13:00	HEPTACHLOR EPOXIDE	Q	0.02	-0.02	ug/L
S39SWB-Q2	6/4/2002 12:40	HEPTACHLOR EPOXIDE	Q	0.02	-0.02	ug/L
S39SWB-Q3	9/11/2002 14:23	HEPTACHLOR EPOXIDE		0.022	-0.022	ug/L
S39SWB-Q4	12/3/2002 11:30	HEPTACHLOR EPOXIDE	J3	0.022	-0.022	ug/L
S39SWD-Q1	3/5/2002 14:35	HEPTACHLOR EPOXIDE	Q	0.02	-0.02	ug/L
S39SWD-Q2	6/5/2002 11:30	HEPTACHLOR EPOXIDE	Q	0.019	-0.019	ug/L
S39SWD-Q3	9/9/2002 12:15	HEPTACHLOR EPOXIDE		0.021	-0.021	ug/L
S39SWD-Q4	12/2/2002 11:45	HEPTACHLOR EPOXIDE	J3	0.022	-0.022	ug/L
S39SWA-Q1	3/7/2002 10:30	HEXACHLOROBENZENE		0.3	-0.3	ug/L
S39SWA-Q2	6/6/2002 12:00	HEXACHLOROBENZENE		0.31	-0.31	ug/L
S39SWA-Q3	9/10/2002 12:30	HEXACHLOROBENZENE	J4	0.3	-0.3	ug/L
S39SWA-Q4	12/4/2002 12:00	HEXACHLOROBENZENE	J4	0.3	-0.3	ug/L
S39SWB-Q1	3/6/2002 13:00	HEXACHLOROBENZENE		0.3	-0.3	ug/L
S39SWB-Q2	6/4/2002 12:40	HEXACHLOROBENZENE		0.31	-0.31	ug/L
S39SWB-Q3	9/11/2002 14:23	HEXACHLOROBENZENE	J4	0.3	-0.3	ug/L
S39SWB-Q4	12/3/2002 11:30	HEXACHLOROBENZENE	J4	0.29	-0.29	ug/L
S39SWD-Q1	3/5/2002 14:35	HEXACHLOROBENZENE		0.3	-0.3	ug/L
S39SWD-Q2	6/5/2002 11:30	HEXACHLOROBENZENE		0.32	-0.32	ug/L
S39SWD-Q3	9/9/2002 12:15	HEXACHLOROBENZENE	J4	0.3	-0.3	ug/L
S39SWD-Q4	12/2/2002 11:45	HEXACHLOROBENZENE	J4	0.3	-0.3	ug/L
S39SWA-Q1	3/7/2002 10:30	HEXACHLOROBUTADIENE	?	2.9	-2.9	ug/L
S39SWA-Q2	6/6/2002 12:00	HEXACHLOROBUTADIENE		0.057	-0.057	ug/L
S39SWA-Q3	9/10/2002 12:30	HEXACHLOROBUTADIENE	J4	0.054	-0.054	ug/L
S39SWA-Q4	12/4/2002 12:00	HEXACHLOROBUTADIENE	J4	0.054	-0.054	ug/L
S39SWB-Q1	3/6/2002 13:00	HEXACHLOROBUTADIENE	?	2.9	-2.9	ug/L
S39SWB-Q2	6/4/2002 12:40	HEXACHLOROBUTADIENE		0.058	-0.058	ug/L
S39SWB-Q3	9/11/2002 14:23	HEXACHLOROBUTADIENE	J4	0.054	-0.054	ug/L
S39SWB-Q4	12/3/2002 11:30	HEXACHLOROBUTADIENE	J4	0.054	-0.054	ug/L
S39SWD-Q1	3/5/2002 14:35	HEXACHLOROBUTADIENE	?	2.9	-2.9	ug/L
S39SWD-Q2	6/5/2002 11:30	HEXACHLOROBUTADIENE		0.058	-0.058	ug/L
S39SWD-Q3	9/9/2002 12:15	HEXACHLOROBUTADIENE	J4	0.054	-0.054	ug/L
S39SWD-Q4	12/2/2002 11:45	HEXACHLOROBUTADIENE	J4	0.054	-0.054	ug/L
S39SWA-Q1	3/7/2002 10:30	HEXACHLOROCYCLOPENTADIENE		0.24	-0.24	ug/L
S39SWA-Q2	6/6/2002 12:00	HEXACHLOROCYCLOPENTADIENE		0.24	-0.24	ug/L
S39SWA-Q3	9/10/2002 12:30	HEXACHLOROCYCLOPENTADIENE	J4	0.23	-0.23	ug/L

Sample ID	Collection Date	Test Name	Flag	MDL	New Value	Units
S39SWA-Q4	12/4/2002 12:00	HEXACHLOROCYCLOPENTADIENE	J4	0.23	-0.23	ug/L
S39SWB-Q1	3/6/2002 13:00	HEXACHLOROCYCLOPENTADIENE		0.23	-0.23	ug/L
S39SWB-Q2	6/4/2002 12:40	HEXACHLOROCYCLOPENTADIENE		0.24	-0.24	ug/L
S39SWB-Q3	9/11/2002 14:23	HEXACHLOROCYCLOPENTADIENE	J4	0.23	-0.23	ug/L
S39SWB-Q4	12/3/2002 11:30	HEXACHLOROCYCLOPENTADIENE	J4	0.23	-0.23	ug/L
S39SWD-Q1	3/5/2002 14:35	HEXACHLOROCYCLOPENTADIENE		0.23	-0.23	ug/L
S39SWD-Q2	6/5/2002 11:30	HEXACHLOROCYCLOPENTADIENE		0.25	-0.25	ug/L
S39SWD-Q3	9/9/2002 12:15	HEXACHLOROCYCLOPENTADIENE	J4	0.23	-0.23	ug/L
S39SWD-Q4	12/2/2002 11:45	HEXACHLOROCYCLOPENTADIENE	J4	0.23	-0.23	ug/L
S39SWA-Q1	3/7/2002 10:30	HEXAZINONE	?	2.9	-2.9	ug/L
S39SWA-Q2	6/6/2002 12:00	HEXAZINONE		0.2	-0.2	ug/L
S39SWA-Q3	9/10/2002 12:30	HEXAZINONE	J4	0.19	-0.19	ug/L
S39SWA-Q4	12/4/2002 12:00	HEXAZINONE	J4	0.19	-0.19	ug/L
S39SWB-Q1	3/6/2002 13:00	HEXAZINONE	?	2.9	-2.9	ug/L
S39SWB-Q2	6/4/2002 12:40	HEXAZINONE		0.2	-0.2	ug/L
S39SWB-Q3	9/11/2002 14:23	HEXAZINONE	J4	0.19	-0.19	ug/L
S39SWB-Q4	12/3/2002 11:30	HEXAZINONE	J4	0.19	-0.19	ug/L
S39SWD-Q1	3/5/2002 14:35	HEXAZINONE	?	2.9	-2.9	ug/L
S39SWD-Q2	6/5/2002 11:30	HEXAZINONE		0.2	-0.2	ug/L
S39SWD-Q3	9/9/2002 12:15	HEXAZINONE	J4	0.19	-0.19	ug/L
S39SWD-Q4	12/2/2002 11:45	HEXAZINONE	J4	0.19	-0.19	ug/L
S39SWA-Q1	3/7/2002 10:30	IODIDE		0.76	-5	MG/L
S39SWA-Q2	6/6/2002 12:00	IODIDE		0.76	-5	MG/L
S39SWA-Q3	9/10/2002 12:30	IODIDE	J5	0.00076	-0.005	MG/L
S39SWA-Q4	12/4/2002 12:00	IODIDE	J5	0.00076	-0.005	MG/L
S39SWB-Q1	3/6/2002 13:00	IODIDE		0.76	-5	MG/L
S39SWB-Q2	6/4/2002 12:40	IODIDE		0.76	-5	MG/L
S39SWB-Q3	9/11/2002 14:23	IODIDE	J5	0.00076	-0.005	MG/L
S39SWB-Q4	12/3/2002 11:30	IODIDE	J5	0.00076	-0.005	MG/L
S39SWD-Q1	3/5/2002 14:35	IODIDE		0.76	-5	MG/L
S39SWD-Q2	6/5/2002 11:30	IODIDE		0.76	-5	MG/L
S39SWD-Q3	9/9/2002 12:15	IODIDE	J5	0.00076	-0.005	MG/L
S39SWD-Q4	12/2/2002 11:45	IODIDE	J5	0.00076	-0.005	MG/L
S39SWA-Q1	3/7/2002 10:30	IRON, TOTAL		25	-40	ug/L
S39SWA-Q2	6/6/2002 12:00	IRON, TOTAL		12	60	ug/L
S39SWA-Q3	9/10/2002 12:30	IRON, TOTAL		25	40	ug/L
S39SWA-Q4	12/4/2002 12:00	IRON, TOTAL		25	-30	ug/L
S39SWB-Q1	3/6/2002 13:00	IRON, TOTAL		25	-40	ug/L
S39SWB-Q2	6/4/2002 12:40	IRON, TOTAL		12	20	ug/L
S39SWB-Q3	9/11/2002 14:23	IRON, TOTAL		25	40	ug/L
S39SWB-Q4	12/3/2002 11:30	IRON, TOTAL		25	50	ug/L
S39SWD-Q1	3/5/2002 14:35	IRON, TOTAL		25	110	ug/L
S39SWD-Q2	6/5/2002 11:30	IRON, TOTAL		12	90	ug/L
S39SWD-Q3	9/9/2002 12:15	IRON, TOTAL		25	80	ug/L
S39SWD-Q4	12/2/2002 11:45	IRON, TOTAL		25	90	ug/L
S39SWA-Q1	3/7/2002 10:30	KJELDAHL NITROGEN, TOTAL	J3	0.12	0.86	mg/L
S39SWA-Q2	6/6/2002 12:00	KJELDAHL NITROGEN, TOTAL	J4	0.12	1.1	mg/L
S39SWA-Q3	9/10/2002 12:30	KJELDAHL NITROGEN, TOTAL	J4	0.12	1.4	mg/L
S39SWA-Q4	12/4/2002 12:00	KJELDAHL NITROGEN, TOTAL	V	0.12	1.2	mg/L
S39SWB-Q1	3/6/2002 13:00	KJELDAHL NITROGEN, TOTAL		0.12	0.82	mg/L
S39SWB-Q2	6/4/2002 12:40	KJELDAHL NITROGEN, TOTAL		0.12	1.9	mg/L
S39SWB-Q3	9/11/2002 14:23	KJELDAHL NITROGEN, TOTAL		0.12	1.3	mg/L
S39SWB-Q4	12/3/2002 11:30	KJELDAHL NITROGEN, TOTAL	V	0.12	1.3	mg/L
S39SWD-Q1	3/5/2002 14:35	KJELDAHL NITROGEN, TOTAL		0.12	0.75	mg/L
S39SWD-Q2	6/5/2002 11:30	KJELDAHL NITROGEN, TOTAL	J	0.12	-0.2	mg/L
S39SWD-Q3	9/9/2002 12:15	KJELDAHL NITROGEN, TOTAL	J4	0.12	1.3	mg/L
S39SWD-Q4	12/2/2002 11:45	KJELDAHL NITROGEN, TOTAL	V	0.12	1.2	mg/L
S39SWA-Q1	3/7/2002 10:30	LEAD, TOTAL		3	-3	ug/L
S39SWA-Q2	6/6/2002 12:00	LEAD, TOTAL		1.5	-1.5	ug/L

Sample ID	Collection_Date	Test Name	Flag	MDL	New Value	Units
S39SWA-Q3	9/10/2002 12:30	LEAD, TOTAL		3	-3	ug/L
S39SWA-Q4	12/4/2002 12:00	LEAD, TOTAL		3	-3	ug/L
S39SWB-Q1	3/6/2002 13:00	LEAD, TOTAL		3	-3	ug/L
S39SWB-Q2	6/4/2002 12:40	LEAD, TOTAL		1.5	-1.5	ug/L
S39SWB-Q3	9/11/2002 14:23	LEAD, TOTAL		3	-3	ug/L
S39SWB-Q4	12/3/2002 11:30	LEAD, TOTAL		3	-3	ug/L
S39SWD-Q1	3/5/2002 14:35	LEAD, TOTAL		3	-3	ug/L
S39SWD-Q2	6/5/2002 11:30	LEAD, TOTAL		1.5	-1.5	ug/L
S39SWD-Q3	9/9/2002 12:15	LEAD, TOTAL		3	-3	ug/L
S39SWD-Q4	12/2/2002 11:45	LEAD, TOTAL		3	-3	ug/L
S39SWA-Q1	3/7/2002 10:30	MAGNESIUM		0.05	3.9	mg/L
S39SWA-Q2	6/6/2002 12:00	MAGNESIUM		0.025	22	mg/L
S39SWA-Q3	9/10/2002 12:30	MAGNESIUM		0.05	27	mg/L
S39SWA-Q4	12/4/2002 12:00	MAGNESIUM		0.05	19	mg/L
S39SWB-Q1	3/6/2002 13:00	MAGNESIUM		0.05	11	mg/L
S39SWB-Q2	6/4/2002 12:40	MAGNESIUM		0.025	20	mg/L
S39SWB-Q3	9/11/2002 14:23	MAGNESIUM		0.05	26	mg/L
S39SWB-Q4	12/3/2002 11:30	MAGNESIUM		0.05	15	mg/L
S39SWD-Q1	3/5/2002 14:35	MAGNESIUM		0.05	12	mg/L
S39SWD-Q2	6/5/2002 11:30	MAGNESIUM		0.025	19	mg/L
S39SWD-Q3	9/9/2002 12:15	MAGNESIUM		0.05	21	mg/L
S39SWD-Q4	12/2/2002 11:45	MAGNESIUM		0.05	9.6	mg/L
S39SWA-Q1	3/7/2002 10:30	MALATHION	?	2.9	-2.9	ug/L
S39SWA-Q2	6/6/2002 12:00	MALATHION		0.087	-0.087	ug/L
S39SWA-Q3	9/10/2002 12:30	MALATHION	J4	0.082	-0.082	ug/L
S39SWA-Q4	12/4/2002 12:00	MALATHION	J4	0.082	-0.082	ug/L
S39SWB-Q1	3/6/2002 13:00	MALATHION	?	2.9	-2.9	ug/L
S39SWB-Q2	6/4/2002 12:40	MALATHION		0.087	-0.087	ug/L
S39SWB-Q3	9/11/2002 14:23	MALATHION	J4	0.082	-0.082	ug/L
S39SWB-Q4	12/3/2002 11:30	MALATHION	J4	0.082	-0.082	ug/L
S39SWD-Q1	3/5/2002 14:35	MALATHION	?	2.9	-2.9	ug/L
S39SWD-Q2	6/5/2002 11:30	MALATHION		0.088	-0.088	ug/L
S39SWD-Q3	9/9/2002 12:15	MALATHION	J4	0.082	-0.082	ug/L
S39SWD-Q4	12/2/2002 11:45	MALATHION	J4	0.082	-0.082	ug/L
S39SWA-Q1	3/7/2002 10:30	MANGANESE, TOTAL		3.8	-10	ug/L
S39SWA-Q2	6/6/2002 12:00	MANGANESE, TOTAL		1.9	8.4	ug/L
S39SWA-Q3	9/10/2002 12:30	MANGANESE, TOTAL		3.8	-10	ug/L
S39SWA-Q4	12/4/2002 12:00	MANGANESE, TOTAL		3.8	-3.8	ug/L
S39SWB-Q1	3/6/2002 13:00	MANGANESE, TOTAL		3.8	-10	ug/L
S39SWB-Q2	6/4/2002 12:40	MANGANESE, TOTAL		1.9	7.7	ug/L
S39SWB-Q3	9/11/2002 14:23	MANGANESE, TOTAL		3.8	-10	ug/L
S39SWB-Q4	12/3/2002 11:30	MANGANESE, TOTAL		3.8	4.8	ug/L
S39SWD-Q1	3/5/2002 14:35	MANGANESE, TOTAL		3.8	-10	ug/L
S39SWD-Q2	6/5/2002 11:30	MANGANESE, TOTAL		1.9	11	ug/L
S39SWD-Q3	9/9/2002 12:15	MANGANESE, TOTAL		3.8	16	ug/L
S39SWD-Q4	12/2/2002 11:45	MANGANESE, TOTAL		3.8	20	ug/L
S39SWA-Q1	3/7/2002 10:30	MERCURY, TOT, ULTRATRACE	J3	0.56	1.23	ng/L
S39SWA-Q2	6/6/2002 12:00	MERCURY, TOT, ULTRATRACE		0.11	1.49	ng/L
S39SWA-Q3	9/10/2002 12:30	MERCURY, TOT, ULTRATRACE		0.15	1.43	ng/L
S39SWA-Q4	12/4/2002 12:00	MERCURY, TOT, ULTRATRACE		0.13	0.55	ng/L
S39SWB-Q1	3/6/2002 13:00	MERCURY, TOT, ULTRATRACE		0.56	0.79	ng/L
S39SWB-Q2	6/4/2002 12:40	MERCURY, TOT, ULTRATRACE		0.11	2	ng/L
S39SWB-Q3	9/11/2002 14:23	MERCURY, TOT, ULTRATRACE		0.15	0.88	ng/L
S39SWB-Q4	12/3/2002 11:30	MERCURY, TOT, ULTRATRACE		0.13	0.82	ng/L
S39SWD-Q1	3/5/2002 14:35	MERCURY, TOT, ULTRATRACE		0.56	1.34	ng/L
S39SWD-Q2	6/5/2002 11:30	MERCURY, TOT, ULTRATRACE		0.11	1.92	ng/L
S39SWD-Q3	9/9/2002 12:15	MERCURY, TOT, ULTRATRACE		0.13	1.31	ng/L
S39SWD-Q4	12/2/2002 11:45	MERCURY, TOT, ULTRATRACE		0.13	0.86	ng/L
S39SWA-Q1	3/7/2002 10:30	MERCURY, TOTAL		0.06	0.13	ug/L

Sample ID	Collection_Date	Test Name	Flag	MDL	New Value	Units
S39SWA-Q2	6/6/2002 12:00	MERCURY, TOTAL		0.06	0.12	ug/L
S39SWA-Q3	9/10/2002 12:30	MERCURY, TOTAL		0.06	0.5	ug/L
S39SWA-Q4	12/4/2002 12:00	MERCURY, TOTAL		0.06	-0.06	ug/L
S39SWB-Q1	3/6/2002 13:00	MERCURY, TOTAL		0.06	-0.06	ug/L
S39SWB-Q2	6/4/2002 12:40	MERCURY, TOTAL		0.06	-0.5	ug/L
S39SWB-Q3	9/11/2002 14:23	MERCURY, TOTAL		0.06	0.5	ug/L
S39SWB-Q4	12/3/2002 11:30	MERCURY, TOTAL		0.06	-0.06	ug/L
S39SWD-Q1	3/5/2002 14:35	MERCURY, TOTAL		0.06	-0.06	ug/L
S39SWD-Q2	6/5/2002 11:30	MERCURY, TOTAL		0.06	-0.5	ug/L
S39SWD-Q3	9/9/2002 12:15	MERCURY, TOTAL		0.06	0.5	ug/L
S39SWD-Q4	12/2/2002 11:45	MERCURY, TOTAL		0.06	-0.06	ug/L
S39SWA-Q1	3/7/2002 10:30	METH MERCURY, TOT ULTRATR		0.088	0.054	ng/L
S39SWA-Q2	6/6/2002 12:00	METH MERCURY, TOT ULTRATR		0.025	0.026	ng/L
S39SWA-Q3	9/10/2002 12:30	METH MERCURY, TOT ULTRATR		0.019	0.079	ng/L
S39SWA-Q4	12/4/2002 12:00	METH MERCURY, TOT ULTRATR		0.019	0.031	ng/L
S39SWB-Q1	3/6/2002 13:00	METH MERCURY, TOT ULTRATR		0.088	0.103	ng/L
S39SWB-Q2	6/4/2002 12:40	METH MERCURY, TOT ULTRATR		0.025	0.098	ng/L
S39SWB-Q3	9/11/2002 14:23	METH MERCURY, TOT ULTRATR		0.019	0.129	ng/L
S39SWB-Q4	12/3/2002 11:30	METH MERCURY, TOT ULTRATR		0.019	0.113	ng/L
S39SWD-Q1	3/5/2002 14:35	METH MERCURY, TOT ULTRATR		0.088	0.121	ng/L
S39SWD-Q2	6/5/2002 11:30	METH MERCURY, TOT ULTRATR		0.025	0.133	ng/L
S39SWD-Q3	9/9/2002 12:15	METH MERCURY, TOT ULTRATR		0.019	0.159	ng/L
S39SWD-Q4	12/2/2002 11:45	METH MERCURY, TOT ULTRATR		0.019	0.208	ng/L
S39SWA-Q1	3/7/2002 10:30	METHOXYCHLOR	Q	0.01	-0.01	ug/L
S39SWA-Q2	6/6/2002 12:00	METHOXYCHLOR	Q	0.033	-0.033	ug/L
S39SWA-Q3	9/10/2002 12:30	METHOXYCHLOR		0.037	-0.037	ug/L
S39SWA-Q4	12/4/2002 12:00	METHOXYCHLOR	J3	0.036	-0.036	ug/L
S39SWB-Q1	3/6/2002 13:00	METHOXYCHLOR	Q	0.01	-0.01	ug/L
S39SWB-Q2	6/4/2002 12:40	METHOXYCHLOR	Q	0.034	-0.034	ug/L
S39SWB-Q3	9/11/2002 14:23	METHOXYCHLOR		0.038	-0.038	ug/L
S39SWB-Q4	12/3/2002 11:30	METHOXYCHLOR	J3	0.038	-0.038	ug/L
S39SWD-Q1	3/5/2002 14:35	METHOXYCHLOR	Q	0.01	-0.01	ug/L
S39SWD-Q2	6/5/2002 11:30	METHOXYCHLOR	Q	0.033	-0.033	ug/L
S39SWD-Q3	9/9/2002 12:15	METHOXYCHLOR		0.036	-0.036	ug/L
S39SWD-Q4	12/2/2002 11:45	METHOXYCHLOR	J3	0.038	-0.038	ug/L
S39SWA-Q1	3/7/2002 10:30	METHYLENE CHLORIDE		0.49	-0.49	ug/L
S39SWA-Q2	6/6/2002 12:00	METHYLENE CHLORIDE		0.49	-0.49	ug/L
S39SWA-Q3	9/10/2002 12:30	METHYLENE CHLORIDE		0.49	-0.49	ug/L
S39SWA-Q4	12/4/2002 12:00	METHYLENE CHLORIDE		0.49	-0.49	ug/L
S39SWB-Q1	3/6/2002 13:00	METHYLENE CHLORIDE		0.49	-0.49	ug/L
S39SWB-Q2	6/4/2002 12:40	METHYLENE CHLORIDE		0.49	-0.49	ug/L
S39SWB-Q3	9/11/2002 14:23	METHYLENE CHLORIDE		0.49	-0.49	ug/L
S39SWB-Q4	12/3/2002 11:30	METHYLENE CHLORIDE		0.49	-0.49	ug/L
S39SWD-Q1	3/5/2002 14:35	METHYLENE CHLORIDE		0.49	-0.49	ug/L
S39SWD-Q2	6/5/2002 11:30	METHYLENE CHLORIDE		0.49	-0.49	ug/L
S39SWD-Q3	9/9/2002 12:15	METHYLENE CHLORIDE		0.49	-0.49	ug/L
S39SWD-Q4	12/2/2002 11:45	METHYLENE CHLORIDE		0.49	-0.49	ug/L
S39SWA-Q1	3/7/2002 10:30	METOLACHLOR	?	0.71	-0.71	ug/L
S39SWA-Q2	6/6/2002 12:00	METOLACHLOR		0.081	-0.081	ug/L
S39SWA-Q3	9/10/2002 12:30	METOLACHLOR	J4	0.077	-0.077	ug/L
S39SWA-Q4	12/4/2002 12:00	METOLACHLOR	J4	0.077	-0.077	ug/L
S39SWB-Q1	3/6/2002 13:00	METOLACHLOR	?	0.7	-0.7	ug/L
S39SWB-Q2	6/4/2002 12:40	METOLACHLOR		0.082	-0.082	ug/L
S39SWB-Q3	9/11/2002 14:23	METOLACHLOR	J4	0.077	-0.077	ug/L
S39SWB-Q4	12/3/2002 11:30	METOLACHLOR	J4	0.077	-0.077	ug/L
S39SWD-Q1	3/5/2002 14:35	METOLACHLOR	?	0.7	-0.7	ug/L
S39SWD-Q2	6/5/2002 11:30	METOLACHLOR		0.083	-0.083	ug/L
S39SWD-Q3	9/9/2002 12:15	METOLACHLOR	J4	0.077	-0.077	ug/L
S39SWD-Q4	12/2/2002 11:45	METOLACHLOR	J4	0.077	-0.077	ug/L

