

**WATER YEAR 2003
WATER MONITORING REPORT
FORMER
PINEY POINT PHOSPHATES, INC. FACILITY**

PREPARED FOR:

**LOUIS J. TIMCHAK, JR.
COURT APPOINTED RECEIVER**

PREPARED BY:



Environmental Consulting & Technology, Inc.

**1408 North Westshore Boulevard
Suite 115
Tampa, Florida 33607
(813) 289-9338
Facsimile: (813) 289-9388**

010344-0300

FEBRUARY 2004

TABLE OF CONTENTS

1. INTRODUCTION.....	1-1
1.1 FORMAT.....	1-2
2. OFFSITE SHIPMENTS AND DISCHARGES	2-1
2.1 SURFACE DISCHARGE EVENTS	2-2
2.1.1 RO TREATMENT AND DISCHARGE.....	2-2
2.1.2 LIME AND AERATION AND DISCHARGE	2-3
2.2 MANATEE COUNTY UTILITIES	2-3
2.3 CARGILL FERTILIZER, INC.	2-4
2.4 CITY OF TAMPA	2-4
2.5 CF INDUSTRIES, INC.	2-5
2.6 GULF DISPERSION.....	2-5
2.7 HILLSBOROUGH COUNTY	2-5
2.8 OFFSITE TRANSFER SUMMARY.....	2-6
3. WATER QUALITY INFORMATION	3-1
3.1 POND WATER	3-2
3.2 SINGLE LIME WATER.....	3-2
3.3 DOUBLE LIME WATER.....	3-3
3.3.1 AQUATIC TOXICITY TESTING	3-3
3.4 FIRST PASS REVERSE OSMOSIS PERMEATE.....	3-4
3.5 FIRST PASS REVERSE OSMOSIS REJECT	3-4
3.6 SECOND PASS REVERSE OSMOSIS PERMEATE	3-5
3.7 U.S. FILTER FINAL PRODUCT.....	3-5
3.7.1 AQUATIC TOXICITY TESTING	3-5
3.8 DISCHARGE WATER QUALITY	3-6

ATTACHMENTS

Attachment A—Chronic Toxicity Bioassay Results
Attachment B—RO/Deep-Well Chemistry Data
Attachment C—RO Chemistry Data

LIST OF TABLES

- Table 1. Water Year 2003 Offsite Transfer Summary
- Table 2. Master Pond Water Quality Data Spreadsheet
- Table 3. Master Single Lime Water Quality Spreadsheet
- Table 4. Master Double Lime Water Quality Spreadsheet
- Table 5. Master First Pass RO Permeate Spreadsheet
- Table 6. Master RO Reject Spreadsheet
- Table 7. Master Second Pass RO Permeate Without Polishing Spreadsheet
- Table 8. Master Second Pass RO Plus Ion-Exchange Polishing Spreadsheet
- Table 9. Ammonia Loading Emergency Order No. 02-1054
- Table 10. Daily Water Quality Monitoring Results
- Table 11. Weekly Water Quality Analyses
- Table 12. Monthly Water Quality Analyses

LIST OF FIGURES

- Figure 1. Regional Location Map
- Figure 2. Aerial Photograph
- Figure 3. Gypsum Stack Locations

1. INTRODUCTION

During water year 2003 (i.e., October 1, 2002 through September 30, 2003), Mr. Louis J. Timchak, Jr., the Court Appointed Receiver (Receiver), was responsible for managing the former Piney Point Phosphates, Inc. phosphogypsum stack system. Figure 1 provides a regional location map and Figure 2 is an aerial photograph of the facility that illustrates onsite features relevant to this report.

To fulfill his responsibilities to manage the Piney Point phosphogypsum stack system, the Receiver directed the onsite staff of Shaw Environmental, Inc. (Shaw); the third-party engineer of record, Ardaman & Associates, Inc. (Ardaman); and the environmental consultant, Environmental Consulting & Technology, Inc. (ECT) to: (1) treat remnant process water¹; (2) discharge treated water in accordance with the terms of two Emergency Orders issued by the Florida Department of Environmental Protection (FDEP); (3) truck treated and untreated remnant process water to third parties (e.g., Manatee and Hillsborough Counties Utilities, the city of Tampa, CF Industries, Inc., and Cargill Fertilizer, Inc.); (4) disperse water in the Gulf of Mexico in accordance with a permit issued by the U.S. Environmental Protection Agency (EPA); and (5) to monitor the quality of the *in situ* remnant process water and the various treated water streams. These discharges and offsite shipments were implemented to achieve two principal objectives: (1) reduce onsite water volumes to safe levels following extremely high rainfall experienced between September 2001 and October 2003; and (2) create sufficient storage capacity to safely commence closure of the site beginning in November 2003. Both objectives, of course, center upon the need to manage the impacted water inventory to prevent a release of untreated water.

¹ The term “process water” refers to all water, including captured rainfall and runoff, contained in the Piney Point phosphogypsum stack system.

1.1 FORMAT

The purpose of this report is to document all offsite shipments and discharges of remnant process water in terms of volume and quality and all monitoring results from water year 2003. The format of this report is straightforward. Section 2 describes all discharges of treated process water and offsite truck shipments to third parties. Section 3 presents all of the data collected during water year 2003 that defines the quality of the *in situ* remnant process water or the lime-or reverse osmosis-(RO) treated water that was transferred offsite or discharged during water year 2003. Water quality monitoring results from sampling beyond the phosphogypsum stack system (e.g., adjacent, receiving surface water bodies and monitor wells) are not addressed in this report.

2. OFFSITE SHIPMENTS AND DISCHARGES

Prior to water year 2003, the Receiver instructed Ardaman to construct a water budget model of the Piney Point phosphogypsum stack system as one of the principal steps for the Receiver's management of the site, which began during the second quarter of calendar year 2001. The Ardaman water budget includes monthly preparation of rolling 12-month future projections of the ability of the Piney Point phosphogypsum stack system to contain average and above average rainfall levels safely, while also reserving storage capacity to hold a 100-year rainfall event so as to prevent a release of untreated water, and reducing ponded water inventories to facilitate closure of the phosphogypsum stack system.

Water year 2003 began on October 1, 2002 with the site having only partially recovered from the 18-plus inches of rain received during September 2001, when Tropical Storm Gabrielle passed over the complex. A combination of raising the berms of the gypsum stack system, offsite transfers of untreated, partially treated, and fully treated water, and discharges of RO treated water resulted in an available surge storage capacity of 460-acre feet, or about 12 inches of accumulated rainfall, on October 1, 2002 at the end of the summer wet season.

During October and November 2002, near average rainfall levels, combined with offsite transfers of 0.81 and 1.17 million gallons per day (MGD) created sufficient storage capacity to begin closure of the north compartment of the new gypsum stack (NGSN). However, a brief but intensive El Niño occurrence resulted in the consumption of 460-acre feet of storage in the December 10, 2002 through January 10, 2003 time period.

The El Niño occurrence caused: (1) the closure of the NGSN to cease as this compartment had to be refilled; (2) the offsite transfer rate to plummet as partners such as CF Industries, Manatee County, and Cargill Fertilizer also were adversely affected by the historic rainfall levels (3) Ardaman to recommend an offsite transfer rate of 2.86 MGD between March and November 2003 (i.e., 700 million gallons), up from the 1.2 MGD

rate recommended before the El Niño occurrence; and (4) FDEP to authorize the resumption of surface discharges under an Emergency Order and seek approval to disperse large volumes of fully treated water in the Gulf of Mexico.

During water year 2003, offsite transfers consisted of:

1. Surface discharge of treated process water under several modifications of Emergency Order No. 02-1054;
2. Truck transfers of fully treated process water to the Manatee County Utilities Operation Department (Manatee County);
3. Truck transfers of neutralized process water to Cargill in Riverview, Florida;
4. Truck transfers of fully treated process water to the city of Tampa's Howard F. Curren wastewater treatment plant (Tampa);
5. Truck transfers of untreated process water to CF in Plant City, Florida;
6. Gulf dispersion in accordance with EPA Permit No. OD-01; and
7. Truck transfers of fully treated process water to the Hillsborough County South and Faulkenburg Road wastewater treatment facilities.

2.1 SURFACE DISCHARGE EVENTS

During water year 2003, process water was discharged offsite following either RO or lime precipitation and aeration treatment. The following subsections summarize each of these discharge events and volumes.

2.1.1 RO TREATMENT AND DISCHARGE

Operation of the U.S. Filter mobile RO continued throughout water year 2003. All of the process water treated using this process was discharged through Outfall 003 and flowed through Bishop Harbor into Tampa Bay in accordance with the terms of Emergency Order No. 02-1054.

Production of RO permeate essentially occurred at two levels during this water year: (1) at an average rate of 330,704 gallons per day (gpd) prior to the installation and "debugging" of their Actiflo[®] algae removal system between October 2002 and June

2003; and (2) at an average rate of 529,460 since July 2003 once experienced operators were in place.

A total of 138.993 million gallons were treated by U.S. Filter during water year 2003. This compares favorably to the 19.974 million gallons treated in water year 2002. RO permeate discharges comprised 19.3 percent of all offsite water transfers during water year 2003.

2.1.2 LIME AND AERATION AND DISCHARGE

Emergency Order No. 02-1054 was modified four times during water year 2003 in response to above average precipitation and the need to increase the offsite transfer rate significantly in order to respond to the heavy rainfall; three of the four modifications ordered the Receiver to fully treat the accumulated process water with lime and aeration and to discharge the fully treated water through Outfall 003 whenever the treated water production volume exceeded the volume transferred offsite by the other options (e.g., Tampa, Cargill, etc.) described in this section.

Beginning in late December 2002, surface discharges of lime plus aeration treated water occurred essentially continuously throughout water year 2003. A total of 391.639 million gallons was discharged during water year 2003. This total represents 54.7 percent of the total volume transferred offsite during water year 2003.

2.2 MANATEE COUNTY UTILITIES

The Receiver was authorized to truck water to the Manatee County Public Utilities Authority beginning in March 2002. Figure 3 illustrates the relative location of the Piney Point phosphogypsum stack system, and the Manatee County North and Southeast Regional Waste Water Treatment Facilities (RWWTFs), which processed the treated process water. Because all of the effluent from the Manatee County North and Southeast RWWTFs was land applied for beneficial re-use in water year 2003, volumes shipped to Manatee County were controlled on the basis of weather.

Shipments were limited to November and December prior to the heavy El Niño precipitation. Shipments resumed in May 2003, however wet weather in early June again caused a cessation of shipments for the remainder of water year 2003. A total of 3.616 million gallons was transferred during this approximate six month period. This total represents 0.5 percent of the total volume transferred offsite during water year 2003.

2.3 CARGILL FERTILIZER, INC.

The Receiver continued to truck water to Cargill's Riverview Fertilizer Complex for beneficial re-use in manufacturing. Unlike shipments to Manatee County, re-use by Cargill is not as wet weather sensitive nor limited by water quality as long as the process water is neutralized to a pH of 5.5 to 7.0 standard units. Figure 3 illustrates the relative location of Cargill's Riverview Complex and the Piney Point facility.

Truck shipments to Cargill continued through the remainder of water year 2003; however, heavy rains in December 2002 and the 2003 summer months resulted in significantly reduced volumes in January and August 2003. A total of 22.087 million gallons were trucked to this location during water year 2003. This volume represents 3.1 percent of the total transferred offsite during water year 2003.

2.4 CITY OF TAMPA

The December 2002 El Niño rainfalls caused the Receiver to seek additional outlets for offsite transfers, with particular emphasis on facilities that were not weather sensitive. The city of Tampa's Howard F. Curren advanced wastewater treatment facility meets these qualifications because of its denitrification capability and its permit to allow surface discharges to Tampa Bay. Thus, transfers to the Curren plant result in the discharge of treated water to Tampa Bay; however, the Curren plant's treatment process results in the reduction of nitrogen by another 85 to 90 percent beyond the reductions achieved at the Piney Point aeration ponds.

The city of Tampa quickly issued an industrial user's permit to the Receiver and began accepting shipments in February 2003. Through September 2003, a total volume of 20.571 million gallons was treated at the Curren plant, which represents 2.9 percent of the total volume transferred offsite during water year 2003.

2.5 CF INDUSTRIES, INC.

The Receiver continued to truck untreated, acidic remnant process water to CF's Plant City fertilizer manufacturing complex for beneficial re-use (see Figure 3) until the December El Niño rains caused CF to stop shipments for the remainder of water year 2003. A total of 35.220 million gallons was trucked to CF during this approximate 90-day period, which represents 4.9 percent of the total volume transferred offsite during water year 2003.

2.6 GULF DISPERSION

Following issuance of permit no. OD-01 by EPA in April 2003 pursuant to the Marine Protection, Research, and Sanctuaries Act (MPRSA), approximately 90 days were required to permit and construct a pipeline from Piney Point to Port Manatee; secure and clean the *Barge New York*; and commence dispersion of fully treated water in the Gulf of Mexico approximately 120 nautical miles offshore. Dispersion continued through the remainder of water year 2003. During this approximate 75-day period, a total of 101.837 million gallons was dispersed in the Gulf of Mexico, which represents 14.2 percent of the total volume transferred offsite during water year 2003.

2.7 HILLSBOROUGH COUNTY

The Receiver approached the Hillsborough County Water Department again in January 2003 with a permit application to truck water to the County's Valrico, Faulkenburg, and South regional wastewater treatment facilities, following earlier discussions in water year 2002. A significant industrial user permit was subsequently issued on April 25, 2003.

Shipments to the South regional facility began in April and were shifted to the Faulkenburg Road plant in August when water quality concerns were raised. A total of 1.364 million gallons was shipped to Hillsborough County facilities in water year 2003, which equates to 0.2 percent of the total volume transferred offsite during water year 2003.

2.8 OFFSITE TRANSFER SUMMARY

Table 1 presents a monthly summary of all of the offsite transfer volumes described above. As shown on this table, a total of 715.443 million gallons was transferred offsite during water year 2003. This total is 11.6 times the volume transferred offsite during water year 2002.

3. WATER QUALITY INFORMATION

Water quality sampling conducted during water year 2003 was more focused than in previous years because the characterization of the quality of the ponded process water inventory and the water treated using the lime plus aeration and RO technologies also was well defined.

As a result of these efforts, the Receiver has water quality characterizations of the following waters:

1. *In situ* remnant process water stored in the onsite impoundments (pond water);
2. Process water treated with lime in a single-stage process (single-lime water);
3. Process water treated with lime in a two-stage process and aerated (double-lime water);
4. Process water treated by filtration followed by one pass through a RO unit (first pass RO permeate);
5. The reject from the first pass RO unit (first pass RO reject);
6. Process water treated by filtration followed by two sequential passes through RO units (second pass RO permeate); and
7. Process water treated by filtration, two passes through RO units, and fixed-bed multiple-resin ion exchange columns (USF final product).

Tables 2 through 8 present all of the available water quality data collected for each of the seven water types listed above, respectively, including all of the analyses conducted in 2003 and prior years. Unlike water year 2002, the vast majority of the water transferred offsite was surfaced discharged through Outfall 003. In accordance with the conditions of the Emergency Order, as modified throughout the year, daily, weekly, and monthly data was collected from the discharge Outfall no. 003. Tables 9 through 12 present all of the daily, weekly, and monthly discharge water quality data collected during water year 2003. It is important to note, however, that the discharges were comprised predominately of a mixture of the U.S. Filter final product and the double lime treated water. Therefore, Tables 9 through 12 characterize a different stream of water than any of the other tables.

The following sub-sections briefly summarize the water year 2003 water quality sampling efforts.

3.1 POND WATER

In situ remnant process water was sampled monthly during October, November, and December 2002 as the raw, untreated water was being loaded into trucks for shipment to CF in Plant City. As noted in Section 2.5 above, these shipments ceased in December due to the El Niño-caused excess rainfall.

Thereafter, one set of process water samples were collected from the old gypsum stack, the new gypsum stack, and the return water canal (see Figure 3) on August 8, 2003. These samples were collected to update the characterization of the ponded process water inventory and to assess whether the routing of the U.S. Filter reject flows to the new gypsum stack, combined with other water management procedures, were causing the water quality in the various compartments to vary.

Table 2 presents the water quality data collected from these five sampling events. Table 2 also presents the data collected prior to water year 2003.

3.2 SINGLE LIME WATER

Water treated by one stage (or pass) liming and clarification was shipped to Cargill as discussed in Section 2.3 above. The Receiver's Agreement with Cargill only imposes a pH limitation on these shipments and does not require the quality of the water to be monitored for any other parameters. For these reasons, no samples of single lime water were collected for water quality characterization purposes in water year 2003. Therefore, the data presented in Table 3 is the same data presented in the water year 2002 report.

3.3 DOUBLE LIME WATER

Process water treated with lime in two separate stages, followed by spray aeration and, in most cases, acidulation to reduce the pH to levels between 6.0 and 8.5 standard units was sampled:

1. Weekly during the three weeks water was shipped to Florida Power & Light during November and December 2002;
2. Daily for 21 days in February and March 2003 to characterize the temporal variations in response to requests by the city of St. Petersburg during unsuccessful negotiations with the City to truck water to their South and Southeast water reclamation facilities; and
3. Bi-weekly since June 2003 as a condition of approval of the Hillsborough County significant industrial user permit.

All of these samples were collected from the truck loading station used to transport these shipments. Table 4 presents all of the data collected from these 32 sampling events.

3.3.1 AQUATIC TOXICITY TESTING

In conformance with Special Condition no. 21 of the MPRSA Permit (see Section 2.6 above), two 96-hour acute static non-renewal definitive bioassay tests were conducted by the Hydrosphere Research, Inc. aquatic toxicity laboratory in Gainesville, Florida with the mysid shrimp (*Mysidopsis bahia*) and the inland silverside minnow (*Menidia beryllina*). An additional 48-hour acute static non-renewal definitive bioassay test was conducted with the sea urchin (*Arbacia punctulata*).

All tests were conducted using the methods specified in *Evaluation of Dredged Material Proposed for Ocean Disposal-Testing Manual* (USACE and USEPA, 1991, EPA-503/8-91/001). Test concentrations were 0 (control), 10, 50, and 100 percent effluent for all three tests. The effluent was collected on May 22, 2003 immediately following the acidulation station downstream of both lime precipitation, spray aeration, and sedimentation treatment steps. The treated effluent contained:

- Specific Conductance = 7,456 $\mu\text{S}/\text{cm}$;

- Temperature = 24.31°C;
- Dissolved Oxygen = 5.91 mg/L;
- pH = 5.95 standard units; and
- Ammonia (Total as NH₃) = 18.1 mg/L.

The final survivals for both species in the 96-hour acute tests are summarized in the table below:

% Effluent	<i>M. bahia</i> Final Survival (%)	<i>M. beryllina</i> Final Survival (%)
Control	100	100
10	100	100
50	100	100
100	0	100
LC50	71%	>100%

The final fertilization for *A. punctulata* in the 48-hour test is summarized in the table below:

% Effluent	<i>A. punctulata</i> Fertilization (%)
Control	98
10	94
50	77
100	45
IC25	55%

These bioassays were initiated within 36 hours of the sample collection time, and were acceptable tests based on control survival and test conditions.

3.4 FIRST PASS REVERSE OSMOSIS PERMEATE

No samples of first pass RO permeate were collected in water year 2003 because the samples collected in water year 2002 demonstrated that first pass RO permeate was most suitable for discharge or reuse purposes. Table 5 presents this historical data.

3.5 FIRST PASS REVERSE OSMOSIS REJECT

Samples of the reject stream from the first pass RO units were collected weekly during October, November, and December 2002 while shipments to CF were ongoing as described in Section 2.5 above. These data are presented in Table 6, together with

historical data. Since shipments to CF have been suspended, no additional samples have been collected.

3.6 SECOND PASS REVERSE OSMOSIS PERMEATE

No additional samples of second pass RO permeate were collected during water year 2003. Table 7 presents the historical data.

3.7 U.S. FILTER FINAL PRODUCT

No additional samples of U.S. Filter's final product were collected for characterization purposes during water year 2003. Table 8 presents the historical data.

3.7.1 AQUATIC TOXICITY TESTING

As noted in Section 2.1.1. above, Receiver has been authorized by the Department to treat the process water using reverse osmosis technology (RO), and combine the RO permeate with deep-well water prior to discharge via Outfall 003. Prior to the issuance of the Emergency order authorizing the discharge of RO permeate, the Department conducted bioassays on the RO permeate and blends of well water to evaluate possible toxicity impacts due to ionic imbalance, and to determine well water blend ratios to mediate any potential toxic characteristics. The toxicity tests discussed in this report were performed in accordance with methods described by Peltier, 1994, *Short-Term Methods for Measuring the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms*, 3rd Edition, EPA/600/4-91/002.

Specifically, the FDEP Biology Section performed a seven-day chronic toxicity bioassay on samples of RO permeate and deep well water collected from the facility. Samples were collected on June 24, 26, and 28, 2002. The test species used for this bioassay test was the waterflea, *Ceriodaphnia dubia*. The test concentrations were prepared with the deep-well water as the diluent and the RO permeate as the "effluent". The concentrations of permeate ranged from 98.44% to 50%; conversely, the concentrations of deep-well water ranged from 1.56% to 50%. Two controls, one consisting of 20% Diluted Mineral

Water and one consisting of deep-well water, were utilized. A control consisting of pure RO permeate was not utilized based on conversations with staff in which historical data showed that the RO permeate was too “pure” to support aquatic life (waterflea). The test results did not indicate acute toxicity or chronic toxicity to the test organisms within seven days (see Attachment A). The No Observed Effect Concentration was the lowest test concentration which consisted of 1.56% deep-well water and 98.44% RO permeate.

Total residual chlorine was not detected in the bioassay samples in the laboratory. Total ammonia was detected in both the RO permeate (0.55 mg/L) sample and the deep-well water (0.09 mg/L) sample collected on June 28, 2002. Samples were not collected for chemical analyses when the bioassay samples were collected; however, chemistry data from both RO plant samples (collected 5/22/02) and also a deep-well sample (collected 5/14/02) are shown in Attachment B. Attachment C contains physical-chemical and nutrient data from 24-hour composite samples of final U.S. Filter product that were collected on 24, 26, and 28 June, 2002. The data in Attachment C shows that alkalinity, total dissolved solids, and total kjeldahl nitrogen generally increased over the sampling period. The samples of RO permeate and deep-well water when blended at concentrations of ranging from 50% RO permeate and 50% deep-well water, to 98.44% permeate and 1.56% deep-well water did not show acute toxicity or chronic toxicity within the seven day test period.

3.8 DISCHARGE WATER QUALITY

As noted previously, the quality of the water discharged through Outfall 003 was monitored according to daily, weekly, and monthly schedules. Tables 9 through 12 present the daily, weekly, and monthly results, respectively. Note that the data in Table 10 presents grab samples results. The data in Tables 9, 11, and 12 are 24-hour composite samples.

TABLES

TABLE 1
(page 1 of 2)
WATER YEAR 2003
OFFSITE TRANSFER SUMMARY

Date	Manatee County	Cargill	City of Tampa	FP&L	CF	Hillsborough County	Gulf Dispersion	RO Treated Water	Emergency Order Discharges
Oct-02	0	2,567,589	0	0	9,946,813	0	0		0
Nov-02	1,650,000	2,141,885	0	108,000	12,753,094	0	0		0
Dec-02	797,110	3,380,147	0	780,000	12,520,001	0	0		2,796,780
Jan-03	0	205,780	0	0	0	0	0		31,657,664
Feb-03	0	1,408,708	435,200	0	0	0	0		44,894,910
Mar-03	0	1,828,071	2,515,010	0	0	0	0		56,395,946
Apr-03	0	2,205,093	2,253,200	0	0	61,600	0		46,960,180
May-03	1,168,750	2,128,393	2,338,800	0	0	220,400	0		37,663,526
Jun-03	0	1,908,825	2,229,600	0	0	224,800	0		43,773,104
Jul-03	0	1,873,544	2,362,000	0	0	345,600	18,585,941		41,832,678
Aug-03	0	346,455	3,201,850	0	0	276,800	48,555,645		41,153,979
Sep-03	0	2,092,509	5,235,520	0	0	235,200	34,695,872		44,510,292
Total Water Year 2003	3,615,860	22,086,999	20,571,180	888,000	35,219,908	1,364,400	101,837,458		391,639,059

TABLE 1
(page 2 of 2)
COMPARISON OF OFFSITE TRANSFER VOLUMES
WATER YEARS 2002 and 2003

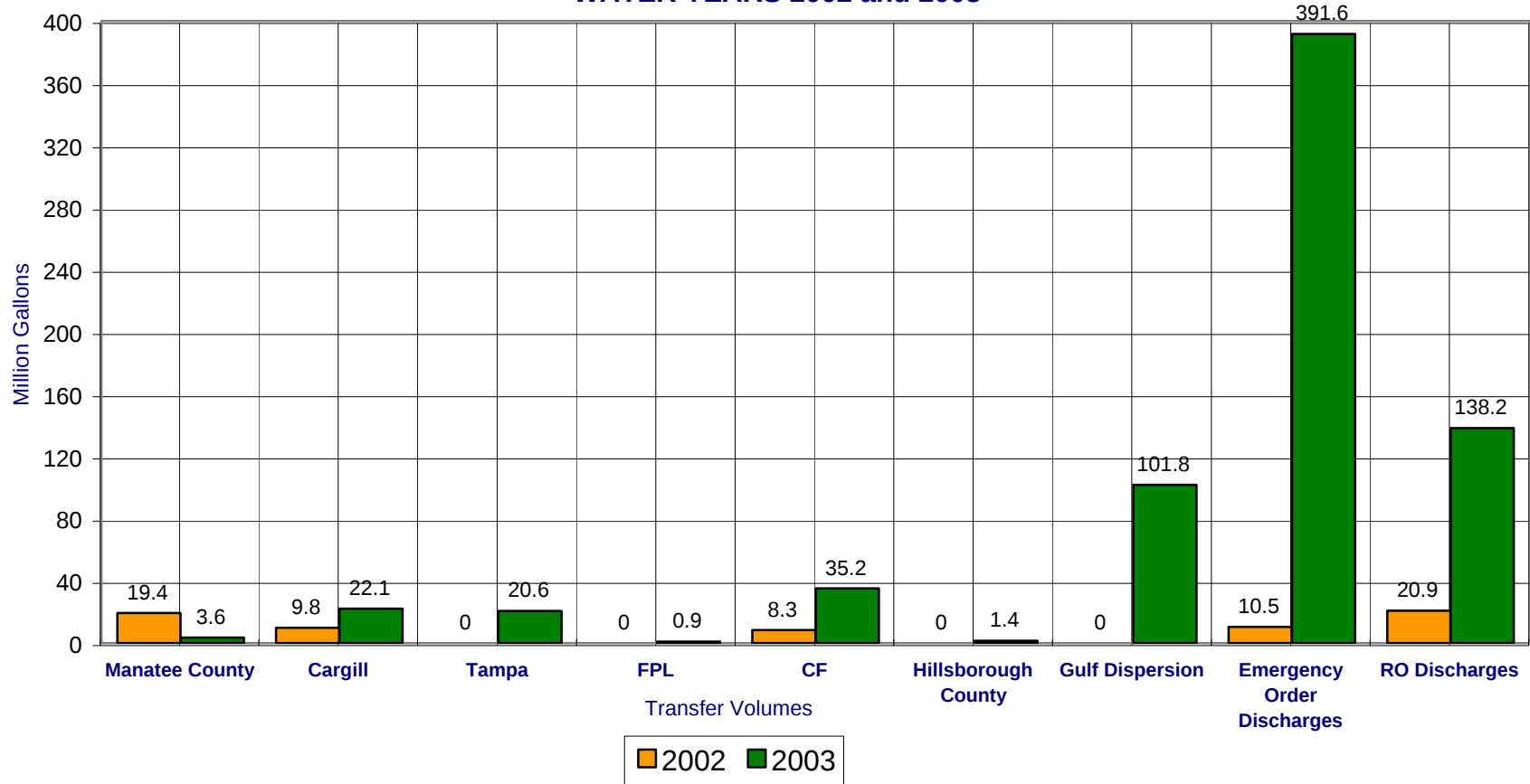


TABLE 2
MASTER POND WATER QUALITY DATA SPREADSHEET

General Sample Information		Units																				
Date	N/A	08/09/01	08/09/01	08/09/01	08/09/01	08/09/01	08/09/01	08/09/01	01/18/02	02/15/02	02/15/02	02/15/02	02/15/02	05/22/02	05/23/02	05/28/02	05/29/02	05/30/02	05/30/02	06/05/02	6/6/02	
Sample No.	N/A	P1-1	P1-2	P1-3	P1-4	P1-5	P1-6	P1-7	P-2	P-3-A	P-3-B	P-3-C	P-3-D	P-4	P-5	P-6	P-7	P-8	P-9	P-10	P-11	
Sample Type	N/A	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Composite	Composite	Composite	Composite	Composite	Composite	Composite	Composite	
Samplers	N/A	Shaw	Shaw	Shaw	Shaw	Shaw	Shaw	Shaw	CF	Ardaman	Ardaman	Ardaman	Ardaman	ECT	ECT	ECT	ECT	ECT	ECT	ECT	ECT	
Laboratory	N/A	Thornton	Thornton	Thornton	Thornton	Thornton	Thornton	Thornton	FDEP	ENCO	Thornton	FDEP	Pembroke	FDEP	ENCO	ENCO	ENCO	ENCO	ENCO	ENCO	ENCO	
Field Physio-Chemical Indicators																						
Dissolved Oxygen	mg/L																					
pH	std. units	6.08	7.98	3.07	3.20	2.97	2.99	6.92	2.85	2.9					2.99	2.99	2.98	3.06	2.94	2.96	2.80	
Specific Conductance	µS/cm									9,500					12,454	12,030	12,397	12,350	12,816	13,036	11,710	
Temperature	°C		33.2		30.7	29.3	35.3															
Turbidity	NTU								6.7	9.0	13.0	6.1		14								
Nutrients																						
Ammonia Nitrogen	mg/L	190.0	10.0	707	730	720	620	5.8	630	580			635	600								
Nitrate Nitrogen	mg/L								0.52	0.28												
Nitrate + Nitrite	mg/L	0.07	0.03	0.14	0.64	0.66	0.29	<0.02	0.52	0.28				0.24	0.20	0.31	0.20	0.19	0.21	0.24	0.22	
Total Kjeldahl Nitrogen	mg/L	500.0	2.0	<0.4	<0.4	40.0	<0.4	4.1	680	490			641	650	690	630	630	600	630	710	690	
Total Nitrogen	mg/L	240.0	12.0	707	730	720	620	5.8	681	490				650	690	630	630	600	630	710	690	
Oil and Grease	mg/L																					
Ortho-Phosphate	mg/L								1,600	1,700			1,505	1,600								
Total Phosphorus	mg/L	86.0	1.2	1,400.0	1,460.0	1,420.0	1,190.0	1.9	1,600	1,200			1,529	1,400								
Minerals - Suspended and Dissolved																						
Bromide	mg/L													N/A								
Calcium	mg/L								591	580				551	630	600	660	670	590	620	680	
Chloride	mg/L								100.0	110				110								
Fluoride	mg/L	2.2	6.0	37.0	62.0	44.0	3.0	1.8	170.0	160			178	150	160	170	160	130	140	130	130	
Silica	mg/L								210	542				200								
Sulfate	mg/L								4,600	4,200				5,200	4,600	4,600	4,100	5,000	5,000	5,000	5,000	
Water Quality Indicators																						
Alkalinity	mg/L								<1.0	<2.0				<0.65								
Biological Oxygen Demand	mg/L													17								
Calcium Hardness	mg/L																					
Chemical Oxygen Demand	mg/L																					
Chlorophyll A	mg/L																					
Color	PCU								70	65				100	50	50	40	50	50	50	50	
Magnesium Hardness	mg/L																					
Total Hardness	mg/L																					
Total Dissolved Solids	mg/L								10,200	9,600				11,500	12,000	11,000	12,000	13,000	12,000	12,000	12,000	
Total Suspended Solids	mg/L								<15	58				24	120	20		18	16	20	30	
Radiological																						
Gross Alpha Radiation	pCi/L										49.0			N/A								
Gross Beta Radiation	pCi/L													N/A								
Radium 226	pCi/L										1.8			N/A								
Radium 228	pCi/L										0.3			N/A								