Sample ID	Collection_Date	Test Name	Flag	MDL	New Value	Units
S39SWA-Q1	3/7/2002 10:30	NICKEL, TOTAL		2	-5	ug/L
S39SWA-Q2	6/6/2002 12:00	NICKEL, TOTAL		1	-3	ug/L
S39SWA-Q3	9/10/2002 12:30	NICKEL, TOTAL		2	5	ug/L
S39SWA-Q4	12/4/2002 12:00	NICKEL, TOTAL		2	-2	ug/L
S39SWB-Q1	3/6/2002 13:00	NICKEL, TOTAL		2	-5	ug/L
S39SWB-Q2	6/4/2002 12:40	NICKEL, TOTAL		1	-3	ug/L
S39SWB-Q3	9/11/2002 14:23	NICKEL, TOTAL		2	5	ug/L
S39SWB-Q4	12/3/2002 11:30	NICKEL, TOTAL		2	-2	ug/L
S39SWD-Q1	3/5/2002 14:35	NICKEL, TOTAL		2	-5	ug/L
S39SWD-Q2	6/5/2002 11:30	NICKEL, TOTAL		1	-3	ug/L
S39SWD-Q3	9/9/2002 12:15	NICKEL, TOTAL		2	5	ug/L
S39SWD-Q4	12/2/2002 11:45	NICKEL, TOTAL		2	-2	ug/L
S39SWA-Q1	3/7/2002 10:30	NITRATE-N		0.009	-0.1	mg/L
S39SWA-Q2	6/6/2002 12:00	NITRATE-N		0.009	-0.1	mg/L
S39SWA-Q3	9/10/2002 12:30	NITRATE-N		0.009	-0.1	mg/L
S39SWA-Q4	12/4/2002 12:00	NITRATE-N		0.009	-0.1	mg/L
S39SWB-Q1	3/6/2002 13:00	NITRATE-N		0.009	-0.1	mg/L
S39SWB-Q2	6/4/2002 12:40	NITRATE-N		0.009	-0.1	mg/L
S39SWB-Q3	9/11/2002 14:23	NITRATE-N		0.009	-0.1	mg/L
S39SWB-Q4	12/3/2002 11:30	NITRATE-N		0.009	0.1	mg/L
S39SWD-Q1	3/5/2002 14:35	NITRATE-N	J3	0.009	-0.1	mg/L
S39SWD-Q2	6/5/2002 11:30	NITRATE-N		0.009	-0.1	mg/L
S39SWD-Q3	9/9/2002 12:15	NITRATE-N		0.009	0.058	mg/L
S39SWD-Q4	12/2/2002 11:45	NITRATE-N		0.009	0.14	mg/L
S39SWA-Q1	3/7/2002 10:30	NITRITE-N		0.008	-0.05	mg/L
S39SWA-Q2	6/6/2002 12:00	NITRITE-N		0.008	-0.05	mg/L
S39SWA-Q3	9/10/2002 12:30	NITRITE-N		0.008	-0.05	mg/L
S39SWA-Q4	12/4/2002 12:00	NITRITE-N		0.008	-0.05	mg/L
S39SWB-Q1	3/6/2002 13:00	NITRITE-N		0.008	-0.05	mg/L
S39SWB-Q2	6/4/2002 12:40	NITRITE-N		0.008	-0.05	mg/L
S39SWB-Q3	9/11/2002 14:23	NITRITE-N		0.008	-0.05	mg/L
S39SWB-Q4	12/3/2002 11:30	NITRITE-N		0.008	-0.05	mg/L
S39SWD-Q1	3/5/2002 14:35	NITRITE-N		0.008	-0.05	mg/L
S39SWD-Q2	6/5/2002 11:30	NITRITE-N		0.008	-0.05	mg/L
S39SWD-Q3	9/9/2002 12:15	NITRITE-N		0.008	-0.05	mg/L
S39SWD-Q4	12/2/2002 11:45	NITRITE-N		0.008	-0.05	mg/L
S39SWA-Q1	3/7/2002 10:30	NORFLURAZON		2.9	-2.9	ug/L
S39SWA-Q2	6/6/2002 12:00	NORFLURAZON	?	0	0	ug/L
S39SWA-Q3	9/10/2002 12:30	NORFLURAZON	J4	0.26	-0.26	ug/L
S39SWA-Q4	12/4/2002 12:00	NORFLURAZON	J4	0.26	-0.26	ug/L
S39SWB-Q1	3/6/2002 13:00	NORFLURAZON		2.9	-2.9	ug/L
S39SWB-Q2	6/4/2002 12:40	NORFLURAZON	?	0	0	ug/L
S39SWB-Q3	9/11/2002 14:23	NORFLURAZON	J4	0.26	-0.26	ug/L
S39SWB-Q4	12/3/2002 11:30	NORFLURAZON	J4	0.26	-0.26	ug/L
S39SWD-Q1	3/5/2002 14:35	NORFLURAZON		2.9	-2.9	ug/L
S39SWD-Q2	6/5/2002 11:30	NORFLURAZON	?	0	0	ug/L
S39SWD-Q3	9/9/2002 12:15	NORFLURAZON	J4	0.26	-0.26	ug/L
S39SWD-Q4	12/2/2002 11:45	NORFLURAZON	J4	0.26	-0.26	ug/L
S39SWA-Q1	3/7/2002 10:30	ODOR			-1	TON
S39SWA-Q2	6/6/2002 12:00	ODOR			-1	TON
S39SWA-Q3	9/10/2002 12:30	ODOR			-1	TON
S39SWA-Q4	12/4/2002 12:00	ODOR	Q		2	TON
S39SWB-Q1	3/6/2002 13:00	ODOR			-1	TON
S39SWB-Q2	6/4/2002 12:40	ODOR			-1	TON
S39SWB-Q3	9/11/2002 14:23	ODOR			-1	TON
S39SWB-Q4	12/3/2002 11:30	ODOR			-1	TON
S39SWD-Q1	3/5/2002 14:35	ODOR			-1	TON
S39SWD-Q2	6/5/2002 11:30	ODOR			-1	TON
S39SWD-Q3	9/9/2002 12:15	ODOR			-1	TON

Sample ID	Collection_Date	Test Name	Flag	MDL	New Value	Units
S39SWD-Q4	12/2/2002 11:45	ODOR			-1	TON
S39SWA-Q1	3/7/2002 10:30	ORP			156	mv
S39SWA-Q2	6/6/2002 12:00	ORP			-64	mv
S39SWA-Q3	9/10/2002 12:30	ORP			-38	mv
S39SWA-Q4	12/4/2002 12:00	ORP			-28	mv
S39SWB-Q1	3/6/2002 13:00	ORP			110	mv
S39SWB-Q2	6/4/2002 12:40	ORP			144	mv
S39SWB-Q3	9/11/2002 14:23	ORP			87	mv
S39SWB-Q4	12/3/2002 11:30	ORP			112	mv
S39SWD-Q1	3/5/2002 14:35	ORP			21	mv
S39SWD-Q2	6/5/2002 11:30	ORP			108	mv
S39SWD-Q3	9/9/2002 12:15	ORP			79	mv
S39SWD-Q4	12/2/2002 11:45	ORP			103	mv
S39SWA-Q1	3/7/2002 10:30	OXAMYL		0.1	-1	ug/L
S39SWA-Q2	6/6/2002 12:00	OXAMYL		0.1	-1	ug/L
S39SWA-Q3	9/10/2002 12:30	OXAMYL	J4	0.1	1	ug/L
S39SWA-Q4	12/4/2002 12:00	OXAMYL		0.41	-0.41	ug/L
S39SWB-Q1	3/6/2002 13:00	OXAMYL		0.1	-1	ug/L
S39SWB-Q2	6/4/2002 12:40	OXAMYL		0.1	-1	ug/L
S39SWB-Q3	9/11/2002 14:23	OXAMYL	J4	0.1	1	ug/L
S39SWB-Q4	12/3/2002 11:30	OXAMYL		0.41	-0.41	ug/L
S39SWD-Q1	3/5/2002 14:35	OXAMYL		0.1	-1	ug/L
S39SWD-Q2	6/5/2002 11:30	OXAMYL		0.1	-1	ug/L
S39SWD-Q3	9/9/2002 12:15	OXAMYL	J4	0.1	1	ug/L
S39SWD-Q4	12/2/2002 11:45	OXAMYL		0.41	-0.41	ug/L
S39SWA-Q1	3/7/2002 10:30	OXYGEN-18, SMOW, DELTA			0	PER MIL
S39SWA-Q2	6/6/2002 12:00	OXYGEN-18, SMOW, DELTA			3	PER MIL
S39SWA-Q3	9/10/2002 12:30	OXYGEN-18, SMOW, DELTA		0.2	0.8	PER MIL
S39SWA-Q4	12/4/2002 12:00	OXYGEN-18, SMOW, DELTA		0.2	1.8	PER MIL
S39SWB-Q1	3/6/2002 13:00	OXYGEN-18, SMOW, DELTA			0	PER MIL
S39SWB-Q2	6/4/2002 12:40	OXYGEN-18, SMOW, DELTA			4	PER MIL
S39SWB-Q3	9/11/2002 14:23	OXYGEN-18, SMOW, DELTA		0.2	0.8	PER MIL
S39SWB-Q4	12/3/2002 11:30	OXYGEN-18, SMOW, DELTA		0.2	1	PER MIL
S39SWD-Q2	6/5/2002 11:30	OXYGEN-18, SMOW, DELTA			3	PER MIL
S39SWD-Q3	9/9/2002 12:15	OXYGEN-18, SMOW, DELTA		0.2	0.2	PER MIL
S39SWD-Q4	12/2/2002 11:45	OXYGEN-18, SMOW, DELTA		0.2	0.6	PER MIL
S39SWA-Q1	3/7/2002 10:30	PCB		0.21	-0.21	ug/L
S39SWA-Q2	6/6/2002 12:00	PCB		0.21	-0.21	ug/L
S39SWA-Q3	9/10/2002 12:30	PCB	J4	0.2	-0.2	ug/L
S39SWA-Q4	12/4/2002 12:00	PCB	J3	0.2	-0.2	ug/L
S39SWB-Q1	3/6/2002 13:00	PCB		0.21	-0.21	ug/L
S39SWB-Q2	6/4/2002 12:40	PCB		0.21	-0.21	ug/L
S39SWB-Q3	9/11/2002 14:23	PCB	J4	0.2	-0.2	ug/L
S39SWB-Q4	12/3/2002 11:30	PCB	J3	0.2	-0.2	ug/L
S39SWD-Q1	3/5/2002 14:35	PCB		0.21	-0.21	ug/L
S39SWD-Q2	6/5/2002 11:30	PCB		0.22	-0.22	ug/L
S39SWD-Q3	9/9/2002 12:15	PCB	J4	0.2	-0.2	ug/L
S39SWD-Q4	12/2/2002 11:45	PCB	J3	0.2	-0.2	ug/L
S39SWA-Q1	3/7/2002 10:30	PENTACHLOROPHENOL		0.17	-0.63	ug/L
S39SWA-Q2	6/6/2002 12:00	PENTACHLOROPHENOL		0.18	-0.64	ug/L
S39SWA-Q3	9/10/2002 12:30	PENTACHLOROPHENOL	J4	0.17	0.61	ug/L
S39SWA-Q4	12/4/2002 12:00	PENTACHLOROPHENOL	J4	0.17	-0.17	ug/L
S39SWB-Q1	3/6/2002 13:00	PENTACHLOROPHENOL		0.17	-0.62	ug/L
S39SWB-Q2	6/4/2002 12:40	PENTACHLOROPHENOL		0.18	-0.65	ug/L
S39SWB-Q3	9/11/2002 14:23	PENTACHLOROPHENOL	J4	0.17	0.61	ug/L
S39SWB-Q4	12/3/2002 11:30	PENTACHLOROPHENOL	J4	0.17	-0.17	ug/L
S39SWD-Q1	3/5/2002 14:35	PENTACHLOROPHENOL		0.17	-0.62	ug/L
S39SWD-Q2	6/5/2002 11:30	PENTACHLOROPHENOL		0.18	-0.65	ug/L
S39SWD-Q3	9/9/2002 12:15	PENTACHLOROPHENOL	J4	0.17	0.61	ug/L

Sample ID	Collection_Date	Test Name	Flag	MDL	New Value	Units
S39SWD-Q4	12/2/2002 11:45	PENTACHLOROPHENOL	J4	0.17	-0.17	ug/L
S39SWA-Q1	3/7/2002 10:30	PH, FIELD			7	UNITS
S39SWA-Q2	6/6/2002 12:00	PH, FIELD			7.71	UNITS
S39SWA-Q3	9/10/2002 12:30	PH, FIELD			7.8	UNITS
S39SWA-Q4	12/4/2002 12:00	PH, FIELD			7.9	UNITS
S39SWB-Q1	3/6/2002 13:00	PH, FIELD			7.35	UNITS
S39SWB-Q2	6/4/2002 12:40	PH, FIELD			7.92	UNITS
S39SWB-Q3	9/11/2002 14:23	PH, FIELD			7.9	UNITS
S39SWB-Q4	12/3/2002 11:30	PH, FIELD			6.9	UNITS
S39SWD-Q1	3/5/2002 14:35	PH, FIELD			7.66	UNITS
S39SWD-Q2	6/5/2002 11:30	PH, FIELD			7.66	UNITS
S39SWD-Q3	9/9/2002 12:15	PH, FIELD			7.5	UNITS
S39SWD-Q4	12/2/2002 11:45	PH, FIELD			7.46	UNITS
S39SWA-Q1	3/7/2002 10:30	PH, LAB	Q		6.3	UNITS
S39SWA-Q2	6/6/2002 12:00	PH, LAB	Q		8	UNITS
S39SWA-Q3	9/10/2002 12:30	PH, LAB			8	UNITS
S39SWA-Q4	12/4/2002 12:00	PH, LAB			8	UNITS
S39SWB-Q1	3/6/2002 13:00	PH, LAB	Q		7.1	UNITS
S39SWB-Q2	6/4/2002 12:40	PH, LAB	Q		8.1	UNITS
S39SWB-Q3	9/11/2002 14:23	PH, LAB			7.9	UNITS
S39SWB-Q4	12/3/2002 11:30	PH, LAB			7.7	UNITS
S39SWD-Q1	3/5/2002 14:35	PH, LAB	Q		7	UNITS
S39SWD-Q2	6/5/2002 11:30	PH, LAB	Q		7.9	UNITS
S39SWD-Q3	9/9/2002 12:15	PH, LAB			8	UNITS
S39SWD-Q4	12/2/2002 11:45	PH, LAB			7.4	UNITS
S39SWA-Q1	3/7/2002 10:30	PHENOL	?	2.9	-2.9	ug/L
S39SWA-Q2	6/6/2002 12:00	PHENOL		0.19	-0.19	ug/L
S39SWA-Q3	9/10/2002 12:30	PHENOL	J4	0.18	-0.18	ug/L
S39SWA-Q4	12/4/2002 12:00	PHENOL	J4	0.18	-0.18	ug/L
S39SWB-Q1	3/6/2002 13:00	PHENOL	?	2.9	-2.9	ug/L
S39SWB-Q2	6/4/2002 12:40	PHENOL		0.19	-0.19	ug/L
S39SWB-Q3	9/11/2002 14:23	PHENOL	J4	0.18	-0.18	ug/L
S39SWB-Q4	12/3/2002 11:30	PHENOL	J4	0.17	-0.17	ug/L
S39SWD-Q1	3/5/2002 14:35	PHENOL	?	2.9	-2.9	ug/L
S39SWD-Q2	6/5/2002 11:30	PHENOL		0.19	-0.19	ug/L
S39SWD-Q3	9/9/2002 12:15	PHENOL	J4	0.18	-0.18	ug/L
S39SWD-Q4	12/2/2002 11:45	PHENOL	J4	0.18	-0.18	ug/L
S39SWA-Q1	3/7/2002 10:30	PHOSPHATE, TOTAL AS P	J3	0.034	-0.1	mg/L
S39SWA-Q2	6/6/2002 12:00	PHOSPHATE, TOTAL AS P		0.034	0.11	mg/L
S39SWA-Q3	9/10/2002 12:30	PHOSPHATE, TOTAL AS P	V	0.0059	0.039	mg/L
S39SWA-Q4	12/4/2002 12:00	PHOSPHATE, TOTAL AS P	J4	0.0059	0.016	mg/L
S39SWB-Q1	3/6/2002 13:00	PHOSPHATE, TOTAL AS P		0.034	-0.1	mg/L
S39SWB-Q2	6/4/2002 12:40	PHOSPHATE, TOTAL AS P	J	0.034	-0.1	mg/L
S39SWB-Q3	9/11/2002 14:23	PHOSPHATE, TOTAL AS P	V	0.0059	0.038	mg/L
S39SWB-Q4	12/3/2002 11:30	PHOSPHATE, TOTAL AS P	J4	0.0059	0.019	mg/L
S39SWD-Q1	3/5/2002 14:35	PHOSPHATE, TOTAL AS P		0.034	0.064	mg/L
S39SWD-Q2	6/5/2002 11:30	PHOSPHATE, TOTAL AS P	J	0.034	0.12	mg/L
S39SWD-Q3	9/9/2002 12:15	PHOSPHATE, TOTAL AS P	V	0.0059	0.096	mg/L
S39SWD-Q4	12/2/2002 11:45	PHOSPHATE, TOTAL AS P	J4	0.0059	0.096	mg/L
S39SWA-Q1	3/7/2002 10:30	PICLORAM		0.26	-0.26	UG/L
S39SWA-Q2	6/6/2002 12:00	PICLORAM		0.26	-0.26	UG/L
S39SWA-Q3	9/10/2002 12:30	PICLORAM	J3	0.26	-0.26	UG/L
S39SWA-Q4	12/4/2002 12:00	PICLORAM		0.26	-0.26	UG/L
S39SWB-Q1	3/6/2002 13:00	PICLORAM		0.26	-0.26	UG/L
S39SWB-Q2	6/4/2002 12:40	PICLORAM		0.26	-0.26	UG/L
S39SWB-Q3	9/11/2002 14:23	PICLORAM	J3	0.26	-0.26	UG/L
S39SWB-Q4	12/3/2002 11:30	PICLORAM		0.26	-0.26	UG/L
S39SWD-Q1	3/5/2002 14:35	PICLORAM		0.26	-0.26	UG/L
S39SWD-Q2	6/5/2002 11:30	PICLORAM		0.26	-0.26	UG/L

Sample ID	Collection_Date	Test Name	Flag	MDL	New Value	Units
S39SWD-Q3	9/9/2002 12:15	PICLORAM	J3	0.26	-0.26	UG/L
S39SWD-Q4	12/2/2002 11:45	PICLORAM		0.26	-0.26	UG/L
S39SWA-Q1	3/7/2002 10:30	POTASSIUM		0.2	1.5	mg/L
S39SWA-Q2	6/6/2002 12:00	POTASSIUM		0.1	9.3	mg/L
S39SWA-Q3	9/10/2002 12:30	POTASSIUM		0.2	9.6	mg/L
S39SWA-Q4	12/4/2002 12:00	POTASSIUM		0.2	9.7	mg/L
S39SWB-Q1	3/6/2002 13:00	POTASSIUM		0.2	4.3	mg/L
S39SWB-Q2	6/4/2002 12:40	POTASSIUM		0.1	9.3	mg/L
S39SWB-Q3	9/11/2002 14:23	POTASSIUM		0.2	9.3	mg/L
S39SWB-Q4	12/3/2002 11:30	POTASSIUM		0.2	6.9	mg/L
S39SWD-Q1	3/5/2002 14:35	POTASSIUM		0.2	5.1	mg/L
S39SWD-Q2	6/5/2002 11:30	POTASSIUM		0.1	9.3	mg/L
S39SWD-Q3	9/9/2002 12:15	POTASSIUM		0.2	9	mg/L
S39SWD-Q4	12/2/2002 11:45	POTASSIUM		0.2	7	mg/L
S39SWA-Q1	3/7/2002 10:30	PYRENE	?	2.9	-2.9	ug/L
S39SWA-Q2	6/6/2002 12:00	PYRENE		0.12	-0.12	ug/L
S39SWA-Q3	9/10/2002 12:30	PYRENE	J4	0.11	-0.11	ug/L
S39SWA-Q4	12/4/2002 12:00	PYRENE	J4	0.11	-0.11	ug/L
S39SWB-Q1	3/6/2002 13:00	PYRENE	?	2.9	-2.9	ug/L
S39SWB-Q2	6/4/2002 12:40	PYRENE		0.12	-0.12	ug/L
S39SWB-Q3	9/11/2002 14:23	PYRENE	J4	0.11	-0.11	ug/L
S39SWB-Q4	12/3/2002 11:30	PYRENE	J4	0.11	-0.11	ug/L
S39SWD-Q1	3/5/2002 14:35	PYRENE	?	2.9	-2.9	ug/L
S39SWD-Q2	6/5/2002 11:30	PYRENE		0.12	-0.12	ug/L
S39SWD-Q3	9/9/2002 12:15	PYRENE	J4	0.11	-0.11	ug/L
S39SWD-Q4	12/2/2002 11:45	PYRENE	J4	0.11	-0.11	ug/L
S39SWA-Q1	3/7/2002 10:30	RADIUM-226		0.0854	0.0995	PCI/L
S39SWA-Q2	6/6/2002 12:00	RADIUM-226		0.387	0.387	PCI/L
S39SWA-Q3	9/10/2002 12:30	RADIUM-226		0.283	0.377	PCI/L
S39SWA-Q4	12/4/2002 12:00	RADIUM-226		0.193	-0.193	PCI/L
S39SWB-Q1	3/6/2002 13:00	RADIUM-226		0.129	0.405	PCI/L
S39SWB-Q2	6/4/2002 12:40	RADIUM-226		0.163	0.439	PCI/L
S39SWB-Q3	9/11/2002 14:23	RADIUM-226		0.526	-0.526	PCI/L
S39SWB-Q4	12/3/2002 11:30	RADIUM-226		0.16	0.26	PCI/L
S39SWD-Q1	3/5/2002 14:35	RADIUM-226		0.18	0.23	PCI/L
S39SWD-Q2	6/5/2002 11:30	RADIUM-226		0.217	0.235	PCI/L
S39SWD-Q3	9/9/2002 12:15	RADIUM-226		0.293	0.355	PCI/L
S39SWD-Q4	12/2/2002 11:45	RADIUM-226		0.131	0.415	PCI/L
S39SWA-Q1	3/7/2002 10:30	RADIUM-228		0.661	1.08	PCI/L
S39SWA-Q2	6/6/2002 12:00	RADIUM-228		0.83	1.16	PCI/L
S39SWA-Q3	9/10/2002 12:30	RADIUM-228		0.765	1.48	PCI/L
S39SWA-Q4	12/4/2002 12:00	RADIUM-228		1.24	2.38	PCI/L
S39SWB-Q1	3/6/2002 13:00	RADIUM-228		1	-1	PCI/L
S39SWB-Q2	6/4/2002 12:40	RADIUM-228		1.19	1.22	PCI/L
S39SWB-Q3	9/11/2002 14:23	RADIUM-228		0.793	1.66	PCI/L
S39SWB-Q4	12/3/2002 11:30	RADIUM-228		1.01	1.83	PCI/L
S39SWD-Q1	3/5/2002 14:35	RADIUM-228		1.05	1.75	PCI/L
S39SWD-Q2	6/5/2002 11:30	RADIUM-228		0.71	1.25	PCI/L
S39SWD-Q3	9/9/2002 12:15	RADIUM-228		0.693	1.31	PCI/L
S39SWD-Q4	12/2/2002 11:45	RADIUM-228		1.03	2.27	PCI/L
S39SWA-Q2	6/6/2002 12:00	RADON-222		28.9	28.9	PCI/L
S39SWA-Q3	9/10/2002 12:30	RADON-222		31.3	-31.3	PCI/L
S39SWA-Q4	12/4/2002 12:00	RADON-222		18.1	-18.1	PCI/L
S39SWB-Q1	3/6/2002 13:00	RADON-222		30	-30	PCI/L
S39SWB-Q2	6/4/2002 12:40	RADON-222		30.4	30.4	PCI/L
S39SWB-Q3	9/11/2002 14:23	RADON-222		25.8	-25.8	PCI/L
S39SWB-Q4	12/3/2002 11:30	RADON-222		21.7	36.1	PCI/L
S39SWD-Q1	3/5/2002 14:35	RADON-222		35.6	-35.6	PCI/L
S39SWD-Q2	6/5/2002 11:30	RADON-222		25.6	25.6	PCI/L