TABLE 2
MASTER POND WATER QUALITY DATA SPREADSHEET

General Sample Information		Units																			
Date	N/A	08/09/01	08/09/01	08/09/01	08/09/01	08/09/01	08/09/01	08/09/01	01/18/02	02/15/02	02/15/02	02/15/02	02/15/02	05/22/02	05/23/02	05/28/02	05/29/02	05/30/02	05/30/02	06/05/02	6/6/02
Sample No.	N/A	P1-1	P1-2	P1-3	P1-4	P1-5	P1-6	P1-7	P-2	P-3-A	P-3-B	P-3-C	P-3-D	P-4	P-5	P-6	P-7	P-8	P-9	P-10	P-11
Sample Type	N/A	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Composite	Composite	Composite	Composite	Composite	Composite	Composite	Composite
Samplers	N/A	Shaw	Shaw	Shaw	Shaw	Shaw	Shaw	Shaw	CF	Ardaman	Ardaman	Ardaman	Ardaman	ECT	ECT	ECT	ECT	ECT	ECT	ECT	ECT
Laboratory	N/A	Thornton	Thornton	Thornton	Thornton	Thornton	Thornton	Thornton	FDEP	ENCO	Thornton	FDEP	Pembroke	FDEP	ENCO	ENCO	ENCO	ENCO	ENCO	ENCO	ENCO
Metals - Suspended and Dissolved																					
Aluminum	µg/L								9,010	7,900	6,300	8,210		8,350							
Antimony	µg/L								<14	<10	7	<7									
Arsenic	µg/L								478	480	470	450		440							
Barium	µg/L								25.2	<100	40	22.1		24.4							
Beryllium	µg/L								9.8	11.0	6.5	9.86		9.9							
Boron	µg/L																				
Cadmium	µg/L								60.6	64.0	37	59.7		61.2							
Chromium	µg/L								38	94	27	77		94.6							
Cobalt	µg/L																				
Copper	µg/L								<8.1	1.5	8.0	<6.9		9.8							
Iron	µg/L								9,420	5,000	3,700	4,780		5,620							
Lead	µg/L								<6.7	6.0	2.0	<5.0		<5.0							
Magnesium	mg/L								192	240	221	216		229							
Manganese	µg/L								2,520	2,500	1,900	2,730		2,820							
Mercury	µg/L								<0.1	<0.5	<0.2	<0.1									
Molybdenum	µg/L																				
Nickel	µg/L								357	360	250	339		346							
Potassium	mg/L								188	210				196							
Selenium	µg/L								<7.9	10	<5.0	3.9		10							
Silicon	mg/L																				
Silver	µg/L								<0.75	<0.5	0.50	<1.0		<1.5							
Sodium	mg/L								1,260	1,300				1,290							
Strontium	µg/L																				
Thallium	µg/L								<10	<5	2	<10									
Tin	µg/L																				
Titanium	µg/L																				
Vanadium	µg/L																				
Zinc	µg/L								693	620	490	619		638							
Dissolved Barium	mg/L																				
Dissolved Copper	mg/L																				
Dissolved Iron	mg/L																				
Dissolved Lead	mg/L																				
Dissolved Manganese	mg/L																				
Dissolved Nickel	mg/L																				
Dissolved Vanadium	mg/L																				
Dissolved Zinc	mg/L																				

TABLE 2
MASTER POND WATER QUALITY DATA SPREADSHEET

General Sample Information		Units																			
Date	N/A	08/09/01	08/09/01	08/09/01	08/09/01	08/09/01	08/09/01	08/09/01	01/18/02	02/15/02	02/15/02	02/15/02	02/15/02	05/22/02	05/23/02	05/28/02	05/29/02	05/30/02	05/30/02	06/05/02	6/6/02
Sample No.	N/A	P1-1	P1-2	P1-3	P1-4	P1-5	P1-6	P1-7	P-2	P-3-A	P-3-B	P-3-C	P-3-D	P-4	P-5	P-6	P-7	P-8	P-9	P-10	P-11
Sample Type	N/A	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Composite	Composite	Composite	Composite	Composite	Composite	Composite	Composite
Samplers	N/A	Shaw	Shaw	Shaw	Shaw	Shaw	Shaw	Shaw	CF	Ardaman	Ardaman	Ardaman	Ardaman	ECT	ECT	ECT	ECT	ECT	ECT	ECT	ECT
Laboratory	N/A	Thornton	Thornton	Thornton	Thornton	Thornton	Thornton	Thornton	FDEP	ENCO	Thornton	FDEP	Pembroke	FDEP	ENCO	ENCO	ENCO	ENCO	ENCO	ENCO	ENCO
Organic Compounds																					
Benzene	µg/L																				
Benzyl Alcohol	µg/L								<2.3	<10											
Bromodichloromethane	µg/L																				
Bromoform	µg/L																				
Bromomethane	µg/L																				
Carbon Tetrachloride	mg/L																				
Chlordane	mg/L																				
Chlorobenzene	mg/L																				
Chloroethane	µg/L																				
Chloroform	mg/L																				
Chloromethane	µg/L																				
2-Chlorovinyl Ether	µg/L																				
o-Cresol	mg/L																				
m-Cresol	mg/L																				
p-Cresol	mg/L																				
Cresol	mg/L																				
Cyanide	mg/L								<0.01	<0.01											
2-4-D	mg/L																				
Dibromochloromethane	µg/L																				
1,2-Dichlorobenzene	µg/L																				
1,3-Dichlorobenzene	µg/L																				
1,4-Dichlorobenzene	mg/L																				
1,2-Dichloroethane	mg/L																				
1,1-Dichloroethylene	mg/L																				
1,2-Dichloroethylene	µg/L																				
trans-1,2-Dichloroethene	µg/L																				
2,4-Dinitrotoluene	mg/L																				
1,2-Dichloropropane	µg/L																				
cis-1,3-Dichloropropene	µg/L																				
trans-1,3-Dichloropropene	µg/L																				
Endrin	mg/L																				
Ethylbenzene	µg/L																				
Heptachlor (and its epoxide)	mg/L																				
Hexachlorobenzene	mg/L																				
Hexachlorobutadiene	mg/L																				
Hexachloroethane	mg/L																				
Lindane	mg/L																				
Methoxychlor	mg/L																				
Methyl Ethyl Ketone	mg/L																				
Methylene blue active substances	mg/L								0.12	0.18											
Methylene chloride	µg/L																				
Nitrobenzene	mg/L																				
Pentachlorophenol	mg/L																				
Phenol	mg/L																				
Pyridine	µg/L								<1.1	<50											
Tetrachloroethylene	mg/L																				
Toluene	µg/L																				
Total Organic Carbon	mg/L								72	78				66	84	78	76	77	84	96	
Toxaphene	mg/L																				
1,1,2-Trichloroethane	µg/L																				
Trichloroethylene	mg/L																				
Trichlorofluoromethane	µg/L																				
2,4,5-Trichlorophenol	mg/L																				
2,4,6-Trichlorophenol	mg/L																				
2,4,5-TP (Silvex)	mg/L																				
Vinyl Chloride	mg/L																				

TABLE 2
MASTER POND WATER QUALITY DATA SPREADSHEET

General Sample Information	Units																				
Date	N/A	08/09/01	08/09/01	08/09/01	08/09/01	08/09/01	08/09/01	08/09/01	01/18/02	02/15/02	02/15/02	02/15/02	02/15/02	05/22/02	05/23/02	05/28/02	05/29/02	05/30/02	05/30/02	06/05/02	6/6/6/02
Sample No.	N/A	P1-1	P1-2	P1-3	P1-4	P1-5	P1-6	P1-7	P-2	P-3-A	P-3-B	P-3-C	P-3-D	P-4	P-5	P-6	P-7	P-8	P-9	P-10	P-11
Sample Type	N/A	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Composite	Composite	Composite	Composite	Composite	Composite	Composite	Composite
Samplers	N/A	Shaw	Shaw	Shaw	Shaw	Shaw	Shaw	Shaw	CF	Ardaman	Ardaman	Ardaman	Ardaman	ECT	ECT	ECT	ECT	ECT	ECT	ECT	ECT
Laboratory	N/A	Thornton	Thornton	Thornton	Thornton	Thornton	Thornton	Thornton	FDEP	ENCO	Thornton	FDEP	Pembroke	FDEP	ENCO	ENCO	ENCO	ENCO	ENCO	ENCO	ENCO
m,p-Xylene	µg/L																				
o-Xylene	µg/L																				

TABLE 2
MASTER POND WATER QUALITY DATA SPREADSHEET

General Sample Information		Units																
Date	N/A	08/23/02	08/23/02	08/23/02	08/23/02	08/23/02	08/23/02	08/23/02	08/23/02	09/04/02	10/03/02	10/31/02	11/07/02	12/05/02	08/08/03	08/08/03	08/08/03	
Sample No.	N/A	P-12 (shallow)	P-13 (deep)	P-14 (shallow)	P-15 (deep)	P-16	P-17	P-18	P-19	P-20/CF-1	CF-2	CF-3	CF-4	CF-5	Old North Gyp Stack	New South Gyp Stack	Cooling Pond Canal	
Sample Type	N/A	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	
Samplers	N/A	ECT	ECT	ECT	ECT	ECT	ECT	ECT	ECT	Shaw	Shaw	ECT	ECT	ECT	Shaw	Shaw	Shaw	
Laboratory	N/A	Benchmark	Benchmark	Benchmark	Benchmark	Benchmark	Benchmark	Benchmark	Benchmark	Thornton	Thornton	Thornton	Thornton	Thornton	US Bio	US Bio	US Bio	
Field Physio-Chemical Indicators																		
Dissolved Oxygen	mg/L	4.07	4.88	4.35	4.68	5.42	5.73	4.58	4.59			9.2	8.58	6.4	4.61	5.87	6.25	
pH	std. units	3.00	3.00	3.07	3.07	3.05	4.98	3.09	3.06		3.23	3.06	2.91	3.17	3.07	3.14	3.15	
Specific Conductance	µS/cm	12,299	12,163	11,461	11,416	11,523	10,095	12,025	11,685	9,290	9,150	9,450	8,900	5,030	9,730	10,064	9,820	
Temperature	°C	29.76	29.58	29.40	29.20	27.39	31.07	31.08	28.78		29.6	26.38	20.64	19.71	28.2	27.1	27.1	
Turbidity	NTU	5.6	5.82	6.02	4.38	6.97	70.00	12.9	14.50			18.4	17.5	17.5	20.2	6.42	10.6	
Nutrients																		
Ammonia Nitrogen	mg/L									598	542	602	648	591	490	520	500	
Nitrate Nitrogen	mg/L										0.33	0.36	0.36	0.35				
Nitrate + Nitrite	mg/L									0.38	0.33	0.36	0.36	0.35	<0.5	<0.5	<0.5	
Total Kjeldahl Nitrogen	mg/L																	
Total Nitrogen	mg/L																	
Oil and Grease	mg/L														<4.0	<4.0	<4.0	
Ortho-Phosphate	mg/L														1,200	1,300	1,200	
Total Phosphorus	mg/L														1,100	1,200	1,100	
Minerals - Suspended and Dissolved																		
Bromide	mg/L																	
Calcium	mg/L														520	590	440	
Chloride	mg/L									121	116	122	122	119	100	110	100	
Fluoride	mg/L									127	132	119	134	131	64	63	61	
Silica	mg/L									1.5	1.4	1.3	1.6	1.7				
Sulfate	mg/L									5,120	4,940	5,080	5,090	5,033	4,800	5,200	4,900	
Water Quality Indicators																		
Alkalinity	mg/L														<2.0	<2.0	<2.0	
Biological Oxygen Demand	mg/L																	
Calcium Hardness	mg/L														1,300	1,500	1,100	
Chemical Oxygen Demand	mg/L														140	140	140	
Chlorophyll A	mg/L	3.05	8.31	11.40	4.14	0.65	8.58	10.20	8.10						210	87	170	
Color	PCU																	
Magnesium Hardness	mg/L														700	780	700	
Total Hardness	mg/L														2,000	2,300	1,800	
Total Dissolved Solids	mg/L									12,900	12,520	12,030	13,080	14,500	11,000	10,000	11,000	
Total Suspended Solids	mg/L	6.56	23.00	13.40	11.60	12.40	80.00	21.50	20.00	35	75	25	23	23	19	23	53	
Radiological																		
Gross Alpha Radiation	pCi/L									111	198+/-47	142+/-41	200+/-54	193+/-60	38.4+/-16.6	37.8+/-13.8	48.6+/-10.6	
Gross Beta Radiation	pCi/L									345	423+/-53	340+/-50	367+/-50	358+/-93				
Radium 226	pCi/L									1.7	2.4+/-0.2	2.2+/-0.2	1.9+/-0.2	2.2+/-0.2	0.9+/-0.3	1.1+/-0.3	0.8+/-0.3	
Radium 228	pCi/L														<0.9+/-0.6	<0.9+/-0.6	<1.0+/-0.6	

TABLE 2
MASTER POND WATER QUALITY DATA SPREADSHEET

General Sample Information	Units																
Date	N/A	08/23/02	08/23/02	08/23/02	08/23/02	08/23/02	08/23/02	08/23/02	08/23/02	09/04/02	10/03/02	10/31/02	11/07/02	12/05/02	08/08/03	08/08/03	08/08/03
Sample No.	N/A	P-12 (shallow)	P-13 (deep)	P-14 (shallow)	P-15 (deep)	P-16	P-17	P-18	P-19	P-20/CF-1	CF-2	CF-3	CF-4	CF-5	Old North Gyp Stack	New South Gyp Stack	Cooling Pond Canal
Sample Type	N/A	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab
Samplers	N/A	ECT	ECT	ECT	ECT	ECT	ECT	ECT	ECT	Shaw	Shaw	ECT	ECT	ECT	Shaw	Shaw	Shaw
Laboratory	N/A	Benchmark	Benchmark	Benchmark	Benchmark	Benchmark	Benchmark	Benchmark	Benchmark	Thornton	Thornton	Thornton	Thornton	Thornton	US Bio	US Bio	US Bio
Metals - Suspended and Dissolved																	
Aluminum	µg/L										6,800	6,000	4,900	5,600	6,200	6,500	6,200
Antimony	µg/L										<80	<80	<80	<80	<80	<60	<60
Arsenic	µg/L										360	260	380	350	410	300	320
Barium	µg/L										100.00	100	90	40	140	<100	<100
Beryllium	µg/L										8	7	7	8	7	8.7	8.7
Boron	µg/L																
Cadmium	µg/L										45	43	41	53	49	<50	38
Chromium	µg/L										40	30	30	40	40	<50	<50
Cobalt	µg/L														<100	<100	<100
Copper	µg/L										<10	<10	<10	<10	<100	<100	<100
Iron	µg/L										5,600	6,300	5,200	6,300	6,700	1,400	1,500
Lead	µg/L										<20	<20	<20	<20	<20	<50	<50
Magnesium	mg/L															170	190
Manganese	µg/L										1,500	1,900	1,700	1,800	1,400	1,700	1,900
Mercury	µg/L											<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Molybdenum	µg/L																
Nickel	µg/L										250	210	210	230	210	240	250
Potassium	mg/L										181	162	168	158	171		
Selenium	µg/L										<50	<5	<5	<5	<5	<100	<100
Silicon	mg/L															54	69
Silver	µg/L										<10	<10	<10	<10	<100	<100	<100
Sodium	mg/L										1,110	1,120	1,240	1,230	1,220	920	1,000
Strontium	µg/L															6700	7500
Thallium	µg/L										270	200	<50	<40	<40	5.5	5
Tin	µg/L																
Titanium	µg/L																
Vanadium	µg/L															<100	<100
Zinc	µg/L										520	430	430	510	450	390	530
Dissolved Barium	mg/L															<0.1	<0.1
Dissolved Copper	mg/L															<0.1	<0.1
Dissolved Iron	mg/L															1.5	1.3
Dissolved Lead	mg/L															<0.05	<0.05
Dissolved Manganese	mg/L															1.8	1.8
Dissolved Nickel	mg/L															0.25	0.25
Dissolved Vanadium	mg/L															<0.1	<0.1
Dissolved Zinc	mg/L															0.44	0.4

TABLE 2
MASTER POND WATER QUALITY DATA SPREADSHEET

General Sample Information		Units															
Date	N/A	08/23/02	08/23/02	08/23/02	08/23/02	08/23/02	08/23/02	08/23/02	08/23/02	09/04/02	10/03/02	10/31/02	11/07/02	12/05/02	08/08/03	08/08/03	08/08/03
Sample No.	N/A	P-12 (shallow)	P-13 (deep)	P-14 (shallow)	P-15 (deep)	P-16	P-17	P-18	P-19	P-20/CF-1	CF-2	CF-3	CF-4	CF-5	Old North Gyp Stack	New South Gyp Stack	Cooling Pond Canal
Sample Type	N/A	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab
Samplers	N/A	ECT	ECT	ECT	ECT	ECT	ECT	ECT	ECT	Shaw	Shaw	ECT	ECT	ECT	Shaw	Shaw	Shaw
Laboratory	N/A	Benchmark	Benchmark	Benchmark	Benchmark	Benchmark	Benchmark	Benchmark	Benchmark	Thornton	Thornton	Thornton	Thornton	Thornton	US Bio	US Bio	US Bio
Organic Compounds																	
Benzene	µg/L									<50	N/A	N/A	N/A	N/A			
Benzyl Alcohol	µg/L																
Bromodichloromethane	µg/L																
Bromoforn	µg/L																
Bromomethane	µg/L																
Carbon Tetrachloride	mg/L									<0.050	N/A	N/A	N/A	N/A			
Chlordane	mg/L									<0.003	N/A	N/A	N/A	N/A			
Chlorobenzene	mg/L									<10	N/A	N/A	N/A	N/A			
Chloroethane	µg/L																
Chloroform	mg/L									<0.600	N/A	N/A	N/A	N/A			
Chloromethane	µg/L																
2-Chlorovinyl Ether	µg/L																
o-Cresol	mg/L									<20	N/A	N/A	N/A	N/A			
m-Cresol	mg/L									<20	N/A	N/A	N/A	N/A			
p-Cresol	mg/L									<20	N/A	N/A	N/A	N/A			
Cresol	mg/L									<20	N/A	N/A	N/A	N/A			
Cyanide	mg/L									<0.2	<0.03	<0.03	<0.03	<0.03	<0.005	<0.005	<0.05
2,4-D	mg/L									<1							
Dibromochloromethane	µg/L																
1,2-Dichlorobenzene	µg/L																
1,3-Dichlorobenzene	µg/L																
1,4-Dichlorobenzene	mg/L									<0.75	N/A	N/A	N/A	N/A			
1,2-Dichloroethane	mg/L									<0.05							
1,1-Dichloroethylene	mg/L									<0.07							
1,2-Dichloroethylene	µg/L																
trans-1,2-Dichloroethene	µg/L																
2,4-Dinitrotoluene	mg/L									<0.100							
1,2-Dichloropropane	µg/L																
cis-1,3-Dichloropropene	µg/L																
trans-1,3-Dichloropropene	µg/L																
Endrin	mg/L									<0.002							
Ethylbenzene	µg/L																
Heptachlor (and its epoxide)	mg/L									<0.0008							
Hexachlorobenzene	mg/L									<0.100							
Hexachlorobutadiene	mg/L									<0.050							
Hexachloroethane	mg/L									<0.300							
Lindane	mg/L									<0.040							
Methoxychlor	mg/L									<1.00							
Methyl Ethyl Ketone	mg/L									<20							
Methylene blue active substances	mg/L														0.17	0.17	0.22
Methylene chloride	µg/L																
Nitrobenzene	mg/L									<0.200							
Pentachlorophenol	mg/L									<10.0							
Phenol	mg/L														<0.01	<0.01	<0.01
Pyridine	µg/L									<0.500							
Tetrachloroethylene	mg/L									<0.070							
Toluene	µg/L																
Total Organic Carbon	mg/L									62	52	54	55	58			
Toxaphene	mg/L									<0.050							
1,1,2-Trichloroethane	µg/L																
Trichloroethylene	mg/L									<0.050							
Trichlorofluoromethane	µg/L																
2,4,5-Trichlorophenol	mg/L									<40							
2,4,6-Trichlorophenol	mg/L									<0.200							
2,4,5-TP (Silvex)	mg/L									<0.100							
Vinyl Chloride	mg/L									<0.020							

TABLE 2
MASTER POND WATER QUALITY DATA SPREADSHEET

General Sample Information	Units																
Date	N/A	08/23/02	08/23/02	08/23/02	08/23/02	08/23/02	08/23/02	08/23/02	08/23/02	09/04/02	10/03/02	10/31/02	11/07/02	12/05/02	08/08/03	08/08/03	08/08/03
Sample No.	N/A	P-12 (shallow)	P-13 (deep)	P-14 (shallow)	P-15 (deep)	P-16	P-17	P-18	P-19	P-20/CF-1	CF-2	CF-3	CF-4	CF-5	Old North Gyp Stack	New South Gyp Stack	Cooling Pond Canal
Sample Type	N/A	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab
Samplers	N/A	ECT	ECT	ECT	ECT	ECT	ECT	ECT	ECT	Shaw	Shaw	ECT	ECT	ECT	Shaw	Shaw	Shaw
Laboratory	N/A	Benchmark	Benchmark	Benchmark	Benchmark	Benchmark	Benchmark	Benchmark	Benchmark	Thornton	Thornton	Thornton	Thornton	Thornton	US Bio	US Bio	US Bio
m,p-Xylene	µg/L																
o-Xylene	µg/L																

TABLE 3
MASTER SINGLE LIME WATER QUALITY SPREADSHEET

General Sample Information		Units	10/24/01	10/29/01	10/31/02	11/02/01	11/05/01	11/07/01	11/09/01	11/12/01
Date	N/A	N/A	S-1	S-2	S-3	S-4	S-5	S-6	S-7	S-8
Sample No.	N/A	N/A	Composite	Composite	Composite	Composite	Composite	Composite	Composite	Composite
Sample Type	N/A	N/A	ECT	ECT	ECT	ECT	ECT	ECT	Shaw	Shaw
Samplers	N/A	N/A	PPB	Benchmark	Benchmark	Benchmark	Benchmark	Benchmark	Pembroke	Pembroke
Laboratory	N/A	N/A								
Field Physio-Chemical Indicators										
Dissolved Oxygen	mg/L	1.6	1.0	1.7	4.8	2.3	3.9	6.9	5.0	
pH	std. units	5.90	5.86	5.81	5.90	5.61	5.70	5.69	5.76	
Specific Conductance	µS/cm	3,396	4,390	4,200	3,300	7,050	7,836	8,120	8,710	
Temperature	°C	24.7	17.9	20.9	21.6	21.8	22.1	21.4	21.4	
Turbidity	NTU									
Nutrients										
Ammonia Nitrogen	mg/L	171			183	199	206			
Nitrate Nitrogen	mg/L									
Nitrate + Nitrite	mg/L	<0.004	<0.01	0.07	0.01	0.02	0.01	<0.05	0.06	
Total Kjeldahl Nitrogen	mg/L	160	217	334	267	366	397	442	501	
Total Nitrogen	mg/L	171	217	334	267	366	397	442	501	
Ortho-Phosphate	mg/L									
Total Phosphorus	mg/L	116	401	284			492			
Minerals - Suspended and Dissolved										
Bromide	mg/L									
Calcium	mg/L									
Chloride	mg/L									
Fluoride	mg/L	8.2		18.9			27.2			
Silica	mg/L									
Sulfate	mg/L									
Sulfite	mg/L									
Water Quality Indicators										
Alkalinity	mg/L									
Biological Oxygen Demand	mg/L									
Chemical Oxygen Demand	mg/L									
Color	PCU									
Total Dissolved Solids	mg/L									
Total Suspended Solids	mg/L									
Radiological										
Gross Alpha Radiation	pCi/L									
Gross Beta Radiation	pCi/L									
Radium 226	pCi/L									
Radium 228	pCi/L									
Uranium	pCi/L									
Metals - Suspended and Dissolved										
Aluminum	µg/L									
Antimony	µg/L									
Arsenic	µg/L									
Barium	µg/L									
Beryllium	µg/L									
Boron	µg/L									
Cadmium	µg/L									
Chromium	µg/L									
Cobalt	µg/L									
Copper	µg/L									
Iron	µg/L									
Lead	µg/L									
Magnesium	mg/L									
Manganese	µg/L									
Mercury	µg/L									
Molybdenum	µg/L									
Nickel	µg/L									
Potassium	mg/L									
Selenium	µg/L									
Silver	µg/L									
Sodium	mg/L									
Strontium	µg/L									
Thallium	µg/L									
Tin	µg/L									
Titanium	µg/L									
Vanadium	µg/L									
Zinc	µg/L									

TABLE 3
MASTER SINGLE LIME WATER QUALITY SPREADSHEET

General Sample Information		Units								
Date	N/A	N/A	10/24/01	10/29/01	10/31/02	11/02/01	11/05/01	11/07/01	11/09/01	11/12/01
Sample No.	N/A	N/A	S-1	S-2	S-3	S-4	S-5	S-6	S-7	S-8
Sample Type	N/A	N/A	Composite	Composite	Composite	Composite	Composite	Composite	Composite	Composite
Samplers	N/A	N/A	ECT	ECT	ECT	ECT	ECT	ECT	Shaw	Shaw
Laboratory	N/A	N/A	PPB	Benchmark	Benchmark	Benchmark	Benchmark	Benchmark	Pembroke	Pembroke
Organic Compounds										
Benzene	µg/L									
Benzyl Alcohol	µg/L									
Bromodichloromethane	µg/L									
Bromofom	µg/L									
Bromomethane	µg/L									
Carbon Tetrachloride	µg/L									
Chlordane	µg/L									
Chlorobenzene	µg/L									
Chloroethane	µg/L									
Chloroform	µg/L									
Chloromethane	µg/L									
2-Chlorovinyl Ether	µg/L									
o-Cresol	µg/L									
m-Cresol	µg/L									
p-Cresol	µg/L									
Cresol	µg/L									
Cyanide	µg/L									
2-4-D	µg/L									
Dibromochloromethane	µg/L									
1,2-Dichlorobenzene	µg/L									
1,3-Dichlorobenzene	µg/L									
1,4-Dichlorobenzene	µg/L									
1,2-Dichloroethane	µg/L									
1,1-Dichloroethylene	µg/L									
1,2-Dichloroethylene	µg/L									
trans-1,2-Dichloroethene	µg/L									
2,4-Dinitrotoluene	µg/L									
1,2-Dichloropropane	µg/L									
cis-1,3-Dichloropropene	µg/L									
trans-1,3-Dichloropropene	µg/L									
Endrin	µg/L									
Ethylbenzene	µg/L									
Heptachlor (and its epoxide)	µg/L									
Hexachlorobenzene	µg/L									
Hexchlorobutadiene	µg/L									
Hexachloroethane	µg/L									
Lindane	µg/L									
Methoxychlor	µg/L									
Methyl Ethyl Ketone	µg/L									
Methylene blue active substances	µg/L									
Methylene chloride	µg/L									
Nitrobenzene	µg/L									
Pentachlorophenol	µg/L									
Phenol	µg/L									
Pyridine	µg/L									
Tetrachloroethylene	µg/L									
Toluene	µg/L									
Total Organic Carbon	mg/L									
Toxaphene	µg/L									
1,1,2-Trichloroethane	µg/L									
Trichloroethylene	µg/L									
Trichlorofluoromethane	µg/L									
2,4,5-Trichlorophenol	µg/L									
2,4,6-Trichlorophenol	µg/L									
2,4,5-TP (Silvex)	µg/L									
Vinyl Chloride	µg/L									
m,p-Xylene	µg/L									
o-Xylene	µg/L									

TABLE 3
MASTER SINGLE LIME WATER QUALITY SPREADSHEET

General Sample Information		Units	11/14/01	11/15/01	11/19/01	11/13/01	11/15/01	01/18/02	01/18/02
Date	N/A		S-9	S-10	S-11	S-12	S-13	S-14	S-15
Sample No.	N/A		Composite	Composite	Composite	Composite	Composite	Grab	Grab
Sample Type	N/A		Shaw	Shaw	Shaw	ECT	ECT	CF	CF
Samplers	N/A		Pembroke	Pembroke	Pembroke	ENCO	ENCO	FDEP	FDEP
Laboratory	N/A								
Field Physio-Chemical Indicators									
Dissolved Oxygen	mg/L		5.3	2.8	4.6				
pH	std. units		5.58	5.52	5.72	5.0	4.5	4.54	7.0
Specific Conductance	µS/cm		8,810	8,860	8,460				
Temperature	°C		21.4	20.6	22.4				
Turbidity	NTU							5.5	3.9
Nutrients									
Ammonia Nitrogen	mg/L		505			600	620	640	560
Nitrate Nitrogen	mg/L							0.52	0.52
Nitrate + Nitrite	mg/L			0.06	<0.05	1.2	1.0	0.66	0.56
Total Kjeldahl Nitrogen	mg/L			526	512	610	580	710	620
Total Nitrogen	mg/L		523	526	512	611	621	711	621
Ortho-Phosphate	mg/L							1,500	180
Total Phosphorus	mg/L		610			1,200	1,700	1,500	170
Minerals - Suspended and Dissolved									
Bromide	mg/L					<2.5	<2.5		
Calcium	mg/L							702	121
Chloride	mg/L					100	99	110	110
Fluoride	mg/L		51.4			39	53	76	33
Silica	mg/L							230	220
Sulfate	mg/L					4,600	4,000	4,600	4,600
Sulfite	mg/L					<0.10	<0.10		
Water Quality Indicators									
Alkalinity	mg/L							1.0	195
Biological Oxygen Demand	mg/L					18	27		
Chemical Oxygen Demand	mg/L					210	240		
Color	PCU					60	60	50	60
Total Dissolved Solids	mg/L					10,000	10,000	10,700	6,750
Total Suspended Solids	mg/L					150	68	20	30
Radiological									
Gross Alpha Radiation	pCi/L					16.2			
Gross Beta Radiation	pCi/L								
Radium 226	pCi/L					1.2			
Radium 228	pCi/L					<1.2			
Uranium	pCi/L					2.6			
Metals - Suspended and Dissolved									
Aluminum	µg/L					360	100	933	52
Antimony	µg/L					<5	<5	12	7
Arsenic	µg/L					490	430	465	416
Barium	µg/L					<100	<100	7	3
Beryllium	µg/L					4.5	5.4	5.63	0.15
Boron	µg/L					890	800		
Cadmium	µg/L					42	44	52.4	0.84
Chromium	µg/L					70	67	13.3	1.0
Cobalt	µg/L					90	85		
Copper	µg/L					3.1	3.4	14	14
Iron	µg/L					2,100	2,000	393	20
Lead	µg/L					<5	<5	5	5
Magnesium	mg/L					270	290	198	92.7
Manganese	µg/L					2,400	2,300	2,480	187
Mercury	µg/L					<0.5	<0.5	0.10	0.10
Molybdenum	µg/L					20	21		
Nickel	µg/L					340	300	354	66.9
Potassium	mg/L					190	130	182	188
Selenium	µg/L					<10	<10	7.1	4
Silver	µg/L					<0.5	<0.5	0.75	0.75
Sodium	mg/L					1,100	1,300	1,220	1,260
Strontium	µg/L					7,200	6,200		
Thallium	µg/L					<2	<2	10	10
Tin	µg/L					<100	<100		
Titanium	µg/L					9.5	8.1		
Vanadium	µg/L					41	39		
Zinc	µg/L					230	400	543	9.5

TABLE 3
MASTER SINGLE LIME WATER QUALITY SPREADSHEET

General Sample Information		Units	11/14/01	11/15/01	11/19/01	11/13/01	11/15/01	01/18/02	01/18/02
Date	N/A		S-9	S-10	S-11	S-12	S-13	S-14	S-15
Sample No.	N/A		Composite	Composite	Composite	Composite	Composite	Grab	Grab
Sample Type	N/A		Shaw	Shaw	Shaw	ECT	ECT	CF	CF
Samplers	N/A		Pembroke	Pembroke	Pembroke	ENCO	ENCO	FDEP	FDEP
Laboratory	N/A								
Organic Compounds									
Benzene	µg/L							0.5	0.5
Benzyl Alcohol	µg/L					<10		0.95	0.96
Bromodichloromethane	µg/L							0.2	0.2
Bromoform	µg/L							0.2	0.2
Bromomethane	µg/L							0.5	0.5
Carbon Tetrachloride	µg/L							0.2	0.2
Chlordane	µg/L								
Chlorobenzene	µg/L							0.2	0.2
Chloroethane	µg/L							0.5	0.5
Chloroform	µg/L							0.2	0.2
Chloromethane	µg/L							0.5	0.5
2-Chlorovinyl Ether	µg/L							0.5	0.5
o-Cresol	µg/L								
m-Cresol	µg/L								
p-Cresol	µg/L								
Cresol	µg/L								
Cyanide	µg/L					<10		10	10
2,4-D	µg/L								
Dibromochloromethane	µg/L					<1		0.2	0.2
1,2-Dichlorobenzene	µg/L					<1		0.2	0.2
1,3-Dichlorobenzene	µg/L					<1		0.2	0.2
1,4-Dichlorobenzene	µg/L					<1		0.2	0.2
1,2-Dichloroethane	µg/L					<1		0.2	0.2
1,1-Dichloroethylene	µg/L					<1		0.2	0.2
1,2-Dichloroethylene	µg/L								
trans-1,2-Dichloroethene	µg/L								
2,4-Dinitrotoluene	µg/L					<1		0.2	0.2
1,2-Dichloropropane	µg/L								
cis-1,3-Dichloropropene	µg/L					<1		0.2	0.2
trans-1,3-Dichloropropene	µg/L								
Endrin	µg/L					<1		0.2	0.2
Ethylbenzene	µg/L							0.2	0.2
Heptachlor (and its epoxide)	µg/L					<1		0.2	0.2
Hexachlorobenzene	µg/L								
Hexachlorobutadiene	µg/L					<1		0.5	0.5
Hexachloroethane	µg/L								
Lindane	µg/L								
Methoxychlor	µg/L								
Methyl Ethyl Ketone	µg/L								
Methylene blue active substances	µg/L								
Methylene chloride	µg/L					<5		0.5	0.5
Nitrobenzene	µg/L								
Pentachlorophenol	µg/L								
Phenol	µg/L								
Pyridine	µg/L					<50		0.95	0.96
Tetrachloroethylene	µg/L					<1		0.2	0.2
Toluene	µg/L					<1		0.5	0.5
Total Organic Carbon	mg/L							65	50
Toxaphene	µg/L								
1,1,2-Trichloroethane	µg/L					<1		0.2	0.2
Trichloroethylene	µg/L					<1		0.2	0.2
Trichlorofluoromethane	µg/L					<1		0.2	0.2
2,4,5-Trichlorophenol	µg/L								
2,4,6-Trichlorophenol	µg/L								
2,4,5-TP (Silvex)	µg/L								
Vinyl Chloride	µg/L					<1		0.5	0.5
m,p-Xylene	µg/L					<2		0.5	0.5
o-Xylene	µg/L					<1		0.5	0.5

TABLE 3
MASTER SINGLE LIME WATER QUALITY SPREADSHEET

General Sample Information		Units	02/15/02	02/15/02	02/15/02	02/15/02	02/15/02	02/15/02	02/15/02	02/15/02
Date	N/A		S-16A	S-16B	S-16C	S-16D	S-17A	S-17B	S-17C	S-17D
Sample No.	N/A		Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab
Sample Type	N/A		Ardaman	Ardaman	Ardaman	Ardaman	Ardaman	Ardaman	Ardaman	Ardaman
Samplers	N/A		ENCO	Thomton	FDEP	Pembroke	ENCO	Thomton	FDEP	Pembroke
Laboratory	N/A									
Field Physio-Chemical Indicators										
Dissolved Oxygen	mg/L									
pH	std. units	4.4	4.4	4.4	4.4	7.2	7.2	7.2	7.2	7.2
Specific Conductance	µS/cm	8,800	8,800	8,800	8,800	8,390	8,390	8,390	8,390	8,390
Temperature	°C									
Turbidity	NTU	7.0	5.6	6.6		4.0	3.9	2.4		
Nutrients										
Ammonia Nitrogen	mg/L	570			620	550				574
Nitrate Nitrogen	mg/L	0.22				0.35				
Nitrate + Nitrite	mg/L	0.22				0.35				
Total Kjeldahl Nitrogen	mg/L	570			625	600				598
Total Nitrogen	mg/L	570			625	600				598
Ortho-Phosphate	mg/L	1,600			1,458	240				274
Total Phosphorus	mg/L	1,400			1,481	220				280
Minerals - Suspended and Dissolved										
Bromide	mg/L									
Calcium	mg/L	730				93				
Chloride	mg/L	120				120				
Fluoride	mg/L	23			19.6	32				27.5
Silica	mg/L	208				374				
Sulfate	mg/L	4,800				3,900				
Sulfite	mg/L									
Water Quality Indicators										
Alkalinity	mg/L	<2				290				
Biological Oxygen Demand	mg/L									
Chemical Oxygen Demand	mg/L									
Color	PCU	60				65				
Total Dissolved Solids	mg/L	8,950				5,700				
Total Suspended Solids	mg/L	68				44				
Radiological										
Gross Alpha Radiation	pCi/L		27.7				14.6			
Gross Beta Radiation	pCi/L									
Radium 226	pCi/L		1.8				1.6			
Radium 228	pCi/L		0.3				0.2			
Uranium	pCi/L									
Metals - Suspended and Dissolved										
Aluminum	µg/L	90	<100	<75		160	<100	<75		
Antimony	µg/L	<10	3	<7		<5	<3	7.7		
Arsenic	µg/L	460	420	410		340	370	340		
Barium	µg/L	<100	<30	9.2		<100	<30	<1		
Beryllium	µg/L	11	<0.25	2.97		<1	<0.25	<0.15		
Boron	µg/L									
Cadmium	µg/L	54	35	52.3		1	0.2	<0.5		
Chromium	µg/L	60	28	56.5		16	5	56.5		
Cobalt	µg/L									
Copper	µg/L	7.9	17	19		4.5	17	12		
Iron	µg/L	455	38	<35	320	400	36	<35		270
Lead	µg/L	<5	<1	<5		<5	<1	<5		
Magnesium	mg/L	260	227	215		160	148	145		
Manganese	µg/L	2,600	1,900	2,540		52	36	53.6		
Mercury	µg/L	<0.5	<0.2	<0.1		<0.5	<0.2	<0.1		
Molybdenum	µg/L									
Nickel	µg/L	330	240	318		140	98	139		
Potassium	mg/L	210				200				
Selenium	µg/L	10	<5	7.3		<10	<5	4.4		
Silver	µg/L	<0.5	0.5	<1		0.53	0.43	<1		
Sodium	mg/L	1,300				1,300				
Strontium	µg/L									
Thallium	µg/L	<2	3	<10		7	<1	<10		
Tin	µg/L									
Titanium	µg/L									
Vanadium	µg/L									
Zinc	µg/L	410	36	383		<100	27	<2		

TABLE 3
MASTER SINGLE LIME WATER QUALITY SPREADSHEET

General Sample Information		Units	02/15/02	02/15/02	02/15/02	02/15/02	02/15/02	02/15/02	02/15/02	02/15/02
Date	N/A		S-16A	S-16B	S-16C	S-16D	S-17A	S-17B	S-17C	S-17D
Sample No.	N/A		Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab
Sample Type	N/A		Ardaman	Ardaman	Ardaman	Ardaman	Ardaman	Ardaman	Ardaman	Ardaman
Samplers	N/A		ENCO	Thomton	FDEP	Pembroke	ENCO	Thomton	FDEP	Pembroke
Laboratory	N/A									
Organic Compounds										
Benzene	µg/L									
Benzyl Alcohol	µg/L	<10					<10			
Bromodichloromethane	µg/L									
Bromoform	µg/L									
Bromomethane	µg/L									
Carbon Tetrachloride	µg/L									
Chlordane	µg/L									
Chlorobenzene	µg/L									
Chloroethane	µg/L									
Chloroform	µg/L									
Chloromethane	µg/L									
2-Chlorovinyl Ether	µg/L									
o-Cresol	µg/L									
m-Cresol	µg/L									
p-Cresol	µg/L									
Cresol	µg/L									
Cyanide	µg/L	<10					<10			
2,4-D	µg/L									
Dibromochloromethane	µg/L									
1,2-Dichlorobenzene	µg/L									
1,3-Dichlorobenzene	µg/L									
1,4-Dichlorobenzene	µg/L									
1,2-Dichloroethane	µg/L									
1,1-Dichloroethylene	µg/L									
1,2-Dichloroethylene	µg/L									
trans-1,2-Dichloroethene	µg/L									
2,4-Dinitrotoluene	µg/L									
1,2-Dichloropropane	µg/L									
cis-1,3-Dichloropropene	µg/L									
trans-1,3-Dichloropropene	µg/L									
Endrin	µg/L									
Ethylbenzene	µg/L									
Heptachlor (and its epoxide)	µg/L									
Hexachlorobenzene	µg/L									
Hexachlorobutadiene	µg/L									
Hexachloroethane	µg/L									
Lindane	µg/L									
Methoxychlor	µg/L									
Methyl Ethyl Ketone	µg/L									
Methylene blue active substances	µg/L	0.11					0.19			
Methylene chloride	µg/L									
Nitrobenzene	µg/L									
Pentachlorophenol	µg/L									
Phenol	µg/L									
Pyridine	µg/L	<50					<50			
Tetrachloroethylene	µg/L									
Toluene	µg/L									
Total Organic Carbon	mg/L	63					57			
Toxaphene	µg/L									
1,1,2-Trichloroethane	µg/L									
Trichloroethylene	µg/L									
Trichlorofluoromethane	µg/L									
2,4,5-Trichlorophenol	µg/L									
2,4,6-Trichlorophenol	µg/L									
2,4,5-TP (Silvex)	µg/L									
Vinyl Chloride	µg/L									
m,p-Xylene	µg/L									
o-Xylene	µg/L									

TABLE 4
MASTER DOUBLE LIME WATER QUALITY SPREADSHEET

General Sample Information		Units	02/15/02	02/15/02	02/15/02	02/15/02	02/15/02	02/15/02	02/15/02	02/15/02	02/15/02	02/15/02	02/15/02	02/15/02	05/04/02
Date	N/A		D-6A	D-6B	D-6C	D-6D	D-7A	D-7B	D-7C	D-7D	D-8A	D-8B	D-8C	D-8D	D-9
Sample No.	N/A		Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab
Sample Type	N/A		CF	Ardaman	Ardaman	Ardaman	Ardaman	Ardaman	Ardaman	Ardaman	Ardaman	Ardaman	Ardaman	Ardaman	ECT
Samplers	N/A		ENCO	Thornton	FDEP	Pembroke	ENCO	Thornton	FDEP	Pembroke	ENCO	Thornton	FDEP	Pembroke	Benchmark
Laboratory	N/A														
Field Physio-Chemical Indicators															
Dissolved Oxygen	mg/L														
pH	std. units		7.2				9.1				6.7				10.02
Specific Conductance	µS/cm		6,900				7,400				6,300				6,770
Temperature	°C														
Turbidity	NTU		6	6.8	2.8		3.0	3.5	0.45		4	3.7	2.2		
Nutrients															
Ammonia Nitrogen	mg/L		470			528	470			497	280			312	22.8
Nitrate Nitrogen	mg/L		0.36				0.52				0.40				
Nitrate + Nitrite	mg/L		0.36				0.52				0.40				
Oil and Grease	mg/L														
Total Kjeldahl Nitrogen	mg/L		480			534	710			504	270			338	
Total Nitrogen	mg/L		480			534	710			504	270			338	
Ortho-Phosphate	mg/L		39				4.8				0.47				
Total Phosphorus	mg/L		70				4.8				1.3				
Minerals - Suspended and Dissolved															
Bromide	mg/L														
Calcium	mg/L		140				200				430				
Chloride	mg/L		110				120				48				
Fluoride	mg/L		18			16.2	2.3			1.25	1.3			0.91	
Silica	mg/L		212				328				5.5				
Sulfate	mg/L		4,400				4,100				4,300				4,017
Sulfite	mg/L														
Sulfide	mg/L														
Water Quality Indicators															
Acidity	mg/L														
Fecal Coliform	#/100ml														
Total Residual Chlorine	mg/L														
Alkalinity	mg/L		150				410				18				
Biological Oxygen Demand	mg/L														
Carbonaceous BOD	mg/L														
Chemical Oxygen Demand	mg/L														
Color	PCU		55				45				20				
Total Dissolved Solids	mg/L		5,800				5,200				4,700				5,924
Total Hardness	mg/L														
Total Suspended Solids	mg/L		62				26				28				
Radiological															
Gross Alpha Radiation	pCi/L			15.7				13.4				14.6			
Gross Beta Radiation	pCi/L														
Radium 226	pCi/L			0.7				1.3				0.9			
Radium 228	pCi/L			0.2				0.1				0.2			
Uranium	pCi/L														
Metals - Suspended and Dissolved															
Aluminum	µg/L		90	<100	<75		150	<200	<75		120	<100		80	
Antimony	µg/L		<5	5	<7		<5	6	<7		<5	6		<7	
Arsenic	µg/L		380	370	354		47	51	58		<10	<5		6.7	
Barium	µg/L		<100	40	7.2		<100	<60	<1		<100	40		4.1	
Beryllium	µg/L		<1	<0.25	<0.15		<1	<0.25	<0.15		<1	<0.25		<0.15	
Boron	µg/L														
Cadmium	µg/L		1	1.3	1.3		2.2	0.1	<0.5		<1	0.1		<0.5	
Chromium	µg/L		<10	7	5.9		<10	4	<5		<10	8		4.5	
Cobalt	µg/L														
Copper	µg/L		15	45	22		11	34	21		35	68		44	
Iron	µg/L		315	30	<35	240	220	20	<35	210	150	150		130	
Lead	µg/L		<5	<1	<5		<5	<1	<5		<5	<1		<5	
Magnesium	mg/L		84	82	82.8		36	39	38.7		7.5	7.2		7.6	
Manganese	µg/L		240	150	235		<10	<10	<3.4		<10	<0.2		<0.5	
Mercury	µg/L		<0.5	<0.2	<0.1		<0.5	<0.2	<0.1		<0.5	<5		<0.1	
Molybdenum	µg/L														
Nickel	µg/L		52	33	53.3		68	50	65.4		50	42		52.3	
Potassium	mg/L		200				190				200				
Selenium	µg/L		<10	<5	4.4		<10	<5	3.9		<10	<5		4.1	
Silver	µg/L		0.52	0.5	<1		<0.5	0.24	<1		0.76	0.7		<1	
Sodium	mg/L		1,300				1,200				1,300				1,082
Strontium	µg/L														
Thallium	µg/L		4	<1	<10		6	3	<10		<2	<1		<10	
Tin	µg/L														
Titanium	µg/L														
Vanadium	µg/L														
Zinc	µg/L		<100	23	<17		<100	20	<2		<100	20		<17	

TABLE 4
MASTER DOUBLE LIME WATER QUALITY SPREADSHEET

General Sample Information		Units	02/15/02	02/15/02	02/15/02	02/15/02	02/15/02	02/15/02	02/15/02	02/15/02	02/15/02	02/15/02	02/15/02	02/15/02	05/04/02
Date	N/A		D-6A	D-6B	D-6C	D-6D	D-7A	D-7B	D-7C	D-7D	D-8A	D-8B	D-8C	D-8D	D-9
Sample No.	N/A		Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab
Sample Type	N/A		CF	Ardaman	Ardaman	Ardaman	Ardaman	Ardaman	Ardaman	Ardaman	Ardaman	Ardaman	Ardaman	Ardaman	ECT
Samplers	N/A		ENCO	Thornton	FDEP	Pembroke	ENCO	Thornton	FDEP	Pembroke	ENCO	Thornton	FDEP	Pembroke	Benchmark
Laboratory	N/A														
Organic Compounds															
Benzene	µg/L														
Benzyl Alcohol	µg/L	<10					<10					<10			
Bromodichloromethane	µg/L														
Bromoform	µg/L														
Bromomethane	µg/L														
Carbon Tetrachloride	µg/L														
Chlordane	µg/L														
Chlorobenzene	µg/L														
Chloroethane	µg/L														
Chloroform	µg/L														
Chloromethane	µg/L														
2-Chlorovinyl Ether	µg/L														
o-Cresol	µg/L														
m-Cresol	µg/L														
p-Cresol	µg/L														
Cresol	µg/L														
Cyanide	µg/L	<10					<10					<10			
2-4-D	µg/L														
Dibromochloromethane	µg/L														
1,2-Dichlorobenzene	µg/L														
1,3-Dichlorobenzene	µg/L														
1,4-Dichlorobenzene	µg/L														
1,2-Dichloroethane	µg/L														
1,1-Dichloroethylene	µg/L														
1,2-Dichloroethylene	µg/L														
trans-1,2-Dichloroethene	µg/L														
2,4-Dinitrotoluene	µg/L														
1,2-Dichloropropane	µg/L														
cis-1,3-Dichloropropene	µg/L														
trans-1,3-Dichloropropene	µg/L														
Endrin	µg/L														
Ethylbenzene	µg/L														
Heptachlor (and its epoxide)	µg/L														
Hexachlorobenzene	µg/L														
Hexachlorobutadiene	µg/L														
Hexachloroethane	µg/L														
Lindane	µg/L														
Methoxychlor	µg/L														
Methyl Ethyl Ketone	µg/L														
Methylene blue active substances	mg/L			0.06			0.02					0.03			
Methylene chloride	µg/L														
Nitrobenzene	µg/L														
Pentachlorophenol	µg/L														
Phenol	µg/L														
Pyridine	µg/L	<50					<50					<50			
Tetrachloroethylene	µg/L														
Toluene	µg/L														
Total Organic Carbon	mg/L			60			45					35			
Toxaphene	µg/L														
1,1,2-Trichloroethane	µg/L														
Trichloroethylene	µg/L														
Trichlorofluoromethane	µg/L														
2,4,5-Trichlorophenol	µg/L														
2,4,6-Trichlorophenol	µg/L														
2,4,5-TP (Silvex)	µg/L														
Vinyl Chloride	µg/L														
m,p-Xylene	µg/L														
o-Xylene	µg/L														

TABLE 4
MASTER DOUBLE LIME WATER QUALITY SPREADSHEET

General Sample Information		Units	05/09/02	11/25/02	12/02/02	12/09/02	02/26/03	02/27/03	02/28/03	03/04/03	03/05/03	03/06/03	03/07/03	03/08/03	03/09/03
Date	N/A														
Sample No.	N/A														
Sample Type	N/A														
Samplers	N/A														
Laboratory	N/A														
Field Physio-Chemical Indicators															
Dissolved Oxygen	mg/L								6.25			5.15			
pH	std. units		10.00	10.88	9.62	8.38			7.16			7.01			
Specific Conductance	µS/cm		6,100	5,500	5,600	5,500			6,500			5,620			
Temperature	°C								21.4			24.2			
Turbidity	NTU		7.0						5.47			3.74			
Nutrients															
Ammonia Nitrogen	mg/L		3.3	9.7	12	17	13	15	13	18	17	17	18	18	16
Nitrate Nitrogen	mg/L		0.14												
Nitrate + Nitrite	mg/L		0.80	1.6	1.2	1.3	1.70	<0.5	1.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Oil and Grease	mg/L			<2.0	<2.0	<2.0			<4.1			19			
Total Kjeldahl Nitrogen	mg/L		5.6				21	16	13	18	18	18	17	18	17
Total Nitrogen	mg/L		6.4				22.7	16	14.7	18	18	18	17	18	17
Ortho-Phosphate	mg/L		<0.04	<0.25	<0.25	<0.25			<0.25			<0.25			
Total Phosphorus	mg/L		0.11	0.17	0.19	0.25						0.32			
Minerals - Suspended and Dissolved															
Bromide	mg/L								<0.5			<0.5			
Calcium	mg/L		550	730	140	630			660			640			
Chloride	mg/L		120	84	72	91			110			84			
Fluoride	mg/L		0.21	1.0	1.0	0.98			1.2			<0.2			
Silica	mg/L		2.86	4.7	3.7	5.6						4.9			
Sulfate	mg/L		3,900	3,300	3,600	3,000	2,900	3,600	2,900	4,100	4,100	4,100	2,900	3,000	2,900
Sulfite	mg/L								5			0.32			
Sulfide	mg/L								<1			<1			
Water Quality Indicators															
Acidity	mg/L								<20			<20			
Fecal Coliform	#/100ml								12			<1			
Total Residual Chlorine	mg/L								<0.1			<0.1			
Alkalinity	mg/L		52	120	80	39			29			24			
Biological Oxygen Demand	mg/L								5.1			4			
Carbonaceous BOD	mg/L														
Chemical Oxygen Demand	mg/L								43			41			
Color	PCU		15						10			10			
Total Dissolved Solids	mg/L		5,400	4,700	4,800	4,500	4,500	5,300	4,600	5,300	4,900	5,300	5,100	5,100	5,100
Total Hardness	mg/L			1,800	350	1,600									
Total Suspended Solids	mg/L		28	9.0	8.3	5.3	8.3	7	9	6.7	8	7.3	13	7	6.7
Radiological															
Gross Alpha Radiation	pCi/L		<9.7	<13.2	7.5	<9.9			24.0 ± 6.4			<14.7 ± 8.4			
Gross Beta Radiation	pCi/L								156.0 ± 8.4			139.0 ± 13.6			
Radium 226	pCi/L		0.4	1.26	1.75	1.3			2.5 ± 0.2			0.5 ± 0.2			
Radium 228	pCi/L		<1.1						<0.8 ± 0.5			<1.0 ± 0.6			
Uranium	pCi/L								5.7 ± 1.3			2.0 ± 1.0			
Metals - Suspended and Dissolved															
Aluminum	µg/L		120	78	<50	<50			170			130			
Antimony	µg/L		<10	<4.0	<4.0	8.5			82			<4			
Arsenic	µg/L		<10	<5.0	6.0	8.5			<5			6.4			
Barium	µg/L		<10	44	33	13			<10			<10			
Beryllium	µg/L		<1	0.32	1.1	0.58			8.4			<10			
Boron	µg/L								90			74			
Cadmium	µg/L		1.6	<0.3	<0.3	<0.3			<30			<0.3			
Chromium	µg/L		<10	<5.0	<5.0	<5.0			<5			<5			
Cobalt	µg/L			<10	<10	<10			<10			<10			
Copper	µg/L		<10	<10	<10	<10			<10			<10			
Iron	µg/L		60	<50	<50	<50			<50			<50			
Lead	µg/L		<5	1.2	1.2	0.71			<5			<5			
Magnesium	mg/L		9.1	0.33	0.54	1.0			3,800			750			
Manganese	µg/L		<10	<4.0	<4.0	<4.0			<4			<4			
Mercury	µg/L		<0.5	<0.040	0.11	<0.030									
Molybdenum	µg/L								<50			<50			
Nickel	µg/L		12	12	12	13			28			28			
Potassium	mg/L		160	110	24	110	110	140	110	150	160	140	130	130	140
Selenium	µg/L		<10	<4.0	<4.0	<4.0			<100			<4			
Silver	µg/L		<0.5	<2.0	<0.90	<0.70			<70			<0.7			
Sodium	mg/L		1,100	670	140	730	640	830	650	930	950	870	740	730	750
Strontium	µg/L			2,500	510	2,200			1,700			1,500			
Thallium	µg/L		<2	<0.27	<0.27	<0.27			<2,000			<2			
Tin	µg/L								<50			<50			
Titanium	µg/L								<50			<50			
Vanadium	µg/L			<10	<10	<10			<10			<10			
Zinc	µg/L		<10	<15	<15	19			<150			35			

TABLE 4
MASTER DOUBLE LIME WATER QUALITY SPREADSHEET

General Sample Information		Units	05/09/02	11/25/02	12/02/02	12/09/02	02/26/03	02/27/03	02/28/03	03/04/03	03/05/03	03/06/03	03/07/03	03/08/03	03/09/03
Date	N/A														
Sample No.	N/A		D-10	FPL1	FPL2	FPL3	STP1	STP2	STP3	STP4	STP5	STP6	STP7	STP8	STP9
Sample Type	N/A		Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab
Samplers	N/A		ECT	Shaw	Shaw	Shaw	Shaw	Shaw	Shaw	Shaw	Shaw	Shaw	Shaw	Shaw	Shaw
Laboratory	N/A		ENCO	US Bio	US Bio	US Bio	US Bio	US Bio	US Bio	US Bio	US Bio	US Bio	US Bio	US Bio	US Bio
Organic Compounds															
Benzene	µg/L														
Benzyl Alcohol	µg/L														
Bromodichloromethane	µg/L														
Bromoform	µg/L														
Bromomethane	µg/L														
Carbon Tetrachloride	µg/L														
Chlordane	µg/L														
Chlorobenzene	µg/L														
Chloroethane	µg/L														
Chloroform	µg/L														
Chloromethane	µg/L														
2-Chlorovinyl Ether	µg/L														
o-Cresol	µg/L														
m-Cresol	µg/L														
p-Cresol	µg/L														
Cresol	µg/L														
Cyanide	µg/L		<10	<5	<5	<5									
2-4-D	µg/L														
Dibromochloromethane	µg/L														
1,2-Dichlorobenzene	µg/L														
1,3-Dichlorobenzene	µg/L														
1,4-Dichlorobenzene	µg/L														
1,2-Dichloroethane	µg/L														
1,1-Dichloroethylene	µg/L														
1,2-Dichloroethylene	µg/L														
trans-1,2-Dichloroethene	µg/L														
2,4-Dinitrotoluene	µg/L														
1,2-Dichloropropane	µg/L														
cis-1,3-Dichloropropene	µg/L														
trans-1,3-Dichloropropene	µg/L														
Endrin	µg/L														
Ethylbenzene	µg/L														
Heptachlor (and its epoxide)	µg/L														
Hexachlorobenzene	µg/L														
Hexchlorobutadiene	µg/L														
Hexachloroethane	µg/L														
Lindane	µg/L														
Methoxychlor	µg/L														
Methyl Ethyl Ketone	µg/L														
Methylene blue active substances	mg/L		<0.010	0.15	0.14	0.13						<0.1			
Methylene chloride	µg/L														
Nitrobenzene	µg/L														
Pentachlorophenol	µg/L														
Phenol	µg/L			22	<10	30			<100			<10			
Pyridine	µg/L														
Tetrachloroethylene	µg/L														
Toluene	µg/L														
Total Organic Carbon	mg/L		17						16			12			
Toxaphene	µg/L														
1,1,2-Trichloroethane	µg/L														
Trichloroethylene	µg/L														
Trichlorofluoromethane	µg/L														
2,4,5-Trichlorophenol	µg/L														
2,4,6-Trichlorophenol	µg/L														
2,4,5-TP (Silvex)	µg/L														
Vinyl Chloride	µg/L														
m,p-Xylene	µg/L														
o-Xylene	µg/L														

TABLE 4
MASTER DOUBLE LIME WATER QUALITY SPREADSHEET

General Sample Information		Units	03/10/03	03/11/03	03/12/03	03/13/03	03/14/03	03/15/03	03/16/03	03/17/03	03/18/03	03/19/03	03/20/03	03/21/03	06/11/03
Date	N/A		STP10	STP11	STP12	STP13	STP14	STP15	STP16	STP17	STP18	STP19	STP20	STP21	Hills1
Sample No.	N/A		Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab
Sample Type	N/A		Shaw	Shaw	Shaw	Shaw	Shaw	Shaw	Shaw	Shaw	Shaw	Shaw	Shaw	Shaw	Shaw
Samplers	N/A		US Bio	US Bio	US Bio	US Bio	US Bio	US Bio	US Bio	US Bio	US Bio	US Bio	US Bio	US Bio	US Bio
Laboratory	N/A														
Field Physio-Chemical Indicators															
Dissolved Oxygen	mg/L					10.3								7.25	
pH	std. units					6.78								6.66	6.23
Specific Conductance	µS/cm					6,670								6,260	6,500
Temperature	°C					23								25.2	
Turbidity	NTU					1.83								1.6	
Nutrients															
Ammonia Nitrogen	mg/L		16	15	14	13	11	11	12	12	16	15	13	12	18
Nitrate Nitrogen	mg/L														
Nitrate + Nitrite	mg/L		<0.5	0.85	<0.5	0.84	1.1	0.58	1.1	0.57	1.2	1.7	1.6	1.8	
Oil and Grease	mg/L					19								4.3	
Total Kjeldahl Nitrogen	mg/L		18	15	14	14	15	12	15	14	15	18	16	14	
Total Nitrogen	mg/L		18	15.85	14	14.84	16.1	12.58	16.1	14.57	16.2	20	18	16	
Ortho-Phosphate	mg/L					<0.25								0.18	
Total Phosphorus	mg/L					0.23								0.26	
Minerals - Suspended and Dissolved															
Bromide	mg/L					<0.5								<0.5	
Calcium	mg/L					660								640	710
Chloride	mg/L					100								98	
Fluoride	mg/L					1.6								1.6	
Silica	mg/L					4.3								4.5	
Sulfate	mg/L		2,900	3,200	3,700	3,700	3,700	3,800	3,500	3,900	3,700	3,600	3,500	3,900	
Sulfite	mg/L					0.36								0.52	
Sulfide	mg/L													<1	
Water Quality Indicators															
Acidity	mg/L					<20								10	
Fecal Coliform	#/100ml					<1								<1	
Total Residual Chlorine	mg/L					<0.1								<0.1	
Alkalinity	mg/L					20								20	
Biological Oxygen Demand	mg/L					6.6								8.7	
Carbonaceous BOD	mg/L														
Chemical Oxygen Demand	mg/L					87								39	
Color	PCU					<5								5	
Total Dissolved Solids	mg/L		4,900	4,500	5,100	4,600	5,300	5,500	5,500	5,200	4,900	5,100	4,800	4,800	5,700
Total Hardness	mg/L														
Total Suspended Solids	mg/L		7.7	5	5.7	11	<4.0	5.7	<4.0	7.7	5.3	15	<4.0	4.7	
Radiological															
Gross Alpha Radiation	pCi/L					14.3 ± 6.6								<13.7 ± 8.8	
Gross Beta Radiation	pCi/L					139.0 ± 8.2								142.0 ± 12.4	
Radium 226	pCi/L					0.7 ± 0.1								0.7 ± 0.2	
Radium 228	pCi/L					<1.0 ± 0.6								<1.0 ± 0.8	
Uranium	pCi/L					3.3 ± 1.2								1.0 ± 0.7	
Metals - Suspended and Dissolved															
Aluminum	µg/L					93								68	
Antimony	µg/L					<4								<4	
Arsenic	µg/L					9.1								8.2	
Barium	µg/L					<10								<10	
Beryllium	µg/L					0.44								0.47	
Boron	µg/L					100								92	
Cadmium	µg/L					<0.1								<0.3	
Chromium	µg/L					<5								<5	
Cobalt	µg/L					<10								<10	
Copper	µg/L					<10								<10	
Iron	µg/L					<50								<50	
Lead	µg/L					<5								<5	
Magnesium	mg/L					1,100								1,800	
Manganese	µg/L					<4								<4	
Mercury	µg/L														
Molybdenum	µg/L					<50								<50	
Nickel	µg/L					32								29	
Potassium	mg/L		130	130	140	140	130	140	150	150	120	120	130	120	150
Selenium	µg/L					<4.1								6.9	
Silver	µg/L					<7								<7	
Sodium	mg/L		750	730	770	760	800	830	860	850	710	700	750	700	860
Strontium	µg/L					1,700								1,700	
Thallium	µg/L					<2,000								<2,000	
Tin	µg/L					<50								<50	
Titanium	µg/L					20								<50	
Vanadium	µg/L					<10								<10	
Zinc	µg/L					<150								<150	