Sample ID	Collection_Date	Test Name	Flag	MDL	New Value	Units
S39SWD-Q3	9/9/2002 12:15	RADON-222		37.6	-37.6	PCI/L
S39SWD-Q4	12/2/2002 11:45	RADON-222		26	70	PCI/L
S39SWA-Q1	3/7/2002 10:30	SELENIUM, TOTAL		2.1	-5	ug/L
S39SWA-Q2	6/6/2002 12:00	SELENIUM, TOTAL		1	-3	ug/L
S39SWA-Q3	9/10/2002 12:30	SELENIUM, TOTAL		2.1	5	ug/L
S39SWA-Q4	12/4/2002 12:00	SELENIUM, TOTAL		2.1	-2.1	ug/L
S39SWB-Q1	3/6/2002 13:00	SELENIUM, TOTAL		2.1	-5	ug/L
S39SWB-Q2	6/4/2002 12:40	SELENIUM, TOTAL		1	2	ug/L
S39SWB-Q3	9/11/2002 14:23	SELENIUM, TOTAL		2.1	5	ug/L
S39SWB-Q4	12/3/2002 11:30	SELENIUM, TOTAL		2.1	-2.1	ug/L
S39SWD-Q1	3/5/2002 14:35	SELENIUM, TOTAL		2.1	-5	ug/L
S39SWD-Q2	6/5/2002 11:30	SELENIUM, TOTAL		1	2	ug/L
S39SWD-Q3	9/9/2002 12:15	SELENIUM, TOTAL		2.1	5	ug/L
S39SWD-Q4	12/2/2002 11:45	SELENIUM, TOTAL		2.1	-2.1	ug/L
S39SWA-Q1	3/7/2002 10:30	SILVER, TOTAL		1	-1	ug/L
S39SWA-Q2	6/6/2002 12:00	SILVER, TOTAL		0.5	-0.5	ug/L
S39SWA-Q3	9/10/2002 12:30	SILVER, TOTAL		1	-1	ug/L
S39SWA-Q4	12/4/2002 12:00	SILVER, TOTAL		1	-1	ug/L
S39SWB-Q1	3/6/2002 13:00	SILVER, TOTAL		1	-1	ug/L
S39SWB-Q2	6/4/2002 12:40	SILVER, TOTAL		0.5	-0.5	ug/L
S39SWB-Q3	9/11/2002 14:23	SILVER, TOTAL		1	-1	ug/L
S39SWB-Q4	12/3/2002 11:30	SILVER, TOTAL		1	-1	ug/L
S39SWD-Q1	3/5/2002 14:35	SILVER, TOTAL		1	-1	ug/L
S39SWD-Q2	6/5/2002 11:30	SILVER, TOTAL		0.5	-0.5	ug/L
S39SWD-Q3	9/9/2002 12:15	SILVER, TOTAL		1	-1	ug/L
S39SWD-Q4	12/2/2002 11:45	SILVER, TOTAL		1	-1	ug/L
S39SWA-Q1	3/7/2002 10:30	SIMAZINE		0.63	-0.63	ug/L
S39SWA-Q2	6/6/2002 12:00	SIMAZINE		0.64	-0.64	ug/L
S39SWA-Q3	9/10/2002 12:30	SIMAZINE	J4	0.61	-0.61	ug/L
S39SWA-Q4	12/4/2002 12:00	SIMAZINE	J4	0.61	-0.61	ug/L
S39SWB-Q1	3/6/2002 13:00	SIMAZINE		0.62	-0.62	ug/L
S39SWB-Q2	6/4/2002 12:40	SIMAZINE		0.65	-0.65	ug/L
S39SWB-Q3	9/11/2002 14:23	SIMAZINE	J4	0.61	-0.61	ug/L
S39SWB-Q4	12/3/2002 11:30	SIMAZINE	J4	0.61	-0.61	ug/L
S39SWD-Q1	3/5/2002 14:35	SIMAZINE		0.62	-0.62	ug/L
S39SWD-Q2	6/5/2002 11:30	SIMAZINE		0.65	-0.65	ug/L
S39SWD-Q3	9/9/2002 12:15	SIMAZINE	J4	0.61	-0.61	ug/L
S39SWD-Q4	12/2/2002 11:45	SIMAZINE	J4	0.61	-0.61	ug/L
S39SWA-Q1	3/7/2002 10:30	SODIUM		0.5	16	mg/L
S39SWA-Q2	6/6/2002 12:00	SODIUM		0.25	80	mg/L
S39SWA-Q3	9/10/2002 12:30	SODIUM		0.5	98	mg/L
S39SWA-Q4	12/4/2002 12:00	SODIUM		0.5	78	mg/L
S39SWB-Q1	3/6/2002 13:00	SODIUM		0.5	45	mg/L
S39SWB-Q2	6/4/2002 12:40	SODIUM		0.25	100	mg/L
S39SWB-Q3	9/11/2002 14:23	SODIUM		0.5	95	mg/L
S39SWB-Q4	12/3/2002 11:30	SODIUM		0.5	86	mg/L
S39SWD-Q1	3/5/2002 14:35	SODIUM		0.5	54	mg/L
S39SWD-Q2	6/5/2002 11:30	SODIUM		0.25	100	mg/L
S39SWD-Q3	9/9/2002 12:15	SODIUM		0.5	80	mg/L
S39SWD-Q4	12/2/2002 11:45	SODIUM		0.5	47	mg/L
S39SWA-Q1	3/7/2002 10:30	SP CONDUCTIVITY, FIELD			217	uS/cm
S39SWA-Q2	6/6/2002 12:00	SP CONDUCTIVITY, FIELD			889	uS/cm
S39SWA-Q3	9/10/2002 12:30	SP CONDUCTIVITY, FIELD			960	uS/cm
S39SWA-Q4	12/4/2002 12:00	SP CONDUCTIVITY, FIELD			825	uS/cm
S39SWB-Q2	6/4/2002 12:40	SP CONDUCTIVITY, FIELD			916	uS/cm
S39SWB-Q3	9/11/2002 14:23	SP CONDUCTIVITY, FIELD			869	uS/cm
S39SWB-Q4	12/3/2002 11:30	SP CONDUCTIVITY, FIELD			826	uS/cm
S39SWD-Q1	3/5/2002 14:35	SP CONDUCTIVITY, FIELD			620	uS/cm
S39SWD-Q2	6/5/2002 11:30	SP CONDUCTIVITY, FIELD			898	uS/cm

Sample ID	Collection_Date	Test Name	Flag	MDL	New Value	Units
S39SWD-Q3	9/9/2002 12:15	SP CONDUCTIVITY, FIELD			425	uS/cm
S39SWD-Q4	12/2/2002 11:45	SP CONDUCTIVITY, FIELD			710	uS/cm
S39SWA-Q1	3/7/2002 10:30	STRONTIUM, TOTAL		1	300	ug/L
S39SWA-Q2	6/6/2002 12:00	STRONTIUM, TOTAL		0.5	1,600.00	ug/L
S39SWA-Q3	9/10/2002 12:30	STRONTIUM, TOTAL	J4	1	2,000	ug/L
S39SWA-Q4	12/4/2002 12:00	STRONTIUM, TOTAL		1	1,400	ug/L
S39SWB-Q1	3/6/2002 13:00	STRONTIUM, TOTAL		1	830	ug/L
S39SWB-Q2	6/4/2002 12:40	STRONTIUM, TOTAL		0.5	1,300.00	ug/L
S39SWB-Q3	9/11/2002 14:23	STRONTIUM, TOTAL	J4	1	1,900	ug/L
S39SWB-Q4	12/3/2002 11:30	STRONTIUM, TOTAL		1	1,700	ug/L
S39SWD-Q1	3/5/2002 14:35	STRONTIUM, TOTAL		1	1,000	ug/L
S39SWD-Q2	6/5/2002 11:30	STRONTIUM, TOTAL		0.5	1,300.00	ug/L
S39SWD-Q3	9/9/2002 12:15	STRONTIUM, TOTAL	J4	1	1,700	ug/L
S39SWD-Q4	12/2/2002 11:45	STRONTIUM, TOTAL		1	1,300	ug/L
S39SWA-Q1	3/7/2002 10:30	STYRENE		0.24	-0.24	ug/L
S39SWA-Q2	6/6/2002 12:00	STYRENE		0.24	-0.24	ug/L
S39SWA-Q3	9/10/2002 12:30	STYRENE		0.24	-0.24	ug/L
S39SWA-Q4	12/4/2002 12:00	STYRENE		0.24	-0.24	ug/L
S39SWB-Q1	3/6/2002 13:00	STYRENE		0.24	-0.24	ug/L
S39SWB-Q2	6/4/2002 12:40	STYRENE		0.24	-0.24	ug/L
S39SWB-Q3	9/11/2002 14:23	STYRENE		0.24	-0.24	ug/L
S39SWB-Q4	12/3/2002 11:30	STYRENE		0.24	-0.24	ug/L
S39SWD-Q1	3/5/2002 14:35	STYRENE		0.24	-0.24	ug/L
S39SWD-Q2	6/5/2002 11:30	STYRENE		0.24	-0.24	ug/L
S39SWD-Q3	9/9/2002 12:15	STYRENE		0.24	-0.24	ug/L
S39SWD-Q4	12/2/2002 11:45	STYRENE		0.24	-0.24	ug/L
S39SWA-Q1	3/7/2002 10:30	SULFATE		0.081	3	mg/L
S39SWA-Q2	6/6/2002 12:00	SULFATE	J4	0.081	54	mg/L
S39SWA-Q3	9/10/2002 12:30	SULFATE		0.081	120	mg/L
S39SWA-Q4	12/4/2002 12:00	SULFATE		0.081	54	mg/L
S39SWB-Q1	3/6/2002 13:00	SULFATE		0.081	23	mg/L
S39SWB-Q2	6/4/2002 12:40	SULFATE	J4	0.081	52	mg/L
S39SWB-Q3	9/11/2002 14:23	SULFATE		0.081	72	mg/L
S39SWB-Q4	12/3/2002 11:30	SULFATE		0.081	38	mg/L
S39SWD-Q1	3/5/2002 14:35	SULFATE	J3	0.081	25	mg/L
S39SWD-Q2	6/5/2002 11:30	SULFATE		0.081	50	mg/L
S39SWD-Q3	9/9/2002 12:15	SULFATE		0.081	64	mg/L
S39SWD-Q4	12/2/2002 11:45	SULFATE		0.081	27	mg/L
S39SWA-Q1	3/7/2002 10:30	SULFIDE		0.013	-0.05	mg/L
S39SWA-Q2	6/6/2002 12:00	SULFIDE		0.013	-0.05	mg/L
S39SWA-Q3	9/10/2002 12:30	SULFIDE		0.013	-0.05	mg/L
S39SWA-Q4	12/4/2002 12:00	SULFIDE		0.013	-0.05	mg/L
S39SWB-Q1	3/6/2002 13:00	SULFIDE		0.013	-0.05	mg/L
S39SWB-Q2	6/4/2002 12:40	SULFIDE		0.013	-0.05	mg/L
S39SWB-Q3	9/11/2002 14:23	SULFIDE		0.013	-0.05	mg/L
S39SWB-Q4	12/3/2002 11:30	SULFIDE		0.013	-0.05	mg/L
S39SWD-Q1	3/5/2002 14:35	SULFIDE		0.013	-0.05	mg/L
S39SWD-Q2	6/5/2002 11:30	SULFIDE		0.013	-0.05	mg/L
S39SWD-Q3	9/9/2002 12:15	SULFIDE		0.013	-0.05	mg/L
S39SWD-Q4	12/2/2002 11:45	SULFIDE		0.013	-0.05	mg/L
S39SWA-Q1	3/7/2002 10:30	TEMP			19.1	Deg C
S39SWA-Q2	6/6/2002 12:00	TEMP			30.2	Deg C
S39SWA-Q3	9/10/2002 12:30	TEMP			30.4	Deg C
S39SWA-Q4	12/4/2002 12:00	TEMP			20.5	Deg C
S39SWB-Q1	3/6/2002 13:00	TEMP			18.4	Deg C
S39SWB-Q2	6/4/2002 12:40	TEMP			30.4	Deg C
S39SWB-Q3	9/11/2002 14:23	TEMP			29.8	Deg C
S39SWB-Q4	12/3/2002 11:30	TEMP			20.3	Deg C
S39SWD-Q1	3/5/2002 14:35	TEMP			19.5	Deg C

Sample ID	Collection_Date	Test Name	Flag	MDL	New Value	Units
S39SWD-Q2	6/5/2002 11:30	TEMP			30.2	Deg C
S39SWD-Q3	9/9/2002 12:15	TEMP			29.7	Deg C
S39SWD-Q4	12/2/2002 11:45	TEMP			21.6	Deg C
S39SWA-Q1	3/7/2002 10:30	TETRACHLOROETHENE		0.26	-0.26	ug/L
S39SWA-Q2	6/6/2002 12:00	TETRACHLOROETHENE		0.26	-0.26	ug/L
S39SWA-Q3	9/10/2002 12:30	TETRACHLOROETHENE		0.26	-0.26	ug/L
S39SWA-Q4	12/4/2002 12:00	TETRACHLOROETHENE		0.26	-0.26	ug/L
S39SWB-Q1	3/6/2002 13:00	TETRACHLOROETHENE		0.26	-0.26	ug/L
S39SWB-Q2	6/4/2002 12:40	TETRACHLOROETHENE		0.26	-0.26	ug/L
S39SWB-Q3	9/11/2002 14:23	TETRACHLOROETHENE		0.26	-0.26	ug/L
S39SWB-Q4	12/3/2002 11:30	TETRACHLOROETHENE		0.26	-0.26	ug/L
S39SWD-Q1	3/5/2002 14:35	TETRACHLOROETHENE		0.26	-0.26	ug/L
S39SWD-Q2	6/5/2002 11:30	TETRACHLOROETHENE		0.26	-0.26	ug/L
S39SWD-Q3	9/9/2002 12:15	TETRACHLOROETHENE		0.26	-0.26	ug/L
S39SWD-Q4	12/2/2002 11:45	TETRACHLOROETHENE		0.26	-0.26	ug/L
S39SWA-Q1	3/7/2002 10:30	THALLIUM, TOTAL		1	-2	ug/L
S39SWA-Q2	6/6/2002 12:00	THALLIUM, TOTAL		0.5	-1	ug/L
S39SWA-Q3	9/10/2002 12:30	THALLIUM, TOTAL		1	2	ug/L
S39SWA-Q4	12/4/2002 12:00	THALLIUM, TOTAL		0.2	-0.2	ug/L
S39SWB-Q1	3/6/2002 13:00	THALLIUM, TOTAL		1	-2	ug/L
S39SWB-Q2	6/4/2002 12:40	THALLIUM, TOTAL		0.5	-1	ug/L
S39SWB-Q3	9/11/2002 14:23	THALLIUM, TOTAL		1	2	ug/L
S39SWB-Q4	12/3/2002 11:30	THALLIUM, TOTAL		0.2	-0.2	ug/L
S39SWD-Q1	3/5/2002 14:35	THALLIUM, TOTAL		1	-2	ug/L
S39SWD-Q2	6/5/2002 11:30	THALLIUM, TOTAL		0.5	-1	ug/L
S39SWD-Q3	9/9/2002 12:15	THALLIUM, TOTAL		1	2	ug/L
S39SWD-Q4	12/2/2002 11:45	THALLIUM, TOTAL		0.2	-0.2	ug/L
S39SWA-Q1	3/7/2002 10:30	TOLUENE		0.18	-0.18	ug/L
S39SWA-Q2	6/6/2002 12:00	TOLUENE		0.18	0.63	ug/L
S39SWA-Q3	9/10/2002 12:30	TOLUENE		0.18	-0.18	ug/L
S39SWA-Q4	12/4/2002 12:00	TOLUENE		0.18	1.4	ug/L
S39SWB-Q1	3/6/2002 13:00	TOLUENE	V	0.18	0.36	ug/L
S39SWB-Q2	6/4/2002 12:40	TOLUENE		0.18	-0.18	ug/L
S39SWB-Q3	9/11/2002 14:23	TOLUENE		0.18	-0.18	ug/L
S39SWB-Q4	12/3/2002 11:30	TOLUENE		0.18	-0.18	ug/L
S39SWD-Q1	3/5/2002 14:35	TOLUENE		0.18	-0.18	ug/L
S39SWD-Q2	6/5/2002 11:30	TOLUENE		0.18	-0.18	ug/L
S39SWD-Q3	9/9/2002 12:15	TOLUENE		0.18	-0.18	ug/L
S39SWD-Q4	12/2/2002 11:45	TOLUENE		0.18	3.1	ug/L
S39SWA-Q1	3/7/2002 10:30	TOTAL COLIFORM, MF	J5	1	1,115	CFU/100m
S39SWA-Q2	6/6/2002 12:00	TOTAL COLIFORM, MF	J5	1	1,210	CFU/100m
S39SWA-Q3	9/10/2002 12:30	TOTAL COLIFORM, MF	J5	1	5,780	CFU/100m
S39SWA-Q4	12/4/2002 12:00	TOTAL COLIFORM, MF	J5	1	2,100	CFU/100m
S39SWB-Q1	3/6/2002 13:00	TOTAL COLIFORM, MF	J5	1	230	CFU/100m
S39SWB-Q2	6/4/2002 12:40	TOTAL COLIFORM, MF	J5	1	320	CFU/100m
S39SWB-Q4	12/3/2002 11:30	TOTAL COLIFORM, MF	J5	1	400	CFU/100m
S39SWD-Q1	3/5/2002 14:35	TOTAL COLIFORM, MF	J5	1	3,412	CFU/100m
S39SWD-Q2	6/5/2002 11:30	TOTAL COLIFORM, MF	J5	1	920	CFU/100m
S39SWD-Q3	9/9/2002 12:15	TOTAL COLIFORM, MF	J5	1	1,270	CFU/100m
S39SWD-Q4	12/2/2002 11:45	TOTAL COLIFORM, MF	J5	1	1,000	CFU/100m
S39SWA-Q3	9/10/2002 12:30	TOTAL COLIFORM, MPN		2	500	MPN/100m
S39SWA-Q4	12/4/2002 12:00	TOTAL COLIFORM, MPN	J3	2	500	MPN/100m
S39SWB-Q3	9/11/2002 14:23	TOTAL COLIFORM, MPN		2	240	MPN/100m
S39SWB-Q4	12/3/2002 11:30	TOTAL COLIFORM, MPN		2	80	MPN/100m
S39SWD-Q3	9/9/2002 12:15	TOTAL COLIFORM, MPN		2	300	MPN/100m
S39SWD-Q4	12/2/2002 11:45	TOTAL COLIFORM, MPN		2	240	MPN/100m
S39SWA-Q1	3/7/2002 10:30	TOTAL DISSOLVED SOLIDS			130	MG/L
S39SWA-Q2	6/6/2002 12:00	TOTAL DISSOLVED SOLIDS			510	MG/L
S39SWA-Q3	9/10/2002 12:30	TOTAL DISSOLVED SOLIDS			640	MG/L