TABLE 4
MASTER DOUBLE LIME WATER QUALITY SPREADSHEET

General Sample Information		Units													
Date	N/A		03/10/03	03/11/03	03/12/03	03/13/03	03/14/03	03/15/03	03/16/03	03/17/03	03/18/03	03/19/03	03/20/03	03/21/03	06/11/03
Sample No.	N/A		STP10	STP11	STP12	STP13	STP14	STP15	STP16	STP17	STP18	STP19	STP20	STP21	Hills1
Sample Type	N/A		Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab
Samplers	N/A		Shaw	Shaw	Shaw	Shaw	Shaw	Shaw	Shaw	Shaw	Shaw	Shaw	Shaw	Shaw	Shaw
Laboratory	N/A		US Bio	US Bio	US Bio	US Bio	US Bio	US Bio	US Bio	US Bio	US Bio	US Bio	US Bio	US Bio	US Bio
Organic Compounds															
Benzene	µg/L														
Benzyl Alcohol	µg/L														
Bromodichloromethane	µg/L														
Bromoform	µg/L														
Bromomethane	µg/L														
Carbon Tetrachloride	µg/L														
Chlordane	µg/L														
Chlorobenzene	µg/L														
Chloroethane	µg/L														
Chloroform	µg/L														
Chloromethane	µg/L														
2-Chlorovinyl Ether	µg/L														
o-Cresol	µg/L														
m-Cresol	µg/L														
p-Cresol	µg/L														
Cresol	µg/L														
Cyanide	µg/L														
2-4-D	µg/L														
Dibromochloromethane	µg/L														
1,2-Dichlorobenzene	µg/L														
1,3-Dichlorobenzene	µg/L														
1,4-Dichlorobenzene	µg/L														
1,2-Dichloroethane	µg/L														
1,1-Dichloroethylene	µg/L														
1,2-Dichloroethylene	µg/L														
trans-1,2-Dichloroethene	µg/L														
2,4-Dinitrotoluene	µg/L														
1,2-Dichloropropane	µg/L														
cis-1,3-Dichloropropene	µg/L														
trans-1,3-Dichloropropene	µg/L														
Endrin	µg/L														
Ethylbenzene	µg/L														
Heptachlor (and its epoxide)	µg/L														
Hexachlorobenzene	µg/L														
Hexachlorobutadiene	µg/L														
Hexachloroethane	µg/L														
Lindane	µg/L														
Methoxychlor	µg/L														
Methyl Ethyl Ketone	µg/L														
Methylene blue active substances	mg/L					0.1								0.1	
Methylene chloride	µg/L														
Nitrobenzene	µg/L														
Pentachlorophenol	µg/L														
Phenol	µg/L					<10								<10	
Pyridine	µg/L														
Tetrachloroethylene	µg/L														
Toluene	µg/L														
Total Organic Carbon	mg/L					11								11	
Toxaphene	µg/L														
1,1,2-Trichloroethane	µg/L														
Trichloroethylene	µg/L														
Trichlorofluoromethane	µg/L														
2,4,5-Trichlorophenol	µg/L														
2,4,6-Trichlorophenol	µg/L														
2,4,5-TP (Silvex)	µg/L														
Vinyl Chloride	µg/L														
m,p-Xylene	µg/L														
o-Xylene	µg/L														

TABLE 4
MASTER DOUBLE LIME WATER QUALITY SPREADSHEET

General Sample Information		Units	06/25/03	07/09/03	07/23/03	08/13/03	08/27/03	09/10/03	09/24/03
Date	N/A		Hills2	Hills3	Hills4	Hills5	Hills6	Hills7	Hills8
Sample No.	N/A		Grab	Grab	Grab	Grab	Grab	Grab	Grab
Sample Type	N/A		Shaw	Shaw	Shaw	Shaw	Shaw	Shaw	Shaw
Samplers	N/A		US Bio	US Bio	US Bio	US Bio	US Bio	US Bio	US Bio
Laboratory	N/A								
Field Physio-Chemical Indicators									
Dissolved Oxygen	mg/L								
pH	std. units								
Specific Conductance	µS/cm		5,700	5,620	5,970	5,810	6,080	5,900	6,260
Temperature	°C								
Turbidity	NTU								
Nutrients									
Ammonia Nitrogen	mg/L		16	19	22	26	29	28	5.3
Nitrate Nitrogen	mg/L								
Nitrate + Nitrite	mg/L								
Oil and Grease	mg/L								
Total Kjeldahl Nitrogen	mg/L		19		20		31		6.8
Total Nitrogen	mg/L								
Ortho-Phosphate	mg/L								
Total Phosphorus	mg/L		1.3		0.32		0.41		1.2
Minerals - Suspended and Dissolved									
Bromide	mg/L								
Calcium	mg/L		640	870	740	680	760	780	1,100
Chloride	mg/L								
Fluoride	mg/L		1.9		2.0		1.9		2.5
Silica	mg/L								
Sulfate	mg/L		3,400	3,700	4,000	3,500	8,100	3,500	4,000
Sulfite	mg/L								
Sulfide	mg/L								
Water Quality Indicators									
Acidity	mg/L								
Fecal Coliform	#/100ml								
Total Residual Chlorine	mg/L								
Alkalinity	mg/L								
Biological Oxygen Demand	mg/L						7.6		
Carbonaceous BOD	mg/L		<2		<2				3.6
Chemical Oxygen Demand	mg/L								
Color	PCU								
Total Dissolved Solids	mg/L		4,700	4,900	4,700	5,200	5,100	5,200	5,600
Total Hardness	mg/L								
Total Suspended Solids	mg/L		9		7		9.7		9.3
Radiological									
Gross Alpha Radiation	pCi/L								
Gross Beta Radiation	pCi/L								
Radium 226	pCi/L								
Radium 228	pCi/L								
Uranium	pCi/L								
Metals - Suspended and Dissolved									
Aluminum	µg/L								
Antimony	µg/L								
Arsenic	µg/L		<10		<10		<10		<10
Barium	µg/L								
Beryllium	µg/L								
Boron	µg/L								
Cadmium	µg/L		<5		<5		<5		<5
Chromium	µg/L		<5		<5		<5		<5
Cobalt	µg/L								
Copper	µg/L		<10		<10		<10		<10
Iron	µg/L								
Lead	µg/L		<5		<5		<5		<5
Magnesium	mg/L								
Manganese	µg/L								
Mercury	µg/L		<0.2		<0.2		<0.2		<0.2
Molybdenum	µg/L		<50		<50		<50		<50
Nickel	µg/L		5		5.2		7		7.4
Potassium	mg/L		130	130	140	130	130	130	120
Selenium	µg/L		<10		<10		<10		<10
Silver	µg/L		<10		<10		<10		<10
Sodium	mg/L		590	650	670	730	690	840	680
Strontium	µg/L								
Thallium	µg/L								
Tin	µg/L								
Titanium	µg/L								
Vanadium	µg/L								
Zinc	µg/L		49		<20		21		<20

TABLE 4
MASTER DOUBLE LIME WATER QUALITY SPREADSHEET

General Sample Information		Units							
Date	N/A	N/A	06/25/03	07/09/03	07/23/03	08/13/03	08/27/03	09/10/03	09/24/03
Sample No.	N/A	N/A	Hills2	Hills3	Hills4	Hills5	Hills6	Hills7	Hills8
Sample Type	N/A	N/A	Grab	Grab	Grab	Grab	Grab	Grab	Grab
Samplers	N/A	N/A	Shaw	Shaw	Shaw	Shaw	Shaw	Shaw	Shaw
Laboratory	N/A	N/A	US Bio	US Bio	US Bio	US Bio	US Bio	US Bio	US Bio
Organic Compounds									
Benzene	µg/L								
Benzyl Alcohol	µg/L								
Bromodichloromethane	µg/L								
Bromoform	µg/L								
Bromomethane	µg/L								
Carbon Tetrachloride	µg/L								
Chlordane	µg/L								
Chlorobenzene	µg/L								
Chloroethane	µg/L								
Chloroform	µg/L								
Chloromethane	µg/L								
2-Chlorovinyl Ether	µg/L								
o-Cresol	µg/L								
m-Cresol	µg/L								
p-Cresol	µg/L								
Cresol	µg/L								
Cyanide	µg/L		<5		<5		<5		<5
2-4-D	µg/L								
Dibromochloromethane	µg/L								
1,2-Dichlorobenzene	µg/L								
1,3-Dichlorobenzene	µg/L								
1,4-Dichlorobenzene	µg/L								
1,2-Dichloroethane	µg/L								
1,1-Dichloroethylene	µg/L								
1,2-Dichloroethylene	µg/L								
trans-1,2-Dichloroethene	µg/L								
2,4-Dinitrotoluene	µg/L								
1,2-Dichloropropane	µg/L								
cis-1,3-Dichloropropene	µg/L								
trans-1,3-Dichloropropene	µg/L								
Endrin	µg/L								
Ethylbenzene	µg/L								
Heptachlor (and its epoxide)	µg/L								
Hexachlorobenzene	µg/L								
Hexachlorobutadiene	µg/L								
Hexachloroethane	µg/L								
Lindane	µg/L								
Methoxychlor	µg/L								
Methyl Ethyl Ketone	µg/L								
Methylene blue active substances	mg/L								
Methylene chloride	µg/L								
Nitrobenzene	µg/L								
Pentachlorophenol	µg/L								
Phenol	µg/L								
Pyridine	µg/L								
Tetrachloroethylene	µg/L								
Toluene	µg/L								
Total Organic Carbon	mg/L								
Toxaphene	µg/L								
1,1,2-Trichloroethane	µg/L								
Trichloroethylene	µg/L								
Trichlorofluoromethane	µg/L								
2,4,5-Trichlorophenol	µg/L								
2,4,6-Trichlorophenol	µg/L								
2,4,5-TP (Silvex)	µg/L								
Vinyl Chloride	µg/L								
m,p-Xylene	µg/L								
o-Xylene	µg/L								

TABLE 5
MASTER FIRST PASS RO PERMEATE SPREADSHEET

General Sample Information		Units	05/22/02	05/28/02	05/30/02
Date		N/A	FRO-1	FRO-2	FRO-3
Sample No.		N/A	Composite	Composite	Composite
Samplers		N/A	ECT	ECT	ECT
Laboratory		N/A	FDEP	ENCO	ENCO
Field Physio-Chemical Indicators					
Dissolved Oxygen	mg/L				
pH	std. units			6.82	5.2
Specific Conductance	µS/cm			371	1,800
Temperature	°C				
Turbidity	NTU		0.25		2
Nutrients					
Ammonia Nitrogen	mg/L		5.2	15	75
Nitrate Nitrogen	mg/L		0.16		
Nitrate + Nitrite	mg/L		0.18		
Total Kjeldahl Nitrogen	mg/L		5.9	16	75
Total Nitrogen	mg/L		5.9	16	75
Ortho-Phosphate	mg/L		1.1		
Total Phosphorus	mg/L		1.1	3.1	120
Minerals - Suspended and Dissolved					
Bromide	mg/L		<0.2		
Calcium	mg/L		0.25		
Chloride	mg/L		14	4.5	23
Fluoride	mg/L		35	44	61
Silica	mg/L		0.61		
Sulfate	mg/L		5.5	9	460
Sulfite	mg/L				
Water Quality Indicators					
Alkalinity	mg/L		15		
Biological Oxygen Demand	mg/L		0.74		
Chemical Oxygen Demand	mg/L				
Color	PCU		<5		
Total Dissolved Solids	mg/L		111	210	1,100
Total Suspended Solids	mg/L		<4	4	6
Radiological					
Gross Alpha Radiation	pCi/L		2.7		7.0
Gross Beta Radiation	pCi/L				
Radium 226	pCi/L		0.8		
Radium 228	pCi/L		< 1.0		
Metals - Suspended and Dissolved					
Aluminum	µg/L		<50,000	<50,000	690
Antimony	µg/L				
Arsenic	µg/L		<3,000	<3,000	43
Barium	µg/L		<1		
Beryllium	µg/L		<100		
Boron	µg/L				
Cadmium	µg/L		<500	<500	5.8
Chromium	µg/L		<2,000	<2,000	<2,000
Cobalt	µg/L				
Copper	µg/L		3.4		
Iron	µg/L		<2,500	<2,500	300
Lead	µg/L		<5,000		
Magnesium	mg/L		0.074		
Manganese	µg/L		5.6		230
Mercury	µg/L				
Molybdenum	µg/L				
Nickel	µg/L		<2,000	<2,000	26
Potassium	mg/L		0.86	2.6	21
Selenium	µg/L		<4,000		
Silver	µg/L		<1,500		
Sodium	mg/L		50.7	57	180
Strontium	µg/L				
Thallium	µg/L				
Tin	µg/L				
Titanium	µg/L				
Vanadium	µg/L				
Zinc	µg/L		16		

TABLE 5
MASTER FIRST PASS RO PERMEATE SPREADSHEET

General Sample Information	Units	05/22/02	05/28/02	05/30/02
Date	N/A	05/22/02	05/28/02	05/30/02
Sample No.	N/A	FRO-1	FRO-2	FRO-3
Sample Type	N/A	Composite	Composite	Composite
Samplers	N/A	ECT	ECT	ECT
Laboratory	N/A	FDEP	ENCO	ENCO
Organic Compounds				
Benzene	µg/L			
Benzyl Alcohol	µg/L			
Bromodichloromethane	µg/L			
Bromoform	µg/L			
Bromomethane	µg/L			
Carbon Tetrachloride	µg/L			
Chlordane	µg/L			
Chlorobenzene	µg/L			
Chloroethane	µg/L			
Chloroform	µg/L			
Chloromethane	µg/L			
2-Chlorovinyl Ether	µg/L			
o-Cresol	µg/L			
m-Cresol	µg/L			
p-Cresol	µg/L			
Cresol	µg/L			
Cyanide	µg/L			
2-4-D	µg/L			
Dibromochloromethane	µg/L			
1,2-Dichlorobenzene	µg/L			
1,3-Dichlorobenzene	µg/L			
1,4-Dichlorobenzene	µg/L			
1,2-Dichloroethane	µg/L			
1,1-Dichloroethylene	µg/L			
1,2-Dichloroethylene	µg/L			
trans-1,2-Dichloroethene	µg/L			
2,4-Dinitrotoluene	µg/L			
1,2-Dichloropropane	µg/L			
cis-1,3-Dichloropropene	µg/L			
trans-1,3-Dichloropropene	µg/L			
Endrin	µg/L			
Ethylbenzene	µg/L			
Heptachlor (and its epoxide)	µg/L			
Hexachlorobenzene	µg/L			
Hexachlorobutadiene	µg/L			
Hexachloroethane	µg/L			
Lindane	µg/L			
Methoxychlor	µg/L			
Methyl Ethyl Ketone	µg/L			
Methylene blue active substances	mg/L			
Methylene chloride	µg/L			
Nitrobenzene	µg/L			
Pentachlorophenol	µg/L			
Phenol	µg/L			
Pyridine	µg/L			
Tetrachloroethylene	µg/L			
Toluene	µg/L			
Total Organic Carbon	mg/L	<1		
Toxaphene	µg/L			
1,1,2-Trichloroethane	µg/L			
Trichloroethylene	µg/L			
Trichlorofluoromethane	µg/L			
2,4,5-Trichlorophenol	µg/L			
2,4,6-Trichlorophenol	µg/L			
2,4,5-TP (Silvex)	µg/L			
Vinyl Chloride	µg/L			
m,p-Xylene	µg/L			
o-Xylene	µg/L			

TABLE 6
MASTER RO REJECT SPREADSHEET

General Sample Information		Units	05/22/02	05/29/02	05/31/02	06/04/02	09/05/02	09/12/02	09/20/02
Date		N/A							
Sample No.		N/A	REJ-1	REJ-2	REJ-3	REJ-4	REJ-5	REJ-6	REJ-7
Sample Type		N/A	Composite	Composite	Composite	Composite	Grab	Grab	Grab
Samplers		N/A	ECT	ECT	ECT	ECT	Shaw	Shaw	Shaw
Laboratory		N/A	FDEP	ENCO	ENCO	ENCO	Thornton	Thornton	Thornton
Field Physio-Chemical Indicators									
Dissolved Oxygen	mg/L								
pH	std. units		2.87	2.99	3.03	2.96			
Specific Conductance	µS/cm			17,854	17,450	20,698	11,100	1,510	13,500
Temperature	°C								
Turbidity	NTU		2.1						
Nutrients									
Ammonia Nitrogen	mg/L		1,100	1,000	1,000	1,400	1,260	100	1,100
Nitrate Nitrogen	mg/L								
Nitrate + Nitrite	mg/L		0.48				0.46	0.26	0.50
Total Kjeldahl Nitrogen	mg/L		1,100						
Total Nitrogen	mg/L								
Ortho-Phosphate	mg/L								
Total Phosphorus	mg/L		2,500						
Minerals - Suspended and Dissolved									
Bromide	mg/L								
Calcium	mg/L		920						
Chloride	mg/L		210	660	200	250	174	40	174
Fluoride	mg/L		240				160	75	177
Silica	mg/L		340				1.5		1.0
Sulfate	mg/L		8700				6950	347	6920
Sulfite	mg/L								
Water Quality Indicators									
Alkalinity	mg/L								
Biological Oxygen Demand	mg/L								
Chemical Oxygen Demand	mg/L								
Color	PCU		100						
Total Dissolved Solids	mg/L		20400	20000	16000	20000	17220	982	17900
Total Suspended Solids	mg/L		29	18	22	56	20	2.8	26.0
Radiological									
Gross Alpha Radiation	pCi/L		235				194 ± 57	49.9 ± 8.1	206 ± 32
Gross Beta Radiation	pCi/L			332	315	423	426 ± 58	51 ± 9.1	545 ± 93
Radium 226	pCi/L		3.1				2.1 ± 0.2	1.6 ± 0.1	1.3 ± 0.2
Radium 228	pCi/L		2.1						
Metals - Suspended and Dissolved									
Aluminum	µg/L		14600				7700	5600	4500
Antimony	µg/L						80		<80
Arsenic	µg/L		740	790	730	820	440	22	950
Barium	µg/L		38				100		80
Beryllium	µg/L		16.5	17	15	18	9	2	9
Boron	µg/L								
Cadmium	µg/L		102	97	93	110	57	12	70
Chromium	µg/L		169	140	120	140	50	5	50
Cobalt	µg/L								
Copper	µg/L		12				90	9	<10
Iron	µg/L		7010				4800	420	3400
Lead	µg/L			7	7	9	<20		<20
Magnesium	mg/L		382						
Manganese	µg/L		4720				1800	220	1500
Mercury	µg/L								
Molybdenum	µg/L								
Nickel	µg/L		581				310	17	340
Potassium	mg/L		310	310	320	340	248	18	273
Selenium	µg/L			18	13	12			
Silver	µg/L						<10	0.00	<10
Sodium	mg/L		2,100	2,000	2,000	2,100	1,620	115	1,790
Strontium	µg/L								
Thallium	µg/L						310	30	380
Tin	µg/L								
Titanium	µg/L								
Vanadium	µg/L								
Zinc	µg/L		1080				690	290	680

TABLE 6
MASTER RO REJECT SPREADSHEET

General Sample Information	Units	05/22/02	05/29/02	05/31/02	06/04/02	09/05/02	09/12/02	09/20/02
Date	N/A	REJ-1	REJ-2	REJ-3	REJ-4	REJ-5	REJ-6	REJ-7
Sample No.	N/A	Composite	Composite	Composite	Composite	Grab	Grab	Grab
Sample Type	N/A	ECT	ECT	ECT	ECT	Shaw	Shaw	Shaw
Samplers	N/A	FDEP	ENCO	ENCO	ENCO	Thornton	Thornton	Thornton
Laboratory	N/A							
Organic Compounds								
Benzene	µg/L							
Benzyl Alcohol	µg/L							
Bromodichloromethane	µg/L							
Bromoform	µg/L							
Bromomethane	µg/L							
Carbon Tetrachloride	µg/L							
Chlordane	µg/L							
Chlorobenzene	µg/L							
Chloroethane	µg/L							
Chloroform	µg/L							
Chloromethane	µg/L							
2-Chlorovinyl Ether	µg/L							
o-Cresol	µg/L							
m-Cresol	µg/L							
p-Cresol	µg/L							
Cresol	µg/L							
Cyanide	µg/L							
2,4-D	µg/L							
Dibromochloromethane	µg/L							
1,2-Dichlorobenzene	µg/L							
1,3-Dichlorobenzene	µg/L							
1,4-Dichlorobenzene	µg/L							
1,2-Dichloroethane	µg/L							
1,1-Dichloroethylene	µg/L							
1,2-Dichloroethylene	µg/L							
trans-1,2-Dichloroethene	µg/L							
2,4-Dinitrotoluene	µg/L							
1,2-Dichloropropane	µg/L							
cis-1,3-Dichloropropene	µg/L							
trans-1,3-Dichloropropene	µg/L							
Endrin	µg/L							
Ethylbenzene	µg/L							
Heptachlor (and its epoxide)	µg/L							
Hexachlorobenzene	µg/L							
Hexchlorobutadiene	µg/L							
Hexachloroethane	µg/L							
Lindane	µg/L							
Methoxychlor	µg/L							
Methyl Ethyl Ketone	µg/L							
Methylene blue active substances	mg/L							
Methylene chloride	µg/L							
Nitrobenzene	µg/L							
Pentachlorophenol	µg/L							
Phenol	µg/L							
Pyridine	µg/L							
Tetrachloroethylene	µg/L							
Toluene	µg/L							
Total Organic Carbon	mg/L	110				93	5.5	103
Toxaphene	µg/L							
1,1,2-Trichloroethane	µg/L							
Trichloroethylene	µg/L							
Trichlorofluoromethane	µg/L							
2,4,5-Trichlorophenol	µg/L							
2,4,6-Trichlorophenol	µg/L							
2,4,5-TP (Silvex)	µg/L							
Vinyl Chloride	µg/L							
m,p-Xylene	µg/L							
o-Xylene	µg/L							

TABLE 6
MASTER RO REJECT SPREADSHEET

General Sample Information		Units	10/10/02	10/17/02	10/24/02	11/07/02	11/14/02	11/21/02	12/05/02
Date		N/A	CF-3	CF-4	CF-5	CF-6	CF-7	CF-8	CF-9
Sample No.		N/A	Grab	Grab	Grab	Grab	Grab	Grab	Grab
Sample Type		N/A	Shaw	Shaw	Shaw	Shaw	Shaw	ECT	ECT
Samplers		N/A	Thornton	Thornton	Thornton	Thornton	Thornton	Thornton	Thornton
Laboratory		N/A							
Field Physio-Chemical Indicators									
Dissolved Oxygen	mg/L								
pH	std. units								
Specific Conductance	µS/cm		17,800	11,900	13,200	12,800	12,700	14,500	12,300
Temperature	°C								
Turbidity	NTU								
Nutrients									
Ammonia Nitrogen	mg/L		982	939	957	1,000	887	887	899
Nitrate Nitrogen	mg/L								
Nitrate + Nitrite	mg/L		0.39	0.60	0.50	0.48	0.39	0.48	<0.02
Total Kjeldahl Nitrogen	mg/L								
Total Nitrogen	mg/L								
Ortho-Phosphate	mg/L								
Total Phosphorus	mg/L								
Minerals - Suspended and Dissolved									
Bromide	mg/L								
Calcium	mg/L								
Chloride	mg/L		220	218	240	222	194	197	208
Fluoride	mg/L		154	172	199	227	200	185	230
Silica	mg/L		2.4	2.1	2.3	1.7	1.7	1.8	1.8
Sulfate	mg/L		8,740	8,450	9,040	8,240	7,760	7,620	8,010
Sulfite	mg/L								
Water Quality Indicators									
Alkalinity	mg/L								
Biological Oxygen Demand	mg/L								
Chemical Oxygen Demand	mg/L								
Color	PCU								
Total Dissolved Solids	mg/L		20,860	19,880	21,460	20,120	16,900		20,300
Total Suspended Solids	mg/L		8.6	15.0	6.7	21.0	13.0	18.0	21.0
Radiological									
Gross Alpha Radiation	pCi/L		193+/-69	193+/-65	238+/-77	199+/-70	180+/-65	163+/-60	160+/-57
Gross Beta Radiation	pCi/L		457+/-86	446+/-58	455+/-89	383+/-85	471+/-94	393+/-90	450+/-97
Radium 226	pCi/L		2.2+/-0.2	1.7+/-0.2	2.0+/-0.2	1.8+/-0.2	1.6+/-0.2	1.5+/-0.2	1.9+/-0.2
Radium 228	pCi/L								
Metals - Suspended and Dissolved									
Aluminum	µg/L		7,300	5,800	8,900	6,600	8,600	8,700	8,900
Antimony	µg/L		<80	<80	<80	<80	<80	<80	<80
Arsenic	µg/L		460	610	640	550	480	550	680
Barium	µg/L		320	300	40	60	60	<60	200
Beryllium	µg/L		10	8	11	11	10	10	10
Boron	µg/L								
Cadmium	µg/L		78	69	70	77	66	71	73
Chromium	µg/L		50	50	50	50	50	40	50
Cobalt	µg/L								
Copper	µg/L		<10	<10	<10	<10	<10	<10	<10
Iron	µg/L		9,900	6,000	9,000	5,100	4,500	4,300	5,200
Lead	µg/L		<20	<20	<20	<20	<20	<20	<20
Magnesium	mg/L								
Manganese	µg/L		2,900	2,700	2,300	2,800	2,600	2,500	2,100
Mercury	µg/L		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Molybdenum	µg/L								
Nickel	µg/L		380	380	370	330	310	320	320
Potassium	mg/L		287	251	286	269	273	245	275
Selenium	µg/L		<5	<5	<5	<5	<5	<5	<5
Silver	µg/L		<1	<1	<1	<1	<1	<1	<1
Sodium	mg/L		2,030	1,870	1,940	1,850	1,890	1,750	1,820
Strontium	µg/L								
Thallium	µg/L		380	340	<50	<40	<40	<40	<40
Tin	µg/L								
Titanium	µg/L								
Vanadium	µg/L								
Zinc	µg/L		750	700	770	690	640	700	660

TABLE 6
MASTER RO REJECT SPREADSHEET

General Sample Information	Units	10/10/02	10/17/02	10/24/02	11/07/02	11/14/02	11/21/02	12/05/02
Date	N/A	CF-3	CF-4	CF-5	CF-6	CF-7	CF-8	CF-9
Sample No.	N/A	Grab	Grab	Grab	Grab	Grab	Grab	Grab
Sample Type	N/A	Shaw	Shaw	Shaw	Shaw	Shaw	ECT	ECT
Samplers	N/A	Thornton	Thornton	Thornton	Thornton	Thornton	Thornton	Thornton
Laboratory	N/A							
Organic Compounds								
Benzene	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Benzyl Alcohol	µg/L							
Bromodichloromethane	µg/L							
Bromoform	µg/L							
Bromomethane	µg/L							
Carbon Tetrachloride	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chlordane	µg/L							
Chlorobenzene	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chloroethane	µg/L							
Chloroform	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chloromethane	µg/L							
2-Chlorovinyl Ether	µg/L							
o-Cresol	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A
m-Cresol	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A
p-Cresol	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Cresol	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Cyanide	µg/L	<30	<30	<30	<30	<30	<30	<30
2,4-D	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dibromochloromethane	µg/L							
1,2-Dichlorobenzene	µg/L							
1,3-Dichlorobenzene	µg/L							
1,4-Dichlorobenzene	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,2-Dichloroethane	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,1-Dichloroethylene	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,2-Dichloroethylene	µg/L							
trans-1,2-Dichloroethene	µg/L							
2,4-Dinitrotoluene	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,2-Dichloropropane	µg/L							
cis-1,3-Dichloropropene	µg/L							
trans-1,3-Dichloropropene	µg/L							
Endrin	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ethylbenzene	µg/L							
Heptachlor (and its epoxide)	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hexachlorobenzene	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hexachlorobutadiene	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hexachloroethane	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Lindane	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Methoxychlor	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Methyl Ethyl Ketone	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Methylene blue active substances	mg/L							
Methylene chloride	µg/L							
Nitrobenzene	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pentachlorophenol	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Phenol	µg/L							
Pyridine	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tetrachloroethylene	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Toluene	µg/L							
Total Organic Carbon	mg/L							
Toxaphene	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,1,2-Trichloroethane	µg/L							
Trichloroethylene	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Trichlorofluoromethane	µg/L							
2,4,5-Trichlorophenol	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2,4,6-Trichlorophenol	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2,4,5-TP (Silvex)	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Vinyl Chloride	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A
m,p-Xylene	µg/L							
o-Xylene	µg/L							

TABLE 7
MASTER SECOND PASS RO PERMEATE WITHOUT POLISHING SPREADSHEET

General Sample Information		Units	05/22/02	05/22/02	05/23/02	05/28/02	05/29/02	05/30/02	05/31/02
Date		N/A							
Sample No.		N/A							
Sample Type		N/A							
Samplers		N/A							
Laboratory		N/A							
			SRO-1	SRO-2	SRO-3	SRO-4	SRO-5	SRO-6	SRO-7
			Composite	Composite	Composite	Composite	Composite	Composite	Composite
			ECT	ECT	ECT	ECT	ECT	ECT	ECT
			DEP	ENCO	ENCO	ENCO	ENCO	ENCO	ENCO
Field Physio-Chemical Indicators									
Dissolved Oxygen	mg/L			7.54	7.1	6.8	6.64	6.64	6.46
pH	std. units			6.77	6.8	7.45	7.77	8.96	7.73
Specific Conductance	µS/cm			25	11	17	25	47	59
Temperature	°C								
Turbidity	NTU		0.2						
Nutrients									
Ammonia Nitrogen	mg/L		0.52	0.52	0.31	1.4	1.3	2.8	4.2
Nitrate Nitrogen	mg/L		0.027						
Nitrate + Nitrite	mg/L		0.015						
Total Kjeldahl Nitrogen	mg/L		0.94	0.99	1.8	3	1.7	3.5	4.4
Total Nitrogen	mg/L			0.99	1.8	3	1.7	3.5	4.4
Ortho-Phosphate	mg/L		0.036						
Total Phosphorus	mg/L		0.032	0.02	0.06	0.27		0.11	0.59
Minerals - Suspended and Dissolved									
Bromide	mg/L		< 0.2						
Calcium	mg/L		0.53						
Chloride	mg/L		0.31						
Fluoride	mg/L		2.5	2.3	0.72	2	1.4	2.8	5.5
Silica	mg/L		0.49						
Sulfate	mg/L		1.1						
Sulfite	mg/L								
Water Quality Indicators									
Alkalinity	mg/L		4.7						
Biological Oxygen Demand	mg/L		0.26						
Chemical Oxygen Demand	mg/L								
Color	PCU								
Total Dissolved Solids	mg/L		15	20	24	28	16	40	56
Total Suspended Solids	mg/L		4						
Radiological									
Gross Alpha Radiation	pCi/L								
Gross Beta Radiation	pCi/L								
Radium 226	pCi/L								
Radium 228	pCi/L								
Metals - Suspended and Dissolved									
Aluminum	µg/L								
Antimony	µg/L								
Arsenic	µg/L								
Barium	µg/L		3.2						
Beryllium	µg/L								
Boron	µg/L								
Cadmium	µg/L								
Chromium	µg/L								
Cobalt	µg/L								
Copper	µg/L								
Iron	µg/L								
Lead	µg/L								
Magnesium	mg/L								
Manganese	µg/L		0.6						
Mercury	µg/L								
Molybdenum	µg/L								
Nickel	µg/L								
Potassium	mg/L		0.21						
Selenium	µg/L								
Silver	µg/L								
Sodium	mg/L		3.5						
Strontium	µg/L								
Thallium	µg/L								
Tin	µg/L								
Titanium	µg/L								
Vanadium	µg/L								
Zinc	µg/L		9.5						

TABLE 7
MASTER SECOND PASS RO PERMEATE WITHOUT POLISHING SPREADSHEET

General Sample Information		Units	05/22/02	05/22/02	05/23/02	05/28/02	05/29/02	05/30/02	05/31/02
Date	N/A		SRO-1	SRO-2	SRO-3	SRO-4	SRO-5	SRO-6	SRO-7
Sample No.	N/A		Composite	Composite	Composite	Composite	Composite	Composite	Composite
Sample Type	N/A		ECT	ECT	ECT	ECT	ECT	ECT	ECT
Samplers	N/A		DEP	ENCO	ENCO	ENCO	ENCO	ENCO	ENCO
Laboratory	N/A								
Organic Compounds									
Benzene	µg/L								
Benzyl Alcohol	µg/L								
Bromodichloromethane	µg/L								
Bromoform	µg/L								
Bromomethane	µg/L								
Carbon Tetrachloride	µg/L								
Chlordane	µg/L								
Chlorobenzene	µg/L								
Chloroethane	µg/L								
Chloroform	µg/L								
Chloromethane	µg/L								
2-Chlorovinyl Ether	µg/L								
o-Cresol	µg/L								
m-Cresol	µg/L								
p-Cresol	µg/L								
Cresol	µg/L								
Cyanide	µg/L								
2-4-D	µg/L								
Dibromochloromethane	µg/L								
1,2-Dichlorobenzene	µg/L								
1,3-Dichlorobenzene	µg/L								
1,4-Dichlorobenzene	µg/L								
1,2-Dichloroethane	µg/L								
1,1-Dichloroethylene	µg/L								
1,2-Dichloroethylene	µg/L								
trans-1,2-Dichloroethene	µg/L								
2,4-Dinitrotoluene	µg/L								
1,2-Dichloropropane	µg/L								
cis-1,3-Dichloropropene	µg/L								
trans-1,3-Dichloropropene	µg/L								
Endrin	µg/L								
Ethylbenzene	µg/L								
Heptachlor (and its epoxide)	µg/L								
Hexachlorobenzene	µg/L								
Hexachlorobutadiene	µg/L								
Hexachloroethane	µg/L								
Lindane	µg/L								
Methoxychlor	µg/L								
Methyl Ethyl Ketone	µg/L								
Methylene blue active substances	mg/L								
Methylene chloride	µg/L								
Nitrobenzene	µg/L								
Pentachlorophenol	µg/L								
Phenol	µg/L								
Pyridine	µg/L								
Tetrachloroethylene	µg/L								
Toluene	µg/L								
Total Organic Carbon	mg/L	1.2							
Toxaphene	µg/L								
1,1,2-Trichloroethane	µg/L								
Trichloroethylene	µg/L								
Trichlorofluoromethane	µg/L								
2,4,5-Trichlorophenol	µg/L								
2,4,6-Trichlorophenol	µg/L								
2,4,5-TP (Silvex)	µg/L								
Vinyl Chloride	µg/L								
m,p-Xylene	µg/L								
o-Xylene	µg/L								

TABLE 7
MASTER SECOND PASS RO PERMEATE WITHOUT POLISHING SPREADSHEET

General Sample Information		Units				
Date		N/A	06/03/02	06/04/02	06/05/02	06/06/02
Sample No.		N/A	SRO-8	SRO-9	SRO-10	SRO-11
Sample Type		N/A	Composite	Composite	Composite	Composite
Samplers		N/A	ECT	ECT	ECT	ECT
Laboratory		N/A	ENCO	ENCO	ENCO	ENCO
Field Physio-Chemical Indicators						
Dissolved Oxygen	mg/L	6.02	6.72	5.49	6.43	
pH	std. units	8.01	6.19	6.98	6.18	
Specific Conductance	µS/cm	221	38	38	41.7	
Temperature	°C					
Turbidity	NTU					
Nutrients						
Ammonia Nitrogen	mg/L	8.6	1.1	1.4	1.8	
Nitrate Nitrogen	mg/L					
Nitrate + Nitrite	mg/L					
Total Kjeldahl Nitrogen	mg/L	10	1.7	2	2.4	
Total Nitrogen	mg/L	10	1.7	2	2.4	
Ortho-Phosphate	mg/L					
Total Phosphorus	mg/L	5	0.07		0.03	
Minerals - Suspended and Dissolved						
Bromide	mg/L					
Calcium	mg/L					
Chloride	mg/L					
Fluoride	mg/L	13	1.7	3.2	2.6	
Silica	mg/L					
Sulfate	mg/L					
Sulfite	mg/L					
Water Quality Indicators						
Alkalinity	mg/L					
Biological Oxygen Demand	mg/L					
Chemical Oxygen Demand	mg/L					
Color	PCU					
Total Dissolved Solids	mg/L	120	28	20	20	
Total Suspended Solids	mg/L					
Radiological						
Gross Alpha Radiation	pCi/L					
Gross Beta Radiation	pCi/L					
Radium 226	pCi/L					
Radium 228	pCi/L					
Metals - Suspended and Dissolved						
Aluminum	µg/L					
Antimony	µg/L					
Arsenic	µg/L					
Barium	µg/L					
Beryllium	µg/L					
Boron	µg/L					
Cadmium	µg/L					
Chromium	µg/L					
Cobalt	µg/L					
Copper	µg/L					
Iron	µg/L					
Lead	µg/L					
Magnesium	mg/L					
Manganese	µg/L					
Mercury	µg/L					
Molybdenum	µg/L					
Nickel	µg/L					
Potassium	mg/L					
Selenium	µg/L					
Silver	µg/L					
Sodium	mg/L					
Strontium	µg/L					
Thallium	µg/L					
Tin	µg/L					
Titanium	µg/L					
Vanadium	µg/L					
Zinc	µg/L					

TABLE 7
MASTER SECOND PASS RO PERMEATE WITHOUT POLISHING SPREADSHEET

General Sample Information	Units	06/03/02	06/04/02	06/05/02	06/06/02
Date	N/A	SRO-8	SRO-9	SRO-10	SRO-11
Sample No.	N/A	Composite	Composite	Composite	Composite
Sample Type	N/A	ECT	ECT	ECT	ECT
Samplers	N/A	ENCO	ENCO	ENCO	ENCO
Laboratory	N/A				
Organic Compounds					
Benzene	µg/L				
Benzyl Alcohol	µg/L				
Bromodichloromethane	µg/L				
Bromoform	µg/L				
Bromomethane	µg/L				
Carbon Tetrachloride	µg/L				
Chlordane	µg/L				
Chlorobenzene	µg/L				
Chloroethane	µg/L				
Chloroform	µg/L				
Chloromethane	µg/L				
2-Chlorovinyl Ether	µg/L				
o-Cresol	µg/L				
m-Cresol	µg/L				
p-Cresol	µg/L				
Cresol	µg/L				
Cyanide	µg/L				
2-4-D	µg/L				
Dibromochloromethane	µg/L				
1,2-Dichlorobenzene	µg/L				
1,3-Dichlorobenzene	µg/L				
1,4-Dichlorobenzene	µg/L				
1,2-Dichloroethane	µg/L				
1,1-Dichloroethylene	µg/L				
1,2-Dichloroethylene	µg/L				
trans-1,2-Dichloroethene	µg/L				
2,4-Dinitrotoluene	µg/L				
1,2-Dichloropropane	µg/L				
cis-1,3-Dichloropropene	µg/L				
trans-1,3-Dichloropropene	µg/L				
Endrin	µg/L				
Ethylbenzene	µg/L				
Heptachlor (and its epoxide)	µg/L				
Hexachlorobenzene	µg/L				
Hexachlorobutadiene	µg/L				
Hexachloroethane	µg/L				
Lindane	µg/L				
Methoxychlor	µg/L				
Methyl Ethyl Ketone	µg/L				
Methylene blue active substances	mg/L				
Methylene chloride	µg/L				
Nitrobenzene	µg/L				
Pentachlorophenol	µg/L				
Phenol	µg/L				
Pyridine	µg/L				
Tetrachloroethylene	µg/L				
Toluene	µg/L				
Total Organic Carbon	mg/L				
Toxaphene	µg/L				
1,1,2-Trichloroethane	µg/L				
Trichloroethylene	µg/L				
Trichlorofluoromethane	µg/L				
2,4,5-Trichlorophenol	µg/L				
2,4,6-Trichlorophenol	µg/L				
2,4,5-TP (Silvex)	µg/L				
Vinyl Chloride	µg/L				
m,p-Xylene	µg/L				
o-Xylene	µg/L				

TABLE 8
MASTER SECOND PASS RO PLUS ION-EXCHANGE POLISHING SPREADSHEET

General Sample Information		Units	06/19/02	06/20/02	06/21/02	06/24/02	06/25/02	06/26/02	06/27/02	06/28/02
Date		N/A	USF-1	USF-2	USF-3	USF-4	USF-5	USF-6	USF-7	USF-8
Sample No.		N/A	Composite	Composite	Composite	Composite	Composite	Composite	Composite	Composite
Sample Type		N/A	ECT	ECT	ECT	ECT	ECT	ECT	ECT	ECT
Samplers		N/A	Benchmark	Benchmark	Benchmark	Benchmark	Benchmark	Benchmark	Benchmark	Benchmark
Laboratory		N/A								
Field Physio-Chemical Indicators										
Dissolved Oxygen	mg/L		5.75	5.75	5.52	4.50	4.78	7.88	3.63	8.10
pH	std. units		5.53	6.51	9.32	8.41	8.04	6.69	8.25	5.96
Specific Conductance	µS/cm		48	24	24	20	2.9	2.0	4.0	34
Temperature	°C									
Turbidity	NTU									
Nutrients										
Ammonia Nitrogen	mg/L		0.05	0.07	0.10	0.11	0.17	0.10	0.08	0.05
Nitrate Nitrogen	mg/L									
Nitrate + Nitrite	mg/L			0.01		0.01	0.01	0.01		
Total Kjeldahl Nitrogen	mg/L		0.56	0.87	0.35	0.35	0.34	0.41	0.44	1.18
Total Nitrogen	mg/L		0.56	0.87	0.35	0.35	0.34	0.41	0.44	1.18
Ortho-Phosphate	mg/L									
Total Phosphorus	mg/L		0.01	0.01				0.01	0.01	
Minerals - Suspended and Dissolved										
Bromide	mg/L									
Calcium	mg/L									
Chloride	mg/L									
Fluoride	mg/L									
Silica	mg/L									
Sulfate	mg/L									
Sulfite	mg/L									
Water Quality Indicators										
Alkalinity	mg/L									0.28
Biological Oxygen Demand	mg/L									
Chemical Oxygen Demand	mg/L									
Color	PCU									
Total Dissolved Solids	mg/L		36	76	12	4	4	16	8	28
Total Hardness	mg/L									
Total Suspended Solids	mg/L									
Radiological										
Gross Alpha Radiation	pCi/L									
Gross Beta Radiation	pCi/L									
Radium 226	pCi/L									
Radium 228	pCi/L									
Metals - Suspended and Dissolved										
Aluminum	µg/L									
Antimony	µg/L									
Arsenic	µg/L									
Barium	µg/L									
Beryllium	µg/L									
Boron	µg/L									
Cadmium	µg/L									
Chromium	µg/L									
Cobalt	µg/L									
Copper	µg/L									
Iron	µg/L									
Lead	µg/L									
Magnesium	mg/L									
Manganese	µg/L									
Mercury	µg/L									
Molybdenum	µg/L									
Nickel	µg/L									
Potassium	mg/L									
Selenium	µg/L									
Silver	µg/L									
Sodium	mg/L									
Strontium	µg/L									
Thallium	µg/L									
Tin	µg/L									
Titanium	µg/L									
Vanadium	µg/L									
Zinc	µg/L									

TABLE 8
MASTER SECOND PASS RO PLUS ION-EXCHANGE POLISHING SPREADSHEET

General Sample Information		Units	06/19/02	06/20/02	06/21/02	06/24/02	06/25/02	06/26/02	06/27/02	06/28/02
Date	N/A		USF-1	USF-2	USF-3	USF-4	USF-5	USF-6	USF-7	USF-8
Sample No.	N/A		Composite	Composite	Composite	Composite	Composite	Composite	Composite	Composite
Sample Type	N/A		ECT	ECT	ECT	ECT	ECT	ECT	ECT	ECT
Samplers	N/A		Benchmark	Benchmark	Benchmark	Benchmark	Benchmark	Benchmark	Benchmark	Benchmark
Laboratory	N/A									
Organic Compounds										
Benzene	µg/L									
Benzyl Alcohol	µg/L									
Bromodichloromethane	µg/L									
Bromoform	µg/L									
Bromomethane	µg/L									
Carbon Tetrachloride	µg/L									
Chlordane	µg/L									
Chlorobenzene	µg/L									
Chloroethane	µg/L									
Chloroform	µg/L									
Chloromethane	µg/L									
2-Chlorovinyl Ether	µg/L									
o-Cresol	µg/L									
m-Cresol	µg/L									
p-Cresol	µg/L									
Cresol	µg/L									
Cyanide	µg/L									
2-4-D	µg/L									
Dibromochloromethane	µg/L									
1,2-Dichlorobenzene	µg/L									
1,3-Dichlorobenzene	µg/L									
1,4-Dichlorobenzene	µg/L									
1,2-Dichloroethane	µg/L									
1,1-Dichloroethylene	µg/L									
1,2-Dichloroethylene	µg/L									
trans-1,2-Dichloroethene	µg/L									
2,4-Dinitrotoluene	µg/L									
1,2-Dichloropropane	µg/L									
cis-1,3-Dichloropropene	µg/L									
trans-1,3-Dichloropropene	µg/L									
Endrin	µg/L									
Ethylbenzene	µg/L									
Heptachlor (and its epoxide)	µg/L									
Hexachlorobenzene	µg/L									
Hexchlorobutadiene	µg/L									
Hexachloroethane	µg/L									
Lindane	µg/L									
Methoxychlor	µg/L									
Methyl Ethyl Ketone	µg/L									
Methylene blue active substances	mg/L									
Methylene chloride	µg/L									
Nitrobenzene	µg/L									
Pentachlorophenol	µg/L									
Phenol	µg/L									
Pyridine	µg/L									
Tetrachloroethylene	µg/L									
Toluene	µg/L									
Total Organic Carbon	mg/L									
Toxaphene	µg/L									
1,1,2-Trichloroethane	µg/L									
Trichloroethylene	µg/L									
Trichlorofluoromethane	µg/L									
2,4,5-Trichlorophenol	µg/L									
2,4,6-Trichlorophenol	µg/L									
2,4,5-TP (Silvex)	µg/L									
Vinyl Chloride	µg/L									
m,p-Xylene	µg/L									
o-Xylene	µg/L									

TABLE 8
MASTER SECOND PASS RO PLUS ION-EXCHANGE POLISHING SPREADSHEET

General Sample Information		Units	07/26/02	07/27/02	07/29/02	730/02	07/31/02	08/01/02	08/02/02	08/05/02	08/06/02
Date		N/A	USF-9	USF-10	USF-11	USF-12	USF-13	USF-14	USF-15	USF-16	USF-17
Sample No.		N/A	Composite	Composite	Composite	Composite	Composite	Composite	Composite	Composite	Composite
Sample Type		N/A	ECT	ECT	ECT	ECT	ECT	ECT	ECT	ECT	ECT
Samplers		N/A	Benchmark	Benchmark	Benchmark	Benchmark	Benchmark	Benchmark	Benchmark	Benchmark	Benchmark
Laboratory		N/A									
Field Physio-Chemical Indicators											
Dissolved Oxygen	mg/L		3.40	4.21	4.95	4.25	4.06	5.10	6.86	30.80	31.19
pH	std. units		9.37	8.12	8.19	8.41	8.75	8.11	7.56	8.5	7.79
Specific Conductance	µS/cm		38	2	8	7	19	49	55	12	31
Temperature	°C		28.08	28.78	29.86	27.56	28.54	30.46	26.67	30.80	31.19
Turbidity	NTU										
Nutrients											
Ammonia Nitrogen	mg/L		0.42	0.05	0.3	0.16	0.44	1.09	0.96	0.13	0.09
Nitrate Nitrogen	mg/L										
Nitrate + Nitrite	mg/L		<0.01	<0.01	<0.01		<0.01	<0.01	0.05	0.02	<0.01
Total Kjeldahl Nitrogen	mg/L		0.76	0.31	0.7		0.801	1.84	1.54	1.21	0.73
Total Nitrogen	mg/L		0.76	0.76	0.7		0.801	1.84	1.54	1.23	0.74
Ortho-Phosphate	mg/L										
Total Phosphorus	mg/L		0.01	<0.01	0.01	0.01	0.03	0.92	0.40	0.01	0.03
Minerals - Suspended and Dissolved											
Bromide	mg/L										
Calcium	mg/L										
Chloride	mg/L										
Fluoride	mg/L		0.351	<0.02	0.49	0.347	0.946	3.73	5.73	0.817	1.62
Silica	mg/L										
Sulfate	mg/L										
Sulfite	mg/L										
Water Quality Indicators											
Alkalinity	mg/L										
Biological Oxygen Demand	mg/L										
Chemical Oxygen Demand	mg/L										
Color	PCU										
Total Dissolved Solids	mg/L		24	42.5	46.1	<2.5		36	8	28	8
Total Hardness	mg/L										
Total Suspended Solids	mg/L								<1.0	<1.0	<1.0
Radiological											
Gross Alpha Radiation	pCi/L										
Gross Beta Radiation	pCi/L										
Radium 226	pCi/L										
Radium 228	pCi/L										
Metals - Suspended and Dissolved											
Aluminum	µg/L										
Antimony	µg/L										
Arsenic	µg/L										
Barium	µg/L										
Beryllium	µg/L										
Boron	µg/L										
Cadmium	µg/L										
Chromium	µg/L										
Cobalt	µg/L										
Copper	µg/L										
Iron	µg/L										
Lead	µg/L										
Magnesium	mg/L										
Manganese	µg/L										
Mercury	µg/L										
Molybdenum	µg/L										
Nickel	µg/L										
Potassium	mg/L										
Selenium	µg/L										
Silver	µg/L										
Sodium	mg/L										
Strontium	µg/L										
Thallium	µg/L										
Tin	µg/L										
Titanium	µg/L										
Vanadium	µg/L										
Zinc	µg/L										

TABLE 8
MASTER SECOND PASS RO PLUS ION-EXCHANGE POLISHING SPREADSHEET

General Sample Information	Units									
Date	N/A	07/26/02	07/27/02	07/29/02	730/02	07/31/02	08/01/02	08/02/02	08/05/02	08/06/02
Sample No.	N/A	USF-9	USF-10	USF-11	USF-12	USF-13	USF-14	USF-15	USF-16	USF-17
Sample Type	N/A	Composite	Composite	Composite	Composite	Composite	Composite	Composite	Composite	Composite
Samplers	N/A	ECT	ECT	ECT	ECT	ECT	ECT	ECT	ECT	ECT
Laboratory	N/A	Benchmark	Benchmark	Benchmark	Benchmark	Benchmark	Benchmark	Benchmark	Benchmark	Benchmark
Organic Compounds										
Benzene	µg/L									
Benzyl Alcohol	µg/L									
Bromodichloromethane	µg/L									
Bromoform	µg/L									
Bromomethane	µg/L									
Carbon Tetrachloride	µg/L									
Chlordane	µg/L									
Chlorobenzene	µg/L									
Chloroethane	µg/L									
Chloroform	µg/L									
Chloromethane	µg/L									
2-Chlorovinyl Ether	µg/L									
o-Cresol	µg/L									
m-Cresol	µg/L									
p-Cresol	µg/L									
Cresol	µg/L									
Cyanide	µg/L									
2-4-D	µg/L									
Dibromochloromethane	µg/L									
1,2-Dichlorobenzene	µg/L									
1,3-Dichlorobenzene	µg/L									
1,4-Dichlorobenzene	µg/L									
1,2-Dichloroethane	µg/L									
1,1-Dichloroethylene	µg/L									
1,2-Dichloroethylene	µg/L									
trans-1,2-Dichloroethene	µg/L									
2,4-Dinitrotoluene	µg/L									
1,2-Dichloropropane	µg/L									
cis-1,3-Dichloropropene	µg/L									
trans-1,3-Dichloropropene	µg/L									
Endrin	µg/L									
Ethylbenzene	µg/L									
Heptachlor (and its epoxide)	µg/L									
Hexachlorobenzene	µg/L									
Hexchlorobutadiene	µg/L									
Hexachloroethane	µg/L									
Lindane	µg/L									
Methoxychlor	µg/L									
Methyl Ethyl Ketone	µg/L									
Methylene blue active substances	mg/L									
Methylene chloride	µg/L									
Nitrobenzene	µg/L									
Pentachlorophenol	µg/L									
Phenol	µg/L									
Pyridine	µg/L									
Tetrachloroethylene	µg/L									
Toluene	µg/L									
Total Organic Carbon	mg/L									
Toxaphene	µg/L									
1,1,2-Trichloroethane	µg/L									
Trichloroethylene	µg/L									
Trichlorofluoromethane	µg/L									
2,4,5-Trichlorophenol	µg/L									
2,4,6-Trichlorophenol	µg/L									
2,4,5-TP (Silvex)	µg/L									
Vinyl Chloride	µg/L									
m,p-Xylene	µg/L									
o-Xylene	µg/L									

TABLE 8
MASTER SECOND PASS RO PLUS ION-EXCHANGE POLISHING SPREADSHEET

General Sample Information		Units	08/07/02	08/08/02	08/09/02	08/13/02	08/14/02	08/15/02	08/16/02	09/20/02
Date		N/A	USF-18	USF-19	USF-20	USF-21	USF-22	USF-23	USF-24	USF-25
Sample No.		N/A	Composite	Composite	Composite	Composite	Composite	Composite	Composite	Composite
Sample Type		N/A	ECT	ECT	ECT	ECT	ECT	ECT	ECT	ECT
Samplers		N/A	Benchmark	Benchmark	Benchmark	Benchmark	Benchmark	Benchmark	Benchmark	Benchmark
Laboratory		N/A								
Field Physio-Chemical Indicators										
Dissolved Oxygen	mg/L		4.76	5.25	4.00	5.79	5.00	4.72	4.55	N/A
pH	std. units		7.95	7.25	8.16	7.87	8.48	7.99	7.79	N/A
Specific Conductance	µS/cm		35	21	26	36	43	28	41	N/A
Temperature	°C		30.30	28.20	28.53	28.60	29.17	27.81	28.52	N/A
Turbidity	NTU									
Nutrients										
Ammonia Nitrogen	mg/L		0.71	0.51	0.54	0.46	0.9	0.51	0.89	0.13
Nitrate Nitrogen	mg/L									
Nitrate + Nitrite	mg/L		<0.01	<0.01	0.16	0.01	0.06	0.03	0.02	0.050
Total Kjeldahl Nitrogen	mg/L		1.02	0.54	0.72	1.09	1.82	1.36	1.53	1.810
Total Nitrogen	mg/L		1.03	0.55	0.88	1.1	1.88	1.39	1.55	1.86
Ortho-Phosphate	mg/L									
Total Phosphorus	mg/L		0.07	0.07	<0.01	0.06	0.04	0.05	0.07	0.69
Minerals - Suspended and Dissolved										
Bromide	mg/L									
Calcium	mg/L									5.02
Chloride	mg/L									0.656
Fluoride	mg/L		1.86	1.5	1.13	2.39	2.24	1.58	2.6	2.22
Silica	mg/L									81.0
Sulfate	mg/L									4.27
Sulfite	mg/L									
Water Quality Indicators										
Alkalinity	mg/L									36.8
Biological Oxygen Demand	mg/L									<2
Chemical Oxygen Demand	mg/L									<10
Color	PCU									5
Total Dissolved Solids	mg/L		32	4	16	24	20	<2.5	40	
Total Hardness	mg/L									2.3
Total Suspended Solids	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Radiological										
Gross Alpha Radiation	pCi/L									0.2
Gross Beta Radiation	pCi/L									
Radium 226	pCi/L									0.4
Radium 228	pCi/L									0.4
Metals - Suspended and Dissolved										
Aluminum	µg/L									472
Antimony	µg/L									
Arsenic	µg/L									1.03
Barium	µg/L									<2
Beryllium	µg/L									<0.2
Boron	µg/L									<0.1
Cadmium	µg/L									1.7
Chromium	µg/L									
Cobalt	µg/L									
Copper	µg/L									<1
Iron	µg/L									58
Lead	µg/L									<1
Magnesium	mg/L									0.008
Manganese	µg/L									1.31
Mercury	µg/L									
Molybdenum	µg/L									
Nickel	µg/L									<1.23
Potassium	mg/L									0.386
Selenium	µg/L									2.59
Silver	µg/L									0.2
Sodium	mg/L									
Strontium	µg/L									
Thallium	µg/L									
Tin	µg/L									
Titanium	µg/L									
Vanadium	µg/L									
Zinc	µg/L									8

TABLE 8
MASTER SECOND PASS RO PLUS ION-EXCHANGE POLISHING SPREADSHEET

General Sample Information		Units	08/07/02	08/08/02	08/09/02	08/13/02	08/14/02	08/15/02	08/16/02	09/20/02
Date	N/A		USF-18	USF-19	USF-20	USF-21	USF-22	USF-23	USF-24	USF-25
Sample No.	N/A		Composite	Composite	Composite	Composite	Composite	Composite	Composite	Composite
Sample Type	N/A		ECT	ECT	ECT	ECT	ECT	ECT	ECT	ECT
Samplers	N/A		Benchmark	Benchmark	Benchmark	Benchmark	Benchmark	Benchmark	Benchmark	Benchmark
Laboratory	N/A									
Organic Compounds										
Benzene	µg/L									
Benzyl Alcohol	µg/L									
Bromodichloromethane	µg/L									
Bromoform	µg/L									
Bromomethane	µg/L									
Carbon Tetrachloride	µg/L									
Chlordane	µg/L									
Chlorobenzene	µg/L									
Chloroethane	µg/L									
Chloroform	µg/L									
Chloromethane	µg/L									
2-Chlorovinyl Ether	µg/L									
o-Cresol	µg/L									
m-Cresol	µg/L									
p-Cresol	µg/L									
Cresol	µg/L									
Cyanide	µg/L									
2-4-D	µg/L									
Dibromochloromethane	µg/L									
1,2-Dichlorobenzene	µg/L									
1,3-Dichlorobenzene	µg/L									
1,4-Dichlorobenzene	µg/L									
1,2-Dichloroethane	µg/L									
1,1-Dichloroethylene	µg/L									
1,2-Dichloroethylene	µg/L									
trans-1,2-Dichloroethene	µg/L									
2,4-Dinitrotoluene	µg/L									
1,2-Dichloropropane	µg/L									
cis-1,3-Dichloropropene	µg/L									
trans-1,3-Dichloropropene	µg/L									
Endrin	µg/L									
Ethylbenzene	µg/L									
Heptachlor (and its epoxide)	µg/L									
Hexachlorobenzene	µg/L									
Hexchlorobutadiene	µg/L									
Hexachloroethane	µg/L									
Lindane	µg/L									
Methoxychlor	µg/L									
Methyl Ethyl Ketone	µg/L									
Methylene blue active substances	mg/L									
Methylene chloride	µg/L									
Nitrobenzene	µg/L									
Pentachlorophenol	µg/L									
Phenol	µg/L									
Pyridine	µg/L									
Tetrachloroethylene	µg/L									
Toluene	µg/L									
Total Organic Carbon	mg/L									<0.3
Toxaphene	µg/L									
1,1,2-Trichloroethane	µg/L									
Trichloroethylene	µg/L									
Trichlorofluoromethane	µg/L									
2,4,5-Trichlorophenol	µg/L									
2,4,6-Trichlorophenol	µg/L									
2,4,5-TP (Silvex)	µg/L									
Vinyl Chloride	µg/L									
m,p-Xylene	µg/L									
o-Xylene	µg/L									

Table 9
Ammonia Loading
Emergency Order No. 02-1054
Piney Point Phosphates Complex