Sample ID	Collection_Date	Test Name	Flag	MDL	New Value	Units
S39SWA-Q4	12/4/2002 12:00	TOTAL DISSOLVED SOLIDS			470	MG/L
S39SWB-Q1	3/6/2002 13:00	TOTAL DISSOLVED SOLIDS			310	MG/L
S39SWB-Q2	6/4/2002 12:40	TOTAL DISSOLVED SOLIDS			530	MG/L
S39SWB-Q3	9/11/2002 14:23	TOTAL DISSOLVED SOLIDS			580	MG/L
S39SWB-Q4	12/3/2002 11:30	TOTAL DISSOLVED SOLIDS			490	MG/L
S39SWD-Q1	3/5/2002 14:35	TOTAL DISSOLVED SOLIDS			340	MG/L
S39SWD-Q2	6/5/2002 11:30	TOTAL DISSOLVED SOLIDS			520	MG/L
S39SWD-Q3	9/9/2002 12:15	TOTAL DISSOLVED SOLIDS			560	MG/L
S39SWD-Q4	12/2/2002 11:45	TOTAL DISSOLVED SOLIDS			420	MG/L
S39SWA-Q1	3/7/2002 10:30	TOTAL NITROGEN	J3		0.86	MG N/L
S39SWA-Q2	6/6/2002 12:00	TOTAL NITROGEN	J4		1.1	MG N/L
S39SWA-Q3	9/10/2002 12:30	TOTAL NITROGEN	J4		1.6	MG N/L
S39SWA-Q4	12/4/2002 12:00	TOTAL NITROGEN	V		1.2	MG N/L
S39SWB-Q1	3/6/2002 13:00	TOTAL NITROGEN			0.92	MG N/L
S39SWB-Q2	6/4/2002 12:40	TOTAL NITROGEN			1.9	MG N/L
S39SWB-Q3	9/11/2002 14:23	TOTAL NITROGEN			1.3	MG N/L
S39SWB-Q4	12/3/2002 11:30	TOTAL NITROGEN	V		1.4	MG N/L
S39SWD-Q1	3/5/2002 14:35	TOTAL NITROGEN			0.76	MG N/L
S39SWD-Q2	6/5/2002 11:30	TOTAL NITROGEN	J		-0.25	MG N/L
S39SWD-Q3	9/9/2002 12:15	TOTAL NITROGEN			1.4	MG N/L
S39SWD-Q4	12/2/2002 11:45	TOTAL NITROGEN	V		1.4	MG N/L
S39SWA-Q1	3/7/2002 10:30	TOTAL SUSPENDED SOLIDS			-5	mg/L
S39SWA-Q2	6/6/2002 12:00	TOTAL SUSPENDED SOLIDS			6	mg/L
S39SWA-Q3	9/10/2002 12:30	TOTAL SUSPENDED SOLIDS			-5	mg/L
S39SWA-Q4	12/4/2002 12:00	TOTAL SUSPENDED SOLIDS			-5	mg/L
S39SWB-Q1	3/6/2002 13:00	TOTAL SUSPENDED SOLIDS			-5	mg/L
S39SWB-Q2	6/4/2002 12:40	TOTAL SUSPENDED SOLIDS			-5	mg/L
S39SWB-Q3	9/11/2002 14:23	TOTAL SUSPENDED SOLIDS			-5	mg/L
S39SWB-Q4	12/3/2002 11:30	TOTAL SUSPENDED SOLIDS			-5	mg/L
S39SWD-Q1	3/5/2002 14:35	TOTAL SUSPENDED SOLIDS			-5	mg/L
S39SWD-Q2	6/5/2002 11:30	TOTAL SUSPENDED SOLIDS			-5	mg/L
S39SWD-Q3	9/9/2002 12:15	TOTAL SUSPENDED SOLIDS			7	mg/L
S39SWD-Q4	12/2/2002 11:45	TOTAL SUSPENDED SOLIDS			-5	mg/L
S39SWA-Q1	3/7/2002 10:30	TOXAPHENE	Q	0.95	-0.95	ug/L
S39SWA-Q2	6/6/2002 12:00	TOXAPHENE	Q	0.86	-0.86	ug/L
S39SWA-Q3	9/10/2002 12:30	TOXAPHENE		0.97	-0.97	ug/L
S39SWA-Q4	12/4/2002 12:00	TOXAPHENE	J3	0.94	-0.94	ug/L
S39SWB-Q1	3/6/2002 13:00	TOXAPHENE	Q	0.97	-0.97	ug/L
S39SWB-Q2	6/4/2002 12:40	TOXAPHENE	Q	0.88	-0.88	ug/L
S39SWB-Q3	9/11/2002 14:23	TOXAPHENE		0.98	-0.98	ug/L
S39SWB-Q4	12/3/2002 11:30	TOXAPHENE	J3	0.98	-0.98	ug/L
S39SWD-Q1	3/5/2002 14:35	TOXAPHENE	Q	1	-1	ug/L
S39SWD-Q2	6/5/2002 11:30	TOXAPHENE	Q	0.86	-0.86	ug/L
S39SWD-Q3	9/9/2002 12:15	TOXAPHENE		0.94	-0.94	ug/L
S39SWD-Q4	12/2/2002 11:45	TOXAPHENE	J3	0.97	-0.97	ug/L
S39SWA-Q1	3/7/2002 10:30	TRANS-1,2-DICHLOROETHENE		0.18	-0.18	ug/L
S39SWA-Q2	6/6/2002 12:00	TRANS-1,2-DICHLOROETHENE		0.18	-0.18	ug/L
S39SWA-Q3	9/10/2002 12:30	TRANS-1,2-DICHLOROETHENE		0.18	-0.18	ug/L
S39SWA-Q4	12/4/2002 12:00	TRANS-1,2-DICHLOROETHENE		0.18	-0.18	ug/L
S39SWB-Q1	3/6/2002 13:00	TRANS-1,2-DICHLOROETHENE		0.18	-0.18	ug/L
S39SWB-Q2	6/4/2002 12:40	TRANS-1,2-DICHLOROETHENE		0.18	-0.18	ug/L
S39SWB-Q3	9/11/2002 14:23	TRANS-1,2-DICHLOROETHENE		0.18	-0.18	ug/L
S39SWB-Q4	12/3/2002 11:30	TRANS-1,2-DICHLOROETHENE		0.18	-0.18	ug/L
S39SWD-Q1	3/5/2002 14:35	TRANS-1,2-DICHLOROETHENE		0.18	-0.18	ug/L
S39SWD-Q2	6/5/2002 11:30	TRANS-1,2-DICHLOROETHENE		0.18	-0.18	ug/L
S39SWD-Q3	9/9/2002 12:15	TRANS-1,2-DICHLOROETHENE		0.18	-0.18	ug/L
S39SWD-Q4	12/2/2002 11:45	TRANS-1,2-DICHLOROETHENE		0.18	-0.18	ug/L
S39SWA-Q1	3/7/2002 10:30	TRICHLOROETHENE		0.21	-0.21	ug/L
S39SWA-Q2	6/6/2002 12:00	TRICHLOROETHENE		0.21	-0.21	ug/L

Sample ID	Collection_Date	Test Name	Flag	MDL	New Value	Units
S39SWA-Q3	9/10/2002 12:30	TRICHLOROETHENE		0.21	-0.21	ug/L
S39SWA-Q4	12/4/2002 12:00	TRICHLOROETHENE		0.21	-0.21	ug/L
S39SWB-Q1	3/6/2002 13:00	TRICHLOROETHENE		0.21	-0.21	ug/L
S39SWB-Q2	6/4/2002 12:40	TRICHLOROETHENE		0.21	-0.21	ug/L
S39SWB-Q3	9/11/2002 14:23	TRICHLOROETHENE		0.21	-0.21	ug/L
S39SWB-Q4	12/3/2002 11:30	TRICHLOROETHENE		0.21	-0.21	ug/L
S39SWD-Q1	3/5/2002 14:35	TRICHLOROETHENE		0.21	-0.21	ug/L
S39SWD-Q2	6/5/2002 11:30	TRICHLOROETHENE		0.21	-0.21	ug/L
S39SWD-Q3	9/9/2002 12:15	TRICHLOROETHENE		0.21	-0.21	ug/L
S39SWD-Q4	12/2/2002 11:45	TRICHLOROETHENE		0.21	-0.21	ug/L
S39SWA-Q1	3/7/2002 10:30	TRICHLOROFLUOROMETHANE	?	3	-3	ug/L
S39SWA-Q2	6/6/2002 12:00	TRICHLOROFLUOROMETHANE		0.2	-0.2	ug/L
S39SWA-Q3	9/10/2002 12:30	TRICHLOROFLUOROMETHANE		0.2	-0.2	ug/L
S39SWA-Q4	12/4/2002 12:00	TRICHLOROFLUOROMETHANE		0.2	-0.2	ug/L
S39SWB-Q1	3/6/2002 13:00	TRICHLOROFLUOROMETHANE	?	3	-3	ug/L
S39SWB-Q2	6/4/2002 12:40	TRICHLOROFLUOROMETHANE		0.2	-0.2	ug/L
S39SWB-Q3	9/11/2002 14:23	TRICHLOROFLUOROMETHANE		0.2	-0.2	ug/L
S39SWB-Q4	12/3/2002 11:30	TRICHLOROFLUOROMETHANE		0.2	-0.2	ug/L
S39SWD-Q1	3/5/2002 14:35	TRICHLOROFLUOROMETHANE	?	3	-3	ug/L
S39SWD-Q2	6/5/2002 11:30	TRICHLOROFLUOROMETHANE		0.2	-0.2	ug/L
S39SWD-Q3	9/9/2002 12:15	TRICHLOROFLUOROMETHANE		0.2	-0.2	ug/L
S39SWD-Q4	12/2/2002 11:45	TRICHLOROFLUOROMETHANE		0.2	-0.2	ug/L
S39SWA-Q1	3/7/2002 10:30	TRITIUM		121	200	PCI/L
S39SWA-Q2	6/6/2002 12:00	TRITIUM		122	100	PCI/L
S39SWA-Q3	9/10/2002 12:30	TRITIUM		134	-100	PCI/L
S39SWA-Q4	12/4/2002 12:00	TRITIUM		96.9	-96.9	PCI/L
S39SWB-Q1	3/6/2002 13:00	TRITIUM		120	200	PCI/L
S39SWB-Q2	6/4/2002 12:40	TRITIUM		123	100	PCI/L
S39SWB-Q3	9/11/2002 14:23	TRITIUM		137	-100	PCI/L
S39SWB-Q4	12/3/2002 11:30	TRITIUM		102	-100	PCI/L
S39SWD-Q1	3/5/2002 14:35	TRITIUM		121	100	PCI/L
S39SWD-Q2	6/5/2002 11:30	TRITIUM		122	100	PCI/L
S39SWD-Q3	9/9/2002 12:15	TRITIUM		135	-100	PCI/L
S39SWD-Q4	12/2/2002 11:45	TRITIUM		102	-100	PCI/L
S39SWA-Q1	3/7/2002 10:30	URANIUM, TOTAL		0.00978	0.0457	UG/L
S39SWA-Q2	6/6/2002 12:00	URANIUM, TOTAL		0.00978	0.202	UG/L
S39SWA-Q3	9/10/2002 12:30	URANIUM, TOTAL		0.00978	0.392	UG/L
S39SWA-Q4	12/4/2002 12:00	URANIUM, TOTAL		0.00978	0.297	UG/L
S39SWB-Q1	3/6/2002 13:00	URANIUM, TOTAL		0.00978	0.136	UG/L
S39SWB-Q2	6/4/2002 12:40	URANIUM, TOTAL		0.00978	0.164	UG/L
S39SWB-Q3	9/11/2002 14:23	URANIUM, TOTAL		0.00978	0.274	UG/L
S39SWB-Q4	12/3/2002 11:30	URANIUM, TOTAL		0.00978	0.289	UG/L
S39SWD-Q1	3/5/2002 14:35	URANIUM, TOTAL		0.00978	-0.00978	UG/L
S39SWD-Q2	6/5/2002 11:30	URANIUM, TOTAL		0.00978	0.344	UG/L
S39SWD-Q3	9/9/2002 12:15	URANIUM, TOTAL		0.00978	0.42	UG/L
S39SWD-Q4	12/2/2002 11:45	URANIUM, TOTAL		0.00978	1.01	UG/L
S39SWA-Q1	3/7/2002 10:30	VANADIUM, TOTAL		0.4	-4	ug/L
S39SWA-Q2	6/6/2002 12:00	VANADIUM, TOTAL		0.2	1.3	ug/L
S39SWA-Q3	9/10/2002 12:30	VANADIUM, TOTAL		0.4	4	ug/L
S39SWA-Q4	12/4/2002 12:00	VANADIUM, TOTAL		0.4	0.9	ug/L
S39SWB-Q1	3/6/2002 13:00	VANADIUM, TOTAL		0.4	-4	ug/L
S39SWB-Q2	6/4/2002 12:40	VANADIUM, TOTAL		0.2	0.8	ug/L
S39SWB-Q3	9/11/2002 14:23	VANADIUM, TOTAL		0.4	4	ug/L
S39SWB-Q4	12/3/2002 11:30	VANADIUM, TOTAL		0.4	0.7	ug/L
S39SWD-Q1	3/5/2002 14:35	VANADIUM, TOTAL		0.4	-4	ug/L
S39SWD-Q2	6/5/2002 11:30	VANADIUM, TOTAL		0.2	1.1	ug/L
S39SWD-Q3	9/9/2002 12:15	VANADIUM, TOTAL		0.4	4	ug/L
S39SWD-Q4	12/2/2002 11:45	VANADIUM, TOTAL		0.4	1.5	ug/L
S39SWA-Q1	3/7/2002 10:30	VINYL CHLORIDE		0.33	-0.33	ug/L

Sample ID	Collection_Date	Test Name	Flag	MDL	New Value	Units
S39SWA-Q2	6/6/2002 12:00	VINYL CHLORIDE		0.33	-0.33	ug/L
S39SWA-Q3	9/10/2002 12:30	VINYL CHLORIDE		0.33	-0.33	ug/L
S39SWA-Q4	12/4/2002 12:00	VINYL CHLORIDE		0.33	-0.33	ug/L
S39SWB-Q1	3/6/2002 13:00	VINYL CHLORIDE		0.33	-0.33	ug/L
S39SWB-Q2	6/4/2002 12:40	VINYL CHLORIDE		0.33	-0.33	ug/L
S39SWB-Q3	9/11/2002 14:23	VINYL CHLORIDE		0.33	-0.33	ug/L
S39SWB-Q4	12/3/2002 11:30	VINYL CHLORIDE		0.33	-0.33	ug/L
S39SWD-Q1	3/5/2002 14:35	VINYL CHLORIDE		0.33	-0.33	ug/L
S39SWD-Q2	6/5/2002 11:30	VINYL CHLORIDE		0.33	-0.33	ug/L
S39SWD-Q3	9/9/2002 12:15	VINYL CHLORIDE		0.33	-0.33	ug/L
S39SWD-Q4	12/2/2002 11:45	VINYL CHLORIDE		0.33	-0.33	ug/L
S39SWA-Q1	3/7/2002 10:30	XYLENES (TOTAL)		0.3	-0.3	ug/L
S39SWA-Q2	6/6/2002 12:00	XYLENES (TOTAL)		0.3	0.7	ug/L
S39SWA-Q3	9/10/2002 12:30	XYLENES (TOTAL)		0.3	-0.3	ug/L
S39SWA-Q4	12/4/2002 12:00	XYLENES (TOTAL)		0.3	1.1	ug/L
S39SWB-Q1	3/6/2002 13:00	XYLENES (TOTAL)		0.3	-0.3	ug/L
S39SWB-Q2	6/4/2002 12:40	XYLENES (TOTAL)		0.3	-0.3	ug/L
S39SWB-Q3	9/11/2002 14:23	XYLENES (TOTAL)		0.3	-0.3	ug/L
S39SWB-Q4	12/3/2002 11:30	XYLENES (TOTAL)		0.3	-0.3	ug/L
S39SWD-Q1	3/5/2002 14:35	XYLENES (TOTAL)		0.3	-0.3	ug/L
S39SWD-Q2	6/5/2002 11:30	XYLENES (TOTAL)		0.3	-0.3	ug/L
S39SWD-Q3	9/9/2002 12:15	XYLENES (TOTAL)		0.3	-0.3	ug/L
S39SWD-Q4	12/2/2002 11:45	XYLENES (TOTAL)		0.3	1.1	ug/L
S39SWA-Q1	3/7/2002 10:30	ZINC, TOTAL		10	-50	ug/L
S39SWA-Q2	6/6/2002 12:00	ZINC, TOTAL		5	150	ug/L
S39SWA-Q3	9/10/2002 12:30	ZINC, TOTAL		10	50	ug/L
S39SWA-Q4	12/4/2002 12:00	ZINC, TOTAL		10	-10	ug/L
S39SWB-Q1	3/6/2002 13:00	ZINC, TOTAL		10	-50	ug/L
S39SWB-Q2	6/4/2002 12:40	ZINC, TOTAL		5	160	ug/L
S39SWB-Q3	9/11/2002 14:23	ZINC, TOTAL		10	50	ug/L
S39SWB-Q4	12/3/2002 11:30	ZINC, TOTAL		10	-10	ug/L
S39SWD-Q1	3/5/2002 14:35	ZINC, TOTAL		10	-50	ug/L
S39SWD-Q2	6/5/2002 11:30	ZINC, TOTAL		5	77	ug/L
S39SWD-Q3	9/9/2002 12:15	ZINC, TOTAL		10	50	ug/L
S39SWD-Q4	12/2/2002 11:45	ZINC, TOTAL		10	-10	ug/L

Appendix C

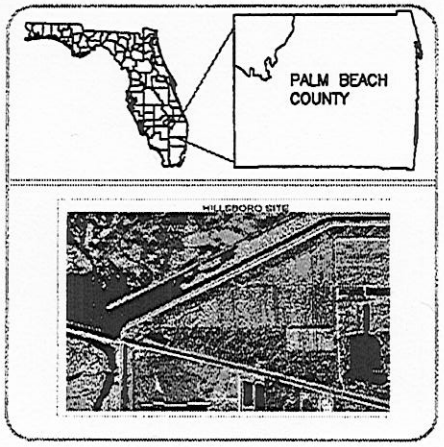
Conceptual Design of Surface Facilities

HILLSBORO CANAL
AQUIFER STORAGE AND RECOVERY
PILOT PROJECT

Prepared for

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

LOCATION MAP



DRAWING INDEX

SHEET No.	DESCRIPTION
G-1	COVER SHEET
C-1	CONCEPTUAL SITE LAYOUT
C-2	PROCESS SCHEMATIC
C-3	INTAKE STRUCTURE DESIGN
C-4	INTAKE PUMP DESIGN
C-5	PRESSURE FILTER DESIGN
C-6	UV SCHEMATIC

PROTECTOR OF THE EVERGLADES SINCE 1949

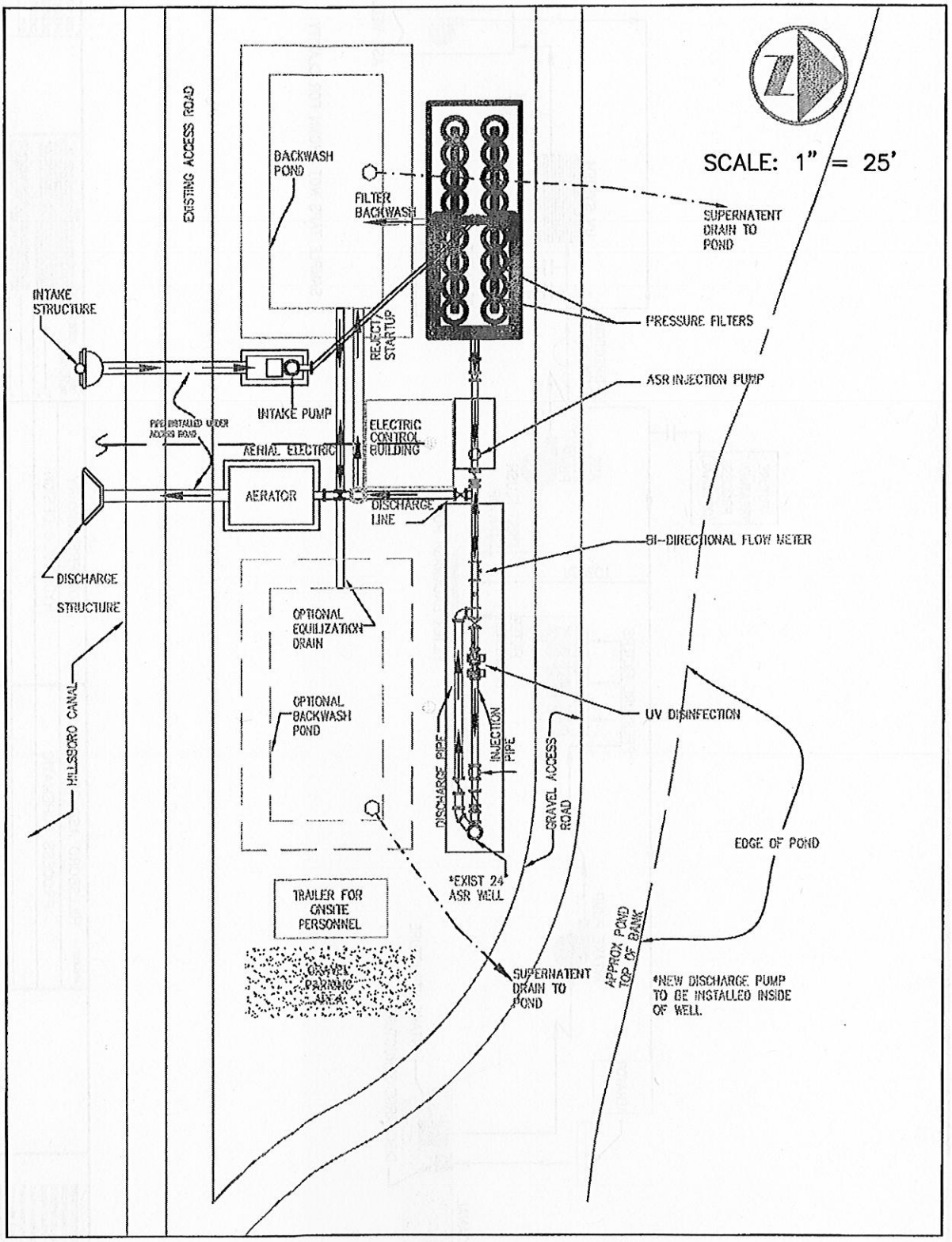
ALL WORK NOT OTHERWISE SPECIFIED SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION, ROADWAY AND TRAFFIC DESIGN STANDARDS (DATED JAN. 2000), THE FLORIDA DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (DATED 2000) AND SUPPLEMENTS THERETO, AND THE BREVARD COUNTY STORMWATER MANAGEMENT CRITERIA – 1993.

30% SUBMITTAL

Prepared by

PBSJ
3230 COMMERCE PLACE
SUITE A
WEST PALM BEACH, FL 33407
TELEPHONE (561) 689-7275
Fax. (561) 689-3864
www.pbsj.com

ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN REDUCED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.



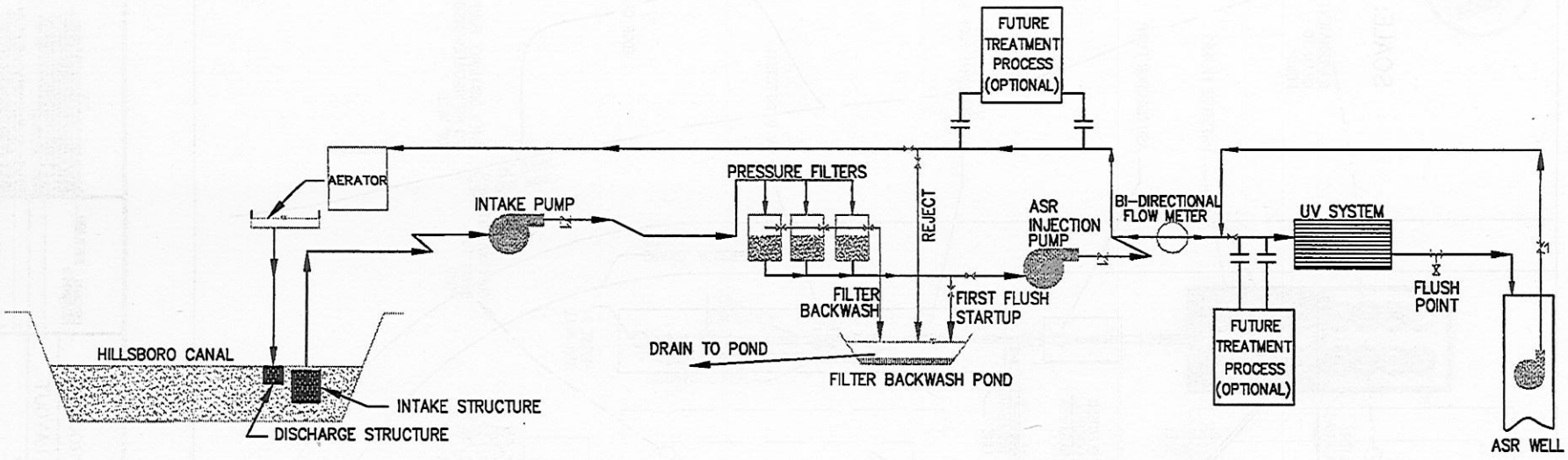
PBSJ
POST, BUCKLEY, SCHUH & JERNIGAN, INC.

PROJECT: HILLSBORO ASR PROJECT
CONCEPTUAL SITE LAYOUT
TASK: 30% PRELIMINARY
HYDRAULIC DESIGN

ORIGINAL MARCH 2004
REVISIONS:
1.
2.
3.
4.
5.

JOB NO. 100261
DRAWN AJO
DESIGNED JD
CHECKED PD
Q.C.

C – 1



SAMPLE TAPS NOT SHOWN FOR CLARITY

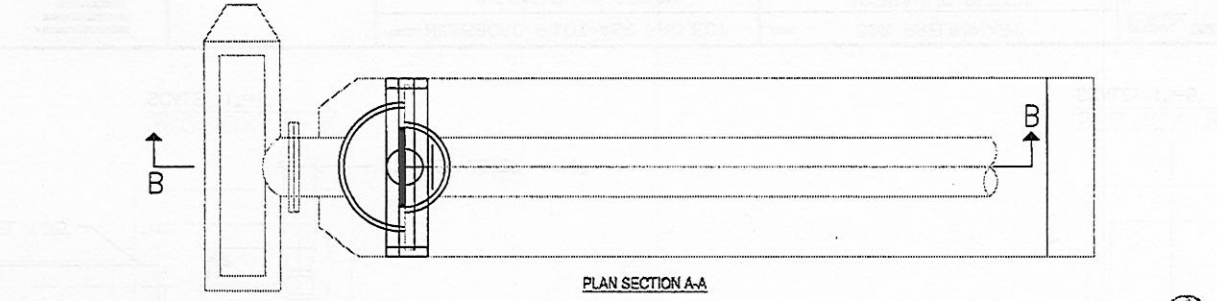
PBSJ
ARCHITECTURE
ENGINEERING
SURVEYING
PLANNING
POST, BUCKLEY, SCHUH & JERNIGAN, INC.