Date	Calculated Flow @ 003	Ammonia @ 003 (mg/L)	Total Ammonia (lb/day)
1-Oct-02	248,500	1.10	2.28
2-Oct-02	187,500	<0.10	0.16
3-Oct-02	22,850	<0.10	0.02
4-Oct-02	0	<0.10	0.00
5-Oct-02	79,820	0.20	0.13
6-Oct-02	124,840	<0.10	0.10
7-Oct-02	185,840	<0.10	0.16
8-Oct-02	248,140	<0.10	0.21
9-Oct-02	304,920	<0.10	0.25
10-Oct-02	373,110	<0.10	0.31
11-Oct-02	384,490	<0.10	0.32
12-Oct-02	296,730	0.15	0.37
13-Oct-02	326,850	0.17	0.46
14-Oct-02	447,310	<0.10	0.37
15-Oct-02	488,700	<0.10	0.41
16-Oct-02	439,390	<0.10	0.37
17-Oct-02	392,330	<0.10	0.33
18-Oct-02	538,640	<0.10	0.45
19-Oct-02	565,550	<0.10	0.47
20-Oct-02	553,650	<0.10	0.46
21-Oct-02	613,070	<0.10	0.51
22-Oct-02	546,260	0.61	2.78
23-Oct-02	398,000	0.26	0.86
24-Oct-02	545,570	<0.10	0.46
25-Oct-02	659,510	<0.10	0.55
26-Oct-02	696,700	0.10	0.58
27-Oct-02	656,060	0.30	1.64
28-Oct-02	629,190	0.33	1.73
29-Oct-02	687,990	0.89	5.11
30-Oct-02	709,530	0.21	1.24
31-Oct-02	544,230	<0.10	0.45
1-Nov-02	493,990	<0.10	0.41
2-Nov-02	609,490	<0.10	0.51
3-Nov-02	488,320	<0.10	0.41
4-Nov-02	411,370	<0.10	0.34
5-Nov-02	550,120	<0.10	0.46
6-Nov-02	575,430	<0.10	0.48
7-Nov-02	666,980	<0.10	0.56
8-Nov-02	656,390	<0.10	0.55
9-Nov-02	679,080	0.368	2.09
10-Nov-02	526,860	0.255	1.12
11-Nov-02	474,360	0.759	3.00
12-Nov-02	597,120	<0.10	0.50
13-Nov-02	587,150	0.185	0.91
14-Nov-02	368,160	0.340	1.04
15-Nov-02	529,710	0.200	0.88
16-Nov-02	525,610	<0.10	0.44
17-Nov-02	502,700	<0.10	0.42
18-Nov-02	543,140	<0.10	0.45

Table 9
Ammonia Loading
Emergency Order No. 02-1054
Piney Point Phosphates Complex

Date	Calculated Flow @ 003	Ammonia @ 003 (mg/L)	Total Ammonia (lb/day)
1-Oct-02	248,500	1.10	2.28
19-Nov-02	589,860	<0.10	0.49
20-Nov-02	536,090	<0.10	0.45
21-Nov-02	502,430	<0.10	0.42
22-Nov-02	554,660	<0.10	0.46
23-Nov-02	479,480	<0.10	0.40
24-Nov-02	553,820	<0.10	0.46
25-Nov-02	608,770	<0.10	0.51
26-Nov-02	206,460	0.31	0.53
27-Nov-02	305,640	0.16	0.41
28-Nov-02	442,990	0.29	1.07
29-Nov-02	361,720	<0.10	0.30
30-Nov-02	434,930	<0.10	0.36
1-Dec-02	479,740	<0.10	0.40
2-Dec-02	498,950	<0.10	0.42
3-Dec-02	480,640	0.34	1.36
4-Dec-02	496,890	0.14	0.58
5-Dec-02	409,150	0.25	0.85
6-Dec-02	415,960	0.10	0.35
7-Dec-02	447,480	0.15	0.56
8-Dec-02	509,800	0.16	0.68
9-Dec-02	534,380	0.14	0.62
10-Dec-02	599,540	0.774	3.87
11-Dec-02	632,420	0.14	0.74
12-Dec-02	473,290	0.21	0.83
13-Dec-02	389,020	<0.10	0.32
14-Dec-02	244,810	<0.10	0.20
15-Dec-02	306,870	<0.10	0.26
16-Dec-02	293,330	<0.10	0.24
17-Dec-02	269,200	0.41	0.92
18-Dec-02	288,040	0.36	0.87
19-Dec-02	250,100	<0.10	0.21
20-Dec-02	279,660	<0.10	0.23
21-Dec-02	213,590	<0.10	0.18
22-Dec-02	0	<0.10	0.00
23-Dec-02	195,580	<0.10	0.16
24-Dec-02	199,500	<0.10	0.17
25-Dec-02	0	N/A	N/A
26-Dec-02	443,370	1.17	4.33
27-Dec-02	TBR	16.4	TBR
28-Dec-02	858,060	0.1	0.72
29-Dec-02	999,140	10.4	86.71
30-Dec-02	412,760	10.5	36.16
31-Dec-02	945,710	8.8	69.76
1-Jan-03	720,000	21.4	128.57
2-Jan-03	994,746	27.5	228.26
3-Jan-03	1,036,390	7.5	64.51
4-Jan-03	852,240	14.8	105.25
5-Jan-03	649,159	15.7	85.04

Table 9
Ammonia Loading
Emergency Order No. 02-1054
Piney Point Phosphates Complex

Date	Calculated Flow @ 003	Ammonia @ 003 (mg/L)	Total Ammonia (lb/day)
1-Oct-02	248,500	1.10	2.28
6-Jan-03	378,460	0.3	0.79
7-Jan-03	630,890	0.8	4.35
8-Jan-03	712,590	0.1	0.59
9-Jan-03	595,760	14.8	73.57
10-Jan-03	750,172	25.3	158.37
11-Jan-03	882,259	25.7	189.20
12-Jan-03	1,041,826	6.8	59.11
13-Jan-03	1,050,846	38.1	334.08
14-Jan-03	1,193,746	39.1	389.48
15-Jan-03	1,389,236	36.7	425.44
16-Jan-03	1,308,609	27.5	300.29
17-Jan-03	1,512,141	38.1	480.74
18-Jan-03	2,159,415	59.0	1063.12
19-Jan-03	2,264,185	103.0	1946.00
20-Jan-03	1,943,656	132.5	2148.96
21-Jan-03	1,377,517	139.0	1597.73
22-Jan-03	1,384,235	92.0	1062.65
23-Jan-03	1,952,102	122.0	1987.26
24-Jan-03	1,823,402	91.4	1390.66
25-Jan-03	1,236,430	86.1	888.31
26-Jan-03	1,297,516	88.6	959.27
27-Jan-03	1,572,420	96.6	1267.47
28-Jan-03	1,151,580	100.3	963.80
29-Jan-03	1,918,340	114.5	1832.84
30-Jan-03	1,780,560	140.5	2087.50
31-Jan-03	1,315,080	123.0	1349.74
1-Feb-03	882,430	74.5	548.57
2-Feb-03	1,793,480	105.5	1578.85
3-Feb-03	1,527,370	89.7	1143.22
4-Feb-03	1,704,800	94.1	1338.62
5-Feb-03	1,791,070	89.5	1337.61
6-Feb-03	1,911,250	74.0	1180.16
7-Feb-03	1,916,110	67.3	1076.04
8-Feb-03	2,181,670	73.4	1336.22
9-Feb-03	2,289,240	59.5	1136.58
10-Feb-03	1,507,140	51.1	642.64
11-Feb-03	1,920,500	40.9	655.44
12-Feb-03	2,442,750	61.8	1259.68
13-Feb-03	2,030,180	68.6	1162.12
14-Feb-03	2,114,270	59.3	1046.18
15-Feb-03	1,722,960	50.3	723.16
16-Feb-03	1,771,500	34.7	512.94
17-Feb-03	2,101,620	40.4	708.48
18-Feb-03	1,729,640	40.5	584.53
19-Feb-03	1,754,679	23.6	345.54
20-Feb-03	2,228,580	26.8	498.37
21-Feb-03	1,950,609	34.1	555.03
22-Feb-03	1,868,127	26.0	405.30

Table 9
Ammonia Loading
Emergency Order No. 02-1054
Piney Point Phosphates Complex

Date	Calculated Flow @ 003	Ammonia @ 003 (mg/L)	Total Ammonia (lb/day)
1-Oct-02	248,500	1.10	2.28
23-Feb-03	1,772,551	12.1	178.97
24-Feb-03	1,815,662	10.3	156.05
25-Feb-03	1,803,500	8.6	128.97
26-Feb-03	2,107,164	6.7	118.51
27-Feb-03	1,373,742	17.9	205.19
28-Feb-03	2,220,044	10.4	192.66
1-Mar-03	2,275,182	13.1	248.70
2-Mar-03	2,579,455	14.1	303.49
3-Mar-03	2,039,021	14.2	241.60
4-Mar-03	2,446,632	17.6	359.31
5-Mar-03	2,416,370	15.8	318.58
6-Mar-03	2,087,822	19.7	343.20
7-Mar-03	2,529,845	12.5	263.87
8-Mar-03	2,205,481	12.1	222.68
9-Mar-03	2,037,482	11.8	200.62
10-Mar-03	2,471,916	11.2	231.02
11-Mar-03	2,263,325	9.4	176.96
12-Mar-03	951,092	12.4	98.41
13-Mar-03	1,879,497	12.9	202.31
14-Mar-03	2,366,730	9.8	193.34
15-Mar-03	1,984,490	13.8	228.52
16-Mar-03	2,088,370	13.9	242.22
17-Mar-03	2,525,872	18.8	396.24
18-Mar-03	2,172,533	16.5	299.12
19-Mar-03	1,977,235	15.1	249.13
20-Mar-03	1,970,725	9.7	159.68
21-Mar-03	2,502,039	7.8	162.64
22-Mar-03	1,964,884	13.2	216.42
23-Mar-03	2,719,390	19.6	444.75
24-Mar-03	2,791,657	31.0	722.13
25-Mar-03	2,607,773	32.0	696.33
26-Mar-03	2,409,113	27.7	556.84
27-Mar-03	1,880,657	21.7	340.54
28-Mar-03	1,469,303	25.9	317.54
29-Mar-03	2,087,851	22.5	391.99
30-Mar-03	2,330,170	27.7	538.59
31-Mar-03	1,656,878	20.8	287.57
1-Apr-03	1,455,890	15.3	185.87
2-Apr-03	1,960,680	19.7	322.30
3-Apr-03	1,679,124	17.5	245.20
4-Apr-03	1,981,397	12.8	211.63
5-Apr-03	1,834,807	12.7	194.44
6-Apr-03	1,769,853	11.0	162.45
7-Apr-03	1,471,520	8.4	103.39
8-Apr-03	2,100,169	7.5	131.61
9-Apr-03	1,904,809	10.0	158.31
10-Apr-03	1,341,633	10.3	115.31
11-Apr-03	2,174,650	5.4	97.99

Table 9
Ammonia Loading
Emergency Order No. 02-1054
Piney Point Phosphates Complex

Date	Calculated Flow @ 003	Ammonia @ 003 (mg/L)	Total Ammonia (lb/day)
1-Oct-02	248,500	1.10	2.28
12-Apr-03	2,176,286	4.9	88.98
13-Apr-03	2,100,154	9.1	159.82
14-Apr-03	1,673,532	9.0	125.40
15-Apr-03	2,008,619	10.3	172.63
16-Apr-03	2,362,689	9.7	191.24
17-Apr-03	2,192,894	9.8	179.87
18-Apr-03	1,968,657	12.2	200.41
19-Apr-03	2,092,933	13.7	239.26
20-Apr-03	2,534,596	9.5	201.56
21-Apr-03	2,412,284	12.6	253.62
22-Apr-03	1,459,663	12.4	151.03
23-Apr-03	1,483,514	13.9	172.07
24-Apr-03	1,673,001	14.7	205.21
25-Apr-03	1,882,559	16.3	256.05
26-Apr-03	2,046,319	19.1	326.14
27-Apr-03	1,689,752	18.8	265.08
28-Apr-03	1,433,578	17.6	210.54
29-Apr-03	1,930,200	13.7	220.66
30-Apr-03	1,654,262	15.7	216.72
1-May-03	1,930,730	19.5	314.16
2-May-03	1,930,887	14.7	236.85
3-May-03	1,695,074	16.3	230.55
4-May-03	1,645,748	15.7	215.60
5-May-03	1,303,101	17.6	191.37
6-May-03	1,171,124	16.2	158.31
7-May-03	1,834,166	20.4	312.22
8-May-03	1,714,300	21.3	304.69
9-May-03	1,568,680	24.7	323.31
10-May-03	1,586,040	27.1	358.65
11-May-03	1,312,130	21.8	238.69
12-May-03	1,095,270	19.6	179.13
13-May-03	1,474,802	25.0	307.66
14-May-03	1,473,755	28.4	349.25
15-May-03	1,581,378	26.8	353.64
16-May-03	1,570,320	21.3	279.10
17-May-03	1,478,042	26.8	330.53
18-May-03	1,796,389	21.8	326.78
19-May-03	1,496,510	19.7	246.00
20-May-03	1,254,800	15.3	160.20
21-May-03	1,305,411	16.5	179.73
22-May-03	1,370,216	17.1	195.51
23-May-03	1,011,089	16.8	141.74
24-May-03	1,587,900	27.1	359.08
25-May-03	1,665,640	26.9	373.87
26-May-03	1,574,675	25.5	335.06
27-May-03	1,308,733	19.1	208.58
28-May-03	1,437,160	18.8	225.45
29-May-03	1,275,042	20.3	215.98

Table 9
Ammonia Loading
Emergency Order No. 02-1054
Piney Point Phosphates Complex

Date	Calculated Flow @ 003	Ammonia @ 003 (mg/L)	Total Ammonia (lb/day)
1-Oct-02	248,500	1.10	2.28
30-May-03	1,385,015	16.6	191.85
31-May-03	1,493,115	15.6	194.36
1-Jun-03	1,931,609	21.2	341.70
2-Jun-03	2,055,067	16.2	277.80
3-Jun-03	1,708,947	15.9	226.73
4-Jun-03	1,288,992	8.7	93.90
5-Jun-03	1,510,738	11.9	150.01
6-Jun-03	1,800,800	11.8	177.31
7-Jun-03	1,862,250	15.5	240.86
8-Jun-03	1,817,490	12.9	195.64
9-Jun-03	1,604,430	9.9	132.27
10-Jun-03	1,501,932	10.7	134.10
11-Jun-03	1,790,400	18.4	274.89
12-Jun-03	1,896,400	18.2	288.00
13-Jun-03	1,826,958	13.3	202.76
14-Jun-03	1,968,031	14.9	244.69
15-Jun-03	811,691	10.1	68.41
16-Jun-03	1,960,809	14.4	235.61
17-Jun-03	1,052,393	11.3	99.23
18-Jun-03	1,894,646	10.5	166.00
19-Jun-03	2,476,870	10.8	223.21
20-Jun-03	1,966,902	14.4	236.34
21-Jun-03	1,696,800	20.0	283.17
22-Jun-03	1,838,300	20.1	308.32
23-Jun-03	2,032,900	15.6	264.63
24-Jun-03	1,958,215	12.6	205.88
25-Jun-03	1,608,373	13.6	182.52
26-Jun-03	1,005,940	11.8	99.05
27-Jun-03	1,540,672	12.1	155.56
28-Jun-03	2,143,650	15.4	275.47
29-Jun-03	2,176,748	13.3	241.58
30-Jun-03	2,337,420	13.8	269.16
1-Jul-03	1,482,310	13.9	171.93
2-Jul-03	1,314,570	15.1	165.64
3-Jul-03	2,021,820	0.0	0.00
4-Jul-03	1,280,090	13.8	147.41
5-Jul-03	600,820	8.1	40.66
6-Jul-03	374,750	2.0	6.19
7-Jul-03	398,400	0.2	0.64
8-Jul-03	347,110	0.4	1.16
9-Jul-03	80,870	0.1	0.08
10-Jul-03	131,720	0.4	0.49
11-Jul-03	1,237,500	0.3	3.02
12-Jul-03	1,607,610	22.5	301.83
13-Jul-03	2,137,050	17.4	310.28
14-Jul-03	1,523,350	21.2	269.48
15-Jul-03	1,704,030	22.1	314.24
16-Jul-03	1,700,600	19.1	271.04

Table 9
Ammonia Loading
Emergency Order No. 02-1054
Piney Point Phosphates Complex

Date	Calculated Flow @ 003	Ammonia @ 003 (mg/L)	Total Ammonia (lb/day)
1-Oct-02	248,500	1.10	2.28
17-Jul-03	503,870	16.2	68.11
18-Jul-03	246,310	0.9	1.80
19-Jul-03	546,350	0.7	3.19
20-Jul-03	543,170	0.8	3.54
21-Jul-03	532,260	0.2	0.95
22-Jul-03	465,290	0.2	0.61
23-Jul-03	501,210	0.1	0.42
24-Jul-03	513,840	0.1	0.43
25-Jul-03	502,660	0.2	0.93
26-Jul-03	533,000	0.4	1.56
27-Jul-03	464,570	0.2	0.93
28-Jul-03	528,380	0.5	2.07
29-Jul-03	532,040	0.4	1.76
30-Jul-03	496,720	0.2	0.79
31-Jul-03	465,740	0.1	0.39
1-Aug-03	452,270	1.4	5.36
2-Aug-03	496,130	0.7	2.84
3-Aug-03	580,140	0.4	2.00
4-Aug-03	548,110	0.7	3.19
5-Aug-03	556,120	0.5	2.22
6-Aug-03	474,680	0.6	2.53
7-Aug-03	543,060	0.3	1.42
8-Aug-03	562,840	0.2	1.16
9-Aug-03	546,720	0.3	1.20
10-Aug-03	578,970	0.4	1.88
11-Aug-03	486,850	0.3	1.19
12-Aug-03	690,580	0.5	3.12
13-Aug-03	552,290	0.6	2.94
14-Aug-03	583,360	0.6	2.98
15-Aug-03	596,550	0.6	3.14
16-Aug-03	717,320	0.8	4.81
17-Aug-03	599,560	0.8	4.06
18-Aug-03	611,000	1.0	4.96
19-Aug-03	626,410	0.8	4.37
20-Aug-03	652,880	0.8	4.14
21-Aug-03	662,860	1.0	5.75
22-Aug-03	622,615	0.9	4.57
23-Aug-03	622,615	1.2	6.18
24-Aug-03	546,250	1.2	5.33
25-Aug-03	655,790	0.9	4.94
26-Aug-03	803,780	0.6	4.28
27-Aug-03	781,230	0.9	6.07
28-Aug-03	596,320	0.9	4.43
29-Aug-03	633,520	0.7	3.54
30-Aug-03	557,160	0.8	3.65
31-Aug-03	620,030	1.0	5.23
1-Sep-03	622,860	0.7	3.41
2-Sep-03	602,840	0.7	3.30

Table 9
Ammonia Loading
Emergency Order No. 02-1054
Piney Point Phosphates Complex

Date	Calculated Flow @ 003	Ammonia @ 003 (mg/L)	Total Ammonia (lb/day)
1-Oct-02	248,500	1.10	2.28
3-Sep-03	561,500	0.7	3.50
4-Sep-03	579,040	0.7	3.40
5-Sep-03	1,997,120	0.8	13.08
6-Sep-03	2,180,810	0.8	15.29
7-Sep-03	2,776,220	9.8	226.33
8-Sep-03	1,530,950	19.4	247.83
9-Sep-03	495,200	18.9	78.10
10-Sep-03	551,460	14.6	67.18
11-Sep-03	463,030	0.9	3.49
12-Sep-03	522,610	0.8	3.56
13-Sep-03	534,190	1.2	5.39
14-Sep-03	513,550	0.8	3.26
15-Sep-03	543,330	1.0	4.67
16-Sep-03	502,340	0.6	2.65
17-Sep-03	449,790	0.6	2.11
18-Sep-03	502,720	0.7	2.84
19-Sep-03	527,600	0.7	3.23
20-Sep-03	547,450	0.9	4.18
21-Sep-03	416,680	0.9	3.23
22-Sep-03	560,140	1.2	5.47
23-Sep-03	559,950	0.5	2.28
24-Sep-03	599,790	0.3	1.59
25-Sep-03	1,225,580	0.7	7.37
26-Sep-03	2,344,650	3.2	62.80
27-Sep-03	2,718,890	7.3	166.07
28-Sep-03	531,530	13.1	58.10
29-Sep-03	737,790	2.2	13.61
30-Sep-03	642,820	0.9	5.04
Total:	426,684,105		77,501
Average per Day:	2,337,995		

Notes: mg/L = Milligrams per liter.
 lb/day = Pounds per day.

Table 10
Daily Water Quality Monitoring Results
Emergency Order No. 02-1054
Piney Point Phosphates Complex

Parameter	Visual Observations	Temperature (°C)	Turbidity (NTU)	pH (Standard Units)	Dissolved Oxygen (mg/L)	Specific Conductance (us/cm)	Ammonia (mg/L)
Station	003	003	003	003	003	003	003
1-Oct-02	CLR	27.9	2.5	6.56	6.5	92	1.10
2-Oct-02	CLR	28.7	3.7	6.01	7.2	25	<0.10
3-Oct-02	CLR	28.0	7.5	6.99	6.8	40	<0.10
4-Oct-02	CLR	28.1	6.4	6.59	7.4	87	<0.10
5-Oct-02	CLR	26.6	3.0	7.03	6.2	157	0.20
6-Oct-02	CLR	27.8	2.9	6.55	6.2	95	<0.10
7-Oct-02	CLR	26.0	2.1	6.73	6.4	107	<0.10
8-Oct-02	CLR	28.1	2.4	6.89	5.9	34	<0.10
9-Oct-02	CLR	29.8	0.6	6.73	7.0	38	<0.10
10-Oct-02	CLR	28.2	0.7	7.88	6.8	25	<0.10
11-Oct-02	CLR	28.2	0.4	8.37	5.8	33	<0.10
12-Oct-02	CLR	28.0	2.1	6.65	7.6	59	0.15
13-Oct-02	CLR	27.8	2.1	6.44	6.9	79	0.17
14-Oct-02	CLR	25.7	1.2	6.68	7.9	85	<0.10
15-Oct-02	CLR	28.2	0.7	7.83	5.4	55	<0.10
16-Oct-02	CLR	27.9	0.9	8.06	6.6	54	<0.10
17-Oct-02	CLR	26.6	0.8	6.81	7.3	63	<0.10
18-Oct-02	CLR	23.7	0.8	6.52	7.0	55	<0.10
19-Oct-02	CLR	22.0	1.6	6.74	7.4	46	<0.10
20-Oct-02	CLR	24.5	1.2	6.81	8.1	58	<0.10
21-Oct-02	CLR	25.0	1.1	6.98	6.3	75	<0.10
22-Oct-02	CLR	27.4	0.4	6.53	5.6	138	0.61
23-Oct-02	CLR	28.3	0.6	6.32	6.5	70	0.26
24-Oct-02	CLR	27.4	0.5	6.91	6.5	63	<0.10
25-Oct-02	CLR	26.1	0.6	6.92	6.0	55	<0.10
26-Oct-02	CLR	25.1	1.3	6.65	7.5	49	0.10
27-Oct-02	CLR	26.2	1.2	6.59	7.6	76	0.30
28-Oct-02	CLR	28.2	1.8	6.22	7.2	102	0.33
29-Oct-02	CLR	27.3	1.0	6.31	6.4	75.1	0.89
30-Oct-02	CLR	28.1	1.8	6.04	5.3	57.9	0.21
31-Oct-02	CLR	28.8	1.2	5.82	6.4	41.6	<0.1
1-Nov-02	CLR	24.4	0.9	6.55	6.0	73.8	<0.1
2-Nov-02	CLR	22.1	1.4	6.83	6.9	60.1	<0.1
3-Nov-02	CLR	22.5	0.9	6.41	8.3	62.2	<0.1
4-Nov-02	CLR	25.3	0.5	6.44	8.4	71.1	<0.1
5-Nov-02	CLR	24.1	0.1	6.56	6.3	69.3	<0.1
6-Nov-02	CLR	27.0	0.5	6.02	6.0	74.5	<0.1
7-Nov-02	CLR	23.9	0.5	5.50	8.8	38.8	<0.1
8-Nov-02	CLR	18.5	0.1	6.23	7.1	56.5	<0.1
9-Nov-02	CLR	22.4	1.0	6.74	7.3	44.0	0.368
10-Nov-02	CLR	24.1	0.5	6.72	6.7	47.2	0.255
11-Nov-02	CLR	26.3	0.6	6.30	5.6	86.4	0.759
12-Nov-02	CLR	26.3	1.7	5.77	5.3	65.6	<0.1
13-Nov-02	CLR	24.5	0.8	6.57	6.1	70.7	0.185
14-Nov-02	CLR	23.4	0.8	6.15	8.1	40.9	0.340
15-Nov-02	CLR	22.8	0.5	6.13	6.1	54.6	0.200

Table 10
Daily Water Quality Monitoring Results
Emergency Order No. 02-1054
Piney Point Phosphates Complex

Parameter	Visual Observations	Temperature (°C)	Turbidity (NTU)	pH (Standard Units)	Dissolved Oxygen (mg/L)	Specific Conductance (us/cm)	Ammonia (mg/L)
Station	003	003	003	003	003	003	003
16-Nov-02	CLR	22.1	1.0	7.23	7.2	65.3	<0.1
17-Nov-02	CLR	21.2	0.8	6.33	7.4	101.0	<0.1
18-Nov-02	CLR	19.6	0.7	6.18	7.9	463.0	<0.1
19-Nov-02	CLR	17.0	0.3	6.02	7.3	43.9	<0.1
20-Nov-02	CLR	20.3	0.1	5.96	7.3	42.2	<0.1
21-Nov-02	CLR	22.0	0.3	6.10	8.0	60.6	<0.1
22-Nov-02	CLR	21.4	0.1	6.06	5.9	31.8	<0.1
23-Nov-02	CLR	18.0	0.7	6.49	7.2	55.4	<0.1
24-Nov-02	CLR	17.0	0.4	6.48	6.3	87.8	<0.1
25-Nov-02	CLR	19.9	0.9	6.48	7.9	49.2	<0.1
26-Nov-02	CLR	19.2	0.4	6.36	5.9	85	0.31
27-Nov-02	CLR	19.8	0.1	7.08	6.3	140	0.16
28-Nov-02	CLR	17.0	0.1	6.53	7.2	86	0.29
29-Nov-02	CLR	18.0	0.1	6.80	7.3	82	<0.1
30-Nov-02	CLR	18.1	0.5	6.31	6.4	76	<0.1
1-Dec-02	CLR	19.1	0.6	5.92	7.4	73	<0.1
2-Dec-02	CLR	18.8	0.6	6.80	6.2	95	<0.1
3-Dec-02	CLR	15.6	0.6	6.61	7.1	86	0.34
4-Dec-02	CLR	17.4	0.7	6.69	6.3	85	0.14
5-Dec-02	CLR	21.7	1.1	6.54	6.1	85	0.25
6-Dec-02	CLR	22.7	0.9	6.38	6.6	104	0.10
7-Dec-02	CLR	16.9	0.6	6.35	8.0	96	0.15
8-Dec-02	CLR	19.3	0.8	5.82	6.6	84	0.16
9-Dec-02	CLR	21.4	0.8	6.01	7.0	57	0.14
10-Dec-02	CLR	19.4	1.3	6.72	5.7	70	0.774
11-Dec-02	CLR	21.8	2.3	6.45	6.1	80	0.14
12-Dec-02	CLR	19.5	1.8	6.45	5.7	114	0.21
13-Dec-02	CLR	21.0	2.2	6.66	6.5	155	<0.10
14-Dec-02	CLR	21.5	0.5	6.11	9.8	135	<0.10
15-Dec-02	CLR	16.8	0.6	6.17	6.1	96	<0.10
16-Dec-02	CLR	18.1	0.6	6.07	N/A	87	<0.10
17-Dec-02	CLR	17.4	0.7	6.65	N/A	85	0.41
18-Dec-02	CLR	18.4	0.1	6.54	N/A	99	0.36
19-Dec-02	CLR	19.7	0.2	6.35	N/A	86	<0.10
20-Dec-02	CLR	21.3	0.1	7.18	N/A	218	<0.10
21-Dec-02	CLR	19.5	0.5	6.19	N/A	102	<0.1
22-Dec-02	CLR	16.3	0.7	6.01	N/A	89	<0.1
23-Dec-02	CLR	16.7	0.8	6.31	N/A	85	<0.1
24-Dec-02	CLR	20.2	0.4	6.57	N/A	76	<0.1
25-Dec-02	CLR	N/A	N/A	N/A	N/A	N/A	N/A
26-Dec-02	CLR	N/A	N/A	N/A	N/A	N/A	N/A
27-Dec-02	CLR	14.1	5.2	6.71	N/A	3,034	16.4
28-Dec-02	CLR	14.7	0.7	6.46	N/A	1,362	<0.1
29-Dec-02	CLR	13.2	2.9	6.30	N/A	2,263	10.4
30-Dec-02	CLR	13.0	2.2	6.68	N/A	2,311	10.5
31-Dec-02	CLR	15.6	1.4	6.50	N/A	2,043	8.84

Table 10
Daily Water Quality Monitoring Results
Emergency Order No. 02-1054
Piney Point Phosphates Complex

Parameter	Visual Observations	Temperature (°C)	Turbidity (NTU)	pH (Standard Units)	Dissolved Oxygen (mg/L)	Specific Conductance (us/cm)	Ammonia (mg/L)
Station	003	003	003	003	003	003	003
1-Jan-03	CLR	19.3	3.7	6.81	N/A	3,274	21.4
2-Jan-03	CLR	17.4	1.3	6.94	N/A	3,342	27.5
3-Jan-03	CLR	19.8	0.4	6.77	N/A	1,474	7.46
4-Jan-03	CLR	15.1	2.4	6.03	7.5	2,317	14.8
5-Jan-03	CLR	11.9	0.5	6.61	9.4	2,123	15.7
6-Jan-03	CLR	15.5	0.6	6.59	7.7	95	0.251
7-Jan-03	CLR	15.8	0.4	6.40	7.5	107	0.827
8-Jan-03	CLR	14.9	0.9	6.55	7.2	137	<0.1
9-Jan-03	CLR	14.1	1.1	6.83	7.7	3,208	14.8
10-Jan-03	CLR	15.8	1.1	6.87	7.8	4,180	25.3
11-Jan-03	CLR	16.9	0.9	6.50	10.4	4,262	25.7
12-Jan-03	CLR	13.0	0.8	6.69	8.5	4,376	34.4
13-Jan-03	CLR	16.9	0.9	6.94	10.0	1,040	7.2
14-Jan-03	CLR	12.0	0.7	6.58	8.5	4,489	40.2
15-Jan-03	CLR	17.1	0.3	7.02	10.1	77	<0.1
16-Jan-03	CLR	16.4	0.1	6.98	9.4	695	36.7
17-Jan-03	CLR	14.4	0.0	8.20	10.2	375	27.5
18-Jan-03	CLR	9.0	0.9	6.34	9.8	3,586	38.1
19-Jan-03	CLR	8.0	0.9	6.37	9.9	3,524	59.0
20-Jan-03	CLR	11.2	0.9	6.52	8.0	4,170	103.0
21-Jan-03	CLR	16.6	0.6	7.14	9.8	1,042	132.5
22-Jan-03	CLR	19.0	8.3	6.13	8.9	70	139.0
23-Jan-03	CLR	17.5	0.3	6.58	9.7	6,090	92.0
24-Jan-03	CLR	8.9	1.1	6.72	12.4	6,780	122.0
25-Jan-03	CLR	10.3	0.9	6.59	10.5	N/S	91.4
26-Jan-03	CLR	11.5	0.8	6.43	9.2	4,640	86.1
27-Jan-03	CLR	11.2	1.0	6.11	8.8	4,192	88.6
28-Jan-03	CLR	11.2	1.1	6.58	5.3	1,350	96.6
29-Jan-03	CLR	13.7	0.9	6.62	11.1	5,120	100.3
30-Jan-03	CLR	15.6	1.6	7.28	5.5	1,010	114.5
31-Jan-03	CLR	16.9	1.1	6.83	9.9	5,720	140.5
1-Feb-03	CLR	19.0	0.9	5.54	7.1	6,350	126.0
2-Feb-03	CLR	16.5	1.0	6.70	7.3	4,300	76.0
3-Feb-03	CLR	14.3	2.4	5.78	8.3	6,900	110.0
4-Feb-03	CLR	17.2	0.8	6.63	6.6	5,010	98.1
5-Feb-03	CLR	17.8	0.9	6.60	9.8	5,050	112.0
6-Feb-03	CLR	15.3	0.8	6.49	10.4	5,180	105.0
7-Feb-03	CLR	19.2	1.6	6.58	8.7	5,540	65.6
8-Feb-03	CLR	15.9	2.1	6.72	7.2	6,270	72.6
9-Feb-03	CLR	15.1	6.5	6.50	7.5	5,840	85.7
10-Feb-03	CLR	17.6	9.0	6.30	6.5	5,570	62.3
11-Feb-03	CLR	15.9	4.1	6.57	9.5	5,730	59.4
12-Feb-03	CLR	18.8	0.9	6.73	10.4	155	42.5
13-Feb-03	CLR	13.0	5.6	6.15	12.0	4,750	65.1
14-Feb-03	CLR	13.2	6.2	6.33	11.4	4,345	70.9
15-Feb-03	CLR	15.2	1.8	6.51	8.5	4,380	65.2