PROJECT	HILLSBORO ASR PROJECT
	PROCESS SCHEMATIC
TASK	30% PRELIMINARY
	HYDRAULIC DESIGN

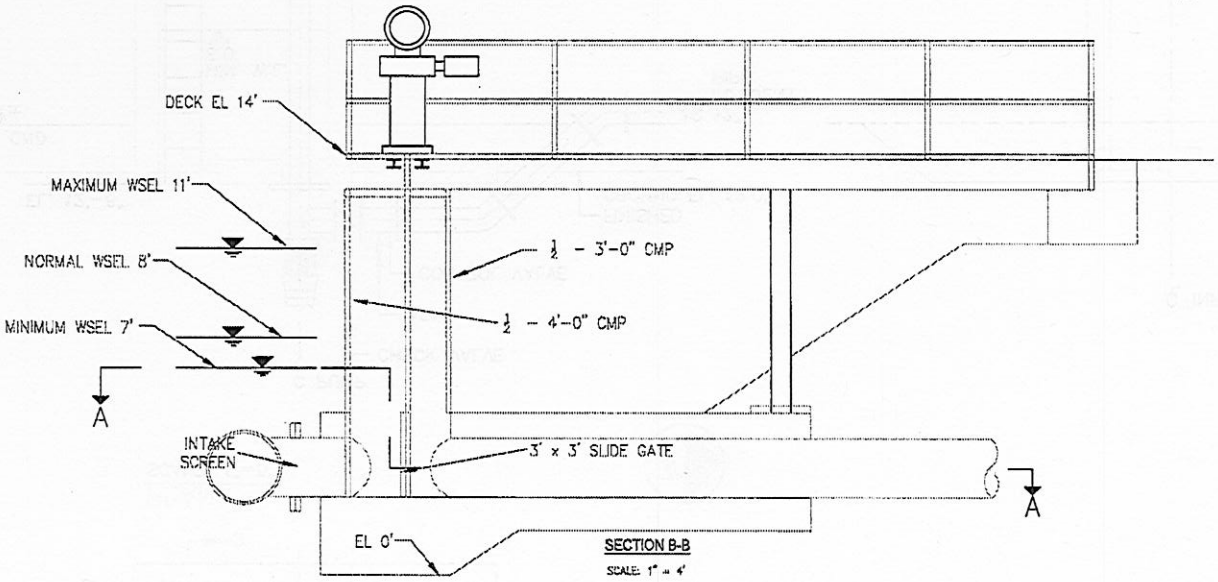
ORIGINAL MARCH 2004
REVISIONS:
1.
2.
3.
4.
5.

JOB NO. 100281
DRAWN AD
DESIGNED JD
CHECKED PD
Q.C.

C – 2



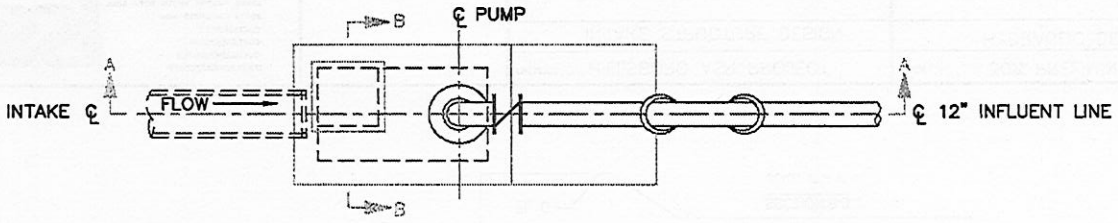
PLAN SECTION A-A



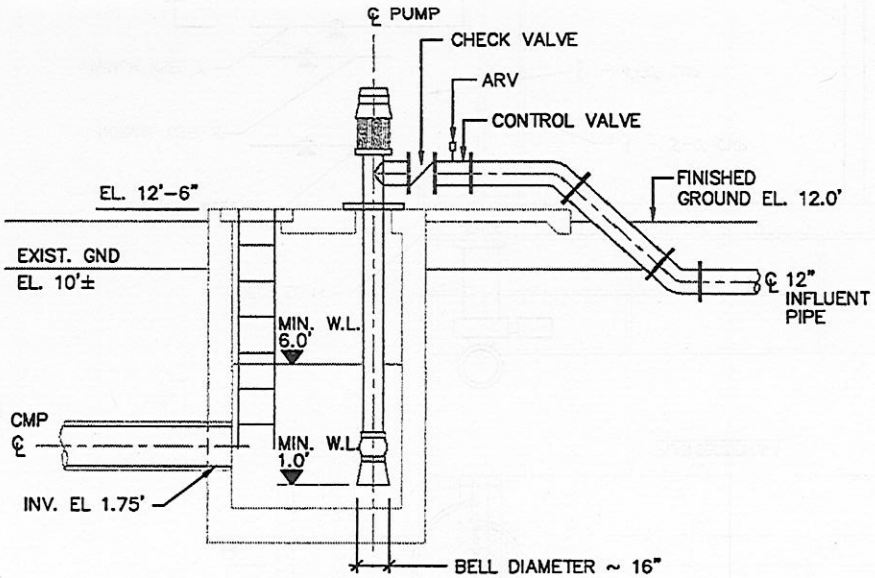
SECTION B-B

SCALE: 1" = 4'

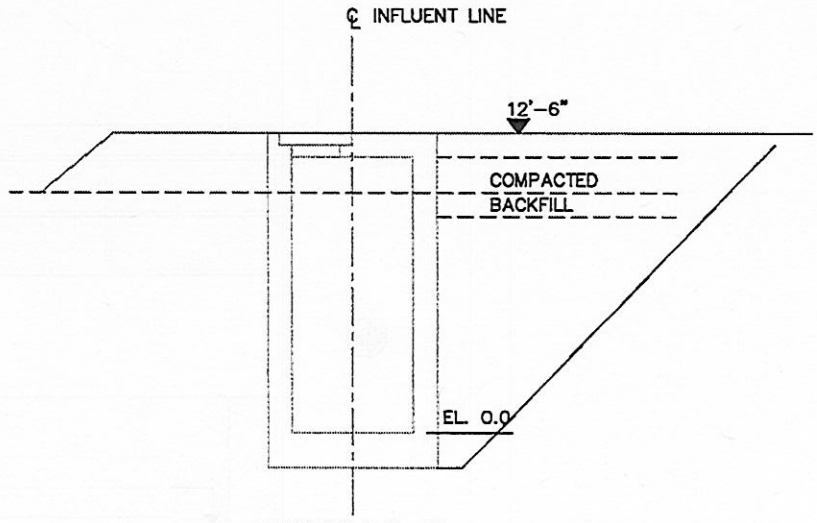
PBSJ ARCHITECTURE ENGINEERING SURVEYING PLANNING 5800 CORPORATE PLACE WEST PALM BEACH, FLORIDA 33407 TELEPHONE (561) 640-7575 POST, BUCKLEY, SCHUH & JERNIGAN, INC.		PROJECT . HILLSBORO ASR PROJECT INTAKE STRUCTURE DESIGN	TASK 30% PRELIMINARY HYDRAULIC DESIGN	ORIGINAL REVISIONS: MARCH 2004 1. 2. 3. 4. 5.	JOB NO. 100281 DRAWN AJD DESIGNED JD CHECKED PD Q.C. C – 3



PLAN
SCALE: 1"=5'

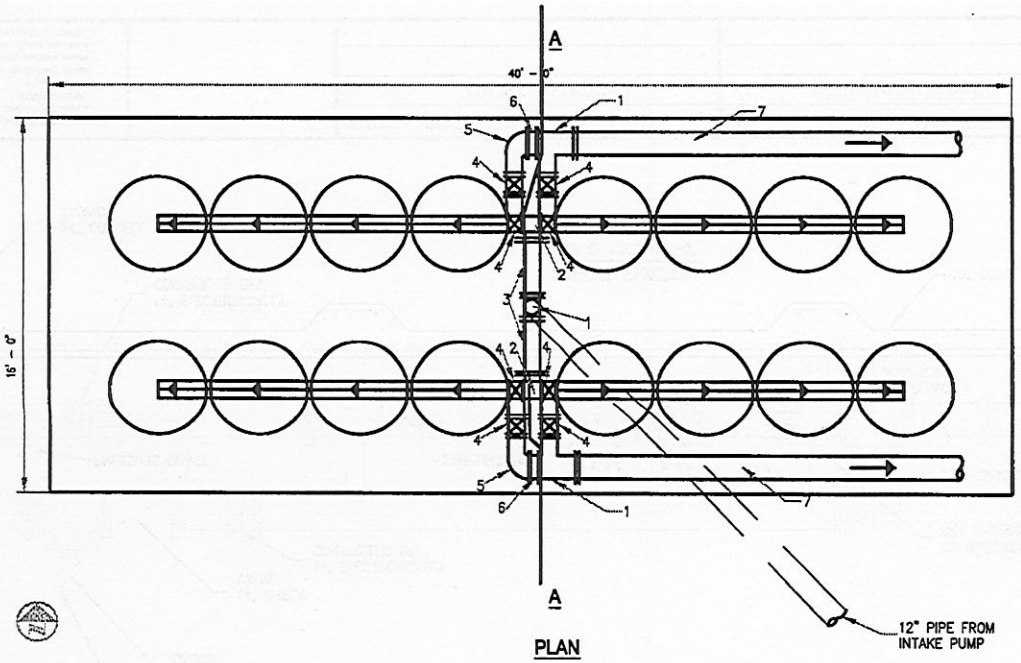


SECTION A-A
SCALE: 1"=5'



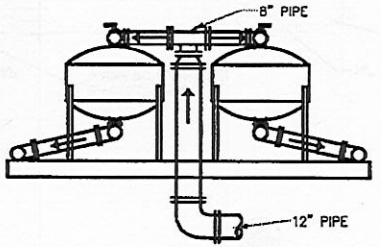
SECTION B-B
SCALE: 1"=5'

PBSJ ARCHITECTURE ENGINEERING SURVEYING PLANNING — POST, BUCKLEY, SCHUH & JERNIGAN, INC.		PROJECT HILLSBORO PILOT ASR PROJECT	TASK 30% PRELIMINARY	ORIGINAL MARCH 2004 REVISIONS: 1. 2. 3. 4. 5.	JOB NO. 100281.03 DRAWN AJD DESIGNED JD CHECKED PD Q.C.
		INTAKE PUMP DESIGN	HYDRAULIC DESIGN		C – 4

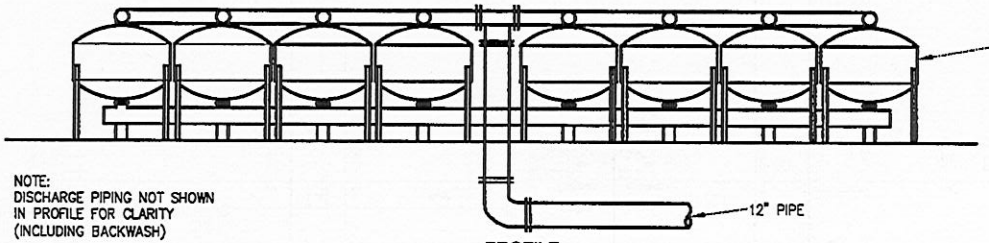


PLAN

1. 12"x8" TEE, FxF
2. 8"x8" TEE, FxF
3. 8" PIPE SPOOL, FxF
4. 8" BFV, FxF
5. 8" ELBOW, FxF
6. 12"x8" RED, FxF
7. 12" PIPE



SECTION A-A



NOTE:
DISCHARGE PIPING NOT SHOWN
IN PROFILE FOR CLARITY
(INCLUDING BACKWASH)

PROFILE
SCALE: 1" = 5'

PBSJ
ARCHITECTURE
ENGINEERING
SURVEYING
PLANNING
POST, BUCKLEY, SCHUH & JERNIGAN, INC.

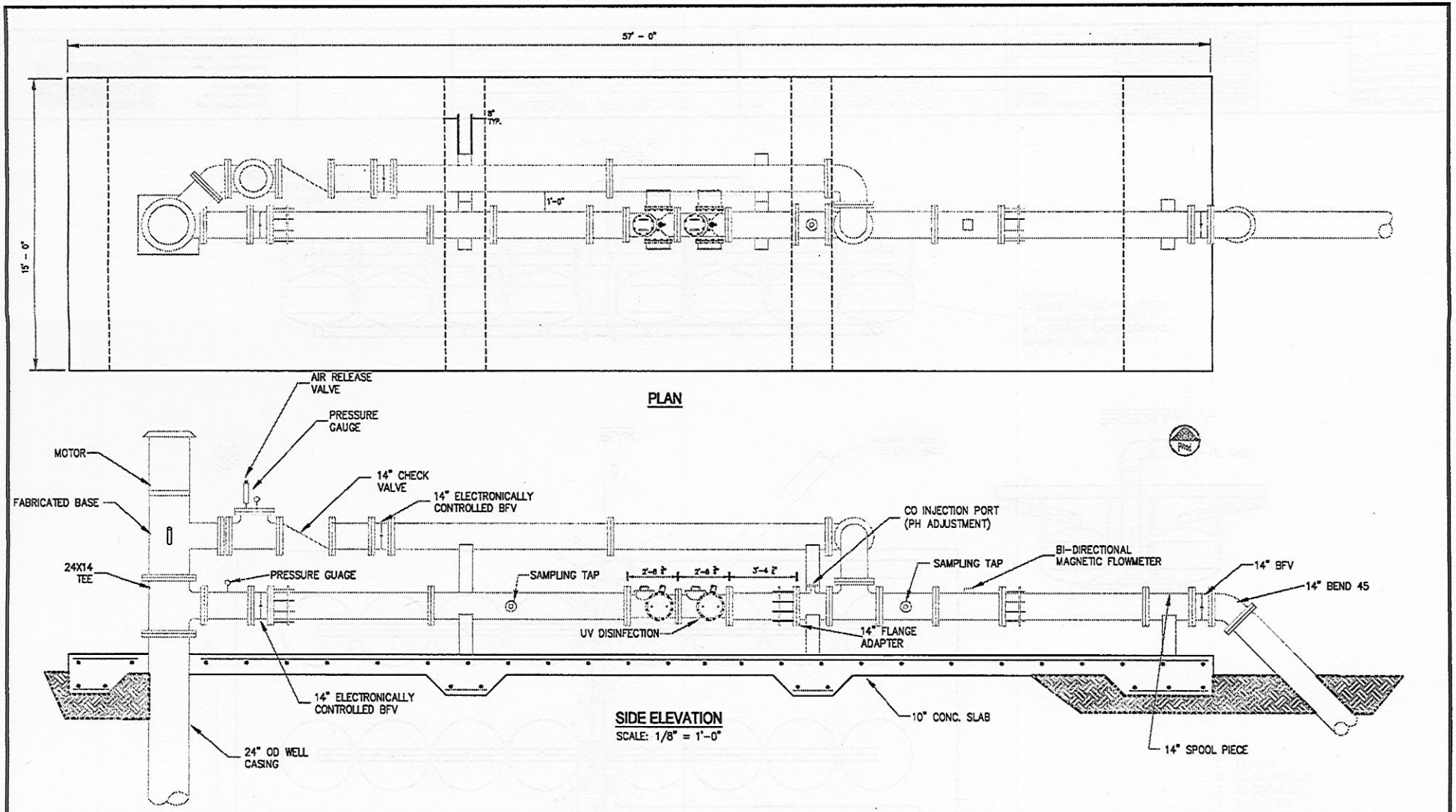
PROJECT: HILLSBORO ASR PROJECT
PRESSURE FILTER DESIGN

TASK: 30% PRELIMINARY
HYDRAULIC DESIGN

ORIGINAL MARCH 2004
REVISIONS:
1.
2.
3.
4.
5.

JOB NO. 100281
DRAWN AJD
DESIGNED JD
CHECKED PD
Q.C.

C - 5



PBSJ
ARCHITECTURE
ENGINEERING
SURVEYING
PLANNING
POST, BUCKLEY, SCHUH & JERNIGAN, INC.

PROJECT	HILLSBORO ASR PROJECT	TASK	30% PRELIMINARY
	UV SCHEMATIC		HYDRAULIC DESIGN

ORIGINAL REVISIONS: MARCH 2004
1.
2.
3.
4.
5.

JOB NO. 100281
DRAWN AJD
DESIGNED JD
CHECKED PD
Q.C.

C – 6

Appendix D

Groundwater Modeling Results

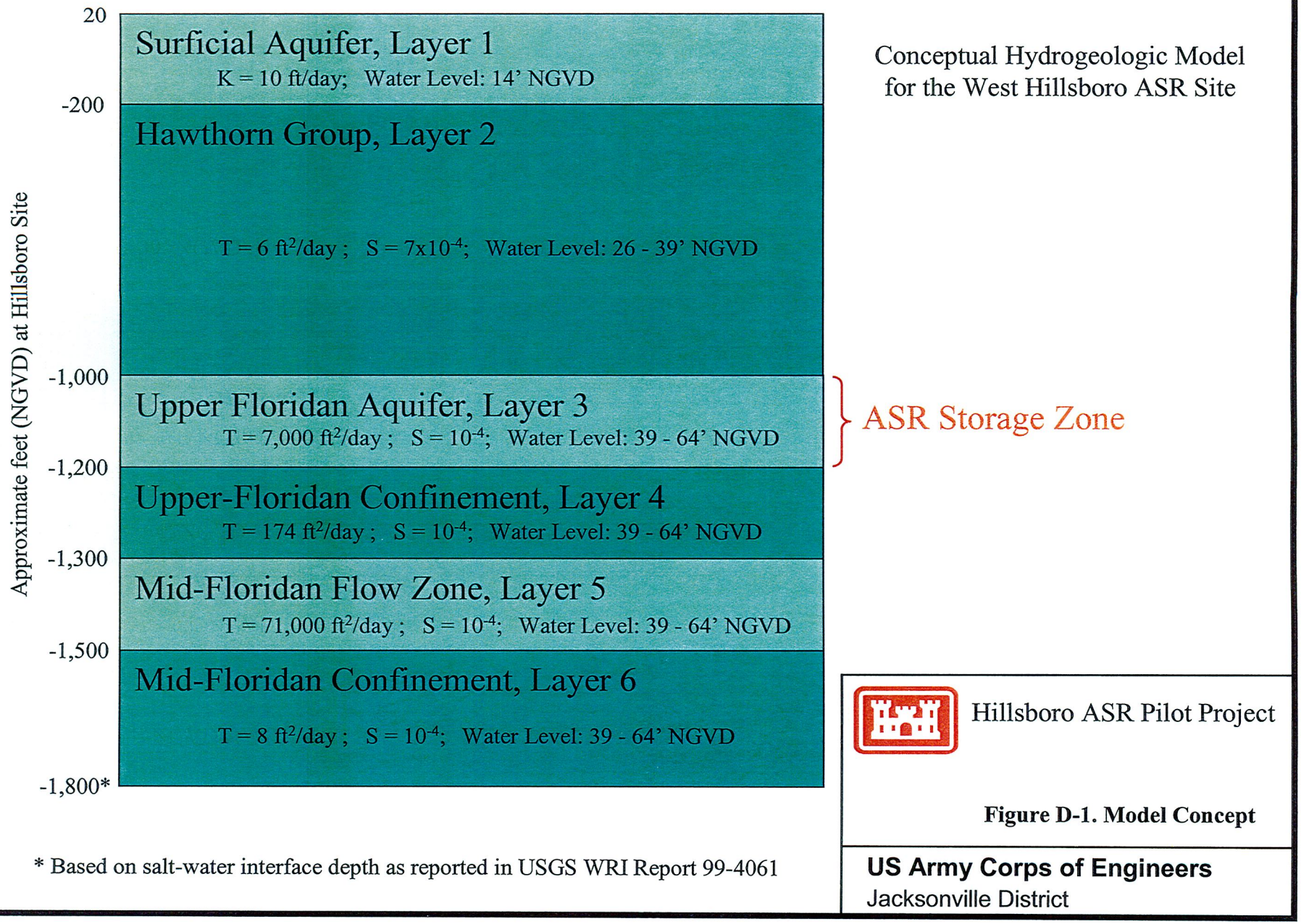
Groundwater Modeling

Model Development

Conceptual Model. The conceptual hydrogeologic model for the site was based on Randazzo and Jones (Figure 6.32, 1997), and included the surficial aquifer, the intermediate confining Hawthorn Group, the upper FAS, the upper FAS confining unit, the Avon Park formation (referenced herein as the middle FAS), and the middle FAS confining unit. The overall model concept for Hillsboro is presented in **Figure D-1**. The upper FAS is the target zone for surface water storage and recovery, and as such is the main unit of interest. The Hawthorn Group and middle FAS unit are included to investigate the impact of leakage on ASR operations. The depths of the various geologic units were based on information reported for the Hillsboro exploratory well (SFWMD, 2000), Lower East Coast Floridan Model (SFWMD, 1999), and lithologic logs obtained online from the FGS. An interpolation routine (Kriging) within the Groundwater Modeling System ([GMS], Department of Defense software package) was used to generate a regularly space data set for use in the model from the irregularly spaced data. As a result of the interpolation process, the target zone pinched out (i.e., the top elevation was less than the bottom elevation) in the northwestern quadrant of the modeling domain. This is consistent with hydrogeologic interpretations of many authors (Reese and Memberg, 2000) who depict the Suwannee Limestone and Ocala Limestones as absent in portions of the Hillsboro study area. To avoid computational complications, a GMS option was used to correct layer pinch-out by setting the minimum layer thickness to 10 feet.

Boundary Conditions. The boundary conditions on the model consisted of constant head specifications for all cells in layer 1, and all cells on the perimeter of the remaining layers. The interior of the bottom layer was a no-flow boundary condition by default. The modeling grid was constructed with the Hillsboro site at the center. Preliminary modeling runs were conducted to ensure the model domain was large enough to avoid artificial influences induced by the boundary conditions. Initial tests were conducted with a modeling domain 10 miles by 10 miles in area, and 20 miles by 20 miles in area, both of which were deemed too small (primarily due to the diminishing thickness of layer 3). A final domain size of 40 miles by 40 miles was therefore selected. To test the influence of the boundary conditions on the solution within the final domain size, two test cases were compared: the first using constant head boundary conditions on the perimeter of layers 2 through 6, and the second using no-flow boundary conditions on the perimeter of layers 2 through 6. In both cases, layer 1 in its entirety was set as a constant head boundary. Head differences in the two solutions were 0.5% or less over the entire domain, and were 0.23% or less within an approximate 10 mile radius of the Hillsboro site (grid center).

Initial Conditions. The model initial conditions for the MODFLOW simulations consisted of water level specifications for all cells, which were selected based on


Approximate feet (NGVD) at Hillsboro Site
20
-200
-1,000
-1,200
-1,300
-1,500
-1,800*
Surficial Aquifer, Layer 1
K = 10 ft/day; Water Level: 14' NGVD
Hawthorn Group, Layer 2
T = 6 ft²/day ; S = 7x10⁻⁴; Water Level: 26 - 39' NGVD
Upper Floridan Aquifer, Layer 3
T = 7,000 ft²/day ; S = 10⁻⁴; Water Level: 39 - 64' NGVD
ASR Storage Zone
Upper-Floridan Confinement, Layer 4
T = 174 ft²/day ; S = 10⁻⁴; Water Level: 39 - 64' NGVD
Mid-Floridan Flow Zone, Layer 5
T = 71,000 ft²/day ; S = 10⁻⁴; Water Level: 39 - 64' NGVD
Mid-Floridan Confinement, Layer 6
T = 8 ft²/day ; S = 10⁻⁴; Water Level: 39 - 64' NGVD
* Based on salt-water interface depth as reported in USGS WRI Report 99-4061
Conceptual Hydrogeologic Model for the West Hillsboro ASR Site
Hillsboro ASR Pilot Project
Figure D-1. Model Concept
US Army Corps of Engineers
Jacksonville District

field data reported in SFWMD (1999). The starting heads in layer 1 (surficial aquifer) were set to a constant value of 14 feet, selected to represent an average value across the domain. The starting head distribution in layers 3 through 6 were identical, and were based on information from selected locations reported in SFWMD (1999), which were reported as average, equivalent freshwater head values over the period from 1995 to 1997. The Kriging interpolation routine within GMS was used to interpolate values from the scattered data set to the model grid. The initial heads in layer 2 were set equal to the average of the values in layer 1 and 3. A steady-state simulation was then conducted with no pumping, and the results of the steady-state simulation became the initial heads for the remaining simulations. **Table D-1** summarizes the information used to produce the initial conditions for the model.

Table D-1
Values from LEC Floridan Aquifer Model Report (SFWMD, 1999) Used to Generate Initial Head Distribution in the Hillsboro Model

Well Identification	Easting (feet NAD 83)	Northing (feet NAD 83)	Head (feet)
Boynton Bch West WTP	943434.0	798936.0	50.92
Broward County N Region	933900.0	701633.0	46.31
MSDR WWTP	869790.0	427961.0	64.70
PBC Solid Waste Auth	934952.0	885414.0	54.35
City of Pembroke Pines	876483.0	606426.0	49.69
Royal Palm Beach Utilities	907178.0	874646.0	52.74
City of Sunrise	878675.0	656123.0	53.50
Seacoast Utility Authority	939265.0	917657.0	52.88
BF-4	925181.0	669570.0	45.75
BF-6	943147.0	720952.0	45.47
DF-4	830841.0	573316.0	54.34
G-3061	890440.0	543986.0	45.26
ENP-100	787291.0	381402.0	43.54
Lake Lytal Park Test Well	949329.0	852090.0	49.75
MF-35	824582.0	970728.0	51.54
MF-23	798425.0	996297.0	48.77
MF-33	789230.0	1016158.0	48.15
OKF-31	706788.0	1052120.0	50.13
OKF-23	703527.0	1061608.0	46.26
ALLYGW	714531.0	668029.0	60.32
ESTIMATED 1[a]	674236.0	827162.0	60.52
ESTIMATED 2[a]	1012238.0	740162.0	31.37
QO_CHEMINC	769780.0	867338.0	60.68

ESTIMATED 3[a]	1038238.0	1100164.0	24.00
ESTIMATED 4[a]	947239.0	223159.0	29.75
ESTIMATED 5[a]	795235.0	226159.0	22.35
ESTIMATED 6[a]	903236.0	1039163.0	52.52
[a]Unknown identification			

Calibration. The calibration of the Hillsboro model was investigated by comparing the model results to two field data sets: background water levels in the UFAS layer without site specific pumping, and aquifer test data collected from the site. The difference between the model predictions and field data suggested the model was systematically lower than the field data, so the initial water levels in the model were raised by 2.4 feet (the average difference between model and field head values at the three locations). The drawdown induced at both EXW-1 and PBF-10R was compared to the model predicted drawdown. The agreement between the drawdowns at PBF-10R (onsite monitoring well) was deemed acceptable, and generally was within 2 feet of the field results. However, there was a much larger difference between the model predicted drawdowns and the field results at the EXW-1 pumping well (under-predicted by approximately 20 feet). This difference was attributed to the grid resolution rather than hydrogeologic parameters. An attempt was made to apply an analytical correction to the model predicted drawdowns that accounted for the difference between the model cell size and the well diameter (Trescott et. al., 1976). However, the correction over predicted the drawdown by as much as 20 feet. A finer grid was constructed and better agreement between model and field data was obtained (approximate difference was within 10 feet). However, in later simulations it was determined that this grid was computationally less stable than the previous grid. The version 3 grid was used for the MODFLOW simulations, and version 2 grid was used for the MT3D simulations. It may be important for future numerical modeling efforts in support of the CERP ASR program to carefully consider grid resolution required to make accurate long-term predictions at the ASR pumping wells.

Model Simulations

Base Case. The base case simulation consisted of a steady-state simulation with a recharge rate of 5 mgd at the site. The maximum drawdown at the ASR well was -98 feet, and the 5-foot drawdown contour was within an approximate 2.5-mile radius from the recharge well. The closest facility to the site is the Eastern Hillsboro ASR site, approximately 5 miles downstream along the Hillsboro Canal. The 3 foot-drawdown contour encircles the Eastern Hillsboro site, which suggests the possibility of impacting this facility, and was therefore evaluated further with transient simulations discussed in the next section. However, it is not envisioned that 3-feet of drawdown will impede pumping capacity from the Eastern Hillsboro site. Finally, it is noted that the drawdown contours are asymmetric, with

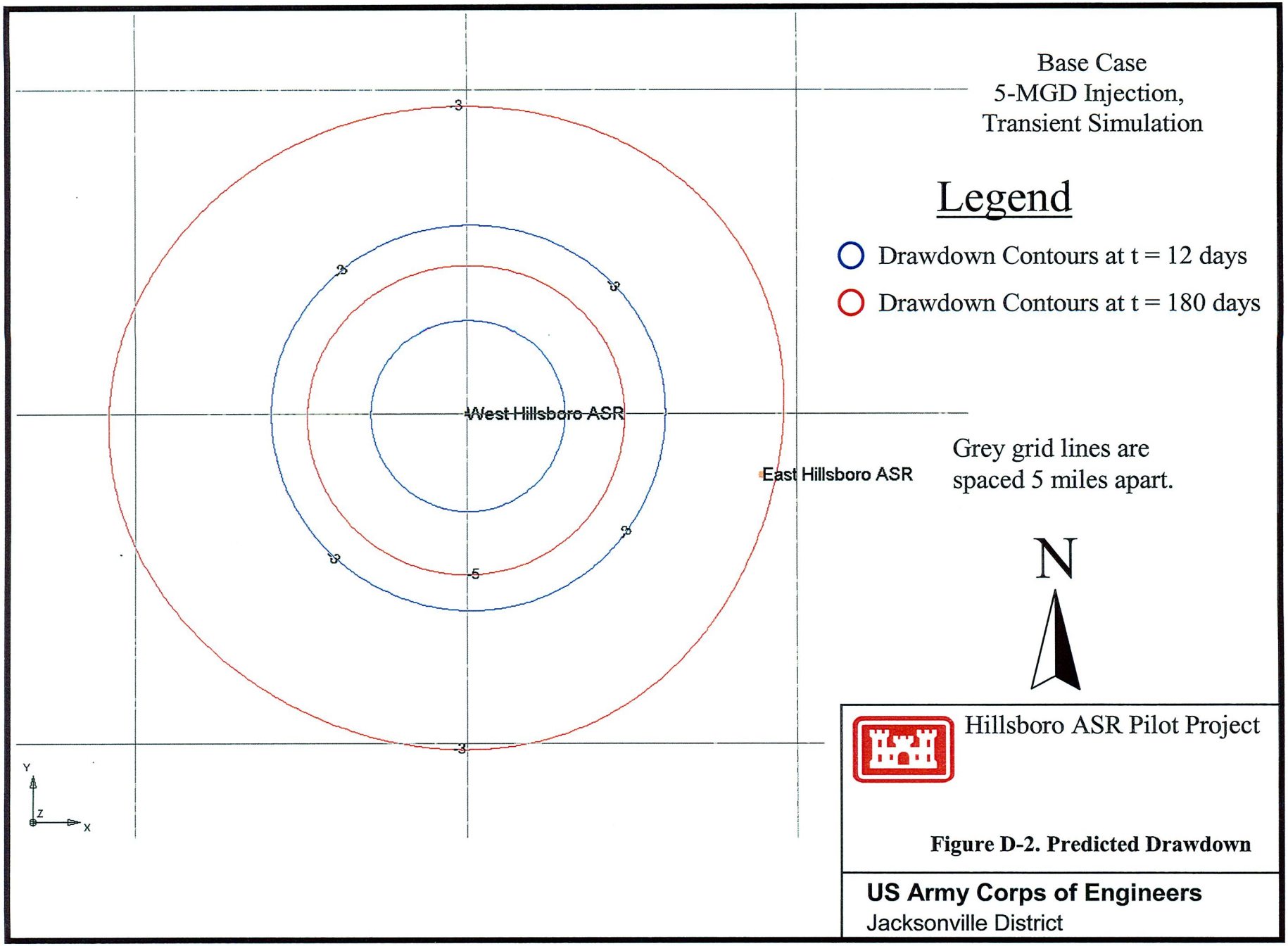
drawdown extending further to the west than east, which is attributed to the shallower target-zone thickness in the western direction.

Transient Simulations. Transient simulations were conducted to investigate the pressures generated at the ASR well during initial recharge. The base case was simulated under transient conditions for 60 days, and the simulation indicated that after 12 days of continuous recharge, the mounding at the ASR well was approximately 96 feet, or 98% of the steady state value of 98 feet. The 3-foot mounding contour after 12 days of continuous recharge extended approximately 2.5 miles in a radial direction from the Hillsboro site. After 60 days of continuous recharge, the 3-foot mounding contour extended to the Eastern Hillsboro ASR site. It may therefore be beneficial to monitor the mounding or drawdown at the Eastern Hillsboro site during the Hillsboro ASR Pilot Project test program and adjust activities accordingly to guard against adverse impacts. Additional model simulations included withdrawals for 180 days continuously (**Figure D-2**).

Recharge Rate. Reese (2002) reported that thin storage zones improved recovery efficiency based on a review of four existing ASR facilities. While the target flow rate for the ASR wells is 5 mgd, the interval over which the target flow rate will be distributed may vary, which will result in changes in the recharge velocity, which in turn will affect the pressure at the ASR well. Recharge pressures need to be properly managed to minimize the risk of hydrofracturing. Pressure heads under steady-state conditions were investigated as a function of the storage-zone thickness. A base case was established using a recharge rate of 5 mgd and a storage interval thickness of approximately 200 feet. Changes in pressure head due to a smaller storage interval were investigated by dividing layer three into two equal layers. All other properties were unchanged from the base case. A steady-state simulation was then conducted simulating 5 mgd of recharge into the upper half of the target zone. While the maximum value of groundwater mounding increased (98 feet for the base case versus 161 feet for recharging into the upper half of the target zone), the areal extent of the drawdown was basically similar to the base case.

Transmissivity/Leakance. The effect of transmissivity on aquifer pressure was investigated using a moderately low and high value of transmissivity (i.e., one half and twice the site-specific transmissivity estimate, respectively). In addition, the impact of leakance in the upper and lower confining units was also investigated using a range of leakance values (i.e., an order of magnitude lower and higher than the site-specific estimate). The model results indicate that as Upper FAS transmissivity values increase, new aquifer mounding, or drawdown decrease. A similar phenomenon was revealed when leakance values of the Hawthorn Group or the middle confining unit (or both) were increased.

Evaluation of Predicted System Performance. Following completion of the flow modeling tasks, preliminary contaminant transport modeling was completed using



Hillsboro ASR Pilot Project

Figure D-2. Predicted Drawdown

US Army Corps of Engineers
Jacksonville District

MT3DMS (Zhang, 2002). MT3DMS is a modular three-dimensional transport model for the simulation of advection, dispersion, and chemical reactions of dissolved constituents in groundwater systems. MT3DMS uses a modular structure similar to the structure utilized by MODFLOW. MT3DMS is used in conjunction with MODFLOW in a two step, flow and transport simulation. Heads and cell by cell flux terms are computed by MODFLOW during the flow simulation and are written to a specially formatted file. This file is then read by MT3DMS and utilized as the flow field for the transport portion of the simulation. MT3DMS is a newer version of the MT3D model distributed with earlier versions of GMS. MT3DMS differs from MT3D in that it allows for multi-species transport, supports additional solvers, and allows for cell by cell input of all model parameters.

MT3DMS was utilized to estimate expected recovery efficiency at the Hillsboro site based upon the expected cycle-testing plan. The recovery efficiency as defined by Reese (2002) is expressed as the percentage of the volume of water recovered versus the volume of water injected over a cycle of recharge and recovery. The recovery efficiency is typically presented as a percentage from 0% (no recovery of injected water) to 100% (full recovery of all injected water). Reese (2002) has also documented that the recovery efficiency usually increases with increasing numbers of cycle tests completed. Given the higher source-water TDS concentration at Hillsboro compared to the Lake Okeechobee area, it was expected that recovery percentages at the site would be low for a number of cycles. The modeling completed confirmed this suspicion. Cycle testing beyond the two-year duration proposed would be expected to improve the recovery efficiency of the Hillsboro ASR site.

Appendix E

Proposed Monitoring System Design

Proposed Monitoring System Design

Floridan Aquifer System Monitoring Wells

A total of three FAS monitor wells are proposed for the Hillsboro ASR pilot project. Two of the FAS monitor wells have already been constructed. One of the FAS monitor wells is proposed. The existing monitor wells are within about 10 feet of each other, and about 330 feet away from the ASR well, as shown on **Figure 3**. The proposed FAS monitor well is expected to be installed about 1,000 feet from the ASR well. One of the existing FAS wells is a dual-zone monitor well. It monitors two deeper zones (1,515-1,670 feet bls and 2,135-2,260 feet bls). The other existing FAS well is a single-zone well with a monitor zone from 1,015-1,225 to feet bls (same as the ASR well). Construction details of the existing FAS monitor wells are shown in **Figure 8**.

The existing monitor wells, both positioned about 330 feet west-northwest from the ASR well, will be able to monitor the elevations (heads) and quality of water within and below the designated storage zone. These wells will be useful in monitoring pressure changes within the FAS in close proximity to the ASR well (during recharge and recovery operations). These wells will also serve to monitor the quality of recharged water after it has spent a brief period of time (several days) within the FAS and migrated a relatively short distance from the ASR well. The depths of the monitor intervals will also allow for the assessment of potential upconing of poor water quality into the storage zone from deeper within the FAS.

The third monitor well, not yet constructed, will be constructed approximately 1,000 feet away from the ASR well, and have a single-zone design. This well will monitor water levels and quality within the designated storage zone, and provide comparative information on potential geochemical reactions that take place after the recharged water has traveled a considerable distance from the ASR well, and remained in the FAS for longer periods of time. **Figure 9** displays the construction diagram of the proposed FAS monitor well.

Aquifer Performance Testing

An aquifer performance test was performed at the existing exploratory ASR well to gather hydraulic information. The open borehole from 1,015 to 1,225 feet bls was pumped for the test. The transmissivity of the interval was estimated to be 60,600 gallons per day per foot, with a dimensionless storage coefficient of 9.8×10^{-5}. The hydrogeologic report summarizing the construction and testing activities associated with the exploratory well (Bennett, 2001) has already been forwarded to the Department, and the permit reviewer is advised to refer to that report for detailed hydrogeologic information.

Water Quality Testing

Background water quality samples were collected from the existing exploratory ASR well in November 2000 and analyzed to determine basic water quality characteristics (i.e., temperature, pH, and specific conductance) as well as primary and secondary drinking water standards and minimum criteria parameters. The samples were collected from the storage

zone from 1,015 to 1,225 during a pumping test. A summary of the analyses are presented in **Table E-1**. The complete list of laboratory analyses is presented in **Appendix G.**

Table E-1. Groundwater Quality Data from the ASR Exploratory Well, Hillsboro Site

			Cations				Anions				Field Parameters		
Identifer	Depth Interval (ft bls)	Sample Date	Na^{+} (mg/l)	K^{+} (mg/l)	Ca^{2+} (mg/l)	Mg^{2+} (mg/l)	Cl^{-} (mg/l)	Alka as $CaCO_3$ (mg/l)	SO_4^{2-} (mg/l)	TDS (mg/l)	Specific Conduct. (umhos/cm)	Temp ° C	pH (s.u.)
APT	1015-1225	11/16/00	1020.0	37.4	139.0	143.0	1812.0	141.2	560.6	4,084	6,587	23.78	7.17
Packer Test	1015-1150	04/10/00	1228.1	45.8	157.7	182.3	2336.3	131.6	734.0	5,110	8,223	23.82	7.52
Packer Test	1160-1225	04/05/00	722.6	30.9	103.2	117.1	1287.6	125.0	397.9	2,932	4,600	23.91	7.57

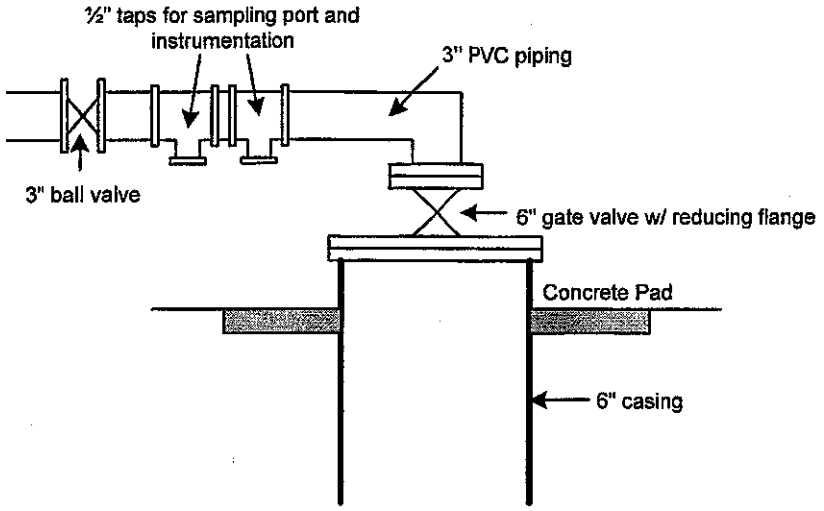
mg/l = milligrams per liter
umhos/cm = micromhos per centimeter
APT = Aquifer Pumping Test

Groundwater samples will be taken again from the proposed ASR storage zone. The samples are expected to be collected in March 2004, and the results will be submitted to FDEP as soon as they become available. The samples will be collected from the existing single-zone monitor well (interval from 1,015 to 1,225 feet bls). This is the same depth as the existing ASR well.

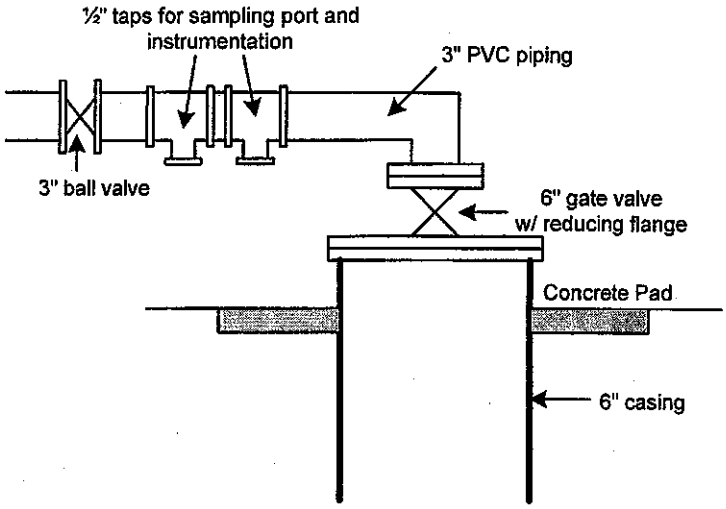
In addition to the aforementioned FAS sampling, samples will be collected from a monitor well in the upper part of the Surficial Aquifer System. A well screened from approximately 10 to 20 feet bls will be sampled. Water quality results from that analysis will be representative of the shallow groundwater at the site. The analytical results from the shallow well will be submitted to FDEP as soon as they become available.

Monitoring Devices

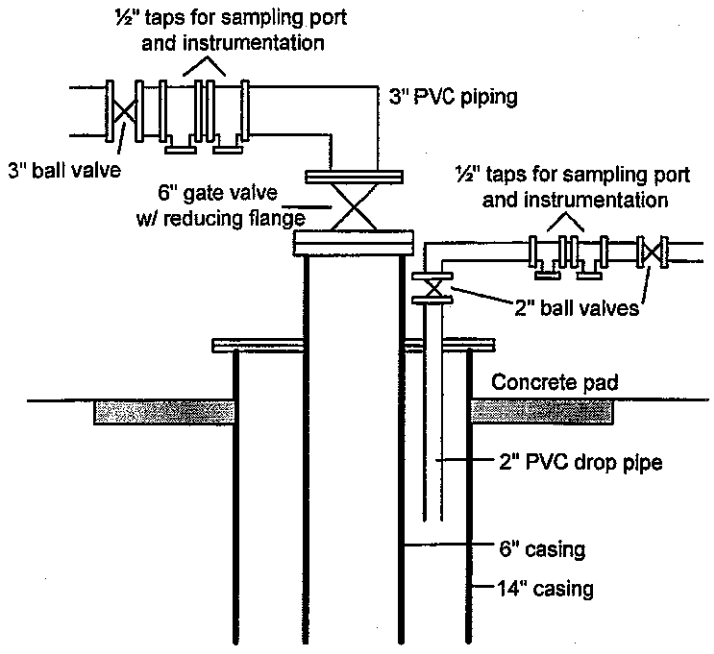
As part of the surface facility construction and following construction of the proposed monitor wells, instrumentation (pressure transducer systems) will be installed on the ASR and monitor wellheads to allow for continuous monitoring of water levels and wellhead pressures in all of the completed zones. Sampling taps will be installed on all of the wells to allow for collection of water samples during system operation. **Figure E-1** presents the wellhead configurations for the existing and proposed FAS monitor wells.



HASR-FASMW-1
and
HASR-FASMW-3



HASR-SASMW-1



HASR-FASMW-2

4/7/04 42637

Figure E-1. Monitor Wellhead Diagrams

Not to Scale

Appendix F

Cycle Testing Plan

Cycle Testing Plan

Operational (cycle) testing will be performed following construction of the Hillsboro ASR facility. The proposed cycle testing plan follows a list of objectives that were developed by the Project Delivery Team (PDT). The list of objectives and the implications of these objectives on the plan, are presented in **Table F-1.** Note that **Table F-1** presents cycle testing objectives that cover the Lake Okeechobee and Caloosahatchee ASR Pilot Projects as well, and are beyond the scope of this permit application. The result of this multi-objective approach is the cycle testing plan presented in **Figure F-1.** Other evaluations conducted during cycle testing may include:

- Prediction of ecological impacts related to operation of the system
- Evaluate the plugging potential of the system
- Evaluate the pressure field within the aquifer to ascertain the potential for hydrofracturing the storage interval or overlying strata
- Develop an operation and maintenance routine for the system
- Evaluate the economic viability of the constructed treatment technology
- Evaluate the effect of residence time on stored and recovered water quality
- Optimize recharge and recovery rates to maximize recovery efficiency

Cycle testing includes a series of recharge, storage, and recovery modes to evaluate the effectiveness of the ASR system, and to test other aspects of ASR technology. Source water is recharged into the ASR wells for a period of time. Following recharge of any given cycle, we might begin the recovery phase, or allow a period of idle storage. The recovered water is discharged back into the Hillsboro Canal. A description of the proposed cycle testing plan, as presented in **Figure F-1**, is described below. It is important to note that the plan may evolve with additional information collected during the design, construction, and testing phases of this project.

Table F-1. Cycle Testing Objectives

Purpose/Objective	Cycle Testing Implications
1. Startup operation of the ASR system. Test the well and treatment system to avoid shut downs during the official cycle testing.	Perform a short (< a few days), pre-cycle testing startup test following construction of surface facilities. Apply on every ASR well. Try to make the startup operation as uniform as possible for every ASR well to minimize the effects of antecedent conditions and for comparison purposes.
2. Build up the Target Storage Volume (TSV) to increase "recoverability"	Provide a longer recharge period (>2 months) to build up the "bubble" and increase recoverability.