Table 10
Daily Water Quality Monitoring Results
Emergency Order No. 02-1054
Piney Point Phosphates Complex

Parameter	Visual Observations	Temperature (°C)	Turbidity (NTU)	pH (Standard Units)	Dissolved Oxygen (mg/L)	Specific Conductance (us/cm)	Ammonia (mg/L)
Station	003	003	003	003	003	003	003
16-Feb-03	CLR	21.8	1.2	5.92	6.5	137.9	51.9
17-Feb-03	CLR	19.8	9.2	6.37	6.1	4,830	34.8
18-Feb-03	CLR	16.2	8.5	6.41	10.0	4,620	40.5
19-Feb-03	CLR	15.3	9.5	6.54	9.4	4,284	23.6
20-Feb-03	CLR	17.2	11.1	6.48	7.8	4,810	26.8
21-Feb-03	CLR	19.9	9.8	5.92	9.5	4,640	34.1
22-Feb-03	CLR	21.9	11.6	6.43	8.4	4,800	26.0
23-Feb-03	CLR	18.8	14.8	6.56	6.8	4,982	12.1
24-Feb-03	CLR	15.7	5.6	6.25	9.7	5,120	10.3
25-Feb-03	CLR	18.3	1.7	6.24	10.1	4,386	8.57
26-Feb-03	CLR	18.8	46.5	6.37	8.9	5,800	6.74
27-Feb-03	CLR	20.9	0.4	6.33	8.5	5,080	17.9
28-Feb-03	CLR	21.9	5.8	7.01	5.0	4,452	10.4
1-Mar-03	CLR	21.2	5.7	6.75	6.4	4,871	13.1
2-Mar-03	CLR	22.7	8.5	6.58	6.2	4,987	14.1
3-Mar-03	CLR	19.5	1.8	6.59	6.7	4,476	14.2
4-Mar-03	CLR	23.3	1.0	6.49	8.3	920	17.6
5-Mar-03	CLR	21.8	3.8	6.87	8.2	5,450	15.8
6-Mar-03	CLR	23.1	5.7	6.83	7.8	5,390	19.7
7-Mar-03	CLR	24.8	1.5	6.93	5.8	5,210	12.5
8-Mar-03	CLR	22.3	3.5	6.70	6.0	4,890	12.1
9-Mar-03	CLR	21.5	2.8	6.58	6.0	5,140	11.8
10-Mar-03	CLR	23.3	3.2	6.55	7.5	5,210	11.2
11-Mar-03	CLR	20.6	2.8	6.45	8.1	5,540	9.37
12-Mar-03	CLR	21.6	2.2	6.31	7.6	5,780	12.4
13-Mar-03	CLR	26.7	0.7	6.49	7.7	166	12.9
14-Mar-03	CLR	22.4	2.7	6.89	8.6	5,950	9.8
15-Mar-03	CLR	21.7	2.2	6.77	5.7	5,500	13.8
16-Mar-03	CLR	19.5	2.6	6.51	6.8	5,100	13.9
17-Mar-03	CLR	21.0	4.6	6.62	6.4	4,923	18.8
18-Mar-03	CLR	21.4	2.7	6.40	6.6	5,130	16.5
19-Mar-03	CLR	23.3	2.1	6.47	6.0	5,070	15.1
20-Mar-03	CLR	24.5	2.5	6.45	5.5	5,020	9.7
21-Mar-03	CLR	25.4	3.4	6.51	4.8	5,160	7.8
22-Mar-03	CLR	23.2	1.9	6.67	5.1	4,943	13.2
23-Mar-03	CLR	20.9	2.5	6.65	5.7	4,178	19.6
24-Mar-03	CLR	18.4	2.2	6.68	6.5	4,883	31.0
25-Mar-03	CLR	18.4	2.4	6.55	6.1	5,140	32.0
26-Mar-03	CLR	21.0	1.6	6.81	7.0	5,070	27.7
27-Mar-03	CLR	21.0	1.6	6.70	6.6	5,080	21.7
28-Mar-03	CLR	21.1	1.8	6.33	6.0	5,090	25.9
29-Mar-03	CLR	22.0	1.5	6.64	5.4	4,618	22.5
30-Mar-03	CLR	21.0	1.1	7.09	6.6	6.63	27.7
31-Mar-03	CLR	13.5	2.6	7.10	7.9	7,000	20.8
1-Apr-03	CLR	12.2	4.2	6.48	8.8	6,220	15.3
2-Apr-03	CLR	14.9	3.0	6.59	7.4	5,670	19.7

Table 10
Daily Water Quality Monitoring Results
Emergency Order No. 02-1054
Piney Point Phosphates Complex

Parameter	Visual Observations	Temperature (°C)	Turbidity (NTU)	pH (Standard Units)	Dissolved Oxygen (mg/L)	Specific Conductance (us/cm)	Ammonia (mg/L)
Station	003	003	003	003	003	003	003
3-Apr-03	CLR	17.7	1.8	6.48	7.6	5,160	17.5
4-Apr-03	CLR	19.9	1.5	6.39	6.6	5,010	12.8
5-Apr-03	N/A	21.1	1.8	6.64	5.6	4,909	12.7
6-Apr-03	N/A	21.9	1.2	6.52	6.2	4,768	11.0
7-Apr-03	CLR	25.2	0.7	6.31	5.6	730	8.4
8-Apr-03	CLR	24.8	1.6	6.57	5.6	4,635	7.5
9-Apr-03	CLR	23.7	1.4	6.15	5.3	6,250	10.0
10-Apr-03	CLR	19.6	1.4	6.25	6.2	5,700	10.3
11-Apr-03	N/A	18.7	0.8	6.54	6.4	902	5.4
12-Apr-03	N/A	17.9	1.2	6.51	7.2	5,050	4.9
13-Apr-03	N/A	19.0	1.4	6.76	6.4	5,920	9.1
14-Apr-03	N/A	19.8	0.7	6.63	6.8	5,770	9.0
15-Apr-03	N/A	22.4	1.7	6.67	6.4	5,650	10.3
16-Apr-03	N/A	13.8	1.5	6.70	8.5	5,290	9.7
17-Apr-03	N/A	16.0	1.0	6.54	6.9	6,250	9.8
18-Apr-03	N/A	15.2	0.9	6.34	7.4	6,240	12.2
19-Apr-03	N/A	22.1	1.4	6.54	5.5	5,420	13.7
20-Apr-03	N/A	22.5	1.5	6.59	6.4	4,180	9.5
21-Apr-03	N/A	21.7	1.5	6.64	5.5	5,760	12.6
22-Apr-03	CLR	23.2	1.0	6.66	5.6	6,130	12.4
23-Apr-03	CLR	21.5	1.7	6.36	5.1	6,370	13.9
24-Apr-03	CLR	19.9	1.3	5.88	6.1	6,690	14.7
25-Apr-03	CLR	22.1	1.1	6.69	6.1	6,680	16.3
26-Apr-03	RAIN	19.9	9.2	6.66	6.4	6,800	19.1
27-Apr-03	N/A	21.6	2.5	6.61	5.6	4,820	18.8
28-Apr-03	N/A	22.5	1.6	6.38	5.7	5,410	17.6
29-Apr-03	CLR	23.6	1.0	6.39	5.4	4,451	13.7
30-Apr-03	CLR	26.3	0.3	5.94	5.7	5,200	15.7
1-May-03	CLR	22.6	0.9	6.30	4.8	5,060	19.5
2-May-03	CLR	23.4	0.8	6.45	5.8	5,120	14.7
3-May-03	N/A	22.7	1.5	6.64	6.0	5,860	16.3
4-May-03	N/A	22.3	1.4	6.72	5.6	5,270	15.7
5-May-03	N/A	25.4	1.4	6.32	4.7	4,131	17.6
6-May-03	CLR	24.3	1.4	6.34	5.4	5,620	16.2
7-May-03	CLR	24.7	1.6	6.39	5.2	5,390	20.4
8-May-03	CLR	25.5	1.1	6.57	5.3	4,805	21.3
9-May-03	CLR	24.5	1.4	6.56	5.2	4,675	24.7
10-May-03	N/A	27.3	1.2	6.98	4.9	5,140	27.1
11-May-03	N/A	26.7	1.5	6.39	5.4	5,270	21.8
12-May-03	N/A	26.1	1.3	6.64	5.8	5,770	19.6
13-May-03	CLR	25.4	1.2	6.52	5.0	6,130	25.0
14-May-03	CLR	23.8	1.2	6.39	5.7	5,760	28.4
15-May-03	N/A	24.5	1.3	6.46	4.9	5,700	26.8
16-May-03	N/A	25.8	1.4	6.44	5.1	5,590	21.3
17-May-03	N/A	26.0	1.3	6.56	4.1	5,660	26.8
18-May-03	N/A	26.4	1.4	6.85	5.9	5,480	21.8

Table 10
Daily Water Quality Monitoring Results
Emergency Order No. 02-1054
Piney Point Phosphates Complex

Parameter	Visual Observations	Temperature (°C)	Turbidity (NTU)	pH (Standard Units)	Dissolved Oxygen (mg/L)	Specific Conductance (us/cm)	Ammonia (mg/L)
Station	003	003	003	003	003	003	003
19-May-03	N/A	25.6	1.4	6.54	4.5	6,160	19.7
20-May-03	CLR	24.7	1.2	6.54	5.1	5,570	15.3
21-May-03	CLR	23.3	0.9	6.39	5.7	6,680	16.5
22-May-03	CLR	23.3	1.0	6.49	4.6	6,810	17.1
23-May-03	CLR	23.1	2.2	6.38	5.7	6,770	16.8
24-May-03	CLR	23.6	0.0	6.58	5.5	6,460	27.1
25-May-03	CLR	22.4	1.4	6.54	5.5	6,290	26.9
26-May-03	CLR	23.8	1.5	6.59	5.4	6,130	25.5
27-May-03	CLR	25.2	1.4	7.06	5.4	5,710	19.1
28-May-03	CLR	25.2	0.9	6.59	5.0	6,200	18.8
29-May-03	CLR	24.9	0.7	6.54	5.7	6,080	20.3
30-May-03	CLR	24.0	1.1	6.82	5.2	6,100	16.6
31-May-03	N/A	24.9	1.4	6.46	5.3	5,860	15.6
1-Jun-03	N/A	25.7	1.3	6.35	4.8	5,980	21.2
2-Jun-03	N/A	26.2	0.0	6.75	4.8	6,190	16.2
3-Jun-03	CLR	25.8	1.2	6.71	4.6	5,390	15.9
4-Jun-03	CLR	24.8	0.9	6.77	5.2	5,870	8.7
5-Jun-03	CLR	25.3	1.0	6.56	5.5	5,800	11.9
6-Jun-03	CLR	24.5	2.1	6.33	4.6	5,630	11.8
7-Jun-03	N/A	26.3	1.3	6.83	4.9	5,820	15.5
8-Jun-03	N/A	26.6	1.3	6.60	5.1	5,540	12.9
9-Jun-03	N/A	27.1	0.7	6.74	4.1	5,310	9.9
10-Jun-03	CLR	26.2	1.1	6.72	4.3	5,680	10.7
11-Jun-03	CLR	24.7	0.8	6.70	5.2	6,020	18.4
12-Jun-03	CLR	26.0	0.6	6.79	5.2	4,689	18.2
13-Jun-03	CLR	24.9	0.7	6.68	5.5	5,160	13.3
14-Jun-03	N/A	27.0	1.0	6.83	5.9	4,135	14.9
15-Jun-03	N/A	27.1	1.1	6.71	4.3	5,740	10.1
16-Jun-03	N/A	25.8	1.1	6.74	4.8	6,640	14.4
17-Jun-03	CLR	25.8	0.8	6.75	4.3	4,882	11.3
18-Jun-03	CLR	25.9	1.5	6.40	5.2	5,240	10.5
19-Jun-03	CLR	23.7	2.0	6.69	5.8	5,180	10.8
20-Jun-03	CLR	24.7	1.0	6.71	5.4	4,744	14.4
21-Jun-03	N/A	24.5	1.5	6.73	5.4	5,120	20.0
22-Jun-03	N/A	25.3	1.4	6.67	4.6	5,640	20.1
23-Jun-03	N/S	N/S	N/S	N/S	N/S	N/S	15.6
24-Jun-03	CLR	22.6	3.3	6.50	5.7	4,422	12.6
25-Jun-03	CLR	24.4	1.7	6.53	5.1	4,606	13.6
26-Jun-03	CLR	24.2	1.6	6.66	5.4	4,656	11.8
27-Jun-03	CLR	24.8	1.5	6.56	4.8	4,808	12.1
28-Jun-03	N/A	25.8	1.3	6.73	5.2	4,883	15.4
29-Jun-03	N/A	25.0	1.3	6.57	5.3	4,190	13.3
30-Jun-03	N/A	26.5	1.2	6.51	4.6	4,174	13.8
1-Jul-03	CLR	25.5	1.0	6.50	3.9	4,073	13.9
2-Jul-03	CLR	26.1	1.0	6.54	4.0	4,039	15.1
3-Jul-03	CLR	N/A	N/A	N/A	N/A	N/A	0.0

Table 10
Daily Water Quality Monitoring Results
Emergency Order No. 02-1054
Piney Point Phosphates Complex

Parameter	Visual Observations	Temperature (°C)	Turbidity (NTU)	pH (Standard Units)	Dissolved Oxygen (mg/L)	Specific Conductance (us/cm)	Ammonia (mg/L)
Station	003	003	003	003	003	003	003
4-Jul-03	CLR	26.0	1.2	6.73	4.8	4,354	13.8
5-Jul-03	N/A	25.1	1.6	6.69	4.7	4,438	8.1
6-Jul-03	N/A	28.5	1.0	7.39	4.3	172	2.0
7-Jul-03	N/A	29.6	1.2	7.07	4.4	157	0.2
8-Jul-03	CLR	28.6	0.6	7.02	3.8	168	0.4
9-Jul-03	CLR	27.5	1.0	7.02	4.3	180	0.1
10-Jul-03	CLR	25.4	0.9	7.40	4.7	776	0.4
11-Jul-03	CLR	27.7	0.4	7.09	4.3	87	0.3
12-Jul-03	N/A	26.5	1.4	6.88	5.2	5,160	22.5
13-Jul-03	N/A	25.1	1.2	6.65	5.1	4,670	17.4
14-Jul-03	N/A	25.3	1.3	6.67	4.6	4,748	21.2
15-Jul-03	CLR	25.1	1.3	6.68	4.4	4,633	22.1
16-Jul-03	CLR	25.0	1.6	6.66	4.7	4,903	19.1
17-Jul-03	CLR	24.9	1.3	6.71	4.7	4,188	16.2
18-Jul-03	N/A	29.0	1.3	6.97	4.8	88	0.87
19-Jul-03	N/A	28.6	1.4	7.07	4.8	121	0.70
20-Jul-03	N/A	29.7	1.3	7.19	4.5	144	0.78
21-Jul-03	N/A	29.3	1.2	7.16	4.8	103	0.22
22-Jul-03	CLR	27.1	0.7	7.16	4.5	109	0.16
23-Jul-03	CLR	27.9	1.5	7.06	4.3	114	0.10
24-Jul-03	CLR	28.1	1.6	6.88	4.1	95	0.10
25-Jul-03	CLR	27.4	1.7	7.33	4.8	90	0.22
26-Jul-03	N/A	26.4	1.2	7.93	5.6	49	0.35
27-Jul-03	N/A	27.5	1.3	7.41	4.5	91	0.24
28-Jul-03	N/A	28.2	1.3	7.28	4.5	133	0.47
29-Jul-03	CLR	27.2	0.4	7.52	4.6	81	0.40
30-Jul-03	CLR	27.4	1.0	7.31	4.7	97	0.19
31-Jul-03	CLR	26.6	0.8	6.99	4.5	102	0.10
1-Aug-03	CLR	27.7	2.0	7.14	4.4	108	1.42
2-Aug-03	N/A	28.5	1.2	7.18	5.0	67	0.69
3-Aug-03	N/A	28.2	1.0	7.11	4.7	55	0.41
4-Aug-03	N/A	26.7	1.1	7.16	4.2	47	0.70
5-Aug-03	CLR	27.5	0.2	7.24	4.5	87	0.48
6-Aug-03	CLR	28.1	0.1	7.00	4.3	65	0.64
7-Aug-03	CLR	28.5	1.1	7.03	4.5	74	0.31
8-Aug-03	CLR	21.7	0.3	7.00	6.3	109	0.25
9-Aug-03	N/A	25.3	1.3	7.14	5.6	92	0.26
10-Aug-03	N/A	24.2	1.2	7.12	4.7	413	0.39
11-Aug-03	N/A	26.9	1.3	6.94	5.2	42	0.29
12-Aug-03	CLR	26.2	0.2	7.19	5.0	59	0.54
13-Aug-03	CLR	27.4	0.1	7.08	4.9	53	0.64
14-Aug-03	CLR	27.2	0.5	7.11	5.2	67	0.61
15-Aug-03	CLR	26.8	0.2	7.26	5.2	50	0.63
16-Aug-03	N/A	27.8	1.4	7.22	4.6	61	0.80
17-Aug-03	N/A	28.0	1.0	6.82	5.7	42	0.81
18-Aug-03	N/A	28.3	1.2	6.93	5.5	127	0.97

Table 10
Daily Water Quality Monitoring Results
Emergency Order No. 02-1054
Piney Point Phosphates Complex

Parameter	Visual Observations	Temperature (°C)	Turbidity (NTU)	pH (Standard Units)	Dissolved Oxygen (mg/L)	Specific Conductance (us/cm)	Ammonia (mg/L)
Station	003	003	003	003	003	003	003
19-Aug-03	CLR	25.9	0.4	6.93	4.0	76	0.84
20-Aug-03	CLR	26.1	0.5	7.19	4.5	82	0.76
21-Aug-03	CLR	26.8	0.2	7.21	4.7	76	1.04
22-Aug-03	CLR	25.9	0.1	7.50	5.4	70	0.88
23-Aug-03	N/A	27.1	1.3	6.62	4.7	120	1.19
24-Aug-03	N/A	28.0	1.3	7.18	4.3	52	1.17
25-Aug-03	N/A	27.3	1.2	7.28	4.5	68	0.90
26-Aug-03	CLR	26.4	0.0	7.03	4.8	66	0.64
27-Aug-03	CLR	26.9	0.1	6.91	4.9	89	0.93
28-Aug-03	CLR	27.3	0.4	7.02	5.0	77	0.89
29-Aug-03	CLR	26.5	0.0	7.23	4.6	81	0.67
30-Aug-03	N/A	25.7	1.2	7.07	5.1	53	0.79
31-Aug-03	N/A	29.4	1.0	7.18	4.7	43	1.01
1-Sep-03	N/A	27.3	1.3	7.43	4.0	73	0.66
2-Sep-03	CLR	26.8	0.1	7.27	4.7	67	0.66
3-Sep-03	CLR	27.1	0.2	7.26	4.5	59	0.75
4-Sep-03	CLR	27.4	0.1	7.20	4.8	71	0.70
5-Sep-03	CLR	26.1	0.3	7.26	4.3	66	0.79
6-Sep-03	N/A	26.3	1.3	7.17	5.2	69	0.84
7-Sep-03	N/A	26.9	1.3	6.77	5.3	4,358	9.77
8-Sep-03	N/A	27.7	1.3	6.83	4.1	4,339	19.40
9-Sep-03	CLR	26.9	0.0	7.01	4.4	79	18.90
10-Sep-03	CLR	26.3	0.2	7.30	4.9	79	14.60
11-Sep-03	CLR	26.3	0.5	7.14	4.6	68	0.90
12-Sep-03	CLR	26.3	0.3	7.15	5.0	68	0.82
13-Sep-03	N/A	26.7	1.3	7.04	5.2	117	1.21
14-Sep-03	N/A	28.2	1.3	6.74	5.0	69	0.76
15-Sep-03	N/A	27.6	1.3	6.75	5.4	48	1.03
16-Sep-03	CLR	26.9	0.0	7.23	5.0	71	0.63
17-Sep-03	CLR	26.8	0.0	7.17	4.7	74	0.56
18-Sep-03	CLR	25.6	0.1	7.08	4.8	85	0.68
19-Sep-03	CLR	26.6	0.0	7.03	4.7	71	0.73
20-Sep-03	N/A	25.7	1.3	6.98	6.4	59	0.91
21-Sep-03	N/A	26.5	1.0	6.54	5.5	61	0.93
22-Sep-03	N/A	28.4	1.2	6.85	5.4	97	1.17
23-Sep-03	CLR	26.8	0.1	6.74	4.3	154	0.49
24-Sep-03	CLR	26.6	0.1	6.81	4.8	133	0.32
25-Sep-03	CLR	26.7	0.0	6.72	4.0	196	0.72
26-Sep-03	CLR	20.4	0.3	7.15	6.6	1,536	3.21
27-Sep-03	N/A	25.5	1.2	6.66	5.3	4,809	7.32
28-Sep-03	N/A	25.9	1.3	6.88	5.4	4,394	13.10
29-Sep-03	N/A	26.6	1.3	6.32	4.8	43	2.21
30-Sep-03	CLR	24.5	0.2	7.16	5.0	126	0.94

Table 11
Weekly Water Quality Analyses
Emergency Order No. 02-1054
Piney Point Phosphates Complex

Date	10/03/02	10/10/02	10/17/02	10/24/02	10/31/02	11/07/02	11/14/02	11/21/02	12/05/02	12/12/02	12/19/02	12/26/02	01/03/03	01/09/03
Station	003	003	003	003	003	003	003	003	003	003	003	003	003	003
Parameters														
pH (standard units)	6.99***	7.52	6.82	6.86	5.5	5.50	6.15	6.1	5.49	8.20	7.55	6.56	4.93	6.61
Specific Conductance (µs/cm)	40***	33	65	67	43	39	41	61	103	83	95	601	2,941	4,155
Temperature (°C)	28.0***	28.5	26.5	27.2	28.7	22.6	23.4	22.0	22.6	17.84	18.48	13.97	18.54	16.18
Turbidity (NTU)	7.50***	0.70	0.78	0.50	0.50	0.50	0.80	0.3	0.28	1.90	0.45	6.80	0.89	N/S
Dissolved Oxygen (mg/L)	6.8***	6.8	7.82	7.52	7.28	8.8	8.1	8.0	6.00	6.55	5.20	4.84	4.84	N/S
Ammonia as N (mg/L)	<0.10***	<0.01	0.01	<0.01	0.25	0.21	0.28	0.09	0.22	0.16	0.28	1.17	7.46	12.9
Ammonia, Unionized (mg/L)	N/S***	0.001	0.001	0.0001	0.0002	<0.01	<0.01	0.01	0.01	0.01	0.01	<0.01	<0.01	0.0183
Total Kjeldahl Nitrogen as N (mg/L)	N/S***	0.318	0.21	0.313	0.557	0.398	0.504	0.248	0.463	0.346	0.48	1.86	13.4	17.5
Nitrate + Nitrite (mg/L)	N/S***	0.012	0.011	0.05	0.120	0.106	0.178	0.120	0.255	0.313	0.235	0.861	2.37	2.51
Total Nitrogen (mg/L)	N/S***	0.33	0.221	0.318	0.667	0.504	0.682	0.368	0.718	0.659	0.715	2.72	15.8	20
Total Phosphorus (mg/L)	0.1	0.06	0.05	0.12	0.07	0.07	0.12	0.06	0.17	0.14	0.22	1.24	0.56	0.54
Fluoride (mg/L)	0.376	0.243	0.22	0.156	1.13	0.735	1.03	1.39	1.22	1.39	1.10	2.52	2.01	1.82
Total Suspended Solids (mg/L)	<1.0	<1.0	1.6	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<1.0	<0.1	5.29	1.87	160.20

All analyses in milligrams per Liter unless noted.

TBR - Sample collected and submitted to lab. Analyses not yet received.

Dry - Not sampled due to absence of flow.

** - Values checked. Appears to be related to rainfall runoff

N/S - Not Sampled

*** - Discharged stopped prior to grab samples being obtained. Data from daily samples.

Table 11
Weekly Water Quality Analyses
Emergency Order No. 02-1054
Piney Point Phosphates Complex

Date	01/16/03	01/23/03	01/30/03	02/06/03	02/13/03	02/20/03	02/27/03	03/06/03	03/14/03	03/20/03	03/27/03	04/03/03	04/10/03
Station	003	003	003	003	003	003	003	003	003	003	003	003	003
Parameters													
pH (standard units)	6.47	TBR	TBR	TBR	TBR	6.48	6.33	6.83	6.89	6.45	6.70	6.48	6.25
Specific Conductance (µs/cm)	5,000	TBR	TBR	TBR	TBR	4,810	5,080	5,390	5,950	5,020	5,080	5.16	5,700
Temperature (°C)	9.20	TBR	TBR	TBR	TBR	17.20	20.90	23.10	22.4	24.5	21.0	17.7	19.6
Turbidity (NTU)	4.30	TBR	TBR	TBR	TBR	11.10	0.40	5.70	2.7	2.5	1.6	1.8	1.4
Dissolved Oxygen (mg/L)	10.50	TBR	TBR	TBR	TBR	7.80	8.50	7.80	8.6	5.5	6.6	7.6	6.2
Ammonia as N (mg/L)	33.6	85.6	106	80.5	60.9	23.6	11.5	11.9	11.9	10.9	18.8	11.6	9.68
Ammonia, Unionized (mg/L)	0.026	0.0565	0.151	0.0724	0.163	0.0289	0.0264	0.0513	0.0465	0.0946	1.98	0.0891	<0.01
Total Kjeldahl Nitrogen as N (mg/L)	39.5	84.9	120	64.8	66.3	33.7	16.1	15.2	13.9	10.8	19.4	17.7	9.76
Nitrate + Nitrite (mg/L)	1.41	1.49	0.667	0.88	0.882	0.826	0.746	0.901	0.669	1.19	1.73	1.46	1.77
Total Nitrogen (mg/L)	40.9	86.4	121	65.7	67.2	34.5	16.8	16.1	14.6	12.0	21.1	19.2	11.5
Total Phosphorus (mg/L)	0.11	0.37	0.30	0.41	0.86	0.75	0.64	0.48	0.32	0.35	0.33	0.39	0.19
Fluoride (mg/L)	2.34	2.39	2.29	1.52	3.28	2.82	1.990	1.21	2.51	2.10	1.79	1.98	2.33
Total Suspended Solids (mg/L)	3.00	9.20	14.50	7.33	51.0	13.25	15.8	4.00	3.40	3.60	4.00	7.00	16.40

All analyses in milligrams per Liter unless noted.

TBR - Sample collected and submitted to lab. Analyses not yet received.

Dry - Not sampled due to absence of flow.

** - Values checked. Appears to be related to rainfall runoff

N/S - Not Sampled

*** - Discharged stopped prior to grab samples being obtained. Data from daily samples.

Table 11
Weekly Water Quality Analyses
Emergency Order No. 02-1054
Piney Point Phosphates Complex

Date	04/17/03	04/24/03	05/01/03	05/08/03	05/15/03	05/22/03	05/29/03	06/05/03	06/12/03	06/20/03	06/26/03	07/03/03	07/10/03
Station	003	003	003	003	003	003	003	003	003	003	003	003	003
Parameters													
pH (standard units)	6.54	6.36	6.30	6.57	6.46	6.49	6.54	6.56	6.79	6.71	6.66	N/A	7.40
Specific Conductance (µs/cm)	6,250	6,690	5,060	4,805	5,700	6,810	6,080	5,800	4,689	4,744	4,656	N/A	776
Temperature (°C)	16.0	19.9	22.6	25.5	24.5	23.3	24.9	25.3	26.0	24.7	24.2	N/A	25.4
Turbidity (NTU)	0.9	1.1	0.90	1.10	1.30	1.00	0.70	1.00	0.60	1.00	1.60	N/A	0.90
Dissolved Oxygen (mg/L)	6.9	6.1	4.80	5.20	4.90	4.60	5.70	5.50	5.20	5.40	5.40	N/A	4.70
Ammonia as N (mg/L)	12.0	15.0	15.7	19.4	25.4	18.1	18.1	11.3	17.1	12.7	11.7	15.8	0.27
Ammonia, Unionized (mg/L)	0.0156	0.0173	0.00682	0.0154	0.0311	0.0431	0.00883	0.00694	0.122	0.00552	0.0383	0.0761	0.00892
Total Kjeldahl Nitrogen as N (mg/L)	14.7	15.1	17.5	22.2	30.3	22.4	21.0	14.4	20.43	16.7	13.8	16.4	0.80
Nitrate + Nitrite (mg/L)	1.04	0.616	1.85	2.01	1.90	0.37	1.95	1.44	2.28	3.14	7.31	3.09	0.496
Total Nitrogen (mg/L)	15.7	15.7	19.3	24.2	32.2	22.8	22.9	15.8	22.7	19.8	21.1	19.5	1.30
Total Phosphorus (mg/L)	0.32	0.42	0.68	0.61	0.55	0.29	0.19	0.23	0.16	0.33	0.26	0.22	0.25
Fluoride (mg/L)	1.96	1.10	1.15	1.16	0.03	1.76	1.77	1.36	1.49	1.86	2.84	2.76	1.68
Total Suspended Solids (mg/L)	1.80	2.22	3.20	5.80	1.04	1.00	2.20	3.80	5.00	3.60	3.80	2.40	<1.0

All analyses in milligrams per Liter unless noted.

TBR - Sample collected and submitted to lab. Analyses not yet received.

Dry - Not sampled due to absence of flow.