Table F-1. Cycle Testing Objectives	
2. Build up the Target Storage Volume (TSV) to increase "recoverability"	Provide a longer recharge period (>2 months) to build up the "bubble" and increase recoverability.
3. Evaluate the effect of storage time on recoverability and water quality	Include shorter and longer storage intervals between cycles to estimate the difference in recoverability and water quality with storage time.
4. Evaluate water quality changes in the initial recovered water	On first full cycle, recover water back to native water quality (or as native as possible)
5. Evaluate pressure buildup at/around the ASR well	Include longer recharge period on at least one cycle to estimate "steady-state" pressures. If applicable, operate all ASR wells at a site simultaneously during at least one cycle.
6. Estimate a "standard" relative recovery efficiency for each ASR well, and conduct baseline geochemical testing.	Include a "standard" cycle (same recharge and recovery duration, etc.) for every ASR well. This should be conducted at the start of cycle testing to minimize antecedent changes to subsurface water quality from previous cycles.
7. Provide time for post-cycle-test logging	Provide down time at the end of cycle testing to perform the logging in the ASR well, as specified in the ASR Regional Study PMP
8. Tracer tests – tracer placed in monitor well	During at least one of the cycles, include adequate recovery time for tracer tests planned for the ASR Regional Study.
9. Evaluate geochemical changes as the freshwater front moves through the aquifer	Recharge for a long enough period to observe the "bubble" at all/most monitor wells.
10. Survival studies, bioassays, and mesocosms	Include adequate recovery volumes for survival studies, bioassays, and mesocosms outlined in the ASR Regional Study PMP.
11. Mimic the projected operation of the full-scale system.	More frequent cycles at Hillsboro; longer storage times at Lake Okeechobee, etc.
12. Estimate the characteristics of the storage "bubble" (shape, thickness, expansion rate, etc.)	Best performed at a site with the most monitoring locations surrounding the injection point. Recharge for long enough for the "bubble" to arrive at the monitor wells.
13. Estimate the effect of buoyancy	Longer recharge/storage periods increase the effect of buoyancy.
14. Determine if there is any upward movement of stored water into the surficial aquifer	Longer recharge/storage periods may increase the chance for upward movement.
15. Evaluate the effect of decreased recovery rates on recovery efficiency	Vary (decrease) the recovery rate in successive cycles.
16. Tracer test – tracer placed in the ASR well	Provide adequate recharge time to allow a tracer placed in an ASR well to be detected in the designated monitor well(s).
17. Microspheres tracer test	Provide adequate recharge time to allow the microspheres placed in an ASR well to be detected in the designated monitor wells.
18. Microphage tracer test	Provide adequate recharge time to allow the microphage placed in an ASR well to be detected in the designated

Table F-1. Cycle Testing Objectives	
	monitor wells.
19. Evaluate operation and maintenance routines and requirements.	Evaluate the O&M requirements and the implications for continued operation and expansion of ASR systems.
20. Entrainment and impingement of larval fish	Provide suitable recharge period with site-specific intake method (Kissimmee site only)
21. Evaluate upconing	Longer recovery periods at full rates would provide more stress and chance of upconing

Assumptions:

- Cycle testing, and the evaluation of these objectives, can be conducted beyond the two-year duration of the pilot projects. It is assumed that cycle testing will continue beyond the two-years allotted for the pilot projects, specifically to continue answering these questions.
- Background conditions (water levels, water quality, etc.) will be recorded before cycle testing begins.
- It is assumed that the necessary water quality criteria will be met as specified in the permits. Water quality testing will be performed during cycle testing in accordance with this requirement.
- Several of the above objectives are inter-related.
- All objectives cannot be met at each ASR site, but most objectives can be met by designating certain sites to meet individual objectives.

The proposed cycle testing plan begins (Cycle 1)with one month of recharge, followed by one month of storage, then recovery until the water quality reaches background conditions. The purposes of the Cycle 1 are to:

- Estimate a "relative" recovery efficiency for comparison to the other sites
- Evaluate water quality changes in the initial recovered water

Cycle 2 consists of four months of recharge, followed by recovery for an estimated one month to a predetermined water quality. The purposes of Cycle 2 are to:

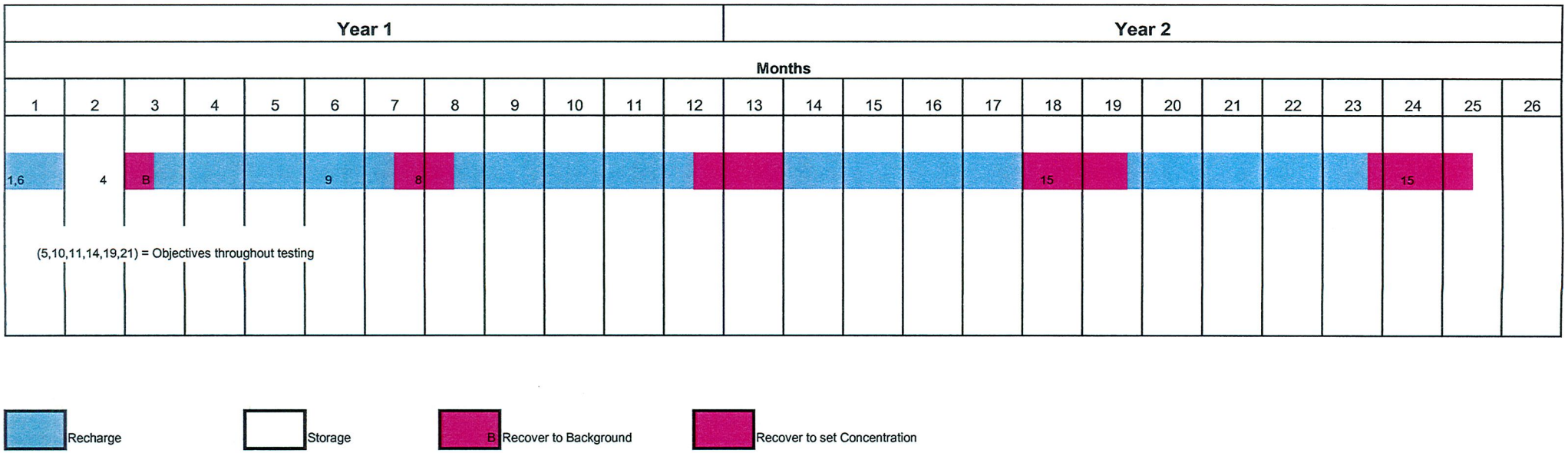
- Evaluate geochemical changes as the freshwater front moves through the aquifer
- Perform tracer test (tracer added to the monitor well)

Cycle 3 consists of four months of recharge, followed by recovery for an estimated one and a half months to a predetermined water quality. The purposes of Cycle 3 are to:

- Continue to operate the pilot system as envisioned for the larger-scale system
- Build the subsurface storage volume

Cycle 4 consists of four months of recharge, followed by recovery for an estimated one and three-quarter months to a predetermined water quality. The purposes of Cycle 4 are to:

- Continue to operate the pilot system as envisioned for the larger-scale system
- Build the subsurface storage volume
- Evaluate the effect of decreased recovery rates on recovery efficiency



(Numbers 1-21 refer to the Objectives that are intended to be met)

Cycle Testing Objectives

1. Startup of the ASR system (pre-Cycle 1). Test the well and treatment system to avoid shut downs during the official cycle testing.
2. Build up the Target Storage Volume (TSV) to increase "recoverability"
3. Evaluate the effect of storage time on the recoverability and water quality
4. Evaluate water quality changes in the initial recovered water
5. Evaluate pressure buildup at/around the ASR well
6. Estimate a "standard" *relative* recovery efficiency for each ASR well, and conduct baseline geochemical testing.
7. Provide time for post-cycle-test logging
8. Tracer tests (added to the monitor well)
9. Evaluate geochemical changes as the freshwater front moves through the aquifer
10. Survival studies, bioassays, and mesocosms
11. Mimic the projected operation of the full-scale system.
12. Estimate the characteristics of the storage "bubble" (shape, thickness, expansion rate, etc.)
13. Estimate the effect of buoyancy
14. Determine if there is any upward movement of stored water into the surficial aquifer
15. Evaluate the effect of decreased recovery rates on recovery efficiency
16. Tracer tests (added to the ASR well)
17. Microspheres tracer test
18. Microphage tracer test
19. Evaluate O&M routines and requirements
20. Entrainment and Impingement of larval fish (Kissimmee site only)
21. Evaluate upconing

Figure F-1. Cycle Testing Plan - Hillsboro ASR Pilot Project

Cycle 5 consists of four months of recharge, followed by recovery for an estimated one and three-quarter months to a predetermined water quality. The purposes of Cycle 5 are to:

- Continue to operate the pilot system as envisioned for the larger-scale system
- Build the subsurface storage volume
- Evaluate the effect of decreased recovery rates on recovery efficiency

Data collection will be performed during cycle testing to evaluate the operation and efficiency of the system. Data to be collected during the testing includes:

- Recharge and recovery flow rates and volumes
- Volume of water stored
- Water quality of the injected and recovered water
- Bioassays and ecotoxicological analysis of recovered water
- Pressures (water levels) during recharge and recovery at the ASR and monitor wells

Regulatory correspondence will transpire during the course of cycle testing of the systems, in fulfillment of conditions contained within the UIC construction permit. Monthly operating reports will be submitted to the FDEP in compliance with the construction permits for the systems. At the completion of each cycle (consisting of recharge, storage and recovery), a memorandum will be prepared that summarizes the data collected during the cycle. After a period of one year, an "Interim Monitoring Report" will be prepared and submitted to the FDEP. Upon completion of all of the cycles, a final cycle testing report will be submitted, in support of an operating permit for the system. The final cycle testing report will include recommendations for routine operations of each system and may include proposed revisions to the monitoring programs.

Pressure Monitoring and Backflushing

During the first few recharge periods, the injection rate/pressure relationship in the ASR well will be monitored closely to determine if any increase in pressure occurs. If, in the event that pressure increases, SFWMD would like to reserve the right to halt injection, back flush to clean the system, then resume with injection. The back flushing operation may last for up to two days.

Recovered Water Discharge Plan

Following the recharge and/or storage periods, recovery of the stored water will begin. The initial flush of recovered water will be discharged to an existing pond to capture solids that may have built up in the well casing or formation during recharge and storage. Following that period, the recovered water will be routed to an aerator, then back into the Hillsboro Canal.

Cycle Testing Monitoring Plan

Total flow into (during recharge) and out of (during recovery) the ASR well will be measured daily. Average maximum and minimum daily flows also will be recorded. Wellhead pressures will be monitored continuously, and the daily average, maximum and minimum

injection pressures will be recorded. Cumulative total injected and recovered water also will be recorded.

During the cycle testing period, water quality monitoring will be conducted to determine the geochemical effects of recharge, storage and recovery of the water. **Table F-2** presents a summary of the water sampling analyses and frequencies that will be performed as part of this pilot project during cycle testing. Water samples will be collected from the sampling taps located along the wellhead piping. A minimum of three (3) well volumes of water will be evacuated from each well prior to sampling for the parameters during storage.

Several additional cycle-testing-related water-quality analyses and frequencies will be conducted at the ASR facility in support of the CERP ASR Regional Study – the reader is encouraged to review the Project Management Plan for that project, which can be viewed at the evergladesplan.org website. Among the data to be collected during construction and cycle testing include native and cycle test FAS water geochemistry (see Appendix F, Tab B of that plan) and native rock geochemistry (see Appendix F, Tab C). Water recovered during the cycle tests will also be used for ecological screening bioassays, to create environmental mesocosms, to assess the potential for mercury bioaccumulation, to assist in construction of geochemical reaction models, and to assist in ongoing research into the fate of microorganisms in aquifers – all as part of the CERP ASR Regional Study.

Reporting

Upon completion of each cycle period, a memorandum will be prepared summarizing the data collected during that cycle. Upon completion of all of the planned cycles, a final memorandum will be submitted to the FDEP, in support of longer term operation of the system.

Table F-2.

Water Quality Monitoring Plan during Cycle Testing

Hillsboro ASR Pilot Project

	Recharge					
		Monitor Wells				
Parameter	**ASR Well**	**FAMW-1**	**FAMW-2** (upper)	**FAMW-2** (lower)	**FAMW-3**	**SMW-1**
Flow Rate Parameters						
Average daily flow rate (mgd)	d	d	d	d	d	d
Daily peak hour flow rate (mgd)	d	d	d	d	d	d
Monthly maximum peak hour flow rate (mgd)	m	m	m	m	m	m
Monthly average of the daily flow rates (mgd)	m	m	m	m	m	m
Volume Parameters						
Total daily flow (mg)	d	d	d	d	d	d
Monthly maximum of daily flow volumes (mg)	m	m	m	m	m	m
Cummulative total volume injected (mg)	m	m	m	m	m	m
Pressure Parameters						
Daily average pressure (psig)	d	d	d	d	d	d
Daily maximum sustained injection pressure (psig)	d	d	d	d	d	d
Daily minimum sustained injection pressure (psig)	d	d	d	d	d	d
Monthly average pressure (psig)	m	m	m	m	m	m
Monthly maximum sustained injection pressure (psig)	m	m	m	m	m	m
Monthly minimum sustained injection pressure (psig)	m	m	m	m	m	m
Chemical Characteristics						
All Primary, Sec. and Min. Criteria	a	na	na	na	na	na
arsenic	m	m	m	m	m	m
chloride	w	w	w	w	w	w
color	w	w	w	w	w	w
conductivity	w	w	w	w	w	w
dissolved oxygen	m	m	m	m	m	m
fecal coliform	w	w	w	w	w	w
gross alpha	m	m	m	m	m	m
pH	w	w	w	w	w	w
total coliform	w	w	w	w	w	w
total dissolved solids	w	w	w	w	w	w
total suspended solids	w	na	na	na	na	na
turbidity	w	na	na	na	na	na

Notes:

"d" signifies daily, "a" signifies annually, "w' signifies weekly, "m" signifies monthly, "na" signifies not applicable

Table F-2.

Water Quality Monitoring Plan during Cycle Testing

Hillsboro ASR Pilot Project

	Storage					
		Monitor Wells				
	ASR Well	FAMW-1	FAMW-2	FAMW-2	FAMW-3	SMW-1
Parameter			(upper)	(lower)		
Pressure Parameters						Param
Daily average pressure (psig)	d	d	d	d	d	d
Monthly average pressure (psig)	m	m	m	m	m	m
Chemical Characteristics						Daily
All Primary, Sec. and Min. Criteria	na	na	na	na	na	na
arsenic	na	m	m	m	m	m
chloride	na	w	w	w	w	w
color	na	w	w	w	w	w
conductivity	na	w	w	w	w	w
dissolved oxygen	na	m	m	m	m	m
fecal coliform	na	w	w	w	w	w
gross alpha	na	m	m	m	m	m
pH	na	w	w	w	w	w
total coliform	na	w	w	w	w	w
total dissolved solids	na	w	w	w	w	w
total suspended solids	na	na	na	na	na	na
turbidity	na	na	na	na	na	na

Notes:
"d" signifies daily, "a" signifies annually, "w' signifies weekly, "m" signifies monthly, "na" signifies not applicable

Table F-2.

Water Quality Monitoring Plan during Cycle Testing

Hillsboro ASR Pilot Project

	Recovery					
		Monitor Wells				
	ASR Well	FAMW-1	FAMW-2	FAMW-2	FAMW-3	SMW-1
Parameter			(upper)	(lower)		
Flow Rate Parameters						
Average daily flow rate (mgd)	d	d	d	d	d	d
Daily peak hour flow rate (mgd)	d	d	d	d	d	d
Monthly maximum peak hour flow rate (mgd)	m	m	m	m	m	m
Monthly average of the daily flow rates (mgd)	m	m	m	m	m	m
Volume Parameters						
Total daily flow (mg)	d	d	d	d	d	d
Monthly maximum of daily flow volumes (mg)	m	m	m	m	m	m
Cummulative total volume injected (mg)	m	m	m	m	m	m
Pressure Parameters						
Daily average pressure (psig)	d	d	d	d	d	d
Daily maximum sustained injection pressure (psig)	d	d	d	d	d	d
Daily minimum sustained injection pressure (psig)	d	d	d	d	d	d
Monthly average pressure (psig)	m	m	m	m	m	m
Monthly maximum sustained injection pressure (psig)	m	m	m	m	m	m
Monthly minimum sustained injection pressure (psig)	m	m	m	m	m	m
Chemical Characteristics						
All Primary, Sec. and Min. Criteria	a	na	na	na	na	na
arsenic	m	m	m	m	m	m
chloride	w	w	w	w	w	w
color	w	w	w	w	w	w
conductivity	w	w	w	w	w	w
dissolved oxygen	m	m	m	m	m	m
fecal coliform	w	w	w	w	w	w
gross alpha	m	m	m	m	m	m
pH	w	w	w	w	w	w
total coliform	w	w	w	w	w	w
total dissolved solids	w	w	w	w	w	w
total suspended solids	w	na	na	na	na	na
turbidity	w	na	na	na	na	na

Notes:
"d" signifies daily, "a" signifies annually, "w' signifies weekly, "m" signifies monthly, "na" signifies not applicable

Appendix G

Plugging and Abandonment Plan

Plugging Methodology

1. Mobilize rig and crew and stop artesian flow from the well with brine solution to lower the well's hydrostatic head below land surface.
2. Place limestone gravel with an average diameter not larger than 1 inch down the ASR well to fill the open hole from 1,225 feet below land surface (bls) up to approximately 20 feet below the base of the 24-inch casing at 1,035 feet bls.
3. Place Class B neat cement through grout pipe, from approximately 20 feet below the base of the 24-inch casing to land surface.
4. Monitor wells will be filled with neat cement, from bottom to top, with Class B neat cement after the artesian heads have been neutralized.

Cost Estimate in 2004 Dollars

1.	Mobilize drill rig and neutralize ASR well's artesian head	$30,000
2.	Fill the open hole of the ASR well with gravel (approximately 50 cubic yards at $70/yd)	$3,500
3.	Place neat cement through grout pipe from 20 feet below base of the 24-inch casing of the exploratory well to land surface (2,500 sacks at $25/94-lb. sack)	$62,500
4.	Fill Monitor Well-1 with neat cement (tremie method)	$30,000
5.	Fill Monitor Well-2 with neat cement (tremie method)	$30,000
6.	Fill Monitor Well-3 with neat cement (tremie method)	$30,000
7.	Fill SAS Monitor Well with neat cement (tremie method)	$5,000
	Subtotal	$191,000
	Contingency	$20,000
	Total Estimated Cost	**$211,000**

Certification of Financial Responsibility

The South Florida Water Management District, a special taxing district established by the Florida legislature, hereby certifies that it has unconditionally obligated itself to have the financial resources necessary to close, plug, and abandon its Class V underground injection well as required by Chapter 62-528, Florida Administrative Code. It is further understood that the cost estimate to conduct plugging and abandonment, established on March 1, 2004, shall be reviewed on an annual basis, and this obligation shall incorporate accumulated inflation costs. An annual adjustment exceeding ten (10) percent in any one year shall require submission of an updated certification form.

List of Injection Wells Covered by this Agreement:
(For each injection well list the following information)

Facility Name:	Hillsboro ASR Pilot Project
Facility Address:	Site 1 Property, Boca Raton, Florida
Facility Contact:	Richard Nevulis, P.G.
Phone Number:	(561) 682-6242
Latitude/Longitude of Injection Well:	
DEP/EPA Identification Number:	NA
Current Plugging and Abandonment Cost Estimate (March 1, 2004)	$211,000.00

It is hereby understood that the cancellation of this certification may not take place without the prior written consent of the Secretary of the Florida Department of Environmental Protection.

(Signature)

Mr. Henry Dean
(Print Name)

Executive Director, South Florida Water Management District
(Title)

4-14-04
(Date)

Appendix H

Native Groundwater Quality

Field Sample
EXW-1
(1,015 to 1,225 feet bpl)

MS. LINDA CREAN
SOUTH FLORIDA WATER MGMT.DIST.
8894 BELVEDERE RD.
WEST PALM BEACH,FL 33411

Florida
Certification:
#E83079
ELAB, Inc.

ANALYTICAL REPORT

Submission Number: 11000676
Date Received: 11/29/00
Date Reported: 01/05/01

Client's P.O. Number: C11904WO09
Project Number:
Project Name: LEC
Elab Report Name: Finalnew->Final2.RP1

Lab Sample Number: 0011676 2
Client Sample Number: 965
Sample Description: GROUND H20

Date Sampled: 11/28/00
Sample Matrix: GROUND WATER

Method	Analyte	Result	Q	Units	Reporting Limit	Analyst	Date Analyzed	Prepared
	PRIORITY POLLUTANT B/N/A EXTRACTABLES							
625	ANTHRACENE	5.0	U	ug/L	5.0	VG	12/10/00	12/03/00
625	BENZIDINE	25	U	ug/L	25	VG	12/10/00	12/03/00
625	BENZ(A)ANTHRACENE	5.0	U	ug/L	5.0	VG	12/10/00	12/03/00
625	BENZO(B)FLUORANTHENE	5.0	U	ug/L	5.0	VG	12/10/00	12/03/00
625	BENZO(K)FLUORANTHENE	5.0	U	ug/L	5.0	VG	12/10/00	12/03/00
625	BENZO(G,H,I)PERYLENE	5.0	U	ug/L	5.0	VG	12/10/00	12/03/00
625	BENZO(A)PYRENE	5.0	U	ug/L	5.0	VG	12/10/00	12/03/00
625	BIS(2-CHLOROETHOXY) METHANE	5.0	U	ug/L	5.0	VG	12/10/00	12/03/00
625	BIS(2-CHLOROETHYL) ETHER	5.0	U	ug/L	5.0	VG	12/10/00	12/03/00
625	BIS(2-CHLOROISOPROPYL) ETHER	5.0	U	ug/L	5.0	VG	12/10/00	12/03/00
625	BIS(2-ETHYLHEXYL) PHTHALATE	5.0	U	ug/L	5.0	VG	12/10/00	12/03/00
625	4-BROMOPHENYL PHENYL ETHER	5.0	U	ug/L	5.0	VG	12/10/00	12/03/00
625	BUTYL BENZYL PHTHALATE	5.0	U	ug/L	5.0	VG	12/10/00	12/03/00
625	2-CHLORONAPHTHALENE	5.0	U	ug/L	5.0	VG	12/10/00	12/03/00
625	4-CHLORO-3-METHYLPHENOL	20	U	ug/L	20	VG	12/10/00	12/03/00
625	2-CHLOROPHENOL	5.0	U	ug/L	5.0	VG	12/10/00	12/03/00
625	4-CHLOROPHENYL PHENYL ETHER	5.0	U	ug/L	5.0	VG	12/10/00	12/03/00
625	CHRYSENE	5.0	U	ug/L	5.0	VG	12/10/00	12/03/00
625	DIBENZO(A,H)ANTHRACENE	5.0	U	ug/L	5.0	VG	12/10/00	12/03/00
625	DI-n-BUTYLPHTHALATE	5.0	U	ug/L	5.0	VG	12/10/00	12/03/00
625	1,2-DICHLOROBENZENE	5.0	U	ug/L	5.0	VG	12/10/00	12/03/00
625	1,3-DICHLOROBENZENE	5.0	U	ug/L	5.0	VG	12/10/00	12/03/00
625	1,4-DICHLOROBENZENE	5.0	U	ug/L	5.0	VG	12/10/00	12/03/00
625	3,3'-DICHLOROBENZIDINE	20	U	ug/L	20	VG	12/10/00	12/03/00
625	2,4-DICHLOROPHENOL	5.0	U	ug/L	5.0	VG	12/10/00	12/03/00
625	DIETHYLPHTHALATE	5.0	U	ug/L	5.0	VG	12/10/00	12/03/00
625	2,4-DIMETHYLPHENOL	5.0	U	ug/L	5.0	VG	12/10/00	12/03/00
625	DIMETHYLPHTHALATE	5.0	U	ug/L	5.0	VG	12/10/00	12/03/00
625	4,6-DINITRO-2-METHYLPHENOL	20	U	ug/L	20	VG	12/10/00	12/03/00
625	2,4-DINITROPHENOL	20	U	ug/L	20	VG	12/10/00	12/03/00
625	2,4-DINITROTOLUENE	5.0	U	ug/L	5.0	VG	12/10/00	12/03/00

MS. LINDA CREAN
SOUTH FLORIDA WATER MGMT.DIST.
8894 BELVEDERE RD.
WEST PALM BEACH,FL 33411

Florida Certification: #E83079
ELAB, Inc.

ANALYTICAL REPORT

Submission Number: 11000676
Date Received: 11/29/00
Date Reported: 01/05/01

Client's P.O. Number: C11904WO09
Project Number:
Project Name: LEC
Elab Report Name: Finalnew->Final2.RP1

Lab Sample Number: 0011676 2
Client Sample Number: 965
Sample Description: GROUND H20

Date Sampled: 11/28/00
Sample Matrix: GROUND WATER

Method	Analyte	Result	Q	Units	Reporting Limit	Analyst	Date Analyzed	Prepared
	PRIORITY POLLUTANT B/N/A EXTRACTABLES							
625	2,6-DINITROTOLUENE	5.0	U	ug/L	5.0	VG	12/10/00	12/03/00
625	1,2-DIPHENYLHYDRAZINE	5.0	U	ug/L	5.0	VG	12/10/00	12/03/00
625	DI-n-OCTYLPHTHALATE	5.0	U	ug/L	5.0	VG	12/10/00	12/03/00
625	DIOXIN (2,3,7,8-TCDD) (SCREEN)	100	U	ug/L	100	VG	12/10/00	12/03/00
625	FLUORANTHENE	5.0	U	ug/L	5.0	VG	12/10/00	12/03/00
625	FLUORENE	5.0	U	ug/L	5.0	VG	12/10/00	12/03/00
625	HEXACHLOROBENZENE	5.0	U	ug/L	5.0	VG	12/10/00	12/03/00
625	HEXACHLOROBUTADIENE	5.0	U	ug/L	5.0	VG	12/10/00	12/03/00
625	HEXACHLOROCYCLOPENTADIENE	5.0	U	ug/L	5.0	VG	12/10/00	12/03/00
625	HEXACHLOROETHANE	5.0	U	ug/L	5.0	VG	12/10/00	12/03/00
625	INDENO(1,2,3-CD)PYRENE	5.0	U	ug/L	5.0	VG	12/10/00	12/03/00
625	ISOPHORONE	5.0	U	ug/L	5.0	VG	12/10/00	12/03/00
625	NAPHTHALENE	5.0	U	ug/L	5.0	VG	12/10/00	12/03/00
625	NITROBENZENE	5.0	U	ug/L	5.0	VG	12/10/00	12/03/00
625	2-NITROPHENOL	5.0	U	ug/L	5.0	VG	12/10/00	12/03/00
625	4-NITROPHENOL	20	U	ug/L	20	VG	12/10/00	12/03/00
625	N-NITROSODIMETHYLAMINE	5.0	U	ug/L	5.0	VG	12/10/00	12/03/00
625	N-NITROSODIPHENYLAMINE	5.0	U	ug/L	5.0	VG	12/10/00	12/03/00
625	N-NITROSODI-n-PROPYLAMINE	5.0	U	ug/L	5.0	VG	12/10/00	12/03/00
625	PENTACHLOROPHENOL	20	U	ug/L	20	VG	12/10/00	12/03/00
625	PHENANTHRENE	5.0	U	ug/L	5.0	VG	12/10/00	12/03/00
625	PHENOL	5.0	U	ug/L	5.0	VG	12/10/00	12/03/00
625	PYRENE	5.0	U	ug/L	5.0	VG	12/10/00	12/03/00
625	1,2,4-TRICHLOROBENZENE	5.0	U	ug/L	5.0	VG	12/10/00	12/03/00
625	2,4,6-TRICHLOROPHENOL	5.0	U	ug/L	5.0	VG	12/10/00	12/03/00
	DW CHLORINATED PESTICIDES & PCB							
505	ALACHLOR	1.5	U	ug/L	1.5	TCZ	12/02/00	12/01/00
505	ATRAZINE	2.5	U	ug/L	2.5	TCZ	12/02/00	12/01/00
505	g-BHC (LINDANE)	0.010	U	ug/L	0.010	TCZ	12/02/00	12/01/00
505	CHLORDANE	0.020	U	ug/L	0.020	TCZ	12/02/00	12/01/00
505	ENDRIN	0.010	U	ug/L	0.010	TCZ	12/02/00	12/01/00

MS. LINDA CREAN
SOUTH FLORIDA WATER MGMT.DIST.
8894 BELVEDERE RD.
WEST PALM BEACH,FL 33411

Florida Certification: #E83079
ELAB, Inc.

ANALYTICAL REPORT

Submission Number: 11000676
Date Received: 11/29/00
Date Reported: 01/05/01

Client's P.O. Number: C11904WO09
Project Number:
Project Name: LEC
Elab Report Name: Finalnew->Final2.RP1

Lab Sample Number: 0011676 2
Client Sample Number: 965
Sample Description: GROUND H20

Date Sampled: 11/28/00
Sample Matrix: GROUND WATER

Method	Analyte	Result	Q	Units	Reporting Limit	Analyst	Date Analyzed	Prepared
	DW CHLORINATED PESTICIDES & PCB							
505	HEPTACHLOR	0.030	U	ug/L	0.030	TCZ	12/02/00	12/01/00
505	HEPTACHLOR EPOXIDE	0.010	U	ug/L	0.010	TCZ	12/02/00	12/01/00
505	HEXACHLOROBENZENE	0.10	U	ug/L	0.10	TCZ	12/02/00	12/01/00
505	HEXACHLOROCYCLOPENTADIENE	0.10	U	ug/L	0.10	TCZ	12/02/00	12/01/00
505	METHOXYCHLOR	0.050	U	ug/L	0.050	TCZ	12/02/00	12/01/00
505	SIMAZINE	1.5	U	ug/L	1.5	TCZ	12/02/00	12/01/00
505	TOXAPHENE	0.18	U	ug/L	0.18	TCZ	12/02/00	12/01/00
505	PCB 1016	0.10	U	ug/L	0.10	TCZ	12/02/00	12/01/00
505	PCB 1221	0.10	U	ug/L	0.10	TCZ	12/02/00	12/01/00
505	PCB 1232	0.10	U	ug/L	0.10	TCZ	12/02/00	12/01/00
505	PCB 1242	0.10	U	ug/L	0.10	TCZ	12/02/00	12/01/00
505	PCB 1248	0.10	U	ug/L	0.10	TCZ	12/02/00	12/01/00
505	PCB 1254	0.10	U	ug/L	0.10	TCZ	12/02/00	12/01/00
505	PCB 1260	0.10	U	ug/L	0.10	TCZ	12/02/00	12/01/00
505	TOTAL PCB'S	0.10	U	ug/L	0.10	TCZ	12/02/00	12/01/00
	DRINKING WATER ORGANIC HERBICIDES							
515.1	2,4-D	0.10	U	ug/L	0.10	OAO	12/05/00	12/04/00
515.1	DALAPON	1.0	U	ug/L	1.0	OAO	12/05/00	12/04/00
515.1	DINOSEB	0.20	U	ug/L	0.20	OAO	12/05/00	12/04/00
515.1	PENTACHLOROPHENOL	0.040	U	ug/L	0.040	OAO	12/05/00	12/04/00
515.1	PICLORAM	0.10	U	ug/L	0.10	OAO	12/05/00	12/04/00
515.1	2,4,5-TP (SILVEX)	0.20	U	ug/L	0.20	OAO	12/05/00	12/04/00
	DRINKING WATER ORGANIC CARBAMATES							
531.1	CARBOFURAN	2.0	U	ug/L	2.0	KHA	12/05/00	12/04/00
531.1	OXAMYL (VYDATE)	2.0	U	ug/L	2.0	KHA	12/05/00	12/04/00
	DW DISINFECTANT BY-PRODUCTS							
504.1	1,2-DIBROMO-3-CHLOROPROPANE	0.020	U	ug/L	0.020	OAO	12/05/00	12/04/00
504.1	ETHYLENE DIBROMIDE	0.020	U	ug/L	0.020	OAO	12/05/00	12/04/00
	DW MISC. SOC'S - GLYPHOSATE							
547	GLYPHOSATE	6.0	U	ug/L	6.0	LMA/KHA	12/01/00	
	DW MISC. SOC'S - ENDOTHALL							

MS. LINDA CREAN
SOUTH FLORIDA WATER MGMT.DIST.
8894 BELVEDERE RD.
WEST PALM BEACH, FL 33411

Florida Certification: #E83079
ELAB, Inc.

ANALYTICAL REPORT

Submission Number: 11000676
Date Received: 11/29/00
Date Reported: 01/05/01

Client's P.O. Number: C11904W009
Project Number:
Project Name: LEC
Elab Report Name: Finalnew->Final2.RP1

Lab Sample Number: 0011676 2
Client Sample Number: 965
Sample Description: GROUND H20

Date Sampled: 11/28/00
Sample Matrix: GROUND WATER

Method	Analyte	Result	Q	Units	Reporting Limit	Analyst	Date Analyzed	Prepared
	DW MISC. SOC'S - ENDOTHALL							
548.1	ENDOTHALL	9.0	U	ug/L	9.0	MBM	12/06/00	11/30/00
	DW MISC. SOC'S - DIQUAT							
549.1	DIQUAT	0.40	U	ug/L	0.40	KHA	12/04/00	11/30/
	DW GROUP I UNREGULATED OC PESTICIDES							
525.2	ALDRIN	0.10	U	ug/L	0.10	TKA	12/07/00	12/01/00
525.2	DIELDRIN	0.13	U	ug/L	0.13	TKA	12/07/00	12/01/
525.2	PROPACHLOR	0.20	U	ug/L	0.20	TKA	12/07/00	12/01/
	DW GROUP I UNREGULATED-CARBAMATES							
531.1	ALDICARB (TEMIK)	2.0	U	ug/L	2.0	KHA	12/05/00	12/04/
531.1	ALDICARB SULFONE	2.0	U	ug/L	2.0	KHA	12/05/00	12/04/
531.1	ALDICARB SULFOXIDE	2.0	U	ug/L	2.0	KHA	12/05/00	12/04/00
531.1	CARBARYL	2.0	U	ug/L	2.0	KHA	12/05/00	12/04/00
531.1	3-HYDROXYCARBOFURAN	2.0	U	ug/L	2.0	KHA	12/05/00	12/04/
531.1	METHIOCARB	2.0	U	ug/L	2.0	KHA	12/05/00	12/04/
531.1	METHOMYL	2.0	U	ug/L	2.0	KHA	12/05/00	12/04/00
	DW REG AND UNREG VOLATILE ORGANICS							
502.2	BENZENE	0.50	U	ug/L	0.50	RME	11/30/00	
502.2	BROMOBENZENE	0.50	U	ug/L	0.50	RME	11/30/00	
502.2	BROMODICHLOROMETHANE	0.50	U	ug/L	0.50	RME	11/30/00	
502.2	BROMOFORM	0.50	U	ug/L	0.50	RME	11/30/00	
502.2	BROMOMETHANE	0.50	U	ug/L	0.50	RME	11/30/00	
502.2	CARBON TETRACHLORIDE	0.50	U	ug/L	0.50	RME	11/30/00	
502.2	CHLOROETHANE	0.50	U	ug/L	0.50	RME	11/30/00	
502.2	CHLOROFORM	0.50	U	ug/L	0.50	RME	11/30/00	
502.2	CHLOROMETHANE	0.50	U	ug/L	0.50	RME	11/30/00	
502.2	2-CHLOROTOLUENE	0.50	U	ug/L	0.50	RME	11/30/00	
502.2	4-CHLOROTOLUENE	0.50	U	ug/L	0.50	RME	11/30/00	
502.2	DIBROMOCHLOROMETHANE	0.50	U	ug/L	0.50	RME	11/30/00	
502.2	DIBROMOMETHANE	0.50	U	ug/L	0.50	RME	11/30/00	
502.2	1,2-DICHLOROBENZENE	0.50	U	ug/L	0.50	RME	11/30/00	
502.2	1,3-DICHLOROBENZENE	0.50	U	ug/L	0.50	RME	11/30/00	

MS. LINDA CREAN
SOUTH FLORIDA WATER MGMT.DIST.
8894 BELVEDERE RD.
WEST PALM BEACH, FL 33411

Florida Certification: #E83079
ELAB, Inc.

ANALYTICAL REPORT

Submission Number: 11000676
Date Received: 11/29/00
Date Reported: 01/05/01

Client's P.O. Number: C11904WO09
Project Number:
Project Name: LEC
Elab Report Name: Finalnew->Final2.RP1

Lab Sample Number: 0011676 2
Client Sample Number: 965
Sample Description: GROUND H20

Date Sampled: 11/28/00
Sample Matrix: GROUND WATER

Method	Analyte	Result	Q	Units	Reporting Limit	Analyst	Date Analyzed	Prepared
	DW REG AND UNREG VOLATILE ORGANICS							
502.2	1,4-DICHLOROBENZENE	0.50	U	ug/L	0.50	RME	11/30/00	
502.2	DICHLORODIFLUOROMETHANE	0.50	U	ug/L	0.50	RME	11/30/00	
502.2	1,1-DICHLOROETHANE	0.50	U	ug/L	0.50	RME	11/30/00	
502.2	1,2-DICHLOROETHANE	0.50	U	ug/L	0.50	RME	11/30/00	
502.2	1,1-DICHLOROETHENE	0.50	U	ug/L	0.50	RME	11/30/00	
502.2	cis-1,2-DICHLOROETHENE	0.50	U	ug/L	0.50	RME	11/30/00	
502.2	trans-1,2-DICHLOROETHENE	0.50	U	ug/L	0.50	RME	11/30/00	
502.2	DICHLOROMETHANE	0.50	U	ug/L	0.50	RME	11/30/00	
502.2	1,2-DICHLOROPROPANE	0.50	U	ug/L	0.50	RME	11/30/00	
502.2	1,3-DICHLOROPROPANE	0.50	U	ug/L	0.50	RME	11/30/00	
502.2	2,2-DICHLOROPROPANE	0.50	U	ug/L	0.50	RME	11/30/00	
502.2	1,1-DICHLOROPROPENE	0.50	U	ug/L	0.50	RME	11/30/00	
502.2	1,3-DICHLOROPROPENE	0.50	U	ug/L	0.50	RME	11/30/00	
502.2	ETHYLBENZENE	0.50	U	ug/L	0.50	RME	11/30/00	
502.2	METHYL TERT-BUTYL-ETHER (MTBE)	0.50	U	ug/L	0.50	RME	11/30/00	
502.2	MONOCHLOROBENZENE	0.50	U	ug/L	0.50	RME	11/30/00	
502.2	STYRENE	0.50	U	ug/L	0.50	RME	11/30/00	
502.2	1,1,1,2-TETRACHLOROETHANE	0.50	U	ug/L	0.50	RME	11/30/00	
502.2	1,1,2,2-TETRACHLOROETHANE	0.50	U	ug/L	0.50	RME	11/30/00	
502.2	TETRACHLOROETHENE	0.50	U	ug/L	0.50	RME	11/30/00	
502.2	TOLUENE	0.50	U	ug/L	0.50	RME	11/30/00	
502.2	1,2,4-TRICHLOROBENZENE	0.50	U	ug/L	0.50	RME	11/30/00	
502.2	1,1,1-TRICHLOROETHANE	0.50	U	ug/L	0.50	RME	11/30/00	
502.2	1,1,2-TRICHLOROETHANE	0.50	U	ug/L	0.50	RME	11/30/00	
502.2	TRICHLOROETHENE	0.50	U	ug/L	0.50	RME	11/30/00	
502.2	TRICHLOROFLUOROMETHANE	0.50	U	ug/L	0.50	RME	11/30/00	
502.2	1,2,3-TRICHLOROPROPANE	0.50	U	ug/L	0.50	RME	11/30/00	
502.2	VINYL CHLORIDE	0.50	U	ug/L	0.50	RME	11/30/00	
502.2	XYLENES, TOTAL	0.50	U	ug/L	0.50	RME	11/30/00	
	DW ADIPATES, PHTHALATES, AND PAH'S							
525.2	BENZO(A)PYRENE	0.10	U	ug/L	0.10	TKA	12/07/00	12/01/00

MS. LINDA CREAN
SOUTH FLORIDA WATER MGMT.DIST.
8894 BELVEDERE RD.
WEST PALM BEACH,FL 33411

Florida Certification: #E83079
ELAB, Inc.

ANALYTICAL REPORT

Submission Number: 11000676
Date Received: 11/29/00
Date Reported: 01/05/01

Client's P.O. Number: C11904WO09
Project Number:
Project Name: LEC
Elab Report Name: Finalnew->Final2.RP1

Lab Sample Number: 0011676 2
Client Sample Number: 965
Sample Description: GROUND H20

Date Sampled: 11/28/00
Sample Matrix: GROUND WATER

Method	Analyte	Result	Q	Units	Reporting Limit	Analyst	Date Analyzed	Prepare
	DW ADIPATES, PHTHALATES, AND PAH'S							
525.2	DI(2-ETHYLHEXYL)PHTHALATE	2.0	U	ug/L	2.0	TKA	12/07/00	12/01/0
525.2	DI(2-ETHYLHEXYL)ADIPATE	1.6	U	ug/L	1.6	TKA	12/07/00	12/01/0
110.2	COLOR	10		UNIT	5.0	MRO	11/29/00	16:12
120.1	SPECIFIC CONDUCTANCE	5370		umhos/cm	1.0	MRO	11/29/00	
SM2330B	LANGLIER SATURATION INDEX	0.23		----		KFE	12/07/00	
140.1	ODOR	6.0		TON	5.0	MRO	11/29/00	16:17
150.1	pH	7.66		UNIT		MRO	11/29/00	16:23
160.1	TOTAL DISSOLVED SOLIDS (TDS)	2800		mg/L	5.0	MRO	11/29/00	
180.1	TURBIDITY	25		NTU	0.10	MRO	11/29/00	16:07
100.2	ASBESTOS	0.20	U	MFL	0.20	EMSL	12/13/00	12/01 0
335.2	CYANIDE - TOTAL	0.010	U	mg/L	0.010	TPE	12/04/00	
350/351.2	ORGANIC NITROGEN (as N)	0.50	U	mg/L	0.50	TPE	11/30/00	
351.2	TOTAL KJELDAHL NITROGEN (as N)	0.66		mg/L	0.50	TPE	11/30/00	
365.4	TOTAL PHOSPHORUS	0.10	U	mg/L	0.10	TPE	11/30/00	
350.1	AMMONIA NITROGEN (as N)	0.56		mg/L	0.050	TPE	11/29/00	
405.1	BOD 5-day	2.9		mg/L	2.0	MMA	11/29/00	
425.1	SURFACTANTS (MBAS)	0.14		mg/L	0.10	MMA	11/29/00	
900.0	GROSS ALPHA	9.1+/-5.3	U	pCi/L	9.1+/-5.3	MJN	12/12/00	
900.0	GROSS BETA	26.8+/-4.7		pCi/L		MJN	12/12/00	
SM7500Ra	RADIUM 226	3.2+/-0.3		pCi/L		MJN	12/14/00	
SM7500Ra	RADIUM 228	2.1+/-0.8		pCi/L		MJN	12/14/00	
300.0	CHLORIDE	1400		mg/L	12	KFE	11/29/00	
300.0	FLUORIDE	2.0		mg/L	1.2	KFE	11/29/00	
300.0	NITRATE NITROGEN (as N)	1.2	U	mg/L	1.2	KFE	11/29/00	17:44
300.0	NITRITE NITROGEN (as N)	1.2	U	mg/L	1.2	KFE	11/29/00	17:44
300.0	NITROGEN - NO3/NO2 (NOX)	1.2	U	mg/L	1.2	KFE	11/29/00	
300.0	ORTHOPHOSPHATE - P	2.5	U	mg/L	2.5	KFE	11/29/00	17:44
300.0	SULFATE	420		mg/L	12	KFE	11/29/00	
204.2	ANTIMONY (TOTAL)	3.0	U	ug/L	3.0	JAS	12/04/00	
7421	LEAD (TOTAL)	1.0	U	ug/L	1.0	EM	12/01/00	
7470	MERCURY	0.20	U	ug/L	0.20	EM	12/04/00	

MS. LINDA CREAN
SOUTH FLORIDA WATER MGMT.DIST.
8894 BELVEDERE RD.
WEST PALM BEACH,FL 33411

Florida
Certification:
#E83079

ELAB, Inc.

ANALYTICAL REPORT

Submission Number: 11000676
Date Received: 11/29/00
Date Reported: 01/05/01

Client's P.O. Number: C11904WO09
Project Number:
Project Name: LEC
Elab Report Name: Finalnew->Final2.RP1

Lab Sample Number: 0011676 2
Client Sample Number: 965
Sample Description: GROUND H20

Date Sampled: 11/28/00
Sample Matrix: GROUND WATER

Method	Analyte	Result	Q	Units	Reporting Limit	Analyst	Date Analyzed	Prepared
7740	SELENIUM (TOTAL)	2.0	U	ug/L	2.0	EM	12/06/00	
7841	THALLIUM (TOTAL)	1.0	U	ug/L	1.0	JAS	12/04/00	
200.7	ALUMINUM (TOTAL)	100	U	ug/L	100	EM	11/30/00	
200.7	ARSENIC (TOTAL)	5.0	U	ug/L	5.0	EM	11/30/00	
200.7	BARIUM (TOTAL)	12		ug/L	10	EM	11/30/00	
200.7	BERYLLIUM (TOTAL)	1.0	U	ug/L	1.0	EM	11/30/00	
200.7	CADMIUM (TOTAL)	1.0	U	ug/L	1.0	EM	11/30/00	
200.7	CHROMIUM (TOTAL)	5.0	U	ug/L	5.0	EM	11/30/00	
200.7	COPPER (TOTAL)	10	U	ug/L	10	EM	11/30/00	
200.7	IRON (TOTAL)	92		ug/L	40	EM	11/30/00	
200.7	MANGANESE (TOTAL)	6.7		ug/L	5.0	EM	11/30/00	
200.7	NICKEL (TOTAL)	10	U	ug/L	10	EM	11/30/00	
200.7	SILVER (TOTAL)	10	U	ug/L	10	EM	11/30/00	
200.7	SODIUM (TOTAL)	760		mg/L	5.0	JAS	12/04/00	
200.7	ZINC (TOTAL)	20	U	ug/L	20	EM	11/30/00	

Data Qualifier Code Key:

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

Lab Sample Number: 0011676 3
Client Sample Number: 966
Sample Description: REPLICATE SAMPLE

Date Sampled: 11/28/00
Sample Matrix: GROUND WATER

Method	Analyte	Result	Q	Units	Reporting Limit	Analyst	Date Analyzed	Prepared
1613A	DIOXIN (2,3,7,8-TCDD)	0.77	U	pg/L	0.77	SWL	12/21/00	12/07/00
	PRIORITY POLLUTANT B/N/A EXTRACTABLES							
625	ACENAPHTHENE	5.0	U	ug/L	5.0	VG	12/10/00	12/03/00
625	ACENAPHTHYLENE	5.0	U	ug/L	5.0	VG	12/10/00	12/03/00
625	ANTHRACENE	5.0	U	ug/L	5.0	VG	12/10/00	12/03/00