** - Values checked. Appears to be related to rainfall runoff

N/S - Not Sampled

*** - Discharged stopped prior to grab samples being obtained. Data from daily samples.

Table 11
Weekly Water Quality Analyses
Emergency Order No. 02-1054
Piney Point Phosphates Complex

Date	07/17/03	07/25/03	07/31/03	08/07/03	08/14/03	08/21/03	08/28/03	09/04/03	09/11/03	09/18/03	09/25/03
Station	003	003	003	003	003	003	003	003	003	003	003
Parameters											
pH (standard units)	6.71	7.33	6.99	7.03	7.11	7.21	7.02	7.20	7.14	7.08	6.72
Specific Conductance (µs/cm)	4,188	89.8	102.1	74.2	67.2	76.3	77.1	71	68	85	196
Temperature (°C)	24.9	27.4	26.6	28.5	27.2	26.8	27.3	27.4	26.3	25.6	26.7
Turbidity (NTU)	1.3	1.7	0.80	1.10	0.50	0.20	0.40	0.10	0.50	0.10	0.00
Dissolved Oxygen (mg/L)	4.7	4.8	4.50	4.50	5.20	4.70	5.00	4.80	4.60	4.80	4.00
Ammonia as N (mg/L)	10.5	0.66	0.60	3.87	0.69	0.92	1.44	3.18	0.73	0.61	0.57
Ammonia, Unionized (mg/L)	0.0343	0.00405	0.0115	0.0279	0.0027	0.00257	0.00572	0.0153	0.00268	0.00263	<0.001
Total Kjeldahl Nitrogen as N (mg/L)	21.3	0.76	1.02	3.88	1.10	1.24	2.79	4.37	1.14	1.03	1.14
Nitrate + Nitrite (mg/L)	2.11	0.034	0.041	0.260	0.036	0.010	0.950	0.786	<0.01	0.055	0.031
Total Nitrogen (mg/L)	23.4	0.794	1.06	4.14	1.14	1.25	3.74	5.16	1.14	1.08	1.17
Total Phosphorus (mg/L)	0.295	0.118	0.329	3.38	0.183	0.153	6.30	3.14	0.26	0.01	0.10
Fluoride (mg/L)	2.66	1.10	1.56	1.39	0.760	1.56	0.923	1.04	2.22	1.93	2.42
Total Suspended Solids (mg/L)	6.80	<1.0	<1.0	1.40	<1.0	<1.0	12.0	1.80	<1.0	<1.0	<1.0

All analyses in milligrams per Liter unless noted.

TBR - Sample collected and submitted to lab. Analyses not yet received.

Dry - Not sampled due to absence of flow.

** - Values checked. Appears to be related to rainfall runoff

N/S - Not Sampled

*** - Discharged stopped prior to grab samples being obtained. Data from daily samples.

Table 12
Monthly Water Quality Analyses
Emergency Order No. 02-1054
Piney Point Phosphates Complex

Date	Oct-02	Nov-02	Dec-02	Jan-03	Feb-03	Apr-03	May-03	Jun-03	Jul-03	Aug-03	Sep-03
Station	003	003	003	003	003	003	003	003	003	003	003
Parameters											
Alkalinity (mg/L)	10	3.00	8.50	21.6	19.5	10	5.00	10.0	7.50	5.5	2.0
Aluminum (mg/L)	<0.190	<0.190	<0.190	0.828	0.354	0.0451	0.0151	142	<0.190	<0.190	0.234
Arsenic (µg/L)	<0.001	<1	1.8	<1	2.25	<1	6.28	<1.0	2.17	<1	<1
Barium (mg/L)	<0.002	<0.002	<0.002	0.0084	0.012	<0.002	<0.002	22.7	3.02	<0.002	<0.0020
Beryllium (µg/L)	<0.2	<0.2	<0.2	<0.2	<5	0.3	0.40	<0.2	<0.2	<0.2	<0.2
Biological Oxygen Demand (mg/L)	<2.0	<2	<2	4.18	4.71	15.04	10.1	11.0	<3.33	<2	<3.33
Cadmium (µg/L)	<0.1	<0.1	0.1	0.6	0.6	0.5	<0.1	<0.1	<0.10	0.10	0.80
Calcium (mg/L)	1.61	3.26	10.8	347	792	356	892	746	3.44	2.09	3.44
Chemical Oxygen Demand (mg/L)	<10.0	<10	<10	40.2	54.2	36.0	39.8	19.5	<10	28.8	65.1
Chloride (mg/L)	0.124	2.75	3.1	57.2	89.5	98.0	112	81.6	0.700	1.4	0.80
Chromium (µg/L)	<0.132	<1	1.40	1.2	3.0	1.8	2.00	1.60	<1.0	<1	<1
Radium 226 & 228 (pCi/L)	0.3+/-0.4	0.2+/-0.08	0.6+/-0.6	0.4+/-0.1	1.5+/-0.2	05+/-0.1	TBR	1.4+/-0.7	<1.1	<0.9	<0.9
Copper (µg/L)	0.002	1.2	<1	<1	2.3	<1	1.41	1.10	<1.0	1.00	<1
Gross Alpha (pCi/L)	0.2+/-0.4	0.1+/-0.2	1.7+/-1.4	2.2+/-4.4	13.5+/-7.1	4.0+/-0.7	TBR	3.4+/-0.4	1.3+/-0.7	<0.5	<0.5
Iron (mg/L)	0.057	0.144	<0.03	0.092	194	0.085	0.109	0.105	<0.03	<0.03	<0.030
Lead (µg/L)	<1	<0.001	<1	1.4	1.50	<1	<1	<1.0	<1.0	<1.0	<1
Magnesium (mg/L)	0.016	0.997	2.29	4.27	N/S	5.92	1.19	1.95	0.73	0.89	0.894
Manganese (mg/L)	0.001	0.0005	0.000416	0.0033	0.0121	0.0016	1.00	2.20	0.70	<0.0002	<0.010
Nickel (µg/L)	<0.001	1.23	<1.23	<1.23	26.2	40.6*	80.7	34.4	<1.23	<1.23	<1.23
Potassium (mg/L)	0.032	0.298	206	63.3	115	142	174	101	0.14	0.29	0.165
Selenium (µg/L)	<2.04	<2.04	<2.04	<2.04	<2.04	<2.04	19.3	<2.04	<2.04	<2.04	<2.04
Silica (mg/L)	0.45	0.602	1.34	7.45	6.40	4.21	4.36	7.97	1.07	0.568	0.547
Silver (µg/L)	<0.2	<0.2	1.3	0.2	11.3	<0.2	<0.2	0.30	<0.2	<10	<10
Sulfate (mg/L)	0.659	6.93	14.1	1700	2958	3,106	4,252	2,907	7.52	4.01	5.22
Total Dissolved Solids (mg/L)	<2.5	24.0	36.0	2748	4736	4,880	6,764	4,450	4.00	24	32
Total Hardness (mg/L)	2.7	10.2	20.1	906	1393	1,324	1,826	1,375	11.2	6.8	9.60
Total Organic Carbon (mg/L)	0.69	<0.3	<0.3	8.55	15.6	13.2	17.2	12.0	2.33	1.71	<0.3
Zinc (µg/L)	14	<7.98	<7.98	<7.98	20	18	24	15.0	<7.98	<7.98	<7.98
Color (PCU)	5	5	5	10	20	<5	5	50	5	<5	<5

All analyses in milligrams per Liter unless noted.

TBR - Sample collected and submitted to lab. Analyses not yet received.

DRY = Not sampled due to absence of flow.

* - Analysis being challenged.

< - Analyte not detected at the value indicated

J4 - Est value quality control

criteria for accuracy not met.

J4* - Est value quality control

criteria for accuracy not met.

Q - Analyzed outside accepted hold time

FIGURES

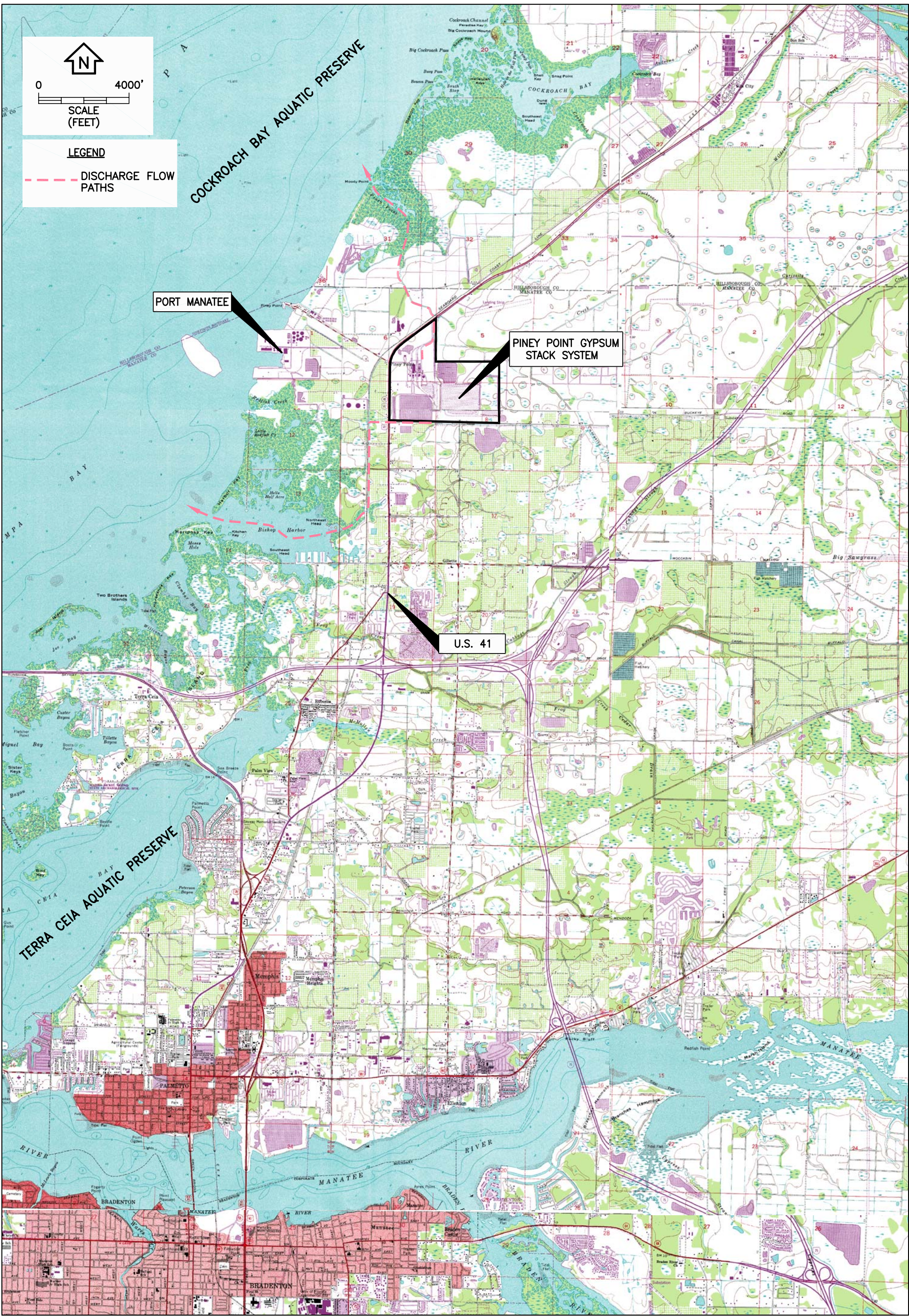


FIGURE 1.
REGIONAL LOCATION MAP
PINEY POINT GYPSUM STACK SYSTEM
MANATEE COUNTY, FLORIDA

Sources: USGS Quad Maps of Cockroach Bay, Bradenton, Ruskin & Parrish, FL; ECT, 2002.

ECT
Environmental Consulting & Technology, Inc.

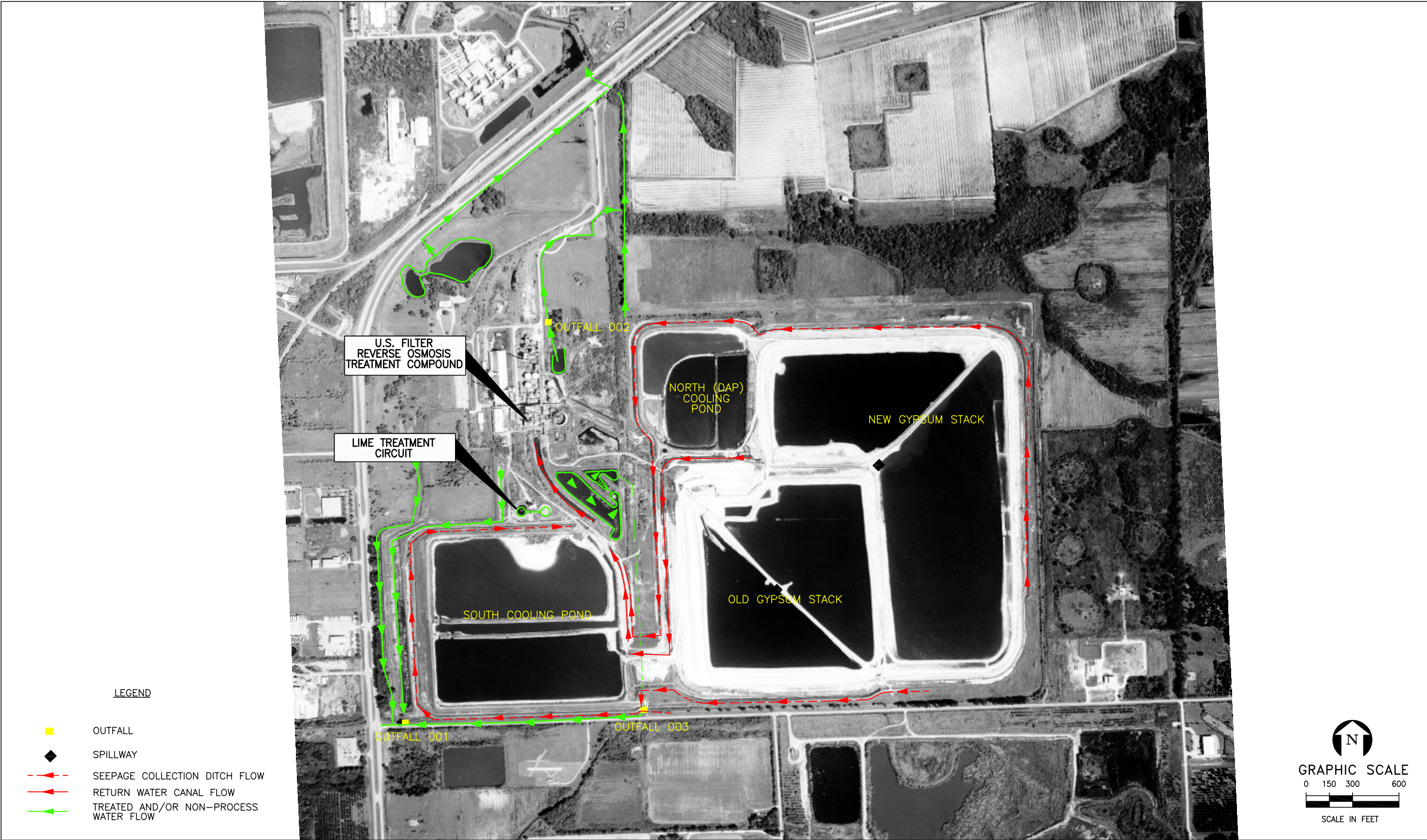


FIGURE 2.
PHOSPHOGYPSUM STACK SYSTEM
PINEY POINT GYPSUM STACK SYSTEM
MANATEE COUNTY, FLORIDA

Sources: Manatee County Aerial Photograph, 2002; ECT, 2002.

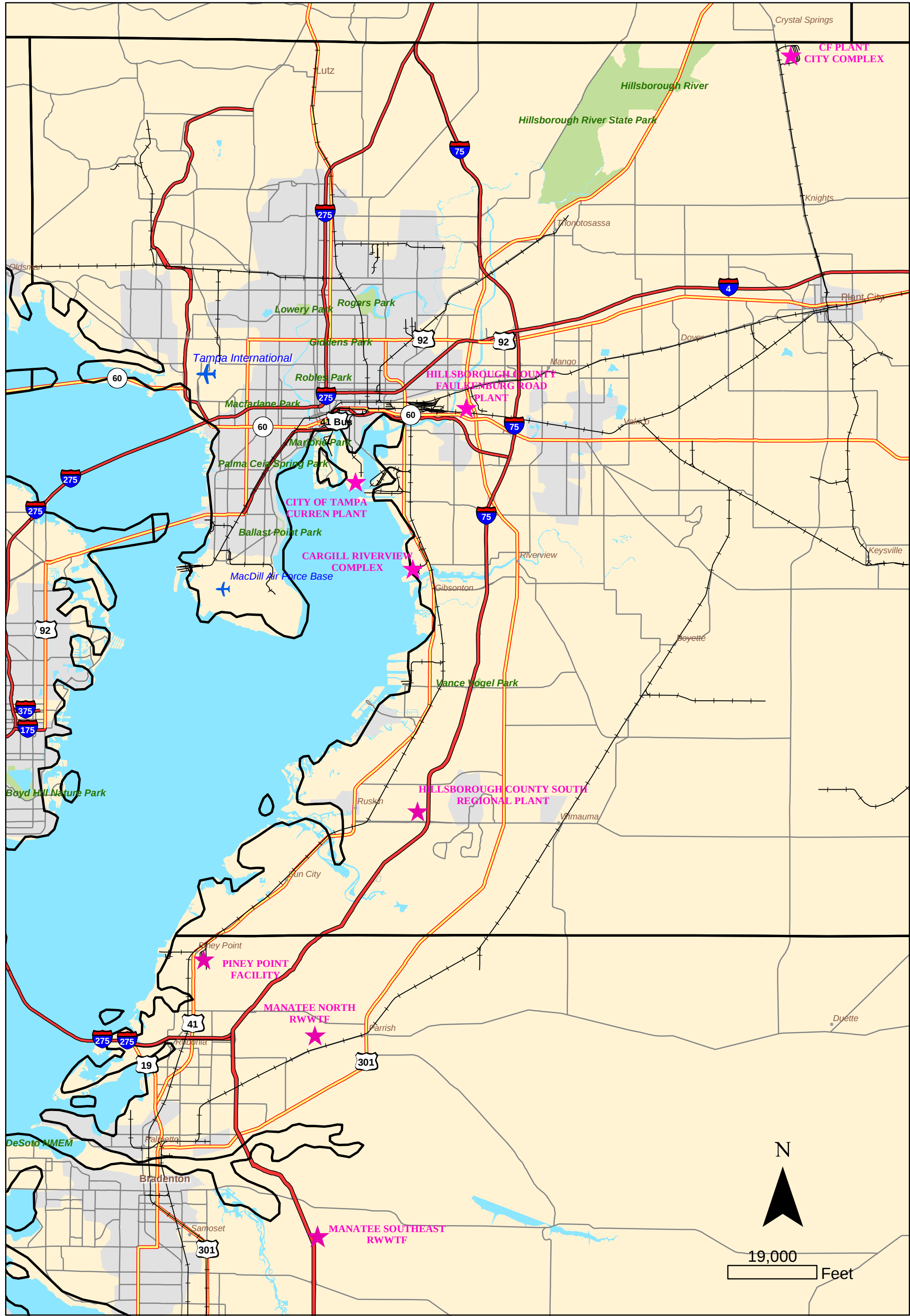


FIGURE 3.
OFFSITE WATER SHIPMENT LOCATIONS
PINEY POINT PHOSPHOGYPSUM STACK SYSTEM

Source: ECT, 2002.

Attachment A

Chronic Toxicity Bioassay Results

ATTACHMENT A

Data recorded during the chronic toxicity bioassay of samples of effluent from the Piney Point Phosphates, Inc., facility, Palmetto, Manatee County, NPDES # FL0000124, tests performed on 25 June to 3 July, 2002

Facility: Piney Point Phosphates, Inc.	Test Beginning Date: 6/26/2002	Time: 1400	Facility Type: Phosphate Plant
NPDES # FL0000124	Test Ending Date: 7/3/2002	Time: 0800	
Location: 1330 Highway 41 N., Palmetto		RO Well	Chlorination Type: Non-chlorinated
County: Manatee	Sample "A" Collection Date: 6/24/2002	Time: 0930 1010	Receiving Water: Bishops Harbor
Contact/District: Phil Coram (Tallahassee), Vishwas Sathe (Tampa)	Sample "B" Collection Date: 6/26/2002	Time: 1005 1028	Classification Class III Marine
	Sample "C" Collection Date: 6/28/2002	Time: 0925 0935	Page 1 of 2
LIMS Sample #s: RO-sample "A" 600136, sample "B" 601110, sample "C" 601695			
LIMS Sample #s: Well-sample "A" 600137, sample "B" 601111, sample "C" 601696			

Residual Chlorine	Field	Lab
DMW #20:	na	<0.03
RO Sample "A":	not measured	<0.03
RO Sample "B":	not measured	<0.03
RO Sample "C":	not measured	<0.03
Well Sample "A":	not measured	<0.03
Well Sample "B":	not measured	<0.03
Well Sample "C":	not measured	<0.03

Ammonia mg/L	Total	Unionized
DMW #20:	<0.017	<0.017
RO Sample "A":	<0.017	<0.017
RO Sample "B":	<0.017	<0.017
RO Sample "C":	0.55	0.007
Well Sample "A":	<0.017	<0.017
Well Sample "B":	<0.017	<0.017
Well Sample "C":	0.09	0.005

Alk & Hardness	Alkalinity (mg/l)	Hardness (mg/l)	Salinity
DMW #20:	80	80	0
RO Sample "A":	11	4	0
RO Sample "B":	11	5	0
RO Sample "C":	13	2	0
Well Sample "A":	159	553	0
Well Sample "B":	156	473	0
Well Sample "C":	159	498	0

		pH	Temp	DO	Cond
Day 1	DMW Control	8.2	23.9	8.0	205
New Sample "A"	Well Control	8.1			190
	1.56%	8.1			190
	3.12%	8.0			200
	6.25%	7.9			210
	12.5%	7.9			210
	25%	7.9			210
	50%	7.6	24.4	7.8	255
Day 2	DMW Control	8.2	23.9	8.0	205
New Sample "A"	Well Control	8.1			190
	1.56%	8.1			190
	3.12%	8.0			200
	6.25%	7.9			210
	12.5%	7.9			210
	25%	7.9			210
	50%	7.6	24.4	7.8	255
Old Sample "A"	DMW Control	8.2	23.9	8.0	205
	Well Control	8.1			190
	1.56%	8.1			190
	3.12%	8.0			200
	6.25%	7.9			210
	12.5%	7.9			210
	25%	7.9			210
	50%	7.6	24.4	7.8	255
Day 3	DMW Control	8.2	23.9	8.0	205
New Sample "B"	Well Control	8.1			190
	1.56%	8.1			190
	3.12%	8.0			200
	6.25%	7.9			210
	12.5%	7.9			210
	25%	7.9			210
	50%	7.6	24.4	7.8	255
Old Sample "A"	DMW Control	8.2	23.9	8.0	205
	Well Control	8.1			190
	1.56%	8.1			190
	3.12%	8.0			200
	6.3%	7.9			210
	12.5%	7.9			210
	25%	7.9			210
	50%	7.6	24.4	7.8	255

Temperature (Temp) reported in degrees Celsius.
Dissolved Oxygen (DO) reported in mg/L.
Conductivity (Cond) reported in micro-mhos-cm.
pH reported in standard units.

		pH	Temp	DO	Cond
Day 4	DMW Control	8.2	23.9	8.0	205
New Sample "B"	Well Control	8.1			190
	1.56%	8.1			190
	3.12%	8.0			200
	6.25%	7.9			210
	12.5%	7.9			210
	25%	7.9			210
	50%	7.6	24.4	7.8	255
Old Sample "B"	DMW Control	8.2	23.9	8.0	205
	Well Control	8.1			190
	1.56%	8.1			190
	3.12%	8.0			200
	6.25%	7.9			210
	12.5%	7.9			210
	25%	7.9			210
	50%	7.6	24.4	7.8	255
Day 5	DMW Control	8.2	23.9	8.0	205
New Sample "C"	Well Control	8.1			190
	1.56%	8.1			190
	3.12%	8.0			200
	6.25%	7.9			210
	12.5%	7.9			210
	25%	7.9			210
	50%	7.6	24.4	7.8	255
Old Sample "B"	DMW Control	8.2	23.9	8.0	205
	Well Control	8.1			190
	1.56%	8.1			190
	3.12%	8.0			200
	6.25%	7.9			210
	12.5%	7.9			210
	25%	7.9			210
	50%	7.6	24.4	7.8	255

ATTACHMENT A

Data recorded during the chronic toxicity bioassay of samples of effluent from the Piney Point Phosphates, Inc., facility, Palmetto, Manatee County, NPDES # FL0000124,
tests performed on 25 June to 3 July, 2002

Facility: Piney Point Phosphates, Inc.	Test Beginning Date: 6/26/2002	Time: 1400	Facility Type: Phosphate
NPDES # FL0000124	Test Ending Date: 7/3/2002	Time: 0800	Plant
Location: 1330 Highway 41 N., Palmetto		RO Well	Chlorination Type: Non-chlorinated
County: Manatee	Sample "A" Collection Date: 6/24/2002	Time: 0930 1010	Receiving Water: Bishops Harbor
Contact/District: Phil Coram, Vishwas Sathe	Sample "B" Collection Date: 6/26/2002	Time: 1005 1028	Classificatio Class III Marine
	Sample "C" Collection Date: 6/28/2002	Time: 0925 0935	Page 1 of 2
LIMS Sample #s: RO-sample "A" 600136, sample "B" 601110, sample "C" 601695			
LIMS Sample #s: Well-sample "A" 600137, sample "B" 601111, sample "C" 601696			

		pH	Temp	DO	Cond
Day 6	DMW Control	8.2	23.9	8.0	205
	New Sample "C"	Well Control	8.1		190
		1.56%	8.1		190
		3.12%	8.0		200
		6.25%	7.9		210
		12.5%	7.9		210
		25%	7.9		210
		50%	7.6		24.4
	Old Sample "C"	DMW Control	8.2	23.9	8.0
Well Control		8.1		190	
		1.56%		8.1	190
		3.12%		8.0	200
		6.25%		7.9	210
		12.5%		7.9	210
		25%		7.9	210
		50%		7.6	24.4
Day 7		DMW Control	8.2	23.9	8.0
	New Sample "C"	Well Control	8.1		190
		1.56%	8.1		190
		3.12%	8.0		200
		6.25%	7.9		210
		12.5%	7.9		210
		25%	7.9		210
		50%	7.6		24.4
	Old Sample"C"	DMW Control	8.2	23.9	8.0
Well Control		8.1		190	
		1.56%		8.1	190
		3.12%		8.0	200
		6.3%		7.9	210
		12.5%		7.9	210
		25%		7.9	210
		50%		7.6	24.4

		pH	Temp	DO	Cond
Day 8	DMW Control	8.2	23.9	8.0	205
Old Sample "C"	Well Control	8.1			190
	1.56%	8.1			190
	3.12%	8.0			200
	6.25%	7.9			210
	12.5%	7.9			210
	25%	7.9			210
	50%	7.6	24.4	7.8	255

Temperature (Temp) reported in degrees Celsius.
Dissolved Oxygen (DO) reported in mg/L.
Conductivity (Cond) reported in micro-mhos-cm.
pH reported in standard units.

NOEC: 50%	LOEC: N/A	IC20: N/A
Concentrations	# surviving adults	Young/adult
DMW Control	8	19.4
Well Control	9	19.4
1.56%	10	21.6
3.12%	10	27.2
6.25%	10	31.8
12.5%	10	32.7
25%	10	27.9
50%	9	30.2

Attachment B

RO/Deep-Well Chemistry Data

ATTACHMENT B

**Piney Point Phosphates RO/Deep-Well chemistry data from RO samples collected on 22 May 2002
and a Deep-Well Water sample collected on 14 May, 2002**

		Influent	1st Pass after pH	2nd Pass Before pH	2nd Pass Permeate	1st Pass Reject	Deep Well
Collection Date		5/22/2002	5/22/2002	5/22/2002	5/22/2002	5/22/2002	5/14/2002
Temp	C°	25.16	24.68	28.24	24.69	24.67	26.33
pH	Units	2.98	7	8.39	7.5	2.94	7.31
Conductivity	mS/cm	12.4	0.301	0.02	0.028	19.41	1.01
D.O.	mg/L	8.36	9.96	10.39	8.8	8.61	0.16
BOD-5 Day,N-Inhib	mg/L	17	0.74	0.2	0.26	-	-
Turbidity	NTU	14	0.25	0.05	0.2	2.1	-
Alkalinity	mg CaCO3/L	0.65	15	2.4	4.7	0.65	148
Chloride	mg Cl/L	110	14	0.26	0.31	210	64
Color	PCU	100	5	5	5	100	-
Fluoride	mg F/L	150	35	0.54	2.5	240	1
Nitrogen, Total	mg/L	-	-	-	-	-	-
Nitrate-N	mg N/L	0.063	0.16	0.02	0.027	-	-
Silica	mg SiO2/L	200	0.61	0.3	0.49	340	-
Sulfate	mg SO4/L	5.20E+03	5.5	0.2	1.1	8.70E+03	350
TDS	mg/L	1.15E+04	111	15	15	2.04E+04	762
TSS	mg/L	24	4	4	4	29	4
Ammonia-N	mg N/L	600	5.2	0.27	0.52	1.10E+03	-
NO2NO3-N	mg N/L	0.24	0.18	0.014	0.015	0.48	0.004
N_KJEL_TOT	mg N/L	650	5.9	0.7	0.94	1.10E+03	0.28
Organic Carbon	mg C/L	66	1	1	1.2	110	-
Total-P	mg P/L	1.40E+03	1.1	0.028	0.032	2.50E+03	0.027
O-Phosphate-P	mg P/L	1.60E+05	1.1	0.004	0.036	-	-
Aluminum_308	ug/L	8.35E+05	50	50	50	1.46E+04	-
Arsenic	ug/L	440	3	3	3	740	-
Barium	ug/L	24.4	1	1	3.2	38	-
Beryllium	ug/L	9.9	0.1	0.1	0.1	16.5	-
Cadmium	ug/L	61.2	0.5	0.5	0.5	102	-
Calcium	mg/L	551	0.25	0.1	0.53	920	120
Chromium	ug/L	94.6	2	2	2	169	-
Copper	ug/L	9.8	3.4	3	3	12	-
Iron_271	ug/L	5.62E+05	25	25	25	7.01E+03	-
Lead	ug/L	5	5	5	5	5	-
Magnesium	mg/L	229	0.074	0.025	0.025	382	51.2
Manganese	ug/L	2.82E+05	5.6	0.5	0.6	4.72E+03	-
Nickel	ug/L	346	2	2	2	581	-
Potassium	mg/L	196	0.86	0.021	0.21	310	2.5
Selenium	ug/L	10	4	4	4	-	-
Silver	ug/L	1.5	1.5	1.5	1.5	-	-
Sodium_330	mg/L	1.29E+05	50.7	1.4	3.5	2.10E+03	30.1
Zinc	ug/L	638	16	3	9.5	1.08E+03	-
Mercury	ug/L	-	-	-	-	0.1	-
pH	Units	-	-	-	-	2.87	7.66
Bromide	mg Br/L	-	0.2	0.2	0.2	-	0.5
COD	mg/L	160	9.6	9.6	9.6	-	-
MBAS	mg/L	-	-	-	-	0.2	-
Oil & Grease	mg/L	-	-	-	-	0.55	-

Attachment C
RO Chemistry Data

ATTACHMENT C

Piney Point Phosphates RO, chemistry data from samples of final-U.S. Filter product
collected on 24 June, 26 June, and 28 June, 2002

Component	UNITS	Collection Date		
		6/24/2002	6/26/2002	6/28/2002
pH	Std. Units	8.41	6.69	5.96
Conductivity	mS/cm	20.0	2.0	34.0
D.O.	mg/L	4.5	7.88	8.1
Alkalinity	mg CaCO3/L	<0.1	<0.1	0.28
TDS	mg/L	4	16	28
Ammonia-N	mg N/L	0.11	0.10	0.05
NO2NO3-N	mg N/L	0.01	0.01	<0.01
N_KJEL_TOT	mg N/L	0.35	0.41	1.18
Total-P	mg P/L	<0.01	0.01	<0.01